1 STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE 2 _____ ----X Matter 15-00262 - In the Matter of a Three-Year Rate Proposal for Electric Rates and Charges Submitted by the Long Island 3 Power Authority & Service Provider, PSEG Long Island LLC. -----X 4 5 275 Veterans Memorial Highway Smithtown, New York 6 June 23, 2015 7 10:15 a.m. 8 ADMINISTRATIVE JUDGES: 9 The Honorable DAVID R. VAN ORT 10 The Honorable MICHELLE L. PHILLIPS 11 APPEARANCES: 12 Kevin R. Brocks, LIPA Howard J. Read, LIPA S. Jay Goodman, Esq. City of New York 13 Robert M. Loughney, Esq., City of New York 14 Thomas Bjurlof, Pro se Matthew Weissman, Esq., PSEG LI 15 Robert Grassi, Esq., PSEG LI Bruce Miller, Esq., PSEG LI Guy R. Mazza, Esq., Department of Public Service Staff 16 John Favreau, Esq., Department of Public Service Staff Nicholas Forst, Esq. Department of Public Service Staff 17 Robert M. Calica, Esq., Town of Brookhaven 18 Michael W. Zimmerman, Esq., Utility Intervention Unit Erin P. Hogan, Director Utility Intervention Unit 19 David A. Ragonetti, Esg. Nassau County Attorneys Office Chris Leimone, Esq., Nassau County Attorneys Office 20 Samantha Wilt, Natural Resources Defense Council Joseph Schroeder, Suffolk County Legislature Office 21 LAURAE COHEN 22 Reporter 23 24 25

JUDGE VAN ORT: Good morning. We are here on Matter number 1 2 15-00262. It is entitled In the Matter of a Three-Year Rate Proposal for Electric Rates and Charges Submitted by the Long 3 Island Power Authority & Service Provider, PSEG Long Island LLC. 4 5 I am David Van Ort. I am the Administrative Law Judge with the 6 Department of Public Service. To my right is Administrative Law 7 Judge, Ms. Michelle Phillips. We have been assigned to conduct 8 these proceedings.

9 We're here today for an evidentiary hearing. We have a 10 couple of days set up for this process, and we will get through 11 it this week. Again, we are here pursuant to a notice that was 12 issued on May 27th. We're going to go around the room and take 13 appearances of the parties. I just want to ask if there is an 14 individual here from New York Best? New York Best had filed 15 requests for party status. I believe there were no objections 16 to that. It was filed and we heard no objections. It was filed on June 8th but if the individual hasn't appeared, I don't think 17 18 we need to address anything at this point in time.

19 Let's go around the room and take appearances. We will 20 start with Mr. Brocks.

21 MR. BROCKS: Good morning, Your Honors. For the Long 22 Island Power Authority, the firm of Read & Laniado by Kevin 23 Brocks and Howard Read.

24 25 JUDGE VAN ORT: Thank you.

MR. GOODMAN: Good morning, Your Honors. For the City of

New York, I am Jay Goodman. On my left is Bob Loughney, and we 1 2 are with the firm of Couch White. 3 MR. BJURLOF: Good morning, Your Honors. My name is Tom 4 Bjurlof. I am appearing pro se. 5 MR. WEISSMAN: Good morning, Your Honors. I am Matt 6 Weissman with PSEG Service Corporation. We represent PSEG Long 7 Island. I am joined this morning by Mr. Robert Grossi of PSEG Long Island and by our outside counsel, Mr. Bruce Miller with 8 9 Cullen & Dykman. 10 JUDGE VAN ORT: Thank you. 11 MR. MAZZA: Good morning, Your Honors. On behalf of the 12 Department of Public Service, my name is Guy Mazza. With me to my right is John Favreau and Nicholas Forst. 13 14 JUDGE VAN ORT: Thank you. Do we have any other parties? MR. CALICA: Yes. Good morning, Your Honors. On behalf of 15 16 the Town of Brookhaven. I am Robert M. Calica from Rosenberg, 17 Calica & Birney LLP. As Your Honors know, we have not scheduled 18 submission of our witnesses for cross examination, but we will 19 be filing a post-hearing brief on the schedule that Your Honors 20 have established. Thank you. 21 JUDGE VAN ORT: Thank you. Are there any other parties in 22 the room? 23 MR. ZIMMERMAN: On behalf of New York Department of State 24 Utility Intervention Unit, I am Mike Zimmerman. To my right is 25 Erin Hogan.

1	JUDGE VAN ORT: Thank you.
2	MR. RAGONETTI: On behalf of Nassau County, my name is
3	David Ragonetti and Chris Leimone with the Nassau County
4	Attorneys office.
5	MS. WILT: Good morning, on behalf of the Natural Resources
6	Defense Council, Samantha Wilt.
7	JUDGE VAN ORT: Anyone else that has filed for party status
8	that hasn't identified themselves?
9	MR. SCHROEDER: My name is Joe Schroeder. I am here on
10	behalf of Suffolk County.
11	JUDGE VAN ORT: For the benefit of the rest of the
12	individuals in this room, we had a discussion here this morning.
13	Judge Phillips will go into that in a moment. I just want to
14	point out to you that in the week prior to this and even before
15	that the parties have been engaging in discussions with respect
16	to the exhibits that would be offered into evidence as well as
17	the witnesses for which there will be cross examination.
18	They have prepared a document that has an exhibit list. As
19	we go through this process, you are going to see that it looks
20	somewhat orderly because of the fact that the parties have been
21	working ambitiously toward structuring an efficient hearing this
22	morning. We thank the parties for doing that.
23	JUDGE PHILLIPS: I know that there are a lot of people who
24	are not familiar with our processes. I did mention earlier
25	before we went on the record, I was explaining why some of the

counsel were here in front of us speaking with us. We were discussing procedural matters. One of the procedural matters that came up is a request that would be made by the Nassau County attorney, an application to cross one of the panels that they had not previously identified that they would have cross examination for. We were discussing the process that we would use to handle that.

What we resolved is that Nassau County I believe tomorrow 8 9 will indicate the questions that they have. We will reserve an 10 exhibit number, and I believe they are directed to PSEG. PSEG 11 will answer those questions. That exhibit number that has been 12 reserved will be used for the identification of those answers. 13 That becomes part of what is called the record. Our record is 14 going to consist of everything that has been filed in our 15 document management system, all of the testimony and exhibits 16 that we will be using here today in getting into the record. 17 We will prepare something called a transcript that will have all of the testimony, all of the questions that are asked based on 18 19 that testimony, the answers that are provided and the exhibits 20 are separately maintained but still part of the record. They 21 are numbered so that when the parties get to the point when they 22 prepare briefs, it is very easy for them to identify the 23 testimony using the pages and line numbers of the transcript and 24 then to identify the exhibits using the numbers that we have 25 assigned to the exhibits.

We currently have what are called pre-filed exhibits. 1 2 Those you will find in the document management system that exists on the department's web page. Those have all been 3 numbered, and we have a numbering list for that. Today during 4 5 cross examination and during the proceedings that we have here 6 parties may want to introduce other information often times that 7 consist of answers to questions that they have asked other parties. Those will also be given a number so that when the 8 9 parties prepare their briefs after this process they can easily identify that. 10

11 That was one of the discussions we had here at the table. 12 The other discussion, procedural discussion, that we had was 13 simply discussing do we want to have all of the cross 14 examination take place first or would we have one party who will be adopting their testimony orally but there is no cross 15 16 examination, basically the timing for that and how that would 17 happen. We are, I believe, turning to those steps next. One of the parties, our pro se party Mr. Bjurlof, will adopt his 18 19 testimony. That will be copied into the record as though orally 20 given but there are no questions for him.

Then we will turn to the next panel that we have our schedule for. They will be sworn in and we will proceed thereon. At the end of today's proceedings, we plan to enter in certain amounts of testimony for which there were no questions, and we will be doing that by affidavit. That's pretty much the

process that we lay forth, and that's what we were discussing 1 2 here. I didn't want anyone to feel they were left out. That's what we were discussing. 3 4 Are there any questions about the process? Okay, thank 5 you. 6 JUDGE VAN ORT: One of the things in our June 8th ruling on 7 hearing procedures is we indicated to the parties that they are 8 to bring CDs or DVDs which have the testimony as well as the 9 parties that are going to be providing DVDs for exhibits the testimony goes to the hearing reporter for the testimony to be 10 11 copied in the DVD containing the exhibits provided to us. We 12 will ensure they are provided into the DMM system and accurately represent the exhibit numbers attached to them. If the parties 13 14 haven't provided those to the reporter, you can do so in advance of panels coming up but we want to make sure it is all done 15

16 before the end of the day today. If anybody has no questions at 17 this point, we can take a moment to do that now.

18 I just gave an instruction to the reporter. If any of you 19 provided exhibits to the reporter in addition, the reporter is 20 not going to be including those as part of the transcript. That 21 is an issue that we will be addressing with our document 22 management system. We also had a brief discussion with the 23 counsel for the NRDC with respect to an affidavit of an 24 individual. Counsel just asked if we can bring that up from 25 tomorrow's schedule to today. We will take that right after Mr.

1	Bjurlof and we will address that.
2	Why don't we begin the hearing process. Mr. Bjurlof, if
3	you are here, there you are. If you can take a seat in one of
4	the first four chairs on the other end. You are going to have
5	to push the microphone and hold it down when you speak.
6	EXAMINATION BY
7	JUDGE VAN ORT:
8	JUDGE VAN ORT: Mr. Bjurlof, would you raise your right
9	hand, please. Do you swear or affirm that the testimony you are
10	about to give in this proceeding is the truth, the whole truth
11	and nothing but the truth?
12	MR. BJURLOF: I do.
13	JUDGE VAN ORT: Thank you. Inasmuch as there is no one
14	representing him, I will simply question him and put his
15	testimony into the record if anyone has no objections?
16	MR. WEISSMAN: No objections.
17	JUDGE VAN ORT: Mr. Bjurlof, did you prepare a document for
18	this proceeding entitled "The Prepared testimony of Thomas
19	Bjurlof Pro Se" which consists of a title page and eleven pages
20	of typed text?
21	MR. BJURLOF: Yes, I did.
22	JUDGE VAN ORT: Is it correct that you did not include any
23	exhibits as part of your testimony?
24	MR. BJURLOF: That's correct.
25	JUDGE VAN ORT: If I were to ask you, which I am, the

1	questions that you have in your testimony, are the statements
2	that you have made in response to those questions true and
3	accurate at this point in time as they were when you prepared
4	this testimony?
5	MR. BJURLOF: Yes, they are.
6	JUDGE VAN ORT: Do you have any additions or corrections to
7	that testimony?
8	MR. BJURLOF: No, I do not.
9	JUDGE VAN ORT: Thank you very much. There are no
10	questions for this witness?
11	MR. WEISSMAN: No.
12	JUDGE VAN ORT: Thank you, Mr. Bjurlof. Reporter, note
13	that his testimony is to be copied into the record as if orally
14	given.
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

BEFORE THE STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

MATTER NUMBER 15-00262

In the Matter of a Three-Year Rate Proposal for Electric Rates and Charges Submitted by the Long Island Power Authority and Service Provider, PSEG Long Island LLC.

Prepared testimony of

Thomas Bjurlof, pro se

Long Island May 13, 2015

- Q. Please state your name and address.
- A. My name is Thomas Bjurlof. I reside at 57 Rockledge Path in Port Jefferson New York.
- Q. Mr. Bjurlof, do you represent any business with an interest in these proceedings?
- A. I do not. I am a resident of Suffolk County and LIPA rate payer. I have an interest in the deployment of efficiency and distributed resources on Long Island in a manner that is beneficial and economical for rate payers.
- Q. Do you have professional experience relevant to the subject matter of this proceeding?
- A. Yes I do. I was the founder and general manager of a business consulting group that specialized in regulatory and technological change in networked industries, foremost in telecommunications and electricity in the United States and Europe.
- Q. Have you previously testified in proceedings before the Department of Public Service?
- A. Yes I have. I provided statements last year at the Utility 2.0 public statement hearings, Case 14-01299.

- Q. Is the Utility 2.0 program included in the scope of this proceeding?
- A. It is to an extent. On March 30, 2015 the Administrative Law Judges Michelle L. Phillips and David R. Van Ort ruled as follows:

"The Utility 2.0 Long Range Plan, along with an RDM and mechanisms for recovering energy efficiency program costs, are proposed for the period 2016 through 2018,² the term of the rate plan being considered here. We therefore conclude that the scope of issues to be addressed in this rate matter should be expanded to include (1) the impact of Utility 2.0-related issues on capital expenditures, revenue requirement and the O&M budget and (2) the operation and design of (a) the cost recovery rider and true-up mechanism for energy efficiency programs and (b) the RDM."

My testimony will focus on the impact of Utility 2.0 T&D capital expenditures on the revenue requirement over the three year period covered by this case.

- Q. Have PSEG Long Island and/or LIPA proposed a comprehensive methodology to account for these impacts?
- A. To my knowledge they have not.

Utility 2.0 Panel

Q. What is Utility 2.0?

A. For the purpose of this testimony I will rely on recommendations provided in a letter ("the Letter") dated April 15, 2015 from Audrey Zibelman, Chief Executive Officer, Department of Public Service, to Ralph V. Suozzi, Chairman, Long Island Power Authority. I quote:

"Please find herein the recommendations of the New York State Department of Public Service (DPS or Department) concerning PSEG Long Island, LLC's (PSEG LI) first annual Long Range Plan (Utility 2.0 Plan or Plan). The recommendations are provided pursuant to the LIPA Reform Act (LRA) and are consistent with the Amended and Restated Operating Service Agreement (OSA) between LIPA and PSEGLI."

" ... the Utility 2.0 Plan is intended to provide PSEG LI customers with tools to manage their energy usage and utility bills more efficiently and effectively, and improve system reliability and power quality.¹ In its Utility 2.0 Plan, PSEG LI points to the specific goals of reducing peak demand and improving the efficiency and resiliency of the electric grid. The Utility 2.0 Plan also identifies immediate reliability challenges on the Long Island electric grid that could be addressed through market animating programs and new technologies, rather than

traditional infrastructure deployment."

- Q. Have specific Utility 2.0 projects been identified at this time?
- A. Yes. The Letter identifies three such projects. These projects are characterized as addressing "high-priority load pockets on the Long Island System in Montauk, Far Rockaway, and Glenwood with market based innovative solutions." PSEG LI identifies in their response to interrogatories five additional projects where RFIs have been issued.
- Q. How will these projects be funded?
- A. I quote from pages four and five of the Letter:

"Development and administration of the solicitations can be funded from the 2015 LIPA approved budget.¹⁶ Additional funding for actual deployment of solutions should be considered within the 2016-2018 rate case and the proposed capital budget. Funding for capital expenditures to address the load pockets would be repurposed in part to pay for the Utility 2.0 Plan alternatives. Results of the solicitation processes, the PSEG LI ongoing rate proceeding, and

forthcoming Integrated Resource Plan will ultimately inform the details of these programs, including implementation and cost recovery methods."

- Q. What types of costs and/or savings are considered for these projects?
- Α. Project costs of innovative Utility 2.0 projects are intended to "reduce or defer traditional T&D capital expenditures". This formulation is somewhat ambiguous in that it does not explicitly make a distinction between short term project costs that should be recorded in the revenue requirement for a given year, and long term costs or cost avoidance over the period of deferral or avoidance. The Utility 2.0 program in addition to considering direct project costs introduces system-wide long-run costs and in doing so relies on the concept of opportunity cost of network utilization and comparison with alternative approaches for meeting system needs and requirements. The program discussion does not, to my knowledge, explicitly use the phrase 'opportunity cost'. Notwithstanding specific terminology, the concept of opportunity cost is an integral part of the foundation of Utility 2.0.

- Q. What do you mean by "opportunity cost"?
- A. System network externalities are central to electric transmission and distribution networks. It is not possible to transmit electricity between and entry and exit point without affecting network utilization in a multitude of nodes of the network. The consideration of externalities of this kind is part of determining the opportunity cost of a project.
- Q. Is opportunity cost a novelty concept introduced by the Utility 2.0 program?
- A. It is not. It is a mainstay of economics and it plays a critical role in network economics. It is a core concept for analyzing the economics of electric systems. Opportunity cost provides the ability to make choices between competing innovative projects and traditional T&D investment in terms of externalities associated with each project. It thereby gives an enhanced understanding of overall incurred costs. The determination of opportunity cost should be inherent in the process of developing the revenue requirement.
- Q. Does the rate plan make a distinction between short and long-run costs/savings?

- A. Yes, it does make such a distinction. Short-run cost and savings variances are in some cases subject to shortrun rate adjustments, for example "revenue decoupling". Long-run incremental costs and savings are brought into focus by the Utility 2.0 program. It is unclear, from testimony, how long-term adjustments are pro-rated.
- Q. Should long-run incremental savings be part of decisionrelevant costing criteria for the Utility 2.0 program?
- A. Long-run incremental savings are critical for determining the economic value of proposed projects, and should hence be considered together with opportunity cost, and project cost in the evaluation of competing Utility 2.0 projects.
- Q. Are any other costs/savings considered in relation to the proposed Utility 2.0 programs?
- A. Yes, the Letter mentions the objective of "smoothing peak demand". Smoothing or reducing peak demand is an important objective because the marginal cost of generating electricity increases as a function of load.
- Q. Since power generation belongs to the Integrated Resource Plan (IRP), are savings of this kind not out of scope of this proceeding?
- A. Any cost associated with power generation would be out of

Utility 2.0 Panel

scope. T&D costs that affect the marginal cost of meeting load should however be considered within scope of the rate plan. When determining what projects are selected for implementation, all savings entailed by these projects should be part of determining their (present) economic value and are hence a decision-relevant consideration that determines the costs to be recorded in the revenue requirement.

- Q. Should the considerations discussed in your testimony regarding project cost, opportunity cost, and long-run incremental savings be considered as exclusive to the Utility 2.0 program?
- A. My testimony is within the context of the Utility 2.0 program. As the operator in a non-competitive (noncontestable) retail market for electricity LIPA and PSEGLI are responsible for the cost of electricity to endusers. LIPA and PSEGLI are hence under an obligation to consider the "rate impact" (sometimes referred to as "the principle of prudence") of all of its infrastructure decisions. The revenue requirement is one of the determinants of rate impact. To be able to fully discharge its responsibilities under Utility 2.0, and under LIPA's constituting legislation as a general matter, it would be reasonable to require LIPA and PSEGLI to incorporate the

considerations of opportunity cost, long run incremental costs/savings, and long-run rate impact of capital T&D investment decisions, and to adjust the revenue requirement according to such considerations.

- Q. Since Utility 2.0 is a new program and specific cost data are not yet available, is it not premature to consider the issues you bring up at this time? The letter by the DPS reads as follows regarding requests for proposals to be issued: "The solicitations should not prescribe solutions or provide specifications that in effect predetermine solutions." Should we not wait until interested parties have responded to solicitations?
- A. Although it may, under some circumstances, make some sense to issue requests for information (RFI) without specifying how prospective proposals will be evaluated, issuing requests for proposal (RFP) before determining the evaluation criteria does not seem reasonable.
- Q. How would the approach you propose promote desirable goals such as reliability, fuel diversity, and the use of renewable generation?
- A. These can be considered to be network externalities and should be incorporated in decision-relevant costing in terms of opportunity cost.

- Q. In response to interrogatories PSEG states the following: "At this point, PSEG LI is responding to the Utility 2.0 questions in a general manner, given the fact that no specific projects were identified in the question." Are the suggestions in your testimony premature?
- A. They are not. The rules of decision-relevant costing for the Utility 2.0 program are a pre-condition for specific projects under the program. PSEG LI claims, in its response to interrogatories, that they are evaluating Utility 2.0 type solutions. "PSEG LI is evaluating Utility 2.0 solutions for certain traditional, utility-type projects". Such evaluation can and should not be done until the rules for decision-relevant costing have been determined. Proceeding without doing so would be "to put the cart before the horse". Utility 2.0 is, as I understand the program, not intended as a utility R&D laboratory, but as a process for engaging and animating market forces for the introduction and deployment of new, innovative and competitive utility solutions.
- Q. Does this conclude your testimony?
- A. Yes, at this time.

JUDGE VAN ORT: Counsel for NRDC, why don't we take the 1 2 affidavit. 3 Do I stay here? MS. WILT: JUDGE VAN ORT: Why don't you come up here so you have a 4 5 microphone. Counsel, just to note for the record, this 6 affidavit is prepared by NRDC with respect to the testimony of 7 Jackson Morris, correct? MS. WILT: Correct. 8 9 JUDGE VAN ORT: The testimony consists of -- if you want to refer to your affidavit to give us an overview of what the 10 11 testimony is. Pages and any exhibits would be fine. 12 MS. WILT: The direct testimony of Jackson Morris consists 13 of fifteen pages and Exhibit JM-1 which is the resume of Jackson 14 Morris as well as the rebuttal testimony of Jackson Morris on behalf of NRDC which is five pages including the title page. 15 16 JUDGE VAN ORT: Thank you. We are going to accept that 17 affidavit into the record. We will identify it as exhibit 18 number -- I think the next number is Exhibit 101. Am I correct 19 on that, Mr. Forst? He is nodding his head. 20 MR. FORST: Yes, Your Honor. 21 JUDGE VAN ORT: Exhibit Number 101. Thank you. 22 MS. WILT: Thank you. 23 JUDGE VAN ORT: We will move onto the testimony of 24 Mr. Falcone. That was the first one on the list, correct? 25 MR. BROCKS: Your Honor, that will be by affidavit. The

1	first scheduled witness is the panel.
2	JUDGE VAN ORT: Do you wish to put the affidavit in now or
3	do you wish to wait at the end?
4	MR. BROCKS: I think we will wait and do it all at once.
5	Thank you.
6	JUDGE PHILLIPS: We were just discussing off line, and I
7	will just make a statement to try to make it as easy as possible
8	for the court reporter. The next testimony that should be
9	copied into the record would be the original and rebuttal
10	testimony of Mr. Morris. That would be followed by the
11	testimony of Mr. Falcone. He also has original and rebuttal,
12	correct?
13	MR. BROCKS: That's correct.
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

STATE OF NEW YORK PUBLIC SERVICE COMMISSION

Matter No. 15-00262

In the Matter of a Three-Year Rate Proposal for Electric Rates and Charges Submitted by the Long Island Power Authority and Service Provider, PSEG Long Island LLC.

Direct Testimony of Jackson Morris On Behalf of Natural Resources Defense Council

May 14, 2015

TABLE OF CONTENTS

I.	Identification and Qualifications	1
II.	Introduction	2
III.	Energy Efficiency	3
IV.	Renewable Energy	6
V.	Improving Integration of Utility 2.0 Plan Programs and Other Related	
	Proceedings	9

TABLE OF EXHIBITS

Exhibit___JM-1

Resume of Jackson Morris

I I. Identification and Qualifications

2 Q. Please state your name and business address.

3 A. Jackson Morris, 40 West 20th Street, New York, NY 10011.

4 Q: On whose behalf are you testifying?

5 A: I am testifying on behalf of the Natural Resources Defense Council ("NRDC").

6 Q. Mr. Morris, by whom are you employed and in what capacity?

A. I am Director of Eastern Energy at NRDC, which is a national non-profit
environmental organization with more than 2 million members and online
activists. Since 1970 our lawyers, scientists and other environmental specialists
have been working to protect the world's natural resources and improve the
quality of the human environment.

12 Q. Summarize your qualifications.

A. I joined NRDC in January 2014. Prior to joining NRDC, I was a Senior Policy
Advisor at the Pace Energy and Climate Center. And before my position at Pace,
I was the Air & Energy Program Director at Environmental Advocates of New
York, where I worked on complex air quality and energy issues with several
broad coalitions to effectively implement the Regional Greenhouse Gas
Initiative, Energy Efficiency and Renewable Portfolio Standards, as well as a
wide array of clean energy and efficiency projects in Albany.

I have a B.A. in Sociology and certificates in Primatology and Markets & Management from Duke University, as well as an M.S. in Environmental Policy from Bard Center for Environmental Policy. I have also taught environmental science at bilingual schools in the 18 Caribbean and studied sustainable development in Central America.

Since 2014 I have represented NRDC in regulatory utility matters, including 6 7 proceedings before the Commission related to Reforming the Energy Vision, 8 distributed and utility scale renewable energy, energy efficiency, and distributed generation. In addition I represent NRDC and other environmental parties as a 9 10 voting member of the NYISO governance process. In the course of this work I 11 have reviewed and provided input on various analyses related to system planning and policies to scale up energy efficiency and other demand side 12 13 resources, as well as analyzing the costs and benefits of utility local transmission plans (LTPs) and the role for Non Transmission Alternatives 14 (NTAs) to provide more cost-effective solutions to meet reliability requirements 15 and provide safe and reliable service. Exhibit _____JM-1 provides other details 16 of my professional background. 17

18 II. Introduction

19 **Q:** What issues will you address in your testimony?

4 III. Energy Efficiency

5 Q: Has New York State adopted a goal to reduce greenhouse gas emissions?

6 A: Yes. On August 6, 2009, Governor David Paterson issued Executive Order 24

7 (2009), which established a goal "to reduce current greenhouse gas emissions

8 from all sources within the State eighty percent (80%) below levels emitted in

9 the year nineteen hundred ninety (1990) by the year two-thousand fifty (2050)".

This same Executive Order was subsequently renewed and reaffirmed byGovernor Cuomo in 2011, soon after he took office.

12 Q: How can New York State achieve this goal?

A: New York State can achieve this greenhouse gas reduction goal by significantly
 ramping up the deployment of clean energy resources, and in particular through
 the effective adoption and implementation of strong, clear targets for both
 energy efficiency and renewable energy.

17 Q: What target should New York State adopt with respect to energy efficiency?

A: Based on best practices and proven program performance in other leading states,
 New York should adopt a *minimum* 2% annual savings rate for energy
 efficiency. As proposed in the recent Reforming the Energy Vision ("REV")

1		Track I Order, these investments should continue as an integral part of utility
2		operations on an ongoing basis, without a sunset.
3	Q:	What is an appropriate energy efficiency target for PSEG-LI?
4	A:	PSEG-LI should procure all cost-effective energy efficiency and should
5		similarly adopt a minimum 2% annual savings rate, in accordance with the
6		recommended New York State energy efficiency goal, mentioned above. PSEG-
7		LI should be responsible for determining how these savings would be achieved
8		among the various programs in its service area, with input from stakeholders.
9	Q:	Has PSEG-LI proposed an energy efficiency target?
10	A:	No, it does not appear that PSEG-LI has adopted or proposed an explicit energy
11		efficiency target.
12	Q:	Is PSEG-LI sufficiently focused on the development and implementation of
13		baseline energy efficiency programs that will result in persistent energy
14		savings?
15	A:	No. PSEG-LI proposed a number of projects in its Utility 2.0 Plan, which
16		would be developed and implemented from $2015 - 2018$, and that, according to
17		PSEG-LI's testimony, are anticipated to result in 250 MW of savings. In its
18		testimony, PSEG-LI states that "[t]he immediate focus of [these] proposed near
19		term projects center on the programmatic and targeted use of distributed energy
20		resources and other technologies that have the potential to enhance customer
21		energy choices and achieve greater system efficiency, with an emphasis on

reducing peak demands and improving system load factor and asset utilization." 1 2 Direct Pre-filed Testimony of the Utility 2.0 and Energy Efficiency Panel at 7. While I agree that improving system efficiency is an important consideration 3 from a cost and emissions perspective, particularly on Long Island with its 4 5 unique locational capacity requirements, PSEG-LI should pursue a more balanced approach that avoids an overemphasis on peak reduction (MW) to the 6 7 detriment of overall demand (MWh) reduction. For example, if the "tails" of 8 Long Island's load curve are raised to a greater degree than the peak is lowered, 9 it would result in an improved system efficiency percentage, but (based on the 10 current power supply portfolio) also increased emissions and greater overall 11 electric demand. While NRDC fully recognizes and supports the need to reduce peak demand due to the environmental and consumer benefits those investments 12 13 deliver, a more balanced demand side portfolio is essential. PSEG-LI should avoid focusing too heavily on programs targeting MW peak demand reductions 14 15 if doing so results in reduced investments in energy efficiency programs that 16 would otherwise achieve a 2% annual MWh energy savings target.

17

18

Q: Should PSEG-LI also adopt a target specifically focused on scaling up energy efficiency in affordable multifamily housing?

A: Yes. Within an overall minimum 2% annual target for energy efficiency, PSEG LI should aim for sustained electric savings of 1.5% per year in its multifamily
 buildings. This target is consistent with Optimal Energy's findings included in
 its October 2014 analysis of "New York State Multifamily Efficiency

Opportunities" prepared for the Energy Efficiency for All coalition ("Coalition") and submitted as Exhibit A in the Coalition's October 2014 reply comments in the REV docket.¹ Within this sector, there should be a particular focus on affordable multifamily housing, for which there is significant potential in PSEG-LI's service territory (55 GWh through 2034), as Optimal's May 2015 report entitled, "Potential for Energy Savings in Affordable Multifamily Housing" demonstrates.²

8 IV. Renewable Energy

9 Q: What target should New York State adopt with respect to renewable 10 energy?

A: Building on the state's successful renewable energy programs to date, such as
NY-Sun, LIPA's Solar Pioneer and Clean Solar Initiative Feed In Tariff
solicitations, as well as the state's broader existing Renewable Portfolio
Standard, New York should adopt a renewable energy goal of 50% by 2025.
Doing so will send a clear signal to the market that the State is committed to the
continued deployment of these valuable resources, and reassert the state's
position as a national leader on renewable energy.

¹ See <u>http://www.optenergy.com/wp-content/uploads/2014/08/New-York-State-MF-Efficiency-</u> <u>Opportunities.pdf</u> at 10.

² See <u>http://www.energyefficiencyforall.org/sites/default/files/EEFA%20Potential%20Study.pdf</u> at 19.

ensure that 50% of its electric demand is supplied by renewable resources by
2025.

5

6

Q: What renewable resource potential does Long Island have to help the state achieve a 50 x '25 renewable energy goal?

7 A: Long Island has extensive renewable resource potential, including substantial 8 untapped offshore wind and solar power. A 2012 analysis completed by 9 Synapse Energy Economics, Inc., entitled, "A Clean Electricity Vision for Long 10 Island", estimated that 75% of Long Island's electricity demand could come 11 from renewable resources by 2030.³ In addition, the New York State Energy Research and Development Authority (NYSERDA) BOEM Offshore Wind 12 Cost-Benefit Study modeled a "probable scenario" of 2,450 MW of offshore 13 wind in the New York Bight by 2025, and an "optimistic scenario" of 3,450 14 MW.⁴ In its November 2014 study, "Offshore Wind Energy and Potential 15 Economic Impacts in Long Island", the New York Energy Policy Institute of 16 Stonybrook University also concluded that their "review of the literature, 17 18 BOEM's leasing and state policies related to offshore wind suggest that Long 19 Island's near term addressable market for offshore wind development is

³ See <u>http://www.synapse-energy.com/sites/default/files/SynapseReport.2012-08.RELI_.Long-</u> <u>Island-Clean-Energy-Vision.11-054.pdf</u> at 7.

⁴ See http://www.boem.gov/NYSERDA-Offshore-Wind-Program-Update/ at 3.

1		approximately 8,850 MW, of which 2,500 MW is in federal waters abutting
2		New York State." ⁵ And while existing programs have driven significant
3		deployment of solar, there remains substantial potential to expand the
4		percentage of power provided by solar PV even further in the coming decade
5		and beyond. PSEG-LI should ensure their distribution system investments (in
6		this rate proposal as well as subsequent planning exercises) are made with an
7		eye towards a future that includes significant increases in renewable energy
8		penetration at both the utility scale and distributed levels.
9	Q:	If Long Island were subject to a new "50 x 2025" renewable energy
10		requirement, would all of those resources need to be "on island"?
11	A:	No. Just as customers in Southeast New York are contributing to expand wind
12		Upstate in order to deliver the economic, environmental, and fuel diversity
13		benefits those projects provide to all New Yorkers, PSEG-LI customers can be
14		part of the overall statewide effort to reach the 50 x '25 target even if some of
15		the projects built are off island.
16	Q:	In addition to mitigating greenhouse gas emissions through the increased
17		deployment of energy efficiency and renewable energy resources, should
18		PSEG-LI also address the impacts of climate change in its planning?
19	A:	Yes. Given the need for PSEG-LI to ensure the reliable provision of service to

⁵ See <u>http://www.aertc.org/docs/SBU%20OSW%20Eco%20Dev%20Final%2011-25.pdf</u> at 15.

10		Proceedings
9	v.	Improving Integration of Utility 2.0 Plan Programs and Other Related
8		
7		and steam rate plans. ⁶
6		considerations in its February 2014 Order approving Con Edison's electric, gas
5		Commission explicitly stated the need for all utilities to address climate change
4		adaptation plan, which should be updated on a regular basis. The Public Service
3		analysis of alternatives to improve resiliency; and, prepare a long-term climate
2		and long-term vulnerability assessments regarding climate change; conduct an
1		which PSEG-LI's system will need to operate, PSEG-LI should perform short-

11 Q: What other planning processes are underway or anticipated that impact

12 **PSEG-LI's system buildout?**

⁶ "The State's utilities should familiarize themselves with scientists' projections for local climate change impacts on each service territory. These will differ: other coastal and estuarine utilities also face sea level rise and storm surges, while all the State's utilities face challenges such as Hurricane Irene and Tropical Storm Lee, Nor'easters, floods, severe winds, increasing ambient heat, and extreme heat events. We expect the utilities to consult the most current data to evaluate the climate impacts anticipated in their regions over the next years and decades, and to integrate these considerations into their system planning and construction forecasts and budgets." New York State Public Service Commission Case No. 13-E-0030, <u>Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of Consolidated Edison Company of New York, Inc. for Electric Service et al., Order Approving Electric, Gas and Steam Rate Plans in Accord with Joint Proposal (issued February 21, 2014), at 71-72.</u>

1	A:	Currently PSEG-LI is undertaking the development of an Integrated
2		Resource Plan (IRP) which: "forecasts future load and energy use, identifies
3		supply and demand side resource options to meet the load, and evaluates
4		alternative resource portfolios that could deliver reliable energy to customers
5		at reasonable costs, considering, among other factors, environmental impacts,
6		supply diversity and system resiliency. The IRP will also identify needs to be
7		addressed through future resource procurements." The IRP will take up to 18
8		months to complete, and is anticipated to be concluded during the first
9		quarter of 2016.
10		
11		The REV proceeding is also currently underway (Public Service Commission
12		Case No. 14-M-0101). The six objectives of this proceeding are: "1)
13		Enhanced customer knowledge and tools that will support effective
14		management of the total energy bill; 2) Market animation and leverage of
15		customer contributions; 3) System wide efficiency; 4) Fuel and resource
16		diversity; 5) System reliability and resiliency; and 6) Reduction of carbon
17		emissions." PSEG-LI is a party to the REV proceeding and states that it
18		"intends to continue to be mindful of the policies and initiatives being
19		developed in that proceeding and to incorporate them in future Utility 2.0
20		Plan annual filings." Direct Pre-filed Testimony of the Utility 2.0 and Energy
21		Efficiency Panel at 4. The REV Track One Order was issued on February 26,
22		2015, and the REV Track Two Straw Proposal is due July 1, 2015. The

1	anticipated REV Track II order is expected to fundamentally change the
2	valuation of capital investments for utilities so that they are pursuing clean
3	energy resources like renewable energy and energy efficiency with the same
4	vigor that they currently invest in traditional "poles and wires" infrastructure.
5	The REV Track II order will also determine what changes are necessary to
6	improve and enhance the ways consumers receive and use electricity, and
7	how utilities maintain and build out their systems. These changes could
8	profoundly impact utility investments and resource and supply decisions, and
9	consequently the underlying assumptions this rate case is based on.
10	
11	And finally, the current Utility 2.0 process has the next filing due in
12	December 2015 (pushed back from July 2015), that will assumedly
13	incorporate projects consistent with the REV principles, while investments
14	that were recommended by the Department of Public Service (DPS) in
15	response to PSEG-LI's 2014 Utility 2.0 filings in April 2015 do not appear to
16	have been incorporated into PSEG-LI's proposal in this matter. ⁷ As a result of
17	all of these concurrent processes, we anticipate significant changes to-and
19	likely expansions of the PSEG-LL energy efficiency renewable energy and

⁷ DPS Staff stated at the March 3, 2015 Technical Conference that they believed the T & D Deferral projects should be addressed in this matter. "MR. GARVEY: Just to reiterate DPS Staff's position, is that we believe the three projects on the first row, in addition to AMI deployment generally, should be addressed in this rate case." Technical Conference Transcript at 136.

1		other demand side management programs that will have an impact on the
2		build out of the utility's system in 2016-2018.
3	Q:	Has PSEG-LI included in its proposal in this matter the projects
4		recommended for immediate implementation in the Department of
5		Public Service's April 15, 2015 recommendations concerning PSEG-LI's
6		Utility 2.0 Plan?
7	A:	No. It has not included the expanded Direct Load Control Program or T & D
8		Deferral programs.
9	Q:	What are the impacts of not including these projects?
10	A:	By not including the expanded Direct Load Control program, totaling 125
11		MW of capacity, of which 90 MW is new (Exhibit UEE_1), PSEG-LI likely
12		overstates its peak load capacity requirement, and consequently may be
13		proposing system investments that are either unnecessary or not appropriately
14		sized for the system needs.
15		
16		The planned Transmission and Distribution Deferral projects for Montauk,
17		Glenwood and Far Rockaway will also reduce and smooth peak demand and
18		should reduce capital costs for peak capacity, by definition, since the
19		solicitations will fulfill requirements under the PSEG-LI Operating Services
20		Agreement to:
21		(b) incorporate, where cost effective, programs to reduce or defer significant capital
22		expenditures associated with the traditional T&D System and smooth peak demand,
including programs related to energy efficiency, demand response, distributed
 generation, energy storage, micro-grid systems and vehicle recharging;⁸
 These planned investments should be fully accounted for as PSEG-LI plans
 and builds out its system in this rate case.

5

Q: Does NRDC support these T&D deferral projects?

6 A: Yes. NRDC has long been an advocate for energy efficiency and clean 7 distributed resources as alternatives to due to their multiple environmental, 8 economic and customer savings benefits (often referred to as the win-win-9 win solution). Furthermore, NRDC's Energy Efficiency For All project has 10 been working in a number of states (including New York) to increase energy 11 efficiency investments in affordable multifamily housing. And we have long 12 advocated *against* meeting the increasing load demands in the South Fork 13 with additional dirty, expensive diesel powered peaker plants. For all these 14 reasons we strongly support the anticipated T&D deferral projects in Montauk, Far Rockaway and Glenwood. Further, we urge an emphasis on 15 providing efficiency services for low and middle income residents in Far 16 17 Rockaway as detailed in the July 1, 2014 Utility 2.0 filing.

18 **Q:** Does this complete your testimony?

19 A: Yes.

⁸ PSEG-LI Operating Services Agreement, Section 4.2(a)(5), quoted in Utility 2.0 and Energy Efficiency Panel Testimony, p. 5.

STATE OF NEW YORK PUBLIC SERVICE COMMISSION

Matter No. 15-00262

In the Matter of a Three-Year Rate Proposal for Electric Rates and Charges Submitted by the Long Island Power Authority and Service Provider, PSEG Long Island LLC.

Rebuttal Testimony of Jackson Morris On Behalf of Natural Resources Defense Council

June 4, 2015

1 I. Identif	cation and	Qualifications
--------------	------------	----------------

2	Q.	Please state your name and business address.
3	A.	My name is Jackson Morris. I am Director of Eastern Energy at the Natural Resources
4		Defense Council ("NRDC") for which my business address is 40 West 20 th Street, New
5		York, NY 10011.
6	Q:	Did you prepare direct testimony in this case that was filed on behalf of NRDC on
7		May 14, 2015?
8	A:	Yes, I did.
9	Q:	On whose behalf are you submitting this rebuttal testimony?
10	A:	I am submitting this testimony on behalf of the NRDC.
11	Q.	What is the purpose of your testimony?
12	A.	The purpose of my testimony is to respond to certain intervenor testimony provided in this
13		matter. Specifically, I respond to testimony filed by the Department of Public Service
14		(DPS) Staff Rates Panel regarding customer charges. In addition, I support testimony filed
15		by witnesses Marczewski and Horton for the City of New York regarding holistic storm
16		hardening and full integration of climate change impacts and resilience measures in
17		planning.
18	Q.	Do you have a response to DPS Staff Rates Panel testimony regarding customer
19		charges in this matter?
20	A.	Yes. DPS Staff Rates Panel testimony addresses customer charges:
21		Residential and Small Commercial Customer charges - PSEG LI's proposed
22		increases result in substantial rate impacts on low use customers. Therefore, we

1		recommend rejecting PSEG LI's proposal and addressing this issue for these
2		service classifications consistent with the outcome of the REV Track 2 proceeding.
3		(Direct Test. of Staff Rates Panel at 10:14-21) (See also Direct Test. of Staff Rates Panel at
4		14:1-17 and 16:16-22; 17:1-8). We strongly agree with Staff's testimony that substantial
5		customer charge increases are a concern, and are contrary to the rate design principle of
6		gradualism, by causing rate shock. We also concur with Staff's testimony that the large
7		customer charge increases will disproportionately impact low use customers, and those
8		customers are often low- and fixed-income customers who are least able to bear these
9		increases. This is a regressive change to rate design that we strongly oppose.
10	Q.	Do you have other concerns about large increases to customer charges?
11	A.	Yes. Large increases to customer charges erode the economics of investment in energy
12		efficiency and clean distributed generation, will penalize customers' past investments in
13		energy efficiency and clean distributed energy, and reduce future investments in these
14		resources by reducing the energy cost savings that result from their investments. The
15		economic payback period for customers' past efficiency and clean distributed generation
16		investments will be lengthened by higher customer charges, depriving these customers of
17		their fair and reasonable expectations of returns from those investments they have already
18		undertaken. And future investments by customers are also impacted with these longer
19		payback periods, making new investment in efficiency and clean distributed generation
20		less likely, since a portion of the savings streams are taken by the new higher fixed
21		charges.
22	Q.	Are there additional resources that address the market distortion resulting from
23		high customer charges?

1	A. Yes. The Regulatory Assistance Project ("RAP") has completed a number of
2	papers addressing high customer charges and their potential to undermine policy
3	objectives, including Electric Utility Residential Customer Charges and Minimum
4	Bills: Alternative Approaches for Recovering Basic Distribution Costs (attached as
5	Exhibit _A). In this paper, RAP specifically argues that high customer charges
6	negatively impact small-use, including low-income, customers and urban area
7	residents that use gas for heating:
8	[T]he impacts on customers of high customer charges can be inconsistent
9	with policy objectives:
10	• Small-use customers, such as apartment dwellers, low-income
11	households, and second homes will receive much higher electric bills;
12	the vast majority of low-income consumers are also low-use
13	consumers. This is anathema to public policy objectives that normally
14	tend to protect low-income customers and/ or reward low usage;
15	• Urban area residents who use natural gas for space and water heat will
16	receive much higher electric bills; ¹
17	Also attached as Exhibit_B is a paper titled Economic concerns about high fixed
18	charge pricing for electric service, by Steve Kihm, detailing the economic arguments
19	against high customer charges:
20	High fixed charge pricing negatively impacts low users, many of whom are low-
21	income customers. Under this approach the bill for those using less than the

¹ Electric Utility Residential Customer Charges and Minimum Bills: Alternative Approaches for Recovering Basic Distribution Costs, Jim Lazar, November 2014 at <u>http://www.raponline.org/document/download/id/7361.</u>

1 average amount of power is higher than the bill they receive under traditional 2 pricing. But since the fixed fee represents the bulk of the monthly bill, and that 3 fee doesn't change with usage, customers can't do much to lower their bill. 4 And, in summation: "High fixed charge pricing steers the economy away from efficient 5 resource allocation, not toward it."² 6 Q. Is there additional direct testimony you support? 7 A. Yes. I support the testimony of John Marczewski and Radley Horton on behalf of the 8 City of New York addressing holistic storm hardening and full integration of climate 9 change impacts and resilience measures in planning. We also support a broad 10 collaborative effort to address these issues, modeled on the robust Con Edison process as 11 part of Case 13-E-0030 as suggested in Prepared Direct Testimony of John Marczewski 12 (See Direct Test. of Marczewski at 12:20-23; 13:1-16). 13 Does this conclude your testimony? **Q**: 14 A: Yes.

1	JUDGE VAN ORT: The next panel we have is the LIPA Overview
2	Panel which consists of Mr. Falcone, Kane and Shansky, I
3	believe.
4	MR. BROCKS: That's correct, Your Honor.
5	EXAMINATION BY
6	MR. BROCKS:
7	JUDGE VAN ORT: Gentlemen, would you raise your right hand,
8	please. Do you swear or affirm that the testimony you are about
9	to give in this proceeding is the truth, the whole truth and
10	nothing but the truth?
11	MR. FALCONE: I do.
12	MR. KANE: I do.
13	MR. SHANSKY: I do.
14	JUDGE VAN ORT: Mr. Brocks, your witnesses.
15	MR. BROCKS: Thank you, Your Honor.
16	Gentlemen, can you hear me?
17	MR. FALCONE: Yes.
18	MR. BROCKS: Panel, do you have before you a twelve-page
19	document entitled "Direct Testimony of Overview Panel, Long
20	Island Power Authority"?
21	MR. FALCONE: Yes.
22	MR. BROCKS: Do you have any changes or corrections you
23	wish to make to that pre-filed testimony?
24	MR. FALCONE: No, we do not.
25	MR. BROCKS: If I were to ask you the questions as they are

1	set forth in that pre-filed testimony, would your answers be the
2	same here today?
3	MR. FALCONE: Yes.
4	MR. BROCKS: Do you wish to adopt this document as your
5	sworn testimony in this proceeding?
6	MR. FALCONE: We do.
7	MR. BROCKS: Panel, did you also prepare exhibits?
8	MR. FALCONE: Yes.
9	MR. BROCKS: That consists of two pages and, Your Honor, it
10	was marked as Exhibit Number 2.
11	Do you wish to sponsor that exhibit in this proceeding?
12	MR. FALCONE: We do.
13	MR. BROCKS: Your Honor, may we have the testimony of the
14	panel placed in the record as though given orally here today?
15	JUDGE VAN ORT: Any objections?
16	MR. WEISSMAN: No, Your Honor.
17	JUDGE VAN ORT: The testimony will be copied into the
18	record as if orally given.
19	
20	
21	
22	
23	
24	
25	

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Matter Number: 15-____

DIRECT TESTIMONY OF OVERVIEW PANEL

LONG ISLAND POWER AUTHORITY

JANUARY 30, 2015

1	Q.	PLEASE STATE YOUR NAME, TITLE AND BUSINESS ADDRESS.
2	A.	Thomas Falcone, Chief Financial Officer, Long Island Power Authority (the
3		"Authority"), 333 Earle Ovington Boulevard, Suite 403, Uniondale, New York
4		11553.
5		
6	Q.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND
7		PROFESSIONAL EXPERIENCE.
8	A.	I received a Bachelor of Science in Economics from the University of
9		Pennsylvania Wharton School. Professionally, I spent 13 years in investment
10		banking working in municipal and utility finance. In that capacity, I raised
11		approximately \$30 billion of capital for many of the largest public power
12		utilities and municipal borrowers in the country. I joined the Authority in
13		January 2014.
14		
15	Q.	PLEASE STATE YOUR NAME, TITLE AND BUSINESS ADDRESS.
16	A.	Rick Shansky, Managing Director of Contract Oversight, Long Island Power
17		Authority ("Authority"), 333 Earle Ovington Boulevard, Suite 403, Uniondale,
18		New York 11553.
19		
20		

1	Q.	WHAT ARE YOUR RESPONSIBILITIES AT THE AUTHORITY?
2	A.	I direct the Authority's oversight of its primary contractor PSEG Long Island
3		("PSEG-LI"), as well as its affiliate that performs day-to-day power and fuel
4		procurement. I am also responsible for managing the Authority's participation
5		in wholesale power markets.
6		
7	Q.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND
8		PROFESSIONAL EXPERIENCE.
9	A.	I have a Bachelor of Science in Electrical Engineering from Rensselaer
10		Polytechnic Institute and a Master of Science in Energy Management from NY
11		Institute of Technology. I am licensed as a Professional Engineer in the State
12		of New York. I have more than 30 years of experience in the electric utility
13		industry, and previously held positions at Consolidated Edison Company of
14		New York ("Con Edison") and the Long Island Lighting Company ("LILCO")
15		in the areas of energy management, resource planning, fuel and purchased
16		power, and generation planning. I joined the Authority in 2008 and held
17		management positions in the Power Markets department before assuming my
18		current position in September 2014.
19		

1	Q.	HAVE YOU PREVIOUSLY TESTIFIED IN RATE PROCEEDINGS IN
2		NEW YORK STATE?
3	A.	Yes. I testified as a witness for Con Edison in Public Service Commission
4		("PSC") Cases 07-S-1315, 05-S-1376, 03-S-1672, 99-S-1621, and 94-E-0334.
5		
6	Q.	PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.
7	А.	Kenneth Kane, CPA, Managing Director of Finance and Budgeting, Long
8		Island Power Authority, 333 Earle Ovington Boulevard, Suite 403, Uniondale,
9		New York 11553.
10		
11	Q.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND
11 12	Q.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL EXPERIENCE.
11 12 13	Q. A.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND ANDPROFESSIONAL EXPERIENCE.I have a BA from Pace University and a MBA in Finance from Hofstra
11 12 13 14	Q. A.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND ANDPROFESSIONAL EXPERIENCE.I have a BA from Pace University and a MBA in Finance from HofstraUniversity. I worked in public accounting beginning in 1984 and joined the
 11 12 13 14 15 	Q. A.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND ANDPROFESSIONAL EXPERIENCE.I have a BA from Pace University and a MBA in Finance from HofstraUniversity. I worked in public accounting beginning in 1984 and joined theLong Island Lighting Company ("LILCO") as an accountant in 1988. I joined
 11 12 13 14 15 16 	Q. A.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND ANDPROFESSIONAL EXPERIENCE.I have a BA from Pace University and a MBA in Finance from HofstraUniversity. I worked in public accounting beginning in 1984 and joined theLong Island Lighting Company ("LILCO") as an accountant in 1988. I joinedthe Authority in 1999 and served as Director of Financial Reporting until 2001
 11 12 13 14 15 16 17 	Q. A.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND ANDPROFESSIONAL EXPERIENCE.I have a BA from Pace University and a MBA in Finance from HofstraUniversity. I worked in public accounting beginning in 1984 and joined theLong Island Lighting Company ("LILCO") as an accountant in 1988. I joinedthe Authority in 1999 and served as Director of Financial Reporting until 2001when I was named Controller. I was appointed Managing Director of Finance
 11 12 13 14 15 16 17 18 	Q. A.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND ANDPROFESSIONAL EXPERIENCE.I have a BA from Pace University and a MBA in Finance from HofstraUniversity. I worked in public accounting beginning in 1984 and joined theLong Island Lighting Company ("LILCO") as an accountant in 1988. I joinedthe Authority in 1999 and served as Director of Financial Reporting until 2001when I was named Controller. I was appointed Managing Director of Financeand Budgeting in late 2013. I am responsible for the finance and budgeting
 11 12 13 14 15 16 17 18 19 	Q. A.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND ANDPROFESSIONAL EXPERIENCE.I have a BA from Pace University and a MBA in Finance from HofstraUniversity. I worked in public accounting beginning in 1984 and joined theLong Island Lighting Company ("LILCO") as an accountant in 1988. I joinedthe Authority in 1999 and served as Director of Financial Reporting until 2001when I was named Controller. I was appointed Managing Director of Financeand Budgeting in late 2013. I am responsible for the finance and budgetingoperations, as well as our efforts to obtain and administer various grants,

1	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
2	A.	The Authority Overview Panel's testimony will explain three overarching
3		topics related to the Rate Plan: the organizational structure of the Authority;
4		the Authority's contractual and financial relationship with PSEG-LI, the
5		service provider under the Amended and Restated Operations Services
6		Agreement ("OSA"); and the process for setting the Authority's rates.
7		
8	Q.	HOW IS THE AUTHORITY DIFFERENT FROM OTHER UTILITIES?
9	A.	The Authority was created by New York State legislation in 1986. The
10		Authority is a political subdivision of the State of New York that is governed
11		by a Board of Trustees appointed by the Governor, the Majority Leader of the
12		State Senate, and the Speaker of the State Assembly. Our senior officers are
13		appointed by the Board of Trustees.
14		
15		The Authority is a not-for-profit utility operated for the benefit of our
16		customers. We obtain money from two places-customers and lenders. We
17		have no shareholders. We are also eligible for federal and state grants in the
18		event of a severe storm or to fund certain energy efficiency programs. The
19		Authority does not pay dividends. We serve 1.1 million customers and a

1		population of over 3 million in Nassau and Suffolk Counties and the
2		Rockaways in Queens County.
3		
4	Q.	WHAT IS THE AUTHORITY'S ORGANIZATIONAL STRUCTURE?
5	A.	The Authority is managed by a staff of 40 employees organized into three
6		areas-finance, legal, and contract oversight. The Authority owns the electric
7		system but contracts out day-to-day operations.
8		
9		From 1998 to the end of 2013, a subsidiary of KeySpan (owned by National
10		Grid since 2007) was the operator of the electric system under a Management
11		Services Agreement ("MSA"). After a competitive procurement process, the
12		new operator-PSEG-LI-was chosen in December 2011. Subsequently, in
13		2013, the LIPA Reform Act imposed greater operational and policymaking
14		responsibilities on PSEG-LI. These expanded responsibilities were reflected
15		in the Amended and Restated OSA ("OSA"). PSEG-LI began operating the
16		system on January 1, 2014 pursuant to the OSA. Also, as a result of the LIPA
17		Reform Act, the Authority reduced its staff from approximately 100 to 40,
18		which is the minimum necessary to allow the Authority to meet its debt
19		obligations, manage its contractual and legal obligations, and to oversee the
20		performance of PSEG-LI.

1		Under the OSA, PSEG-LI is now the brand for electric service in the
2		Authority's service area, and PSEG-LI is responsible for all operations of the
3		transmission and distribution system, customer service and customer
4		satisfaction activities, and communications with the media and the public.
5		PSEG-LI and its affiliate assumed responsibility for power supply planning
6		and procurement in January 2015, giving PSEG-LI functional control over the
7		total operations of the utility that provides electric service to the Authority's
8		Long Island service territory.
9		
10	Q.	HOW DOES THE OSA GOVERN THE FINANCIAL
11		ADDANCEMENTS OF LIDA AND DSEC 119
11		ARRAINGEWIEIN IS OF LIFA AND FSEG-LI;
12	A.	LIPA owns the electric system and pays PSEG-LI for its costs plus a
12 13	A.	LIPA owns the electric system and pays PSEG-LI for its costs plus a management fee to operate it. Although PSEG-LI handles most of the
12 13 14	A.	AKKANGEMENTS OF LIFA AND FSEG-LI: LIPA owns the electric system and pays PSEG-LI for its costs plus a management fee to operate it. Although PSEG-LI handles most of the individual transactions with customers and suppliers, PSEG-LI does not gain
11 12 13 14 15	A.	AKKANGEMENTS OF LIFA AND FSEG-LI:LIPA owns the electric system and pays PSEG-LI for its costs plus amanagement fee to operate it. Although PSEG-LI handles most of theindividual transactions with customers and suppliers, PSEG-LI does not gainor lose financially from the revenues it collects on behalf of LIPA, nor does it
112 113 114 115 116	A.	AKKANGEMENTS OF LIFA AND FSEG-LI:LIPA owns the electric system and pays PSEG-LI for its costs plus amanagement fee to operate it. Although PSEG-LI handles most of theindividual transactions with customers and suppliers, PSEG-LI does not gainor lose financially from the revenues it collects on behalf of LIPA, nor does itprofit directly from any variations in the costs paid to run the system, including
112 13 14 15 16 17	A.	AKKANGEMENTS OF LIFA AND FSEG-LI: LIPA owns the electric system and pays PSEG-LI for its costs plus a management fee to operate it. Although PSEG-LI handles most of the individual transactions with customers and suppliers, PSEG-LI does not gain or lose financially from the revenues it collects on behalf of LIPA, nor does it profit directly from any variations in the costs paid to run the system, including the cost for purchasing fuel and power in the various commodity markets.
112 133 14 15 16 17 18	A.	AKKANGEMENTS OF LIFA AND FSEG-LI? LIPA owns the electric system and pays PSEG-LI for its costs plus a management fee to operate it. Although PSEG-LI handles most of the individual transactions with customers and suppliers, PSEG-LI does not gain or lose financially from the revenues it collects on behalf of LIPA, nor does it profit directly from any variations in the costs paid to run the system, including the cost for purchasing fuel and power in the various commodity markets.
112 13 14 15 16 17 18 19	A.	AKKANGEMENTS OF LIFA AND FSEG-LI LIPA owns the electric system and pays PSEG-LI for its costs plus a management fee to operate it. Although PSEG-LI handles most of the individual transactions with customers and suppliers, PSEG-LI does not gain or lose financially from the revenues it collects on behalf of LIPA, nor does it profit directly from any variations in the costs paid to run the system, including the cost for purchasing fuel and power in the various commodity markets. On the other hand, the management fee paid PSEG-LI includes incentives for

1		requirement to earn incentive compensation under the OSA is for PSEG-LI to
2		operate the system within 102% of its approved operating and capital budgets.
3		The OSA provides PSEG-LI with substantial flexibility to reallocate or
4		postpone approved operating and capital expenditures so that financial
5		incentives do not interfere with proper operation of the electric system.
6		
7	Q.	ARE THERE ANY EXCEPTIONS TO THE 102% OF BUDGET CAP
8		FOR PSEG-LI TO EARN INCENTIVE COMPENSATION?
9	A.	Yes, certain expenses that are managed by PSEG-LI are not subject to the
10		102% limitation, such as fuel and purchased power costs, given the limited
11		ability of PSEG-LI to control these costs, which are largely determined by the
12		marketplace. Such expenditures are characterized as PSEG-managed costs
13		within the Authority's budgets and revenue requirements. In addition, the
14		OSA recognized that even for areas that fall within the PSEG-LI Operating
15		and Capital Budgets, there are some types of events that are beyond the
16		reasonable control of the Service Provider. These "Non-Storm Emergency
17		Events" may require expenditures to provide unanticipated Operations
18		Services, such as to repair or replace damaged components of the T&D
19		System. One such example that occurred in 2014 was the incremental
20		expenses associated with a transmission cable failure. When such events

1		occur, PSEG-LI has the right to request a budget amendment for such costs.
2		Whether or not the Board approves a budget amendment for the purpose of
3		measuring incentive compensation, these expenses are paid for by the
4		Authority, provided they are reasonable and necessary.
5		
6	Q.	ARE THERE ANY OTHER SIGNIFICANT EXCEPTIONS TO THE
7		BUDGET CAP THAT ARE RELEVANT TO THE RATE PLAN?
8	A.	Yes, in this three-year Rate Plan, expenditures for Utility 2.0 and their
9		associated impacts on energy sales, revenues, and expenses have been omitted.
10		Utility 2.0, and the associated Reforming the Energy Vision ("REV") initiative,
11		are the subject of separate proceedings that are on a separate track from the
12		three-year rate plan. Both the Authority and PSEG-LI have been actively
13		engaged with the Department of Public Service to develop, review, and
14		recommend projects and programs that will reduce energy consumption
15		beyond that achieved through existing energy efficiency programs, and to
16		further reduce reliance on traditional utility solutions such as generation from
17		fossil fueled central generating stations and the construction of relatively
18		expensive transmission and distribution assets. The Authority and PSEG-LI
19		are ready to develop and deploy innovative solutions that are recommended by
20		the Department of Public Service and approved by the Trustees. Such

1		approvals would include an appropriate revision to the budgets in a manner
2		that does not penalize PSEG-LI for pursuing these worthwhile expenditures,
3		consistent with the approach taken to the approved 2015 operating and capital
4		budgets. Further, since the nature, timing, and scope of such recommendations
5		cannot be known at this point, the Authority and PSEG-LI have developed a
6		rate plan that establishes rates and revenue requirements at their pre-REV
7		levels, and looks forward to recommendations from the Department that
8		address all the components of revenue impacts and cost recovery associated
9		with the Utility 2.0 programs.
10		
11	Q.	WHAT IS THE AUTHORITY'S RATEMAKING PROCESS?
11 12	Q. A.	WHAT IS THE AUTHORITY'S RATEMAKING PROCESS? The Board of Trustees is responsible for all aspects of the Authority, including
11 12 13	Q. A.	WHAT IS THE AUTHORITY'S RATEMAKING PROCESS?The Board of Trustees is responsible for all aspects of the Authority, includingsetting rates. For this particular proceeding, the LIPA Reform Act requires
11 12 13 14	Q. A.	 WHAT IS THE AUTHORITY'S RATEMAKING PROCESS? The Board of Trustees is responsible for all aspects of the Authority, including setting rates. For this particular proceeding, the LIPA Reform Act requires PSEG-LI and the Authority to develop a "three-year rate plan." That plan is to
 11 12 13 14 15 	Q. A.	 WHAT IS THE AUTHORITY'S RATEMAKING PROCESS? The Board of Trustees is responsible for all aspects of the Authority, including setting rates. For this particular proceeding, the LIPA Reform Act requires PSEG-LI and the Authority to develop a "three-year rate plan." That plan is to be filed with DPS by February 1, 2015, with new rates to be effective January
 11 12 13 14 15 16 	Q. A.	 WHAT IS THE AUTHORITY'S RATEMAKING PROCESS? The Board of Trustees is responsible for all aspects of the Authority, including setting rates. For this particular proceeding, the LIPA Reform Act requires PSEG-LI and the Authority to develop a "three-year rate plan." That plan is to be filed with DPS by February 1, 2015, with new rates to be effective January 1, 2016. DPS is obligated under the LIPA Reform Act to provide for public
 11 12 13 14 15 16 17 	Q. A.	 WHAT IS THE AUTHORITY'S RATEMAKING PROCESS? The Board of Trustees is responsible for all aspects of the Authority, including setting rates. For this particular proceeding, the LIPA Reform Act requires PSEG-LI and the Authority to develop a "three-year rate plan." That plan is to be filed with DPS by February 1, 2015, with new rates to be effective January 1, 2016. DPS is obligated under the LIPA Reform Act to provide for public statement and evidentiary hearings, and provide a recommendation to the
 11 12 13 14 15 16 17 18 	Q. A.	 WHAT IS THE AUTHORITY'S RATEMAKING PROCESS? The Board of Trustees is responsible for all aspects of the Authority, including setting rates. For this particular proceeding, the LIPA Reform Act requires PSEG-LI and the Authority to develop a "three-year rate plan." That plan is to be filed with DPS by February 1, 2015, with new rates to be effective January 1, 2016. DPS is obligated under the LIPA Reform Act to provide for public statement and evidentiary hearings, and provide a recommendation to the Board by September 30, 2015. If the Board of Trustees accepts the DPS
 11 12 13 14 15 16 17 18 19 	Q. A.	 WHAT IS THE AUTHORITY'S RATEMAKING PROCESS? The Board of Trustees is responsible for all aspects of the Authority, including setting rates. For this particular proceeding, the LIPA Reform Act requires PSEG-LI and the Authority to develop a "three-year rate plan." That plan is to be filed with DPS by February 1, 2015, with new rates to be effective January 1, 2016. DPS is obligated under the LIPA Reform Act to provide for public statement and evidentiary hearings, and provide a recommendation to the Board by September 30, 2015. If the Board of Trustees accepts the DPS recommendations, the plan and resulting rates are adopted. If the Board finds

1		operating practice, any existing contractual or operating obligation or the
2		provision of safe and adequate services," then the Board would follow a
3		process of public hearings to adopt a different rate plan than was
4		recommended by DPS.
5		
6	Q.	WHAT OTHER STANDARDS HAVE BEEN ESTABLISHED FOR THE
7		ROLE OF THE DEPARTMENT OF PUBLIC SERVICE WITH
8		REGARD TO THIS PROCEEDING?
9	A.	Under the general powers granted to the Department through the LIPA Reform
10		Act, ¹ the Department is empowered and authorized to review and make
11		recommendations to the Board of Trustees with respect to rates and charges,
12		including charges related to energy efficiency and renewable energy programs.
13		The purpose of the DPS review is to make recommendations designed to
14		ensure that the Authority and PSEG-LI provide safe and adequate transmission
15		and distribution service at rates set at the lowest level consistent with sound
16		fiscal operating practices. The Department's recommendations are to be
17		designed to be consistent with ensuring that the revenue requirements related
18		to such rate review are sufficient to satisfy the Authority's obligations with
19		respect to its bonds, notes, and all other contracts. In the context of such

¹ See LIPA Reform Act, Part A, §3-b, paragraph 3.

1		review, the Department may not make any recommendation that would modify
2		the compensation or fee structure included within the OSA.
3		
4	Q.	DOES THE RATE PLAN PRESENTED BY PSEG-LI AND THE
5		AUTHORITY MEET THE CRITERIA FOR REVIEW BY THE
6		DEPARTMENT OF PUBLIC SERVICE?
7	A.	Yes. The three-year rate plan is designed to provide safe and adequate service
8		at the lowest level consistent with sound fiscal operating practices, and satisfy
9		the Authority's obligations with respect to its bonds, notes and all other
10		contracts.
11		
12	Q.	HAS THERE BEEN A MANAGEMENT AUDIT OF LIPA AND ITS
13		SERVICE PROVIDER?
14	A.	Yes. NorthStar Consulting Group conducted a management and operations
15		audit of LIPA and its service provider (then National Grid) and issued an audit
16		report dated September 13, 2013. PSEG-LI became the service provider on
17		January 1, 2014. While the audit focused on historic operations conducted by
18		National Grid and the Authority, 40 of the 83 recommendations were to be
19		addressed by PSEG-LI. The Authority tracks the status of both the Authority's
20		and PSEG-LI's actions in response to the recommendations. As of year-end

1		2014, 35 of 43 Authority actions had been completed and 22 of 40 PSEG-LI
2		actions had been completed. Exhibit (OP-1) shows the status of the
3		Authority's 8 remaining actions, all of which are scheduled to be completed in
4		2015. PSEG-LI has reported to the Authority that its remaining actions are
5		also scheduled to be completed in 2015, except for storm hardening actions
6		which are expected to occur over a four year period in accordance with the
7		FEMA funding agreement.
8		
9	Q.	DOES THIS COMPLETE YOUR PRE-FILED DIRECT TESTIMONY
10		AT THIS TIME?
11	A.	Yes.
12		
13		
14		
15		
16		
17		
18		
10		
19		

1	JUDGE VAN ORT: We had this set up that there was only one
2	party who indicated previously there would be cross examination
3	which was the City of New York City. Is there still cross
4	examination for this panel?
5	MR. GOODMAN: Yes, Your Honor.
6	JUDGE VAN ORT: Please proceed.
7	CROSS EXAMINATION BY
8	MR. GOODMAN:
9	MR. GOODMAN: Good morning, Gentlemen. My name is Jay
10	Goodman. I am counsel for the City of New York.
11	MR. FALCONE: Good morning.
12	MR. GOODMAN: Counsel, initially, am I correct that LIPA
13	and PSEG serve approximately 1.1 million customers; is that
14	correct?
15	MR. FALCONE: Correct.
16	MR. GOODMAN: One customer is not necessarily one person,
17	right? A customer could be a building with multiple residents
18	or businesses, correct?
19	MR. FALCONE: Correct.
20	MR. GOODMAN: On a population basis, am I correct you serve
21	approximately 3 million people?
22	MR. FALCONE: Correct.
23	MR. GOODMAN: Am I correct that Hurricane Sandy caused
24	electric service interruptions to approximately 97 percent of
25	the customers?

1 MR. FALCONE: Correct. 2 MR. GOODMAN: Am I also correct that Hurricane Sandy also had the following impacts through Long Island: 3 There was extensive flooding, correct. 4 5 MR. FALCONE: Yes. 6 MR. GOODMAN: High winds throughout he service territory, 7 correct? MR. FALCONE: 8 Yes. 9 We already discussed that there were MR. GOODMAN: pervasive service interruptions, correct, that lasted for as 10 much as fourteen days or longer? 11 12 MR. FALCONE: Yes. 13 MR. GOODMAN: Is it also correct that Hurricane Sandy 14 damaged tens of thousands of homes and businesses on Long 15 Island? 16 MR. FALCONE: Yes. 17 I have a couple of questions regarding the MR. GOODMAN: storm hardening program. Initially though when I use the term 18 "storm hardening and resiliency," I just want to make sure that 19 20 we are clear on what I am referring to. 21 When I say "storm hardening and resiliency," do you 22 understand me to be discussing capital investments that make the 23 utility infrastructure less susceptible to storm-related outages and also improve the utilities' ability to restore services when 24 25 there is an outage caused by storms?

1	
T	MR. FALCONE: IES.
2	MR. GOODMAN: Thank you. I may use the term storm
3	hardening as short hand to refer to both hardening and
4	resiliency, just to be clear.
5	Does the panel agree that storm hardening investments
6	improve the system's ability to sustain services throughout
7	severe weather? I believe you just said correct, yes.
8	MR. FALCONE: Yes.
9	MR. GOODMAN: And also we agree that those investments may
10	shorten the time needed to restore service following an
11	interruption, correct?
12	MR. FALCONE: Yes.
13	MR. GOODMAN: Am I correct that storm hardening investments
14	may extend the life of certain utility assets by improving their
15	ability to withstand severe weather, correct?
16	MR. FALCONE: Yes.
17	MR. GOODMAN: Do you agree that storm hardening investments
18	may be economical over the long term because they do extend the
19	life span of utility assets?
20	MR. FALCONE: Certainly theoretically possible.
21	MR. GOODMAN: Theoretically possible, but do you have a
22	specific reason today to dispute the accuracy of that statement?
23	MR. FALCONE: I think we can stipulate we would expect
24	assets be how about we just go with yes.
25	MR. GOODMAN: Do you agree that there are a number of

1	utility assets again, using the term generally to any utility
2	infrastructure, do you agree there are a number of utility
3	assets that were not damaged by Hurricane Sandy?
4	MR. FALCONE: Yes.
5	MR. GOODMAN: Am I correct that the current storm hardening
6	program is focused on hardening assets that were damaged by
7	Hurricane Sandy, correct?
8	MR. FALCONE: There are multiple elements but the
9	FEMA-funded program is restricted to assets that were damaged.
10	One thing I would say is that damage was fairly widespread and
11	covered most of the circuits, so that is fairly widespread.
12	MR. GOODMAN: But the FEMA grant is limited to 300 of the
13	900 or so distribution circuits; is that correct?
14	MR. FALCONE: Not precisely. I think it targets circuits,
15	main-line circuits, in order by which we expect to have the
16	greatest benefit. But if the money goes further than 300
17	main-line circuits, then more would be hardened. I think that
18	is clear.
19	MR. GOODMAN: Is the panel aware that the City through the
20	testimony submitted in this proceeding has recommended that LIPA
21	and PSEG commence a collaborative process to discuss the storm
22	hardening program?
23	MR. FALCONE: Yes.
24	MR. GOODMAN: We recommended that that collaborative
25	process be modeled on the storm hardening resiliency

collaborative currently being administered by Con Edison, 1 2 correct? 3 MR. FALCONE: Yes. 4 Does LIPA oppose commencing a stakeholder MR. GOODMAN: 5 process that would examine the storm hardening process and 6 design standards? 7 MR. FALCONE: We don't oppose it, no. MR. GOODMAN: Thank you. Nothing further, Your Honors. 8 9 JUDGE VAN ORT: Thank you. Any further questions? 10 Gentlemen, you are excused. It is our understanding that the 11 next two panels, PSEG Sales and Revenue Requirement Rebuttal 12 Panel and the Department of Public Service Staff Sales Forecast 13 Panel there are going to be no cross examination at this point. 14 Is that my understanding? 15 MR. WEISSMAN: That is correct, Your Honor. 16 MR. MILLER: That's correct, Your Honor. We got an admission from Staff that we would like to enter as an exhibit, 17 18 and based on that we agree to waive any cross examination of the 19 Staff panel. 20 JUDGE VAN ORT: Do you wish to address it at this time? 21 MR. MILLER: Yes (handing). 22 JUDGE VAN ORT: For the benefit of the record, what we have 23 been provided with is an admission on behalf of The Department 24 of Public Service, counsel for the Department of Public Service, 25 with respect to the sales. The admission, I will read it

briefly. It says, "Pursuant to 16 NYCRR Section 5.5, please 1 2 admit that the answer for the following question is yes. Does Dr. Anping Liu agree that he did not take into consideration 3 sales results from January 2015 through May 2015 when he updated 4 5 his Commercial and Industrial sales forecast on June 18, 2015." 6 We have marked that as Exhibit 102 for identification at this point. Any objection to this coming into the record? 7 MR. BROCKS: No, Your Honor. 8 9 JUDGE VAN ORT: Thank you. It will be admitted as Exhibit 102. 10 11 MR. FAVREAU: Your Honor, also the updated testimony of 12 Dr. Liu has already been provided to the court reporter, and it 13 has been provided to the parties via email on Friday in both red 14 line and in clean. We do have hard copies. JUDGE VAN ORT: Why don't we take them now so we can 15 16 complete the sales part of this. 17 MR. FAVREAU: Just the clean I presume? 18 JUDGE VAN ORT: I would like a clean and a red line copy. 19 MR. FORST: (Handing). 20 JUDGE VAN ORT: For the parties' benefit, Mr. Forst has 21 also distributed to us a set of updated exhibits. 22 MR. FAVREAU: Your Honors, those updated exhibits have been 23 premarked, and they are number 79 on this exhibit list. 24 JUDGE VAN ORT: Thank you, Mr. Favreau. We are going to 25 return to these later on. You can make your offer of the

exhibits into the record as we have been with these other 1 2 exhibits we haven't addressed yet. I just want to have those in hand at this point in time. The next party for which we have 3 testimony or cross examination scheduled is the Staff Inflation 4 5 and Productively Panel; is that correct? 6 MR. MAZZA: Yes, Your Honor, that's correct. 7 JUDGE VAN ORT: I believe we have scheduled cross examination by PSEG. Is that the only party? Do you want to 8 9 proceed? MR. MAZZA: Good morning. Witnesses Christopher Grim and 10 11 Daniel Pohoreckyj, members of the Staff Inflation and 12 Productivity and Management Audit Panel. I show you thirty 13 pages of questions and answers. 14 JUDGE VAN ORT: One moment, Mr. Mazza. I should have the 15 witnesses sworn first. 16 MR. MAZZA: I'm sorry. 17 EXAMINATION BY 18 MR. MAZZA: JUDGE VAN ORT: Gentlemen, would you raise your right hand, 19 20 please. Do you swear or affirm that the testimony you are about 21 to give in this proceeding is the truth, the whole truth and 22 nothing but the truth? 23 MR. GRIM: I do. 24 MR. POHORECKYJ: I do. JUDGE VAN ORT: Thank you. You can proceed. 25

Thank you, Your Honor. I will begin again. 1 MR. MAZZA: 2 Witnesses Christopher Grim and Daniel Pohoreckyj, members of the Staff Inflation and Productivity and Management Audit Panel. 3 Ι show you thirty pages of questions and answers. The first page 4 5 of which appears the caption of this matter and your names. 6 Was this testimony prepared by you or under your direct 7 supervision? MR. GRIM: 8 Yes. 9 MR. MAZZA: Do you wish to make any updates to this 10 testimony? 11 MR. POHORECKYJ: No. 12 MR. GRIM: No. Oh, the red line copy. I would like to 13 submit the red line copy. 14 JUDGE VAN ORT: Mr. Grim, could you hold your button down, 15 please? 16 MR. MAZZA: Could you repeat that please, Mr. Grim? The red line has my updated version of my 17 MR. GRIM: 18 testimony. 19 MR. MAZZA: Your Honors, the updated version of this 20 panel's testimony has been circulated to the party, and we do 21 have the hard copies available. 22 Members of the panel, if I were to ask you today the 23 questions contained in your testimony as updated, would your answers under oath be the same? 24 25 MR. POHORECKYJ: Yes.

1	MR. GRIM: Yes.
2	MR. MAZZA: Do you now adopt this testimony as updated for
3	the purposes of this proceeding?
4	MR. GRIM: Yes.
5	MR. MAZZA: Your Honors, I ask that the testimony of the
6	Staff Inflation, Productivity and Management Audit Panel be
7	copied into the record as though given orally.
8	JUDGE VAN ORT: Thank you. So granted.
9	MR. MAZZA: Moving to your exhibits, did you prepare or
10	identify any exhibits to accompany your testimony?
11	MR. GRIM: Yes.
12	MR. MAZZA: Are the documents identified as Exhibit IPMA-1
13	those exhibits?
14	MR. GRIM: Yes.
15	MR. MAZZA: Do you wish to make any updates to those
16	exhibits?
17	MR. GRIM: No.
18	MR. MAZZA: Thank you.
19	Your Honor, I ask that the exhibits be marked for
20	identification.
21	JUDGE VAN ORT: Do you have the pre-filed number for that,
22	Mr. Mazza?
23	MR. MAZZA: It's number 80, Your Honors.
24	JUDGE VAN ORT: Thank you.
25	MR. MAZZA: I now present the panel for cross examination.

1	JUDGE VAN ORT: Mr. Miller, are you conducting the cross?
2	MR. MILLER: Yes, Your Honor, I am.
3	JUDGE VAN ORT: Just to note, since you are going to conduct
4	cross, that the testimony be copied in as if orally given.
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

BEFORE THE STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

In the Matter of a

THREE YEAR RATE PROPOSAL FOR ELECTRIC RATES AND CHARGES SUBMITTED BY THE LONG ISLAND POWER AUTHORITY AND SERVICE PROVIDER, PSEG LONG ISLAND LLC

Matter Number 15-00262

June 2015

Updated Prepared Testimony of: Staff Inflation, Productivity and Management Audit Panel

Christopher Grim Public Utilities Auditor III

Daniel Pohoreckyj Senior Auditor

State of New York Department of Public Service 125 East Bethpage Road Plainview, New York 11803

1	Q.	Please state the names of the members of the
2		Inflation, Productivity and Management Audit
3		Panel, or Panel.
4	A.	Our names are Christopher Grim and Daniel
5		Pohoreckyj.
6	Q.	Mr. Grim, please state your business address.
7	A.	My business address is 125 East Bethpage Road,
8		Plainview, NY 11803.
9	Q.	Mr. Grim, by whom are you employed and in what
10		capacity?
11	A.	I am employed by the New York State Department
12		of Public Service in the Long Island Office,
13		which the Panel will refer to as Department or
14		DPS, as a Public Utilities Auditor III.
15	Q.	Please describe your educational background and
16		experience.
17	Α.	I graduated from Baruch College, C.U.N.Y. with a
18		Bachelor's Degree in Business Administration and
19		majoring in Accounting. I have been in the
20		employ of DPS since December 1979. Since that
21		time I have been involved in numerous accounting
22		examinations involving the companies regulated
23		by the New York State Public Service Commission,
24		or Commission, including rate cases filed by a

1		municipal electric company, various small and
2		large water companies and a gas and electric
3		utility.
4	Q.	Have you previously testified in any utility
5		rate proceedings?
6	Α.	Yes. I have testified in rate cases involving
7		water companies, a municipal electric company
8		and a gas and electric utility.
9	Q.	Mr. Pohoreckyj, please state your business
10		address.
11	Α.	My business address is 125 East Bethpage Road,
12		Plainview, New York 11803.
13	Q.	By whom are you employed and in what capacity?
14	Α.	I am employed by the New York State Department
15		of Public Service as a Senior Auditor.
16	Q.	Please summarize your education and work
17		experience.
18	Α.	I possess a Bachelor's Degree from the State
19		University of New York-College at Old Westbury
20		specializing in accounting and a Masters of
21		Business Administration specializing in Finance
22		from Dowling College. I have 23 years of
23		utility experience with LILCO, Keyspan, and
24		National Grid including nine years in Customer

1 Relations, five years in Corporate Regulatory 2 and Financial Accounting, five years as a Fixed Asset Accounting Supervisor, and four years as a 3 4 Budget Analyst in Electric Generation support. 5 I began my employment with the Department of б Public Service in November 2014. 7 Have you previously testified in any utility Ο. 8 rate proceedings? 9 Α. No. What is the purpose of your testimony? 10 Ο. 11 Α. The purpose of our testimony is to review the 12 inflation rates and productivity adjustments 13 utilized by PSEG LI in the three year rate plan 14 it proposed on behalf of LIPA and itself. In addition, we will review the implementation 15 16 status of the Management Audit recommendations 17 made by NorthStar Consulting Group, Inc. in 18 Matter Number 12-00314. 19 Are you proposing any adjustments in this Ο. 20 proceeding? 21 Yes, we are, we are proposing adjustments to the Α. 22 inflation rates and productivity 23 . 24 In your testimony, will you refer to, or Ο.
1 otherwise rely upon, any information produced during the discovery phase of this proceeding? 2 3 Α. Yes, we will refer to, and have relied upon, 4 several Company responses to Department Staff's 5 Information Requests, or IRs. These responses б are contained in Exhibit (IPMA-1). 7 Inflation 8 Q. Are you recommending an inflation adjustment? 9 Our review of PSEG-LI's filing and Α. Yes. 10 accompanying work papers indicates that various 11 escalating factors that were utilized by PSEG LI 12 in developing expense levels for Rate Years 13 2016, 2017, and 2018 should be adjusted. 14 Ο. Did PSEG LI satisfy its burden of proof regarding the use of various inflation 15 16 escalators? 17 No. Even though PSEG LI cited vendor statements Α. to support industry forecasted inflation 18 factors, we believe PSEG LI did not 19 20 satisfactorily demonstrate the need for varying 21 factors. In addition, PSEG LI did not account 22 for any expenses that are anticipated to grow at 23 a lower rate than general inflation or decline over time. 24

1 Q. What is your recommendation?

2 We are recommending that the Gross Domestic Α. 3 Product Implicit Price Deflator or GDP-IPD be 4 used as an inflation escalator and be applied to 5 a pool of expenses, excluding contractual б expense obligations, for each year of the three 7 year period of the rate proceeding. Since the 8 company did not segregate its contractual 9 expenses, we applied the GDP-IPD to the 10 Company's O&M expenses. 11 Q. Please describe the GDP-IPD escalator that you 12 recommend. 13 Α. The GDP-IPD, is commonly used by the Department in forecasting cost elements. The GDP-IPD is a 14 measure of the overall national economy and is, 15 16 therefore, more indicative of the commercial 17 activity of a utility than the Consumer Price Index or CPI which is a measure of consumer 18 19 activity. Since the GDP-IPD is representative 20 of the national economy there is no need to 21 segregate the cost elements and apply different 22 escalating factors as in PSEG LI's rate 23 The GDP-IPD takes this into account proposal. 24 and is intended to reflect the reality that some

1		costs go up at various rates and some costs go
2		down at various rates.
3	Q.	Do your numbers reflect the full recovery of the
4		collective bargaining contracts which expire in
5		November 2016?
6		A. Yes, our allowance reflects an increase of
7		2.25% for the rate year 2016 as set forth in the
8		Memorandum of Agreement between Local 1049 and
9		PSEG LI. We therefore propose that labor expense
10		be forecast based on the contractual rate for the
11		balance of the contract term. We recommend that
12		our escalator be used to forecast labor expense
13		for 2017 and 2018.
14	Q.	Why a different factor for 2017 and 2018?
15	Α.	Due to the lack of a collective bargaining
16		agreement for this period as an actual known
17		benchmark, we recommend the use of the generic
18		GDP-IPD escalation factor.
19	Q.	How did you calculate the inflation rate for the
20		three rate years?
21	Α.	First, we calculated the GDP-IPD escalation rate
22		utilizing the Department's Office of Regulatory
23		Economics' Inflation calculator.
24	Q.	Please explain the significance of the Office or

Regulatory Economics' Inflation calculator.
 A. The Office of Regulatory Economics' inflation
 calculator computes the inflation escalators
 using the historical and forecasted GDP price
 index as published by the US Bureau of Economic
 Analysis.

7 Q. What were your results?

8 Α. Using 2015 as the base year, the forecast GDP-9 IPD inflation rate is 1.94% for 2016 and 2.1% for 2017 and 2018, respectively. We then 10 11 applied these factors to PSEG LI's 2015 expenses 12 to arrive at the forecasted 2016, 2017, and 2018 13 rate year expense levels. The escalating factors 14 were applied to the inflation adjusted expenses which were also adjusted for Staff's operation 15 16 and maintenance adjustments. Our recommended 17 adjustment compares PSEG LI's inflation expense to our calculated inflation expense. Use of the 18 GDP-IPD results in a reduction of operations and 19 20 maintenance expense of \$6.5 million in 2016, 21 \$4.6 million in 2017 and \$5.3 million in 2018. 22 Ο. In your review, did you notice any charges in 23 the base year 2015 that appeared to be nonrecurring and or one-time in nature? 24

1 In 2015, the Company made a one time Α. Yes. 2 payment of \$500 to each employee represented by 3 collective bargaining. This equates to a total expenditure of \$714,500. This is a non-4 5 recurring expense and needs to be removed from б the 2015 base year and each of the subsequent 7 three rate years. 8 **Productivity** 9 Did PSEG LI propose a productivity adjustment? Ο. 10 Yes it did. PSEG LI's proposed productivity Α. 11 adjustment is a self-imposed goal intended to 12 contain increases in its operating expenses. 13 Ο. Are you recommending a different adjustment to 14 capture productivity? Yes. PSEG LI's methodology differs from the 15 Α. 16 long standing method used by the Department. We 17 are, therefore, recommending a productivity adjustment utilizing labor expense as the basis 18 for the adjustment. The purpose is to promote 19 20 an increase in any and all opportunities 21 available to the Company to improve operating 22 efficiency, and is a surrogate for anticipated 23 overall productivity gains not meant to identify any specific source. This productivity 24

1		adjustment is routinely used by the Department
2		in electric, gas and water rate filings.
3	Q.	How is the adjustment calculated?
4	A.	Generally, one percent of the sum of labor and
5		benefits expenses are applied to offset total
6		O&M expense for each of the three rate years.
7	Q.	How do your adjustments compare with the
8		productivity adjustments proposed by the
9		Company?
10	Α.	We compared our calculated adjustment with that
11		which the Company presented on their Excel
12		spreadsheet in response to Staff's informational
13		request DPS-BP-438, to determine whether the one
14		percent Department standard has been met. In
15		rate years 2016 and 2017 the Company fell short
16		of the standard by \$1.7 million and \$469,000
17		respectively. In rate year 2018 the Company
18		exceeded the standard and therefore no
19		adjustment is warranted.
20	Q.	How are your adjustments, inflation and
21		productivity, incorporated in the revenue
22		requirement schedules?
23	A.	We netted both adjustment with the Company's
24		proposals and the results are: reductions in

the Company's revenue requirement by \$8.3 million in rate year 2016, by \$5.1 million in rate year 2017 and by \$5.3million in rate year 2018.

5 Management Audit

б Q. What is the NorthStar Management Audit? 7 The NorthStar Management Audit is an audit that Α. is similar to those conducted by the Department 8 9 with respect to IOUs in the rest of the state. Like those audits, its intent is to improve 10 11 utility company's operations, which leads to 12 improved service levels and operating 13 efficiencies. The NorthStar Management Audit of 14 LIPA was authorized by the Long Island Power Authority Oversight and Accountability Act, 15 16 which became law on February 1, 2012. 17 Does DPS have a responsibility under the LRA to Q. review the implementation of the NorthStar audit 18 recommendations? 19 20 No, however, NorthStar recommended that the next Α.

21 management audit contain an evaluation of the 22 implementation of all recommendations contained 23 its report. LIPA has already accepted that 24 recommendation. Since implementation will be

1 reviewed in the next management audit, at this juncture we're reporting on the progress of LIPA 2 3 and PSEG LI efforts to implement the management 4 audit recommendations. 5 Were there any unique challenges associated with Ο. б the NorthStar Management Audit? 7 Perhaps not unique, because industry work Α. 8 methods and technology change and advance over 9 time and each audit may be considered unique, but the confluence of events surrounding the 10 11 time period when the audit was conducted were 12 particularly challenging. 13 Ο. What challenges were encountered during the NorthStar audit? 14 15 Α. Both LIPA's organizational structure and 16 regulatory regime were both in extreme flux, and 17 the sensitivity of any matters surrounding LIPA in the wake of Hurricanes Irene and Sandy was 18 19 extremely high. 20 What changes were occurring in the Q. 21 organizational structure? 22 Α. Prior to 2014, the day to day operations of the 23 Long Island electric system were performed by 24 National Grid under the Management Services

1 Agreement, or MSA. The MSA expired on December 2 31, 2013, and in preparation for its expiration, LIPA conducted a competitive solicitation for 3 4 Service Providers to operate the Long Island 5 electric system commencing January 1, 2014. PSEG б LI was the successful bidder and became 7 responsible for day to day electric system 8 operations.

9 From an audit perspective, what is the Q. 10 significance of this change in service provider? 11 Α. A typical analysis would be to begin examining 12 the status quo, identifying weaknesses that the 13 new entity can overcome and highlighting 14 opportunities for improvement. In this instance an entirely new management structure was being 15 16 implemented and the historic analysis is not 17 necessarily applicable to the incoming management team. 18

19 Q. Is this a fatal flaw in the NorthStar audit?
20 A. No, NorthStar made recommendations that it felt
21 were applicable under any circumstances, but one
22 must be cognizant that effective implementation
23 of management audit recommendations, could be
24 delayed and may need to be modified as the new

1		management team and company begin operations.
2	Q.	What changes were occurring in LIPA's regulatory
3		regime?
4	Α.	In the aftermath of Hurricanes Irene and Sandy,
5		the Governor convened a Moreland Commission,
б		which led in part to the enactment of new
7		legislation known as the Long Island Power
8		Authority Reform Act, and ultimately led to a
9		Revised and Restated Operations Services
10		Agreement or OSA.
11	Q.	What's the significance of the change in LIPA's
12		regulatory regime?
13	Α.	The reasons for its significance are threefold,
14		first was the need to integrate an entirely new
15		management structure which had the potential to
16		create uncertainty as to whether the level of
17		electric service would decline.
18	Q.	What's the second item you find to be of
19		significance?
20	Α.	The Amended and Restated OSA fundamentally
21		changed the relationship between LIPA and the
22		Service Provider, by expanding PSEG LI's
23		responsibility for the electric system, and
24		essentially making PSEG LI the face of the Long

1 Island electric system. This further attenuates the new reality from the results of historic 2 3 operations. Those results could under normal 4 operating circumstances be extrapolated into 5 specific future improvement opportunities. б Q. What is the third factor you find to be of 7 significance? 8 Α. The placement of the Department in an oversight 9 and advisory role to the LIPA Board of Trustees 10 on a variety of matters such as rates, storm 11 performance, and construction budget review. What's the significance of this third item? 12 Ο. It takes two forms; first heretofore LIPA's 13 Α. 14 Board of Trustees had been able to make decisions somewhat unilaterally. As a result of 15 16 the LIPA Reform Act, the Board's decision making 17 must now take into account DPS recommendations. Second, the Amended and Restated OSA also 18 19 includes an assumption as to a dramatically 20 reduced LIPA staff, consistent with PSEG LI's 21 larger role in decision making. The advisory 22 role of the Department can provide guidance to 23 the LIPA BOT that was previously provided by 24 LIPA staff.

1 Did the NorthStar audit take into account the Ο. 2 Amended and Restated OSA? 3 Α. No, although the audit recognized that an 4 amended OSA was being developed, the field work 5 for the audit was completed from April through 6 June 2013. As described in the NorthStar Audit report its audit work preceded the LIPA Reform 7 8 Act and only took into account the original OSA 9 dated December 28, 2011. Is this a fatal flaw in the NorthStar Audit? 10 Ο. 11 Α. No, as noted above, NorthStar made 12 recommendations that would be applicable under 13 any circumstances, and these recommendations can be categorized into certain broad themes. 14 Given 15 the dramatic change in the regulatory 16 environment since the NorthStar Audit, and the 17 implementation of the Amended and Restated OSA, it is more useful to look at the broad themes 18 associated with compliance with NorthStar's 19 20 recommendations rather than an examination of

21 individual recommendations.

Q. Does the NorthStar audit lend itself toexamination of such themes?

24 A. Yes, in its overview of audit findings and

1		conclusions, NorthStar identified six such
2		themes.
3	Q.	Before you begin discussing the broad themes,
4		please provide the current status of LIPA and
5		PSEG LI's compliance with the Management Audit
б		recommendations?
7	Α.	In its testimony, the LIPA Overview Panel
8		reported that it implemented 35 of 43 applicable
9		recommendations, and that PSEG LI completed 20
10		of the 40 applicable recommendations. Both LIPA
11		and PSEG LI express their intention to complete
12		implementation of all applicable recommendation
13		by year end.
14	Q.	Have any LIPA or PSEG LI panels commented on the
15		NorthStar management audit?
16	A.	Yes, several have, most notably Mr. Shansky's
17		testimony in which he discusses the role of the
18		Contract Oversight Committee in overseeing PSEG
19		LI's operational and service performance. Given
20		LIPA's smaller workforce, and the need for it to
21		increase its utility management IQ, the LIPA
22		Oversight Committee is dedicated to the targeted
23		review of PSEG LI's performance and has the
24		ability to assemble and target the appropriate

1 staff to conduct a review.

2 One example is the Customer Services Budget and 3 Operations Panel that reports in its testimony 4 11 of the 13 recommendations assigned to 5 Customer Services have been completed and the 6 remaining two are in the process of being 7 reviewed.

8 Although not mentioned as specifically relating 9 to the NorthStar audit, the Capital Budget Panel 10 identified an Investment Evaluation System to 11 evaluate construction projects that will be implemented in 2015. The significance of this 12 13 from a management audit perspective is that this 14 is the same system used by all PSEG companies and addresses a concern raised in the management 15 audit that LIPA's interests not be subordinated 16 17 to PSEG's, in this instance PSEG is treating LIPA on par with its own subsidiaries. 18

19 Q. How detailed will your description be of LIPA 20 and PSEG LI's performance with respect to the 21 audit recommendations?

A. Our description of LIPA and PSEG LI's
performance will be a general discussion of some
of the progress that has been made in furthering

1		the broad themes identified in the audit report.
2	Q.	What is NorthStar's first theme?
3	Α.	A fully contracted utility operation such as
4		LIPA, operating without a traditional command
5		and control structure, is critically dependent
б		on its "utility management IQ" to be successful.
7	Q.	What is your assessment in this area?
8	Α.	According to the Audit Report, LIPA operated as
9		a contract administrator in its relationship
10		with National Grid and did not have an
11		appreciation of its responsibility to provide
12		safe, reliable, electric service to the
13		residents of Long Island. The Audit report also
14		found that the LIPA Board of Trustees
15		historically approved the total capital budget
16		with minimal information on the projects
17		included. LIPA has an opportunity to increase
18		its utility IQ quickly by taking advantage of
19		DPS oversight of LIPA operations, and factor DPS
20		recommendations into LIPA's decision making.
21		This is especially important given the increased
22		role PSEG LI plays due to the significantly
23		reduced number of LIPA staff.
~ 1	2	

24 Q. Has LIPA fully utilized the knowledge and

1 expertise provided by DPS in this regard? 2 The new regulatory regime incorporating DPS Α. 3 oversight has only been in effect for little more than a year, but in that time among the 4 areas on which DPS has advised and made 5 б recommendations to LIPA and PSEG LI are tariff filings, emergency response plans and storm 7 8 preparation, construction budgets and rate 9 matters. I understand that the specifics will be reviewed 10 Ο. 11 in the course of the next management audit, but 12 do you have some examples of recommendations 13 which LIPA and PSEG LI report they have 14 implemented? Yes, in the response to IR DPS-OP-417 LIPA 15 Α. 16 reported the implementation of two 17 recommendations in furtherance of this theme. • Actively recruit and retain personnel with a 18 strong understanding of all aspects of utility 19 20 operations, including T&D activities, customer 21 service functions, capital project management, 22 and rates and regulatory activities. • Conduct a detailed review of proposed capital 23 projects and expenditures with the BOT as part 24

1		of the capital budget approval process.
2	Q.	What is NorthStar's second theme?
3	Α.	As the entity ultimately responsible for the
4		provision of electric service on Long Island,
5		LIPA has to keep its contractors accountable for
6		results: all the time. The service provider
7		contract must drive performance, allowing LIPA
8		to exercise its responsibilities as system owner
9		and intervene as necessary to improve
10		performance.
11	Q.	What is your assessment in this area?
12	A.	Our analysis was hampered by the difficulty in
13		obtaining historic financial data that in
14		accordance with the Transition Services
15		Agreement, or TSA, remained under the control of
16		National Grid and which PSEG LI was unable to
17		readily obtain. With the introduction of a
18		program called Systems, Applications, and
19		Products in Data Processing by PSEG LI in
20		January 2015, we expect that LIPA and DPS will
21		have more comprehensive access to historic data
22		which will better enable both parties to assess
23		performance. One of the primary tools available
24		to LIPA to keep PSEG LI accountable and drive

1		performance is applicability of the metrics as
2		set forth in the Amended and Restated OSA.
3		Compliance with the applicable metrics is
4		required for PSEG LI to earn incentive.
5	Q.	Does DPS have oversight of compliance by PSEG LI
б		with the metrics?
7	Α.	Yes. The first annual review of the applicable
8		metrics included in the Amended and Restated OSA
9		will be completed by DPS later this year. This
10		will follow the submission of data to DPS for
11		its review in assessing the performance of PSEG
12		LI in order to determine PSEG LI's incentive
13		compensation in accordance with the metrics. It
14		is difficult to assess the adequacy of the
15		metrics at this juncture as a means of
16		overseeing PSEG LI's performance, but the
17		combination of more comprehensive data
18		availability and review of performance is
19		expected to enhance LIPA's ability to hold PSEG
20		LI accountable for its performance.
21	Q.	I understand that specific recommendations will
22		be reviewed in the course of the next management
23		audit, but do you have some examples of

24 recommendations in this area which LIPA and PSEG

1		claim to have already been implemented?
2	Α.	Yes, in IR DPS-OP-417 LIPA has reported the
3		implementation of two recommendations that
4		further the intent of this theme.
5	•	Develop a Monthly Operating report (in
6		conjunction with PSEG LI) to provide the LIPA
7		Executive Team and BOT with the key information
8		from the entire organization's activities needed
9		for oversight and control.
10	•	Strengthen the capabilities and commitment to
11		Internal Audit within the Authority, including
12		dedicated personnel with utility operations and
13		auditing experience.
14	Q.	What is NorthStar's third theme?
15	A.	LIPA's customers deserve to be treated with
16		maturity and respect, to receive accurate and
17		timely information about system operations,
18		rates and performance, and to have appropriate
19		levels of service.
20	Q.	What is your assessment in this area?
21	A.	According to the Audit report, LIPA's
22		performance has been categorized as extremely
23		poor in perception-based customer satisfaction
24		surveys such as JD Power. The Audit report

1 explains that under the MSA with National Grid, LIPA was not made aware of customer service 2 3 issues, customer service performance targets were below industry standards and LIPA's 4 5 customers appear to have expected low service 6 levels. In the aftermath of Hurricane Sandy, as the Audit report found, the customer service and 7 8 communications functions were distributed 9 throughout the organization and as a result, 10 customer service received less emphasis. With 11 the introduction of PSEG LI as service provider, 12 customers see a new entity providing electric 13 service. However, public perception will not change quickly or solely as a result of the 14 change of service provider. 15 16 I understand that specific recommendations will Q. 17 be reviewed in the course of the next management audit, but do you have some examples of 18 recommendations that LIPA and PSEG LI report 19 20 they have already implemented? Yes, in IR DPS-OP-417 LIPA, reported the 21 Α.

22 implementation of two recommendations that 23 further this theme.

• Immediately develop and implement a

1 communications strategy and message to set customers expectations for the upcoming storm 2 3 season. Communications should address outages, outage management systems, and storm 4 5 response/restoration processes and the roles of 6 LIPA, National Grid, and PSEG LI for this 7 season. 8 • Improve communications of rate and tariff 9 changes, in conjunction with PSEG LI's 10 communication and customer service functions. 11 PSEG has reported the implementation of 12 three recommendations. • Communicate issues of significance to customers 13 regularly and in a timely manner. 14 15 • Develop more robust plans for handling the call 16 volumes possible during a major storm. 17 • When under emergency conditions consistently follow the communications plan and provide 18 customers with regular updates even if limited 19 20 information is available. 21 What is NorthStar's fourth theme? Ο. 22 Α. LIPA cannot be subordinated to the service 23 provider's core utility operations. 24 What is your assessment in this area? 0.

1	Α.	One reason why LIPA chose PSEG LI to be its
2		service provider was due to PSEG's excellent
3		reputation in New Jersey for its operations and
4		customer relations.
5	Q.	I understand that specific recommendations will
б		be reviewed in the course of the next management
7		audit, but do you have some examples, of
8		recommendations which LIPA and PSEG report they
9		have already implemented?
10	Α.	Yes, in IR DPS-OP-124 PSEG LI has reported the
11		implementation of one recommendation that
12		furthers this theme.
13		Immediately develop a plan for addressing the
14		culture changes and re-education necessary to
15		ensure the existing National Grid workforce
16		fosters and promotes the same values as espoused
17		by PSEG.
18	Q.	What is NorthStar's fifth theme?
19	A.	The authority deserves to receive outstanding
20		performance from its providers and should only
21		pay premiums for performance above the current
22		norms.
23	Q.	What is your assessment in this area?
24	A.	Premiums, which are being interpreted here as

1 incentive plan payments, were established in the Amended and Restated OSA. The Amended and 2 3 Restated OSA provides that levels are designed to maintain performance in areas where results 4 5 are in the first quartile, and enhance 6 performance for others over a five year period such that a first quartile result is achieved. 7 8 In accordance with the Amended and Restated OSA, 9 metrics are subject to change, and Staff will comment on the need for metric changes after it 10 11 reviews the report on PSEG LI's performance related to the metrics and the incentive payment 12 13 proposal by PSEG LI later this year. 14 Ο. I understand that specific recommendations will be reviewed in the course of the next management 15 16 audit, but do you have some examples of 17 recommendations which LIPA and PSEG assert have already been implemented? 18 19 Yes, in IR DPS-OP-417 LIPA has reported the Α. 20 implementation of one recommendation that 21 furthers this theme. 22 Within the first year of the OSA, conduct a thorough, technical review of the OSA metrics 23 (Tiers 1,2, and 3) to fully document the basis 24

1 for the metrics, key drivers and relationships, leading/lagging nature, benchmarks and 2 3 performance at other utilities, and possible 4 data and reporting issues. What is NorthStar's sixth theme? 5 Ο. 6 Α. Functional areas where LIPA is performing well 7 should be preserved and supported through the 8 transition to PSEG-LI and the Servco model. 9 Three such areas were mentioned in the audit 10 report. 11 Ο. What was the first area? 12 System Maintenance and Reliability. As noted Α. 13 above, metrics were designed to either maintain 14 or improve operations. The major system 15 maintenance and reliability metrics are System 16 Average Interruption Duration Index, or SAIDI, 17 System Average Interruption Frequency Index, or SAIFI, and Customer Average Interruption 18 19 Duration Index, CAIDI. These metrics are in the 20 maintenance category because PSEG LI performance 21 is already in the first quartile. It does not 22 appear that any changes are being implemented 23 that would jeopardize this performance. 24 What is the second area? 0.

1 System Planning. System Planning will be greatly Α. 2 influenced by the REV/Utility 2.0 activities and 3 PSEG LI has been an active participant in the 4 Department's REV proceeding. This is one 5 example of the intention of PSEG LI to improve 6 its system planning. 7 What is the third area? Ο. 8 Α. Power Supply Procurement and Management. This 9 function has been transferred to PSEG LI effective January 1, 2015. 10 11 Ο. What is your assessment in this area? 12 It is premature to comment on the success or Α. 13 lack thereof with respect to implementing this 14 function. I understand that specific recommendations will 15 Ο. 16 be reviewed in the course of the next management 17 audit, but do you have some examples, of recommendations which LIPA and PSEG LI assert to 18 have already been implemented? 19 20 Yes, in IR DPS-OP-417 LIPA has reported the Α. 21 implementation of two recommendations that further this theme. 22 23 • LIPA will include at least one aspect of the 24 power supply management function in its Internal

1 Audit plan every year, so that over time Internal Audit would review the management of 2 3 the power supply contracts, fuel procurement activities, near-term power supply management, 4 5 the middle office monitoring program, and the б energy price risk hedging program. • Contract for an independent evaluation of the 7 actual effectiveness and achievements of the 8 9 current energy efficiency initiatives and 10 programs, including verification of energy and 11 capacity savings actually achieved in field 12 installations. 13 PSEG has reported the implementation of three recommendations. 14

• PSEG has increased the effectiveness of the 15 16 vegetation management program by further 17 refining analysis of tree-related reliability. • PSEG has also assessed the value of continuing 18 19 LIPA's Load Research Program, and investigated 20 the potential value to forecasting and energy 21 efficiency program development of periodic 22 residential and commercial appliance saturation 23 and end user surveys.

• PSEG will also maintain, to the extent possible,

1		the current energy supply planning processes,
2		resources, organization, and tools under the
3		Servco model.
4	Q.	Does this conclude your testimony?
5	Α.	Yes, at this time.

1	CROSS EXAMINATION BY
2	MR. MILLER:
3	JUDGE PHILLIPS: Also, just a reminder, please use your
4	microphone when answering the questions. You probably have to
5	hold the button down.
6	MR. MILLER: As preliminary, Your Honor, we have one
7	document that I would like to have marked for identification. I
8	would like to show it to the witnesses and give out copies.
9	JUDGE VAN ORT: This document is not on the exhibit list?
10	JUDGE PHILLIPS: This is a new one, I believe.
11	MR. MILLER: No. We just got the response, Your Honor, I
12	think on Monday.
13	JUDGE VAN ORT: Okay.
14	MR. MILLER: (Handing).
15	JUDGE PHILLIPS: Counsel is circulating a one-page document
16	labeled PSEG Long Island, matter number 15-00262 discovery
17	request for PESEG LI-IPMA-0014. It has been marked for
18	identification as Exhibit 103.
19	MR. MILLER: We will return to this. I would just like to
20	authenticate it. Was the answer to this discovery request
21	prepared by you or under your supervision and direction, Mr.
22	Grim and Mr. Pohoreckyj?
23	MR. GRIM: Yes.
24	MR. MILLER: I misspoke. Let's go back to this exhibit
25	that was marked 103 for a second. The panel submitted recently

1	revised testimony; is that correct?
2	MR. GRIM: That's correct.
3	MR. MILLER: Was that submitted in response to this
4	discovery request?
5	MR. GRIM: I think it may have been the revised testimony.
6	MR. MILLER: Do you have your microphone on, Mr. Grim?
7	MR. GRIM: Yes. The revised testimony excuse me a
8	second.
9	MR. MILLER: Let me ask you a specific question, Mr. Grim.
10	That might make this easier. If you look at the document I had
11	marked as Exhibit 103 in response to number one, do you see
12	that?
13	MR. GRIM: Yes.
14	MR. MILLER: You say in response "Yes we agree there are
15	several double counts." Is it your testimony that your revised
16	testimony that was submitted this morning takes care of or
17	accommodates all of those double counts?
18	MR. GRIM: I believe it does.
19	JUDGE PHILLIPS: When you say "accommodate," do you mean
20	"eliminate," just for clarification?
21	MR. MILLER: What I meant was that if there were double
22	counts, those double counts would be eliminated and affect the
23	revenue requirement, Your Honor.
24	JUDGE PHILLIPS: Thank you.
25	MR. MILLER: Is that correct, Mr. Grim?

1	MR. GRIM: Yes.
2	MR. MILLER: There aren't any others? They are all in your
3	recently revised testimony?
4	MR. GRIM: Anymore what? I don't follow. Anymore what?
5	MR. MILLER: I guess the question is, you say that there
6	are several double counts. I just wanted to make sure that they
7	are all picked up in the testimony you just revised.
8	MR. GRIM: Yes, they are.
9	MR. MILLER: You picked up those double counts in the
10	response to the interrogatory that was submitted that this was a
11	response to?
12	MR. GRIM: Yes.
13	MR. MILLER: We will return to this. Let's just discuss
14	your inflation adjustment. Am I correct that the Public Service
15	Commission in New York has followed a policy in its rate cases
16	of applying a forecasted inflation rate to a market basket or
17	pool of expenses that don't warrant the time and trouble of
18	making specific forecasts; is that correct?
19	MR. MAZZA: Your Honor, I would like to object to the
20	characterization of warrant the time and trouble to make a
21	specific forecast.
22	MR. MILLER: Let's limit the question. Make your point,
23	Mr. Mazza.
24	Let's limit the question to has the Commission applied an
25	inflation rate to a pool of categories of owing an expense in

1	the past?
2	MR. GRIM: The policy is that the inflation escalate is
3	applied to, yes, a pool of expenses.
4	MR. MILLER: Mr. Grim, I am going to refer to a commission
5	decision in a Rochester Tel case. I am going to ask you three
6	questions.
7	Has the Commission stated that one of the purposes of
8	including an item in a pool of expenses to which inflation is
9	applied is to save time and effort?
10	JUDGE VAN ORT: Mr. Miller, while they are discussing that,
11	could you provide me with the case number for that?
12	MR. MILLER: Yes, Your Honor. It is 89C022 Rochester Tel.
13	It is Opinion 90-8.
14	JUDGE VAN ORT: Thank you.
15	MR. GRIM: Mr. Miller, would you please repeat the
16	question?
17	MR. MILLER: Yes. Are you aware that one of the reasons
18	the Commission has stated for putting an O&M item in the expense
19	pool is by doing so is to save time and effort?
20	MR. GRIM: That is not my understanding.
21	MR. MILLER: Has the Commission also stated that a reason
22	for putting an O&M item in the expense pool is to avoid
23	unnecessary litigation?
24	MR. GRIM: That does sound reasonable to me.
25	MR. MILLER: Did you say sounds reasonable to you?

1	MR. GRIM: Yes.
2	MR. MILLER: Is the third item the Commission has given is
3	that putting that O&M item in the inflation pool will provide a
4	reasonably accurate estimate of the expense?
5	MR. GRIM: I'm not familiar with the Commission opinion on
6	that particular case, so I don't feel I can comment properly on
7	it.
8	JUDGE VAN ORT: Mr. Grim, could you back up to the second
9	question that Mr. Miller asked. The reason being to prevent or
10	to avoid unnecessary litigation, you said something to the
11	effect that I believe that's the case.
12	Are you referring to your opinion that it is reasonable, or
13	is that your understanding of what the commission has
14	determined?
15	MR. GRIM: My opinion.
16	MR. MILLER: Gentlemen, you testified in a number of PSC
17	rate cases; is that correct?
18	MR. POHORECKYJ: I have not.
19	MR. GRIM: I have.
20	MR. MILLER: Mr. Grim, isn't it true that even in the usual
21	PSC rate case there are many larger items of cost categories of
22	O&M expense for which specific forecasts are made of those
23	expenses?
24	MR. MAZZA: Your Honor, I would ask that Mr. Miller address
25	the panel as a panel rather than individually.

JUDGE VAN ORT: I think he was simply just deferring to Mr. 1 2 Grim because of the level of experience he had. It is fine. If he addresses the panel and Mr. Grim answers the question that is 3 fine. The panel can understand the question is addressed to 4 Whether one of you addresses it or Mr. Grim addresses it 5 vou. 6 or your co-panel addresses it is up to you. 7 Do you recall the question, Mr. Grim? MR. MILLER: MR. GRIM: Would you please repeat the question? 8 9 Isn't it the case that in many PSC rate cases MR. MILLER: 10 large categories of cost, O&M costs, are specifically and 11 individually forecast rather than having those O&M expense items 12 put in the inflation pool? 13 MR. GRIM: I don't know exactly how many cases you are 14 talking about. My research in the last Con Edison and O&R case, 15 I know staff had rejected isolating certain cost elements and 16 escalating them separately from the pool and that went into the 17 joint proposals in those cases, but I am not familiar with 18 individual cost elements in large magnitude being separated. 19 MR. MILLER: What cases did you say, Mr. Grim? You are 20 talking about Con Ed and O&R? Are those the cases you used? 21 MR. GRIM: That's correct. 22 What specific O&M items were forecasted in MR. MILLER: 23 those cases separately and not put in the inflation pool? 24 MR. GRIM: To my understanding, none. They're all in the. 25 Inflation pool. The staff rejected individual cost

1	elements and applying escalated factors to them.
2	MR. MILLER: Was that a litigated case or a settled case?
3	MR. GRIM: I believe it was settled because Staff's
4	position went to JP, joint proposal.
5	MR. MILLER: Are you aware of other cases where, for
6	example, wages and salaries were separately forecasted?
7	MR. GRIM: The contractual component of wages and salaries
8	would not go into the inflation pool.
9	MR. MILLER: I'm sorry. I missed that. Wages and
10	salaries, I am asking if you are aware of cases where wages and
11	salaries were not put in the inflation pool.
12	MR. GRIM: I'm not aware of any specific case.
13	MR. MILLER: Mr. Grim, in your original testimony did you
14	apply the forecast of inflation to the collective bargaining
15	agreement for 2016?
16	MR. GRIM: Yes.
17	MR. MILLER: And you changed that testimony, didn't you?
18	MR. GRIM: That's correct.
19	MR. MILLER: Why did you change your testimony?
20	MR. GRIM: I changed the testimony to reflect the agreement
21	between PSEG and Local 1049 that they would have a 2.25 percent
22	increase in November of 2016. My original adjustment schedule
23	did not reflect that. I was aware of it but it was too late to
24	adjust the schedule so put it off.
25	MR. MILLER: So where there was a contractual term that

1	uses an increase that is different than the inflation rate, you
2	would recognize that contractual term, wouldn't you?
3	MR. GRIM: That's correct.
4	MR. MILLER: Would you limit it just to collective
5	bargaining agreements?
6	MR. GRIM: I'm sorry, would you repeat the question? I
7	didn't hear it.
8	MR. MILLER: You agree with me that if there was a
9	contractual term that inflated some expense, some O&M expense,
10	at a different rate than the inflation rate you would feel
11	compelled to use the contractual rate or increase rate rather
12	than the inflation rate, correct?
13	JUDGE VAN ORT: Mr. Miller, can I just ask a point of
14	clarification? Are you referring to individual officers that
15	may have a management contract with the company, or are we
16	talking about something different?
17	MR. MILLER: No, something different, Your Honor. We are
18	talking about in this case the union wage rate, and then I
19	changed the subject to any contract.
20	JUDGE VAN ORT: That is what I am referring to. I
21	understand the CBA, the collective bargaining agreement,
22	component of it. I think that is what you were discussing up to
23	this point. Now you are referring to non-collective bargaining,
24	non-union employees; is that correct?
25	MR. MILLER: That's correct, Your Honor.

2	MR. MILLER: Mr. Grim, you said to me that you originally
3	applied the inflation rate to collective bargaining agreement.
4	Do you recall that?
5	MR. GRIM: Yes.
6	MR. MILLER: Then you said when you realized the collective
7	bargaining agreement ran through November 2016 and it had a rate
8	of inflation is it, you used the rate of inflation in the
9	collective bargaining agreement rather than your forecasted
10	inflation rate, correct?
11	MR. MAZZA: I don't believe that is a correct
12	characterization of what Mr. Grim answered previously.
13	MR. GRIM: I don't interpret what was in the collective
14	bargaining agreement as inflation. It was negotiated an amount
15	and basically considered a known change. Known changes would be
16	incorporated in my tabulations.
17	MR. MILLER: If there is a known change in a contractual
18	agreement, that would be the appropriate method to use to
19	inflate an O&M expense item. Do you agree with that?
20	MR. GRIM: Yes.
21	MR. MILLER: So, for example, in a facility's lease
22	agreement if there were to be an increase schedule by a
23	contract, it would be appropriate to use that increase rather
24	than the inflation rate, wouldn't it?
25	MR. GRIM: That's considered a known change and, yes, I
1	would incorporate that in my schedules. I don't consider that
----	--
2	inflation. If it's known, we accept that especially if it's
3	contractual. I would incorporate that at that rate in my
4	schedule in my adjustment, calculation of my adjustments.
5	MR. MILLER: How about quotes from vendors, did you reject
6	those.
7	MR. GRIM: Yes, I did.
8	MR. MILLER: You substituted in their place the GNP
9	implicit price deflator forecast?
10	MR. GRIM: Right.
11	MR. MILLER: In fact, Mr. Grim, for all of PSEG's O&M
12	expenses, isn't it correct that you used the forecast of the GNP
13	implicit price deflator rather than the separate forecasts that
14	were made?
15	MR. GRIM: Would you please repeat the question?
16	JUDGE PHILLIPS: Before you do that, just one minute.
17	Could you please repeat the question?
18	MR. MILLER: Let me amend the question. Mr. Grim, with the
19	sole exception of your use of the 2016 collective bargaining
20	agreement increase, is it correct that for every other category
21	of O&M expense you used the GNP price deflator forecast rather
22	than the separate forecast made by PSEG Long Island?
23	MR. GRIM: It is correct. Yes, I did apply the GDP price
24	deflator to all the cost elements other than the collective
25	bargaining agreement.

1	MR. MILLER: Mr. Grim, are you familiar with the operating
2	services agreement between LIPA and Public Service Electric and
3	Gas of Long Island?
4	MR. GRIM: Yes, I am.
5	MR. MILLER: Are you aware of any provision of the
6	operating services agreement that limits PSEG Long Island's O&M
7	expenses to the rate of inflation?
8	MR. GRIM: No.
9	MR. MILLER: Are you aware of how the OSA, OSA meaning
10	operating service agreement, treats the expenses of the general
11	workforce including wages and benefits?
12	MR. MAZZA: Your Honors, to the extent that this calls for
13	legal analysis of the OSA, I would object to the questions.
14	MR. MILLER: I am asking if he knows.
15	JUDGE VAN ORT: If the witness can answer this, he would
16	simply be answering as to what he is aware of. He is not making
17	a legal interpretation of that provision, that is acceptable.
18	MR. GRIM: May I have the question again, please?
19	MR. MILLER: Are you aware of how the OSA treats expenses
20	for the general workforce including wages and benefits?
21	MR. GRIM: It is my understanding expenses are incurred by
22	PSEG Long Island are passed-through expenses.
23	MR. MILLER: You agree we are setting rates here for a
24	three-year period?
25	MR. GRIM: Yes.

1	MR. MILLER: I would like to give you a hypothetical.
2	Let's assume an expense is escalated at 10 percent for the year.
3	Let's assume that expense is \$100.
4	Would you agree with me that compounded at the end of three
5	years that expense would have risen to \$133?
6	MR. GRIM: Without being a compounding expert, I would say
7	yes.
8	MR. MILLER: How about the same \$100 expense, Mr. Panel,
9	inflated at your average inflation rate of 2 percent, would you
10	agree that at the end of the third year you are at \$106?
11	MR. GRIM: No.
12	MR. MILLER: What would you say?
13	MR. GRIM: It would be more than \$106. It would be
14	compound in effect.
15	MR. MILLER: \$106 and change at 2 percent?
16	MR. GRIM: Yes.
17	MR. MILLER: At the end of three years that \$100 that grew
18	at 10 percent is now 27 percent larger than using your 2 percent
19	inflation rate, correct?
20	MR. GRIM: Without doing the math, I would agree with it.
21	JUDGE PHILLIPS: Can I just ask a clarifying question? Did
22	you say 27 percent when you asked the question or \$27?
23	MR. MILLER: Using the hundred base, I guess it's pretty
24	close but either one, \$27 higher.
25	JUDGE PHILLIPS: I'm just asking if you mean I thought

1	you said percent. I just wanted to clarify. Did you mean that?
2	MR. MILLER: I probably did but my math skills are not
3	legendary.
4	JUDGE PHILLIPS: I just want to make the record clear
5	though. What was your intent? Was it 27 percent?
6	MR. MILLER: I have 27 percent written down.
7	JUDGE PHILLIPS: Okay. I just wanted to make sure. Thank
8	you.
9	MR. MILLER: Thank you, Your Honor.
10	Let's turn to your productivity adjustment. You said you
11	applied a one percent productivity adjustment per year to wages,
12	salaries and benefits, correct?
13	MR. GRIM: Correct.
14	MR. MILLER: Am I correct also that that one percent
15	productivity adjustment is a standard adjustment in Public
16	Service Commission rate cases for investor-owned utilities?
17	MR. GRIM: Yes.
18	MR. MILLER: Hasn't the Commission stated many times with
19	respect to the one percent adjustment that its purpose is to
20	provide a continuing incentive to improve productivity?
21	MR. GRIM: Correct.
22	MR. MILLER: So, you are simply following the PSC's policy
23	in investor-owned utility rate cases here; isn't that correct?
24	MR. GRIM: Yes.
25	MR. MILLER: Isn't the effect of your one percent

1	productivity adjustment to reduce the revenue requirement in
2	each of the years 2016, 2017 and 2018?
3	MR. GRIM: Yes.
4	MR. MILLER: I believe you agreed with me that you are
5	familiar with the OSA between LIPA and Public Service Long
6	Island, correct?
7	MR. GRIM: That was pertaining to passed-through expenses.
8	MR. MILLER: What was your answer, Mr. Grim?
9	MR. GRIM: As it pertains to passing through expenses
10	incurred by PSEG Long Island to LIPA.
11	MR. MILLER: That and also more generally?
12	MR. GRIM: A bit more generally, yes.
13	MR. MILLER: That agreement was approved by the chair of
14	the PSC, was it not?
15	MR. MAZZA: Object, Your Honor. The letter stands for
16	itself speaks for itself. I'm sorry.
17	JUDGE VAN ORT: That is correct. If the witness can answer
18	it as to what his understanding of it might be. If he has no
19	understanding, he can simply state that. He doesn't have to go
20	beyond the boundaries of that.
21	MR. GRIM: I do not know.
22	MR. MILLER: Do you know if the OSA contains performance
23	incentives for PSEG Long Island?
24	MR. GRIM: Yes, I do.
25	MR. MILLER: And it does, doesn't it?

1 MR. GRIM: Yes. 2 MR. MILLER: Does it also contain performance penalties? MR. GRIM: I'm not aware of any. 3 MR. MILLER: Do you know if your one percent productivity 4 5 adjustment is referenced or contained anywhere in the OSA? 6 MR. MAZZA: Your Honor, this is outside the scope of the 7 witness's testimony. He wasn't testifying with respect to the OSA incentive inflation and productivity adjustment. 8 9 JUDGE VAN ORT: Mr. Miller, can you give us an offer, proof as to where you are going with this? Maybe it will help us out 10 11 in this process. 12 MR. MILLER: I think one of the things we have to realize is this case is that this is not a typical IOU case. The OSA 13 14 does govern the agreement between PSEG Long Island and LIPA, and its terms have to be respected in this case as well. So, if the 15 16 witness didn't look at it, that's fine but I think it's an 17 important element of this case. This is not an investor-owned 18 utility rate proceeding. 19 JUDGE VAN ORT: How does that relate to the productivity 20 adjustment issue you are talking about, the one percent? 21 MR. MILLER: Well, Your Honor, because the productivity 22 adjustment is essentially another incentive. We just 23 established that in the colloquy that we had. So, given the fact that it's an incentive and the OSA contains incentives and 24 25 penalties, I am trying to find out if this is another incentive

that is being added to the OSA. 1 2 MR. MAZZA: Your Honor, I don't know that it was established that the OSA considered the productivity an 3 incentive. I would differ with that interpretation. 4 JUDGE VAN ORT: We are going to go off the record for a 5 6 minute. 7 (Whereupon, an off-the-record discussion was held.) JUDGE VAN ORT: Gentlemen, we are going to give you a 8 9 little bit of latitude in this regard. But one of the things we need to do, the two of us are sitting here looking at the 10 11 testimony that was prepared and we are trying to draw the link 12 back to the testimony. Mr. Miller, as you are questioning, if you can assist us in 13 14 that regard and tie it back to the testimony that they have 15 prepared, that would be of help. 16 MR. MILLER: I think the question is no more complicated 17 than asking if the one percent productivity adjustment appears 18 anywhere in the OSA. If the witness doesn't know, that's fine. I don't intend to go any further than that. 19 JUDGE VAN ORT: Mr. Grim? 20 21 MR. GRIM: Mr. Miller, please repeat the question. 22 MR. MILLER: Again? 23 MR. MAZZA: Your Honor, argumentative. JUDGE VAN ORT: Gentlemen, let's settle down. His 24 25 question, let's see if I can rephrase. His question is simply

1	does the one percent productivity adjustment that you stated in
2	your testimony appear anywhere within the confines of the
3	operating service agreement?
4	MR. GRIM: No.
5	MR. MILLER: Let's go to the exhibit that we had marked as
6	Exhibit 103, your response to the interrogatory. Do you have
7	that?
8	MR. GRIM: Yes.
9	MR. MILLER: Look at your response number two, please. The
10	second sentence of that response says "In treating LIPA and PSEG
11	Long Island analogously to an investor owned utility, it is
12	appropriate to include OPEBs expense in the calculation of the
13	productivity imputation adjustment."
14	Is that correct? That is what it says?
15	MR. GRIM: Yes.
16	MR. MILLER: Is LIPA an investor-owned utility?
17	MR. GRIM: No.
18	MR. MILLER: Do you know, is PSEG Long Island considered a
19	utility under the LIPA Reform Act?
20	MR. MAZZA: Your Honor, that calls for a legal conclusion.
21	MR. MILLER: I am just asking if he knows.
22	JUDGE PHILLIPS: If you know, you can answer. I don't
23	think it is calling legal conclusion. It is just if they know.
24	MR. GRIM: No.
25	MR. MILLER: Your Honor, just for ease of cross

1	examination, Your Honor, I would like to give the witness a copy
2	of a page from the exhibit that will be marked. It has been
3	long in evidence. I will give Your Honors a copy as well. It
4	will just be easier to follow along (handing).
5	JUDGE VAN ORT: What exhibit number?
6	MR. MILLER: RRP-1.
7	JUDGE PHILLIPS: Let's note for the record that the page
8	that was handed out was exhibit previously marked as RRP-1, page
9	2 of 9. It has not been marked again because it is our
10	understanding that it should be on the list of exhibits that was
11	prepared by the parties. What I wanted to request though is the
12	number that was given to it on that list?
13	MR. MILLER: The exhibit number?
14	JUDGE PHILLIPS: Correct.
15	MR. MILLER: It was RRP-1.
16	JUDGE PHILLIPS: No. You prepared a list of exhibits and
17	it was assigned a number.
18	MR. MILLER: We are looking.
19	MR. FORST: Your Honor, I believe it was number 45.
20	JUDGE PHILLIPS: Thank you.
21	MR. MILLER: Thank you, Mr. Forst.
22	MR. FORST: You're welcome.
23	JUDGE VAN ORT: Mr. Forst, that Exhibit 45 is the entire 19
24	pages; is that correct?
25	MR. FORST: That is correct, Your Honor.

exhibit. Thank you. Gentlemen, do you need time to look at this before a question is asked? Do you need the entire exhibit? There second question. You can answer. MR. GRIM: We don't. We are fine. We can take quest now. JUDGE VAN ORT: You do not need the full exhibit? MR. GRIM: I believe I have a copy of it. JUDGE VAN ORT: Mr. Miller? MR. MILLER: Thank you, Your Honor. Let's do some background questions. Can you define OPEBs for me? MR. GRIM: They're benefits to former employees that	is a ions
 Gentlemen, do you need time to look at this before a question is asked? Do you need the entire exhibit? There second question. You can answer. MR. GRIM: We don't. We are fine. We can take quest now. JUDGE VAN ORT: You do not need the full exhibit? MR. GRIM: I believe I have a copy of it. JUDGE VAN ORT: Mr. Miller? MR. MILLER: Thank you, Your Honor. Let's do some background questions. Can you define OPEBs for me? MR. GRIM: They're benefits to former employees that receive after retirement or post-employment. 	is a lons
 question is asked? Do you need the entire exhibit? There second question. You can answer. MR. GRIM: We don't. We are fine. We can take quest now. JUDGE VAN ORT: You do not need the full exhibit? MR. GRIM: I believe I have a copy of it. JUDGE VAN ORT: Mr. Miller? MR. MILLER: Thank you, Your Honor. Let's do some background questions. Can you define OPEBs for me? MR. GRIM: They're benefits to former employees that receive after retirement or post-employment. 	is a ions
 second question. You can answer. MR. GRIM: We don't. We are fine. We can take quest now. JUDGE VAN ORT: You do not need the full exhibit? MR. GRIM: I believe I have a copy of it. JUDGE VAN ORT: Mr. Miller? MR. MILLER: Thank you, Your Honor. Let's do some background questions. Can you define OPEBs for me? MR. GRIM: They're benefits to former employees that receive after retirement or post-employment. 	ions
 MR. GRIM: We don't. We are fine. We can take quest now. JUDGE VAN ORT: You do not need the full exhibit? MR. GRIM: I believe I have a copy of it. JUDGE VAN ORT: Mr. Miller? MR. MILLER: Thank you, Your Honor. Let's do some background questions. Can you define OPEBs for me? MR. GRIM: They're benefits to former employees that receive after retirement or post-employment. 	ions
 now. JUDGE VAN ORT: You do not need the full exhibit? MR. GRIM: I believe I have a copy of it. JUDGE VAN ORT: Mr. Miller? MR. MILLER: Thank you, Your Honor. Let's do some background questions. Can you define OPEBs for me? MR. GRIM: They're benefits to former employees that receive after retirement or post-employment. 	
 JUDGE VAN ORT: You do not need the full exhibit? MR. GRIM: I believe I have a copy of it. JUDGE VAN ORT: Mr. Miller? MR. MILLER: Thank you, Your Honor. Let's do some background questions. Can you define OPEBs for me? MR. GRIM: They're benefits to former employees that receive after retirement or post-employment. 	
 MR. GRIM: I believe I have a copy of it. JUDGE VAN ORT: Mr. Miller? MR. MILLER: Thank you, Your Honor. Let's do some background questions. Can you define OPEBs for me? MR. GRIM: They're benefits to former employees that receive after retirement or post-employment. 	
 JUDGE VAN ORT: Mr. Miller? MR. MILLER: Thank you, Your Honor. Let's do some background questions. Can you define OPEBs for me? MR. GRIM: They're benefits to former employees that receive after retirement or post-employment. 	
MR. MILLER: Thank you, Your Honor. Let's do some background questions. Can you define OPEBs for me? MR. GRIM: They're benefits to former employees that receive after retirement or post-employment.	
<pre>12 background questions. 13 Can you define OPEBs for me? 14 MR. GRIM: They're benefits to former employees that 15 receive after retirement or post-employment.</pre>	
13 Can you define OPEBs for me? 14 MR. GRIM: They're benefits to former employees that 15 receive after retirement or post-employment.	
MR. GRIM: They're benefits to former employees that receive after retirement or post-employment.	
15 receive after retirement or post-employment.	chey
16 MR. MILLER: Pensions of course are pension expense,	
17 correct?	
18 MR. GRIM: Yes.	
19 MR. MILLER: You are familiar with the term generally	
20 accepted accounting principle or GAAP, G-A-A-P?	
21 MR. GRIM: Yes.	
22 MR. MILLER: For an investor-owned utility when they	
23 calculate pension expense, is it not usually calculated on	
24 GAAP basis?	a
25 MR. GRIM: Yes.	a

1	MR. MILLER: For an OPEB expense, isn't it also usually
2	calculated on a GAAP basis?
3	MR. GRIM: Yes.
4	MR. MILLER: Are you aware that in this case for the public
5	power model the pension expense was calculated on the lower
6	ERISA minimum payment level?
7	JUDGE VAN ORT: Just as a point of clarification, it is
8	calculated are you referring to PSEG or by Department of Public
9	Service Staff?
10	MR. MILLER: No, Your Honor. It was calculated really
11	through a collaboration between PSEG Long Island and the Long
12	Island Power Authority based on the use of the public power
13	model that the Long Island Power Authority favored.
14	JUDGE VAN ORT: Thank you.
15	MR. GRIM: Yes.
16	MR. MILLER: Are you aware that OPEB expense under the
17	public power model used here is essentially calculated at zero
18	using the cash basis that LIPA determined to use as zero amount
19	for OPEB expense? Are you aware of that?
20	MR. GRIM: Yes.
21	MR. MILLER: Would you agree with me that the rates in this
22	case are based on for pension expense the ERISA expense and not
23	GAAP expense.
24	MR. GRIM: Yes.
25	MR. MILLER: Would you further agree that for rates in this

1	case, OPEB expense is essentially at zero.
2	MR. GRIM: To clarify, could you tell us whether or not
3	are you talking about them being included in the rate case or in
4	the revenue department?
5	MR. MILLER: I didn't get your question, Mr. Grim.
6	MR. GRIM: Then would you please repeat your question?
7	MR. MILLER: Do you have one page, page 2 of 19, that you
8	had that I showed you.
9	MR. GRIM: Yes.
10	MR. MILLER: Look under the PSEG Long Island expenses for
11	pension. Do you see a figure of 73 million dollars there.
12	MR. GRIM: Yes.
13	MR. MILLER: Now go down the list and look at the LIPA
14	expenses where deductions are made for non-cash items.
15	Do you see that? Do you see that same 73 million dollars
16	is taken out there?
17	MR. GRIM: Yes.
18	MR. MILLER: Under the public power ratemaking model that
19	we are using, ratepayers are not being asked to pay rates for
20	that 73 million dollars, are they?
21	MR. MAZZA: Your Honor, I once again, say this goes beyond
22	the scope of the testimony.
23	MR. MILLER: Do you want me to respond to that?
24	JUDGE VAN ORT: Go ahead.
25	MR. MILLER: The one percent productivity adjustment is

being applied to salaries, wages and benefits. The pension and OPEB expense is part of that. The one percent productivity adjustment is being applied to an expense that essentially the inquiry is asking hasn't that expense essentially been taken out and not being sought in rates. It applies directly to the

6 testimony on how the one percent productivity adjustment was 7 calculated.

8 JUDGE VAN ORT: If you are questioning the witness as to 9 whether or not they agree that that is essentially redacted or 10 taken out of the expense, I think we can lead with that. I 11 think that would get to the end.

Mr. Mazza, did you have something else? MR. MAZZA: To the extent that the witness is speaking about approximate for certain expenses rather than the exact expenses, he should be required to answer whether or not it goes into rates or not.

MR. MILLER: That's an argument, Your Honor, but we are talking about facts here.

JUDGE VAN ORT: Mr. Miller, I think we can allow you a little bit more latitude. I think we pretty much got the point here and your exhibit I think it indicative of that. Your arguments are obvious in brief as to what that exhibit purports to show. I think we can close it out. If the witness can provide any more amplification for that, fine, but I think we need to get to a conclusion on this.

1	MR. MILLER: As long as Your Honors got the point, I guess
2	there is no point in beating a dead horse. We have nothing
3	further, Your Honors.
4	MR. MAZZA: Your Honors, may we request redirect.
5	JUDGE VAN ORT: Yes.
6	MR. MAZZA: May we have an opportunity to confer.
7	JUDGE VAN ORT: Yes. How much time do you need?
8	MR. MAZZA: Five minutes. Thank you.
9	JUDGE PHILLIPS: Off the record.
10	(Whereupon, a brief recess was taken.)
11	JUDGE VAN ORT: I think we are ready to resume. Does
12	anyone need the reporter to go back to where we left off?
13	MR. MAZZA: No, Your Honors. We have no redirect.
14	JUDGE VAN ORT: Thank you. The panel is excused.
15	MR. GRIM: Thank you, Your Honors.
16	MR. POHORECKYJ: Thank you.
17	JUDGE PHILLIPS: I believe the next on the list will be the
18	PSEG Capital Budget and Rebuttal panel; is that correct?
19	MR. FAVREAU: Yes.
20	JUDGE PHILLIPS: Can you please call the witnesses, call
21	your panel.
22	MR. MILLER: May we go off the record?
23	JUDGE PHILLIPS: Yes, we are off the record.
24	(Whereupon, an off-the-record discussion was held.)
25	JUDGE VAN ORT: If we can go back on the record. My

understanding is we are doing the PSEG Transmission Distribution 1 2 Capital Budget Panel and rebuttal. Is that correct, Mr. Miller? 3 MR. MILLER: That's correct, Your Honor. As I was explaining to Judge Phillips, perhaps a point of clarification. 4 5 The original or initially filed Capital Budget testimony 6 involved T&D, IT Business Services and Customer Services. That 7 panel was composed of Mr. Lizanich, who is on the rebuttal panel but also Mr. Lyons, Mr. Walden and Mr. Parikh, each of whom had 8 9 responsibilities in their area. Mr. Lizanich is most notable for T&D Capital. As we have gone along, the issues have 10 11 narrowed themselves to those just related to T&D and with 12 specific emphasis on some accounting issues within T&D, so that 13 is why we constituted a different panel for the T&D rebuttal 14 testimony. So, the rebuttal testimony is the rebuttal testimony of 15 16 Transmission and Distribution Capital Budget. The direct 17 pre-filed testimony of the Capital Budget Panel we are putting in by affidavit, and then the rebuttal testimony we have panel 18 19 here live. 20 EXAMINATION BY. 21 MR. MILLER: 22 JUDGE VAN ORT: Thank you. Ladies and Gentlemen, raise

23 your right hand please. Do you swear or affirm that the 24 testimony you are about to give in this proceeding is the truth, 25 the whole truth and nothing but the truth?

1	MR. DAHL: Yes.
2	MR. LIZANICH: Yes.
3	MR. AICHER: Yes.
4	MS. FIGLIOZZI: Yes.
5	JUDGE VAN ORT: We keep having to say this because I have
6	to do it myself, when you are answering questions, make sure you
7	pull the microphone to yourself and make sure you hold the
8	button down. You can proceed.
9	MR. MILLER: I would ask the panel, do you have in front of
10	you a sixteen-page document titled Rebuttal Testimony of
11	Transmission and Distribution Capital Budget Panel?
12	MR. LIZANICH: Yes, I do.
13	MR. MILLER: If I were to ask you questions
14	JUDGE PHILLIPS: For the court reporter, we are going to
15	just have to identify the individuals at some point. Continue
16	what you were doing and we will do that.
17	MR. MILLER: If I were to ask you the questions contained
18	in that document, would your answers be set forth therein?
19	MR. LIZANICH: Yes.
20	JUDGE VAN ORT: Would each of the panel members going from
21	left to right identify yourself?
22	MR. DAHL: Kurt Dahl, D-A-H-L.
23	MR. LIZANICH: Nick Lizanich, L-I-Z-A-N-I-C-H.
24	MR. AICHER: Rich Aicher, A-I-C-H-E-R.
25	MS. FIGLIOZZI: Lisa Figliozzi, F-I-G-L-I-O-Z-Z-I.

1	MR. MILLER: Is the panel also sponsoring exhibits?
2	MR. LIZANICH: Yes.
3	MR. MILLER: Those exhibits are identified as Exhibits
4	CBP-REB 1 through 3, correct?
5	MR. LIZANICH: That is correct.
6	MS. FIGLIOZZI: Correct.
7	MR. MILLER: Were the exhibits prepared by you or under
8	your supervision and direction?
9	MR. LIZANICH: Yes.
10	MS. FIGLIOZZI: Yes.
11	MR. MILLER: Your Honors, I ask that the Prepared Rebuttal
12	Testimony of the Transmission and Distribution Capital Budget
13	Panel be copied into the record as if given orally.
14	JUDGE VAN ORT: Granted. Can we get the exhibit numbers
15	that you have agreed upon for each of those exhibits.
16	MR. MILLER: REB 1, Your Honor is Exhibit 16. 2 is 17 and
17	3 is 18.
18	JUDGE VAN ORT: Thank you.
19	MR. MILLER: Your Honor, we are going to move all of the
20	exhibits at the end of the proceeding, correct?
21	JUDGE VAN ORT: Correct, that's what we are doing.
22	
23	
24	
25	

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-00262

REBUTTAL TESTIMONY OF TRANSMISSION AND DISTRIBUTION CAPITAL BUDGET PANEL

Date: June 4, 2015

TABLE OF CONTENTS

I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY	1
II.	DISALLOWANCE OF PENSION/OPEB, A&G "LOADING FACTORS"	3
III.	NEW BUSINESS ACCOUNTS SPENDING	9
IV.	BLANKET CATEGORIES AND BLANKET PROJECTS	11
V.	MULTIPLE INTERRUPTION SUB-BLANKET RESPONSE	11
VI.	OLD BETHPAGE SUBSTATION	13
VII.	THE URB PROCESS	14
VIII.	CITY OF NEW YORK	15

128	I	
1	I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY
2 3	Q.	Please state the names of the members of this Transmission and Distribution ("T&D") Capital Budget Rebuttal Panel (the "Panel").
4	A.	We are Nicholas J. Lizanich, Lisa N. Figliozzi, Richard L. Aicher and Curt J. Dahl.
5	Q.	Have you previously submitted pre-filed testimony in this proceeding?
6	A.	Yes, with the exception of Mr. Dahl, we have all testified as members of other panels
7		that have pre-filed testimony in this proceeding.
8	Q.	Mr. Dahl, please state your full name and business address.
9	A.	My name is Curt J. Dahl. I am employed by PSEG Long Island LLC ("PSEG LI" or
10		the "Company") and my business address is 175 E. Old Country Road, Hicksville,
11		NY 11801.
12	О.	In what capacity are you employed by the Company?
13	A.	I am employed by the Company as Manager Transmission and Distribution Planning
14		I have been employed by PSEG LI since 2014. Prior to that time, I was employed by
15		National Grid, and its predecessor companies Keyspan and LILCO.
16	Q.	Please summarize your educational background and professional experience.
17	A.	I am responsible for planning the electric distribution, transmission and inter-
18		connected systems on Long Island, forecasting, reliability and for the overall
19		coordination of the various elements that constitute the local power system. I
20		represent PSEG LI on several NPCC, NYTO, NYSRC and NYISO committees and
21		am currently the Vice-Chairman of the New York State Reliability Council Executive
22		Committee. I have over 28 years of professional experience in electric system

As Manager of Generation Planning I was involved in resource adequacy and market power issues, the development of emissions compliance strategies and negotiations of energy and capacity agreements. I have also worked in the Transmission and Distribution Planning groups where I was responsible for developing capital expansion plans for the Long Island power system. I hold a Master's degree of Science in Electrical Engineering from Polytechnic Institute of New York, a Masters of Business Administration from Hofstra University and a Bachelor's degree in Electrical Engineering from Polytechnic Institute of New York. I am a Registered Professional Engineer in the State of New York.

10 11

Q. Have you ever testified before?

A. Yes, in various Article VII and Article X proceedings associated with the siting of
 new transmission and generation facilities. I have also testified at FERC on behalf of
 LIPA and the New York State Reliability Council on resource adequacy issues.

14

Q. What is the purpose of the Panel's rebuttal testimony?

A. We will address the testimony of the DPS Staff's T&D (Transmission and Distribution) Capital Expenditures Panel ("Panel") with respect to certain recommendations and capital expenditure reductions they have made. Specifically, we will address the propriety of DPS Staff's complete elimination of any "loading factors" from the capital expenditures, and we will then address DPS Staff's various recommendations and specific project disallowances from the 2016-2018 capital budgets that PSEG LI prepared.

1

2

3

4

5

6

7

8

II. <u>DISALLOWANCE OF PENSION/OPEB, A&G "LOADING FACTORS"</u>

Q. What is the most significant difference between the capital budgets that PSEG LI prepared and those that DPS Staff has recommended?

A. The most significant difference is that Staff excluded "loading factors," applicable to the various capital projects. Staff's testimony at page 20 starting at line 1, states that "Because of our inability to determine how the loaders were developed and the unusual method of how it was applied, we recommend that the amount presented in PSEG LI response to IR DPS-CBP-0372 should be 'unloaded' for A&G and Pensions/OPEB, using the percentages we just stated." The DPS Staff Panel "recommends" using a so-called "macro level approach to setting the capital budget, as opposed to our individual project adjustments" which seems to be based on removing the loading factors.

13 Q. What is the consequence of the DPS Staff's recommendations?

14 A. DPS Staff has recommended total capital budgets of approximately \$314 million, 15 \$289 million, and \$304 million for 2016-2018, respectively. This equates to total 16 negative adjustments of \$36.4 million, \$81.9 million, and \$66.7 million for the capital 17 budgets in 2016-2018, respectively, when compared to the original budget levels in 18 PSEG LI's Exhibit CBP-2. Other than DPS Staff's recommendation to remove \$13 19 million of the proposed cost for 2018 associated with the Old Bethpage substation 20 project and a few more minor proposed adjustments, the majority of the adjustment 21 that DPS Staff has made to the capital budgets relate to DPS Staff's loading factor 22 adjustment.

1

2

3 4

5

6

7

8

9

10

11

2

3

4

5

6

7

8

9

10

11

12

0.

Is it appropriate to remove the loading factors?

A. No. "Loading factors" are not simply costs that can be wished away. For example, one component of loading factors is the benefit costs associated with wages and salaries. This includes, but is not limited to, pension costs, post-retirement benefits, payroll taxes, workers compensation costs, and the like. Loading factors also include such things as fleet costs, which are allocated to various capital projects, as well as to O&M and storm costs. DPS Staff recognizes (at p. 19) that "capital projects normally account for A&G and Pensions/OPEBs." An adjustment that removes all such expenses is inconsistent with the norm. It is also inconsistent with the reality that loading factors are an unavoidable cost of everyday utility work.

Q. If the loading costs are eliminated from the capital budgets, as DPS Staff suggests they should be, are the costs avoided?

No. As we stated above, loading factors are real costs that cannot be avoided. In the 13 A. 14 case of employee labor costs, it would make no sense to allocate the cost of wages 15 and salaries to a capital project while ignoring the fringe costs associated with those 16 salaries. To do so would leave those costs unrecovered in rates. The costs of PSEG 17 LI's employee workforce are allocated largely to three "buckets" – O&M, capital, and storms. If some of these costs are not properly allocated to capital as DPS Staff has 18 19 refused to do here, the costs must be assigned to either O&M or storms. Another 20 example of costs that are allocated as "loading factors" to capital, are fleet costs. 21 These are, for example, the cost of vehicle leases, gasoline, payroll, and the like. If, 22 for example, a new transformer is installed on a pole, the cost of the transformer is 23 billed to capital. It would make no sense, however, to ignore the allocated fleet costs

that are necessary for the bucket truck required to transport and install that transformer. Yet, that is exactly what occurs if loading costs are eliminated as the DPS Staff's adjustment would do. These are real costs that will be incurred and should be properly accounted for in the capital budget.

5

0. Is there another reason why loading factors cannot be ignored?

6 A. Yes. These labor and loading costs are pass-through costs to LIPA under the OSA. 7 Consequently, the costs would still be billed to LIPA and collected pursuant to the 8 OSA. The elimination of these loading costs from projected capital spending does 9 not mean that the costs are eliminated. The alternative to loading these unavoidable 10 costs to their associated capital projects is to add the costs to the O&M budget, which 11 would only serve to increase the revenue requirement by recovering those costs in the 12 year incurred rather than over the life of the associated capital projects. This would 13 require an upward adjustment to O&M equal to DPS Staff's reduction to the annual 14 capital budgets and an associated increase in the revenue requirement equal to the 15 eliminated loading factors.

16 0. DPS Staff has stated it had difficulties determining the derivation of the loading factors. Did the capital budgets originally filed in this proceeding use a blanket **loading factor?**

19 A. Yes, detailed loading factors were not provided at the time of the filing because that 20 information was not then available in the form and detail it is today. The filing, 21 however, did include a loading factor but it was a less detailed approach. At the time, 22 PSEG LI was in the process of implementing its new SAP accounting platform and, 23 until that process was complete, could not budget in SAP.

1

2

3

4

17

Q. How was that process conducted?

A. The capital budget was developed initially in total, based on the transmission and distribution ("T&D") history for labor, material, contractors, and benefits. The total capital budget at this level of detail was provided in the document "rate case base data deck.xlsx" that was submitted via email to the DPS Staff on January 29, 2015. The additional workpapers for the A&G and OPEBs loadings were provided in IR DPS-CBP-0288(b) on March 23, 2015. In addition, PSEG LI also held a teleconference with the DPS Staff to describe the capital budget process that led to the capital budget submittal, including application of a general 14.3% manual adjustment loading factor to each of the projects presented in the T&D capital budget.

Q. In light of the developments that took place since the originally filed capital budgets, has the "loading factor" for these capital projects been clarified?

Yes, we have been able to cross check the initial "gross loading" approach with a A. project by project loading approach for 2015. We have explained the rationale for our original capital budget presentation; it was constrained by the timing of the rate plan filing and the capital process defined by the OSA, as well as the transition of both systems and personnel from National Grid. Consequently, the original capital project presentation by PSEG LI showed each project in excel spreadsheet form with a 14.3% fixed loading amount, as opposed to identifying the added actuarial and A&G overhead cost. Although not available at the time of the filing, additional project details are now available for 2015.

3

4

5

6

7

8

9

10

11

12

13

15

16

17

18

19

20

21

0. Is the loading information that DPS Staff eliminated now available in the capital budgets?

Yes, but only for the calendar year 2015. As of March 2015, PSEG LI had inputted A. the 2015 capital budget into its recently converted SAP system, by project. This required reviewing resources with the project managers, balancing labor for each department between capital, O&M, storms, and FEMA, running loadings, and making multiple edits to the LIPA Board-approved levels for the projects. What is significant is the fact that the results differ only slightly from the amounts originally estimated. The OPEB loading amount, for example is \$27.3 million versus the forecast of \$27.9 million and the A&G loadings amount is \$23.2 million versus the forecast of \$21.7 million. This information is contained in Exhibit (CBP-REB-1). Because LIPA's overall capital projects change significantly from year to year as a result of many unpredictable conditions (such as resource planning, permits, 14 legislation, staffing changes, benefit plan changes and so forth), it would not be appropriate to continuously balance budget details for projects that may never come to fruition. Consequently and because LIPA only approves the coming year's capital budget in late December, PSEG LI budgets only one year of capital in SAP in detail. More precise information as to labor and loading factors are available only after the capital and O&M budgets are complete and approved. All calendar years after the coming year are estimated off-line and without project by project labor and non-labor details.

1 2 3 4	Q.	The DPS Staff also suggested an alternative reason for removing the loadings, i.e., that the budgets with the loadings removed are more reasonable because they are in line with historical budget information. Is this a valid basis for removing the loadings entirely?
5	A.	It is not a valid basis for removing the loadings, which are a necessary element for
6		capital projects. The fact that the forecasted budgets are higher than past budgets is
7		no reason to reject more recent budgets. First, the mere passage of time, with the
8		attendant inflation, would make current budgets higher than those of the past.
9		Second, the DPS Staff (at p. 12) has explicitly agreed that the methodology PSEG LI
10		uses to establish the capital budgets is reasonable, similar to that used by other
11		utilities, and balances the overall funding requirement:
12 13 14 15 16 17 18 19 20		We found that PSEG LI's process to identify and prioritize projects to be included in the budget is reasonable and similar to other utilities in the state. Projects are proposed based on mandates, loading forecasts, or reliability concerns, and prioritized based on need and risk analysis to help identify which projects would be best to undertake and at what overall cost. Once all projects are ranked, PSEG LI develops a list of projects to be undertaken, beginning with the higher priority ones, while balancing the overall funding requirement.
21		If the DPS Staff concedes that the process by which projects are scored for risk and
22		prioritized is acceptable, then it makes no sense to reject the results of that process,
23		i.e., the resulting capital budgets.
24		Finally, the DPS Staff acknowledges (at p. 13) that the budget is approved by
25		the PSEG LI "Utility Review Board, or URB, before it is presented to the LIPA
26		Board of Trustees for final approval in December." Review by the LIPA Board of
27		Trustees adds an additional level of scrutiny that is not even present for the IOUs in
28		the state.

1		The capital budgets were developed by PSEG LI using a process that the DPS
2		Staff concedes is "based on mandates, loading forecasts, or reliability concerns, and
3		prioritized based on need and risk analysis to help identify which projects would be
4		best to undertake and at what overall cost." To recognize the labor required by those
5		projects, but ignore the associated fringe benefits, such as pensions, payroll taxes, and
6		workers compensation costs is simply insupportable. So, too, is ignoring the other
7		components of the loading factor such as fleet costs and allocated labor. The loadings
8		calculation is correct and DPS Staff's refusal to recognize any loading factors
9		whatsoever is, as DPS Staff itself recognizes, not realistic.
10	III.	NEW BUSINESS ACCOUNTS SPENDING
11 12 13 14 15 16 17 18	Q.	Starting at page 22 of their testimony, DPS Staff makes recommendations regarding the funding of New Business Blanket accounts. Specifically, DPS Staff recommends (pp. 22-23) "not using 2013 data and 2014 actual expenditures in the calculation" but instead "averaging actual expenditures from 2010 through 2012 and the 2014 budget." This produces a forecast of \$13.26 million that DPS Staff would escalate by 3% percent annually, producing forecasts of \$13.66 million, \$14.07 million and \$14.49 million for 2016 through 2018, respectively. Is this a reduction in funding for New Business accounts?
19	A.	Yes, in its testimony Staff calculated that this produces downward adjustments of
20		\$1.83 million, \$1.88 million, and \$1.94 million for 2016-2018, respectively.
21	Q.	Do you agree with DPS Staff's methodology?
22	А.	Yes, they propose to eliminate 2013 actuals to remove the effect of Superstorm Sandy
23		and we agree this is reasonable.
	I	

1Q.Do you agree with the calculated levels of adjustments to the New Business2spending?

A. No. The values appear to have been miscalculated. The New Business budgets are described by reference categories B3.1-B3.4 and are shown in the chart below. Excluding 2013 in accordance with the DPS Staff's recommendation results in an average of the 2010-2012 actual spending and the 2014 budget of \$13,815,897.

PJD		2010	2011	2012	2013	2014
Reference		Actual \$s	Actual \$s	Actual \$s		Budget \$
B3.1	New Business	\$15,700,000	\$15,400,000	\$17,000,000		\$17,800,00
B3.1	New Business					
	Reimbursements	-\$6,100,000	-\$4,500,000	-\$5,400,000		-\$5,300,00
B3.2	CIPUD	\$955,812	\$641,253	\$424,681		\$200,00
B3.3	URD	\$1,676,238	\$1,932,680	\$1,659,171		\$2,200,00
B3.4	URD Services	\$284,804	\$298,062	\$390,886		
	Total Spending (2010 - 2012) & Total					
	Budget (2014)	\$12,516,855	\$13,771,995	\$14,074,738		\$14,900,00
Ap corrected	pplying the three paverage of \$13,815	percent esca ,897 produc	alation fact	or adopted wing:	by DPS S	taff to th
Escalation to 2016 (3% for 2 years) \$14,657,285			5			
Es	calation to 2017 (3	%)		\$15.097.00	3	

\$15,549,913

Q. Should these funding levels be substituted for the New Business Blanket Funding levels recommended by DPS Staff?

Escalation to 2018 (3%)

15 A. Yes, they should.

IV. BLANKET CATEGORIES AND BLANKET PROJECTS

Q. DPS Staff also raises "concerns" (at p. 15) about blanket accounts being based on aggregate amounts of projects having individual costs of less than \$1 million each. DPS Staff recommends that PSEG LI reduce the blanket threshold to \$100,000 and provide more "visibility" to projects between \$100,000 and \$1,000,000. Please comment on this recommendation.

7 A. Blanket Categories are made up of Blanket Projects, which are projects that are 8 routine in nature, are typically cost per unit based, and are at a dollar value less than 9 \$1,000,000. It is not necessary or cost effective to manage a \$100,000 project at the URB level the same as a \$1,000,000 project and Staff suggestion to provide more 10 "visibility" to these projects is not necessary. Although these small routine projects 11 12 are grouped together under a Blanket Category, they receive similar attention and 13 tracking as a specific project. Blanket Projects are assigned to Project Managers or 14 the Operating managers for the region and each blanket project is on the workplan to 15 ensure timely engineering and design to complete the project on time. Also, each 16 blanket project has it is own budget and it is tracked and reviewed for variance. Each 17 blanket project is discussed during workplan and clearance meetings to make sure the 18 necessary labor, material, permits and clearances are available to perform the work.

19 V. <u>MULTIPLE INTERRUPTION SUB-BLANKET RESPONSE</u>

20Q.Starting on pages 25 and 26 the DPS Staff discusses Multiple Interruptions21blankets, specifically the Multiple Customer Outage ("MCO") sub-program,22citing a supposed "unexpected budget increase in 2018," and recommends the23use of a "historical spending average for years 2009-2013" of \$5.1 million be24used for 2018. Do you agree with this adjustment?

A. No. The DPS Staff's adjustment fails to recognize that the funding level increase for
26 2018 is completely offset by reduced budgets of \$3,090,000 and \$4,455,780 for this

1

2

3

4

5

	activity in 2016 and 2017, respectively; taken together, these 2016-2017 budget						
2		figures are below the historical average 2011-2015 spending level of \$5,664,000 by a					
3		cumulative amount of \$	3,782,220 (se	e chart below)	. The reason	for this funding	
Ļ		approach is to allow FE	MA-funded v	work (which wi	ll wind down d	luring 2017 into	
5		2018) to address mainlin	e caused outa	ages affecting N	ACO customers	. The reduction	
5		in mainline outages addre	essed though]	FEMA funding	will remove a v	variable from the	
7		program targeting MCC) customers.	The multiple	e interruption	program targets	
3		smaller areas of abnormally high outage frequencies. It is a high value, targeted				value, targeted	
)		program aimed at improving customer satisfaction and quality of life. This shifting of				This shifting of	
)		budget dollars to 2018 v	vill enable PS	SEG LI to surg	ically address t	these pockets of	
		poor reliability which wi	ill become m	ore apparent as	mainline outa	ges are reduced.	
)		Therefore, the original funding level identified in 2018 is well supported and should					
2	not be reduced						
,		not be reduced.					
		Multiple Interruption	Historical Sp	end Rate:	2012	2011	
		\$3,000,000 \$	2014 6,980,000	2013 \$7,500,000	\$5,040,000	\$5,800,000	
	Average Spend 2011 through 2015: \$5,664,000						
		Requested Budget:					
		2016	2017	2018			
		\$3,090,000 \$4	4,455,780	\$8,558,045			
	Average Spend 2016 through 2018: \$5,367,942 Amount Below Average 5-Year Funding Level: \$296,058						
ļ	VI.	OLD BETHPAGE SUB	<u>STATION</u>				
5	Q. Starting at page 41 DPS Staff discusses the need for the proposed new Ruland Road to Plainview transmission line and Old Bethpage substation. Specifically				ed new Ruland n. Specifically,		

1 2 3 4 5		at page 42, the testimony states: "We further recommend that the 2018 proposed budget be reduced by \$13 million, given the uncertainty surrounding this project. Should the situation develop where the substation needs to be built, PSEG LI should re-prioritize its 2018 budget to accommodate this project." Does PSEG-LI agree with this recommendation?
6	A.	No. Given the construction lead time and the demonstrated need for the project, it
7		would be too risky not to include funding for construction in the budget.
8 9	Q.	Have any events since the filing of the Company's pre-filed direct testimony occurred that would also support this position?
10	A.	Yes. The Old Bethpage Substation project is being proposed to address future load
11		additions in the area that include large residential and commercial developments with
12		a total estimate load of 9-16 MW. As reported in a recent Newsday article on May
13		13, 2015, Exhibit(CBP-REB-2), the Town of Oyster Bay approved a developer's
14		plan to proceed with one of those projects, a development of 750 homes and
15		commercial retail space. The additional load introduced by this new development
16		further requires inclusion of the project in the capital plans to provide the electrical
17		needs.
18 19 20	Q.	DPS Staff indicated that PSEG LI could "re-prioritize the budget to accommodate the project" if it were to proceed. Do you agree with this approach?
21	A.	No. DPS Staff's approach of re-prioritizing the budget in 2018 to meet needs just
22		means that another project would have to be deferred or eliminated, putting other
23		projects and customers served at risk.
24	Q.	What is your recommendation for the Old Bethpage project funding?
25	A.	Due to the latest information and risk to other projects, PSEG LI recommends the
26		continued inclusion of the entire \$13.8 million as part of the 2018 budget.

VII. <u>THE URB PROCESS</u>

- Q. At page 13, Staff discusses the Panel's opinion concerning the role of the Utility Review Board in the budget process. Specifically Staff challenges the scope of the information presented to the URB, including data on actual spending to date when a change of funding is requested, and variance reporting. Are these claims accurate?
 A. No. Specific project funding requests submitted to URB go through a phased funding
 - - approach. Prior year history on funding approvals is included in the documents
- 9 provided to the URB. Actual YTD spending is identified during the monthly capital
- 10 project budget variance review. Project Managers are required to go back to URB to
- 11 release additional funding as more details are developed.
- Q. On page 14, DPS Staff discusses the Panel's opinion regarding other concerns with the information presented to the URB, specifically the level of detail provided on major investments and degree of visibility into what the funds will be spent on for these large projects. Do you agree with these characterizations?
 A. No. URB documentation provides scope, cash flow and approved funding levels of a
- 17 project. Depending on the phased level of estimation and funding approval by the 18 URB to commence work, the initial order of magnitude estimate based on a one line 19 drawing is prepared. As engineering work commences, detailed work schedules, 20 drawings and more detailed estimates are established in the life cycle for each project 21 and can be requested by the URB. Estimates with cash flow by year against the base 22 budget are included in the URB documents. A Risk and Contingency (R&C) is added 23 to the base estimate depending on the level of estimate. DPS Staff's criticism fails to recognize that R&C dollars cannot be spent unless requested and approved by URB, 24 thereby providing the very visibility that DPS Staff claims is absent. 25

1

VIII. <u>CITY OF NEW YORK</u>

Q. Starting on page 13 of the Marczewski testimony the concept of a Collaborative to develop a comprehensive storm hardening plan is proposed, including projections of sea level rise, flood risk and other climatic variables. On Page 15-16, Marczewski proposes LIPA retain a consultant to perform a study on climate vulnerability and associated modeling. Marczewski also envisions that the LIPA study should be updated thereafter on an ongoing basis. Lastly, Marczewski states that PSEG LI should "begin soliciting external and contractor and other resources that will be needed to implement expanded storm hardening program" and that "the collaborative should commence as soon as possible." Do you have any concerns regarding this proposal?

12 Yes. PSEG LI has already conducted studies covering many aspects of the work A. 13 proposed by City witnesses Marczewski and Horton, including extreme events, sea 14 level rise and surge flooding, performed associated modelling, and has incorporated results into system improvements (e.g., see CITY-0002, CITY-0041, CITY-0043, and 15 CITY-0060). As outlined in CITY-0043, PSEG LI has already incorporated climatic 16 17 variables into design standards, including 130 mph standards for new transmission 18 and critical distribution infrastructure and design elevations for critical equipment, 19 specifically the higher of the 1-in-100 years plus 2 feet or the 1-in-500 years flood 20 level elevations. Moreover, current PSEG LI storm hardening activities are focused on implementation of a massive three-year \$730 million storm hardening program 21 22 which must follow rigid FEMA design requirements to qualify for funding and fulfil 23 contractual requirements of the LIPA-PSEG LI Operations Services Agreement. It is 24 unclear how the Collaborative concept comports with these obligations. Further, 25 procurement of "external and contractor and other resources" which City witness Marczewski seeks will require significant additional funding and internal resources to 26 27 support. It is not reasonable to expect that PSEG LI would agree to participate

1

2

3

4 5

6 7

8

9

10

without a better understanding the ratepayer costs and benefits, scope of the proposed
Collaborative and impact on existing storm hardening commitments. PSEG LI,
however, would be pleased to meet with the City to review their insights and PSEG
LI's storm hardening efforts.

Q. Does this conclude your rebuttal testimony?

6 A. Yes, at this time.

JUDGE VAN ORT: We have rebuttal listed from a DPS stamp in New 1 2 York City. Does anyone have a preference as to going first. MR. FAVREAU: I believe we agreed that New York City would 3 4 qo first, Your Honor. JUDGE VAN ORT: Mr. Goodman or Mr. Loughney? Who is taking 5 6 charge? 7 MR. GOODMAN: Yes, Your Honor. Thank you. EXAMINATION BY 8 9 MR. GOODMAN: 10 MR. GOODMAN: Good afternoon, Panel. My name is Jay 11 I am an attorney for the City of New York. I have a Goodman. 12 few questions for you this afternoon regarding storm hardening 13 and resiliency. Just to be clear at the outset, when I refer to 14 storm hardening, it covers both concepts; storm hardening and

15 resiliency. 16 To make sure we understand each other when we are 17 discussing this, if I were to explain that storm hardening 18 refers to capital investments that allow the transmission and 19 distribution system to withstand the impact of severe weather 20 with fewer outages and also improve utilities' ability to 21 restore service following a weather-related outage, that that is 22 the meaning of storm hardening resiliency; do you agree? 23 MR. LIZANICH: Yes.

MR. GOODMAN: Thank you. Hurricane Sandy caused widespread 24 25 damage to the utility infrastructure through the service
territory, correct? 1 2 MR. LIZANICH: Yes, it did. Do you agree that the distribution of that 3 MR. GOODMAN: damage throughout the service territory related in part to a 4 5 combination of variables including storm size, storm trajectory, 6 wind speed, amount of rain, et cetera, timing of landfall, et 7 cetera? MR. LIZANICH: 8 Yes. 9 A similar coastal storm could result in a MR. GOODMAN: 10 different distribution of damage because those variables could be different; different trajectory, timing of landfall, strength 11 12 of storm, et cetera, correct? 13 MR. LIZANICH: That's correct. The length of the storm, 14 the direction of the storm, the path of the storm, all those 15 would be variables that would dictate damage to be different for 16 each of those occurrence. 17 Even if a storm comparable to Hurricane Sandy MR. GOODMAN: 18 were to impact the service territory again, you could see a 19 different group of assets, maybe some overlaps but also different assets, being damaged that were not damaged by 20 21 Hurricane Sandy? 22 MR. LIZANICH: It's possible to have difference but there 23 would be a lot of common facilities that would be damage because of the strength of those facilities, and their ability to 24 25 withstand is a criteria that would determine whether a storm

hitting Montauk would have the same damage and effects as a 1 2 storm hitting the Rockaways. MR. GOODMAN: Would the panel agree that observation of 3 historic data and computer modeling of future climate conditions 4 5 have led to the conclusion that sea level is rising? 6 MR. LIZANICH: We had a study performed by WorleyParsons a 7 world-renown expert on flooding who did advise us of that and 8 that was subsequently built into the recommendations. So, yes, we are aware of a sea level rising. 9 The WorleyParsons reports you referred to 10 MR. GOODMAN: 11 were provided to the City in response to its discovery requests, 12 33 and 36, correct? MR. LIZANICH: I don't remember the exact numbers but, yes, 13 14 they were provided as part of the testimony. 15 MR. GOODMAN: Those climate change -- excuse me. Those sea 16 level rise projections provided by WorleyParsons provided the 17 basis for equipment elevation projects that the company is 18 conducting; is that correct? MR. LIZANICH: That was one consideration that was used in 19 20 the determination of recommendations for rise of equipment. 21 Yes, that was one recommendation -- I'm sorry, one 22 consideration. 23 MR. GOODMAN: I understand but I want to make sure. My 24 question may have been confusing. Taking a step back, as part 25 of your storm hardening initiative, equipment identified as

being at risk for damage from flooding would be elevated to be 1 2 above a projected flood level, correct? MR. LIZANICH: Yes. The results of the study and the path 3 we took forward was to elevate equipment to be out of harm's 4 5 We had a criteria established as recommended by wav. 6 WorleyParsons that was a 100-year storm plus two feet or a 7 500-year level storm and to be protected from those levels of floods. 8 9 MR. GOODMAN: Would the panel agree that the analysis 10 conducted by WorleyParsons should be updated or replaced from 11 time to time? 12 MR. LIZANICH: The study that was done by WorleyParsons included a couples of facets. One, it including their 13 14 experience in the industry; not only in the utility industry but 15 in the industry in general because they obviously do flood 16 analysis for state agencies, governments as well as in private industry including utilities. But they also as part of our 17 scope we did a cursory look. 18 They did a sampling of fifty utilities so they developed a 19 20 best practice for us to follow, so that was the basis of the 21 analysis performed and the actions we took. Should it be updated over time, there is nothing wrong with updating. Maybe 22 23 the conditions change. Maybe if better data became available, 24 absolutely. It could be something that could be modified over

147

25

time.

MR. GOODMAN: Does the company plan to update those

MR. LIZANICH: At this point in time given that the study is only two years old, we feel very confident that the study is still current.

6 MR. GOODMAN: So the panel is not aware of any advancement 7 in climate science, if you will, that potentially would alter 8 the outcome of WorleyParsons analysis?

9 MR. LIZANICH: Actually, the climate effects, sea level rise, was one of the lengthy discussions we had with 10 11 WorleyParsons. As they advised us, there are numerous studies 12 in the industry that talk about various level of sea level rise. They digested that for us and gave us a recommended sea level 13 14 rise that we subsequently follow as part of the recommendation. MR. GOODMAN: A short follow-up on your response from a 15 16 moment ago. You said you believe the WorleyParsons report still 17 is current, but I believe you agree it should be updated from 18 time to time.

Sitting here today, does the panel have an opinion as to how frequently those analyses should be revised? MR. LIZANICH: Let me be clear, I am not a flood expert. But from the lessons that I have learned, from the reports I have read and from the advice and guidance that I have been given by our hired firm WorleyParsons, sea level rise is something that could be impactful. You are talking about an

studies?

1

2

3

4

eight inch -- some level of rise over some period of time. 1 So, 2 if studies were to be found to be advising us that there should be a change, then our standards would change and going forward 3 we would then apply a new standard similar to the way we changed 4 5 our standards post Sandy. 6 MR. GOODMAN: I believe you said the extent to which you 7 elevate equipment above some design flood level is based in part 8 upon the projection of sea level rise is one consideration. 9 Another consideration is looking at available flood maps; is 10 that correct? 11 MR. LIZANICH: Where those flood maps are available, yes. 12 MR. GOODMAN: As new flood maps become available, do you 13 simply substitute the new maps on a prospective basis? In other 14 words, for the next project you do you might have a different 15 design standard based on new information from the updated flood 16 map? 17 The FEMA flood maps get revised on a MR. LIZANICH:

periodic basis. I'm not aware of them being updated on a routine basis. I can tell you that in Nassau County we still work with FEMA maps from 2009. That's the most recent version. I can tell you in Queens they were updated post Sandy.

There is really only one consideration to doing a flood analysis in determining what level of rise or design you should plan based upon that because obviously the Nassau County maps may be out of date compared to what we experienced with Sandy.

Am I correct that the panel is aware that the 1 MR. GOODMAN: 2 City has recommended that the company commence a collaborative process to discuss the storm hardening program; is that correct? 3 4 MR. LIZANICH: I am aware. We did see the information 5 provided. 6 MR. GOODMAN: The City recommended that that process be 7 modeled on and adapted from the storm hardening and resilience 8 collaborative being administered by Con Edison, correct? 9 MR. LIZANICH: I am aware of your recommendations, yes. 10 MR. GOODMAN: Does the panel agree if a collaborative 11 process such as that is implemented, that customers would 12 benefit if new storm hardening investments are identified that would extend asset life? 13 14 MR. LIZANICH: I don't think it's a straight yes or no 15 answer. I think it's important to understand how we got to 16 where we are and where we believe we could go going forward. 17 Our process of flood mitigation started back in 2006 with a Navigant study performed, and that was for storm hardening in 18 general which included flood level concerns. Subsequent to 19 20 Sandy of course we had the issues with the flooding in the 21 stations. We undertook -- we engaged WorleyParsons, as I 22 previously mentioned, to come in and help give us guidance on 23 sea level rise and flood mitigation.

In addition to that, we participate collaboratively in an effort with the Electric Power Research Institute on storm resiliency

program in which LIPA was actually one of the leads in that 1 2 resiliency program to again to collaboratively learn from our fellow utilities. We participate in the EEI, the Edison 3 Electric Institute, where we had numerous discussions in and 4 5 around flood mitigations specifically. Then, of course, the State of New York and DPS has conducted numerous collaboratives 6 7 amongst the utilities post Sandy so that we can learn lessons then between them. 8

9 Separate from that, we also have engaged with Con Ed 10 directly in understanding their resiliency programs and 11 collaboratively shared with them what we are doing as well. 12 There has been a lot of collaboration, a lot of efforts to get 13 to us to where we are today. Our process was to learn from 14 others where we could because what we experienced in Sandy was 15 somewhat of a first for us.

MR. GOODMAN: With respect to the City's recommendation that there be a collaborative to include stakeholder participation, would you agree that as part of a collaborative if it is implemented that it should include weighing the cost and benefit of various hardening and resiliency measures?

21 MR. LIZANICH: In any collaborative effort, not just 22 specific to the one you referred to but any collaborative 23 effort, I would expect there be a cost/benefit analysis done to 24 determine what the cost of mitigation is and what the benefits 25 to be expected because at the end of the day our customers would

be paying for that. So, yes, I would expect that to be one of 1 2 the charges for the collaborative effort. 3 MR. GOODMAN: In its rebuttal testimony, the panel stated that it would be willing to meet with the City to discuss the 4 City's recommendations. The City is definitely interested in 5 6 such meeting but has a couple of questions. If the City and 7 company were to meet to discuss storm hardening resilience 8 collaborative, would the company object to the Department of 9 Public Service staff being invited to the meeting if they were 10 interested in attending? 11 MR. LIZANICH: No, not at all. 12 MR. GOODMAN: Would the company object to NRDC, Natural 13 Resources Defense Council, or some other Stakeholder group 14 being invited if they were also interested in attending a 15 meeting? 16 MR. LIZANICH: No. I think I can make a generalized statement that from a collaborative perspective bringing 17 18 stakeholders to the table would be an expected thing. The only 19 thing that we would want to just be cautious of as we move 20 forward would be that there would be value to what we would be 21 getting ourselves engaged in. Remember I had said earlier, all 22 the collaboration that we have done to this point in time plus 23 any collaboration going forward, we would not be adverse if it provided value back to our customers. 24

I don't know where you currently stand, where they stand and what their goals and objectives of that collaboration would

If it brought value back to our customers and I could 1 be. 2 rationalize the cost/benefit of participation versus the value gained, we would not be adverse to that participation. 3 MR. GOODMAN: You mentioned you had extensive discussions 4 5 with Con Edison with regard to its storm hardening program and 6 presumably including the collaborative process it is 7 administering. Have you had any feedback from Con Edison? Now that their collaborative has been ongoing for I believe 8 9 approximately three years, have you had any feedback from that utility as to the value or I guess productivity, if you will, of 10 11 that process?

MR. LIZANICH: Con Ed is in a slightly different position relative to Long Island Power Authority in terms of flood zones and major equipment in the flood zone areas. They have a lot of transmissions substations that are in areas that are vulnerable to flooding, so their risks are significant.

In our case, what we have at risk are distribution substations. Obvious customers, in both cases customers are impacted. But we are aware of their program. We are aware what they are doing. We have shared with them our plans. We are aware of how they have elevated, how they have installed barriers at their stations, and we have seen a copy of their latest plan.

24 MR. GOODMAN: I understand asset vulnerability may be 25 somewhat different between LIPA and Con Edison; however, the

collaborative process that is recommended was not tied 1 2 specifically to whether the predominance of the vulnerability is with respect to the overhead system, the underground system, 3 transmission and distribution, et cetera. 4 5 Forgive me if I am putting words in your mouth but if I'm 6 understanding some of the answers correctly, implicit in what 7 you are saying is it acknowledges the current storm hardening program is focused on hardening certain assets against the next 8 9 hurricane or large tropical storm that may impact the service territory; is that correct? 10 11 MR. LIZANICH: Would you repeat that? 12 MR. GOODMAN: Sure. It was a convoluted question. I admit it. 13 I believe implicit in some of the answers is basically you 14 discuss talking around the fact that the PSEG storm hardening program is designed to harden certain assets against the next 15 16 large tropical storm or category three hurricane that may impact 17 the service territory; is that correct? 18 MR. LIZANICH: Let me be clear. Our storm hardening 19 program addresses multiple facets. It addresses flooding and 20 hence the elevation of stations at risk. We had some ten 21 substations experience significant flood damage associated with 22 Sandy. It addresses wind speeds. We have for the last nine 23 years been undertaking an effort to harden our substations to 24 withstand wind speeds 130 miles an hour which is category three 25 hurricane.

We have taken steps in the last nine years since the storm hardening plan was first developed to strengthen transmission lines such that anything new being built or being rebuilt would be withstanding 130 mile an hour wind speeds. These are across the entire island. This is not just something focused on a specific area near the coastal waters. It is across the entire service territory.

8 So, our storm hardening plan includes many facets directed 9 towards wind speed, ice, rain and flooding as being one of those 10 aspects.

MR. GOODMAN: Adding value, as you said, you expressed a concern that the collaborative process be something that add value. Except that the collaborative can identify additional areas of storm hardening investment that currently aren't being covered.

16

Would you agree that that would provide value?

MR. LIZANICH: Let me be clear. Our interest would be in 17 learning as much as we can learn about hardening for the sake of 18 being able to provide our customers with more reliable service. 19 20 We have come a long way in the last several years in terms of 21 our knowledge based on hardening, our knowledge based on 22 flooding, our knowledge based on how to deal with hardening the 23 system. The FEMA grants being one example of the investments that we make. We are making 50 million dollar investments in 24 25 the Rockaways now to upgrade our substations of which FEMA is

2 We are making significant investments. So, inasmuch as a collaborative would help us learn more, 3 would help us provide a more comprehensive look at hardening 4 5 across the grid beyond what we are already doing, we would be 6 interested in that. Again, it would be a basis that as long as 7 it provided us value and we can see value to our customers, it would be worth the investment for our customers for us to make. 8 9 If the collaborative brought that result to the table, then we would be very interested in participating. 10 11 MR. GOODMAN: Was the panel present earlier today when I 12 asked a few questions of the LIPA Overview Panel? 13 MR. LIZANICH: Yes, I was here. 14 MR. GOODMAN: Mr. Lizanich, did you hear me ask the LIPA panel whether or not it would oppose the collaborative 15 16 recommended by the City? 17 MR. LIZANICH: I do recall that question. MR. GOODMAN: You did hear then that the LIPA panel said 18 19 that the facility would support the collaborative; is that 20 correct? 21 MR. LIZANICH: Absolutely and again --MR. BROCKS: Objection. I believe the question misstates 22 23 the testimony.

covering a portion of the fees. The rest being born by LIPA.

24 MR. GOODMAN: I apologize. It was just the last memory. I 25 think the panel may have said they do not oppose the recommended

1	collaborative.
2	MR. LIZANICH: I would have to ask the court reporter to
3	read back the testimony.
4	JUDGE VAN ORT: I don't know that we need to go back that
5	far to the testimony. If you just want to state a question as
6	your understanding of it and see if they agree with that. If
7	they do not, that would be the answer.
8	MR. GOODMAN: Thank you, Panel. Nothing further, Your
9	Honors.
10	JUDGE VAN ORT: The Department of Public Service Staff
11	reserved time for cross examination?
12	MR. FAVREAU: Yes, Your Honor. As a preliminary matter, we
13	have marked for identification several IR responses. We
14	provided the other parties notice of these responses on Friday
15	(handing).
16	MR. GOODMAN: I apologize, Your Honors. Sorry,
17	Mr. Favreau. There were two discovery responses that I hope to
18	mark in evidence. I got caught up in the questions. I can do
19	that after Mr. Favreau's cross examination. I apologize that I
20	forgot to do that before.
21	JUDGE VAN ORT: Let's finish yours before we go onto the
22	Staff.
23	MR. GOODMAN: My apologies, Mr. Favreau.
24	MR. FAVREAU: No problem.
25	MR. GOODMAN: Two discovery responses (handing).

1	JUDGE VAN ORT: For everyone's benefit, we are going to
2	identify City exhibit which is identified as discovery as 0102
3	as Exhibit 104 for identification and City number 0103 is going
4	to be marked as Exhibit 105 for identification. City 0102 will
5	be Exhibit 104.
6	MR. GOODMAN: Panel, I have handed you your responses to
7	the City's information request, Number 102 and 103. Those were
8	prepared by you or under your supervision; is that correct?
9	MR. LIZANICH: That's correct.
10	MR. GOODMAN: Sitting here today, do you have any
11	corrections to make to those, or do you agree the answers are
12	still correct?
13	MR. LIZANICH: No. I think those answers say exactly what
14	I had reported, which was that we would be willing to talk and
15	evaluate whether there is cost and benefits to the
16	collaborative. I think I paraphrased what was stated.
17	MR. GOODMAN: Thank you, Panel. Your Honors, I would ask
18	that these be accepted as marked as you just identified them to
19	be marked.
20	JUDGE VAN ORT: Thank you. We will address the admission
21	of these exhibits as well as the rest at the end. Mr. Favreau.
22	CROSS EXAMINATION BY
23	MR. FAVREAU:
24	MR. FAVREAU: Thank you, Your Honor. As I was saying, we
25	would like to mark our exhibits for identification purposes.

1	All the parties were aware of it on Friday. They are also on
2	the CD we provided, Your Honors (handing).
3	JUDGE PHILLIPS: Thank you.
4	MR. FAVREAU: Panel, if you refer to the document I just
5	gave you, it is a fifty-one page document with an index. These
6	are our responses that particularly pertain only to capital
7	budget.
8	These responses, were they prepared by you or under your
9	supervision?
10	MR. LIZANICH: Yes.
11	MS. FIGLIOZZI: Yes.
12	JUDGE PHILLIPS: Mr. Favreau, please use your microphone.
13	MR. FAVREAU: I apologize. Initially and we will get
14	back to some of these IR responses in a little while. I want to
15	clarify for the record what exactly the capital budget is, the
16	proposed capital budget is for 2016. I think initially CBP 2
17	which is 12 on the exhibit list, that was filed in January 2015
18	initially. Just recently as of Monday there was a revised CBP 2
19	that was submitted.
20	Could you tell me in that revised exhibit what the proposed
21	capital budget is for 2016?
22	MR. LIZANICH: Okay. Let's be specific. The capital
23	budget just for T&D?
24	MR. FAVREAU: Correct.
25	MR. LIZANICH: The revised CBP 2 shows the capital budget

1	for 2016 being \$360,853,190.
2	MR. FAVREAU: Thank you. Additionally there was a response
3	that was included in your rebuttal exhibit. I believe it was
4	number 3. The response is number 372.
5	Can you tell me what the proposed 2016 capital budget is
6	for T&D in that response?
7	MR. LIZANICH: Give me a second. Response for 37
8	MR. FAVREAU: 372. It is in your rebuttal Exhibit Number
9	3. To speed up the process if you want, subject to check, it's
10	the same number.
11	MR. LIZANICH: I'm looking at it here, \$360,853,190.
12	MR. FAVREAU: What was the date of that response at the
13	top; April?
14	MR. LIZANICH: 372, the date at the top of the document
15	is my copy does not have a date. I'm sorry.
16	MR. FAVREAU: Are you familiar with the Revenue and
17	Ratemaking Panel's testimony, PSEG's panel?
18	MS. FIGLIOZZI: Yes.
19	MR. FAVREAU: Are you familiar with the exhibit, in
20	particular Exhibit RRP 1 which I believe is Number 45 on the
21	exhibit list?
22	MS. FIGLIOZZI: Yes.
23	MR. FAVREAU: Would you happen to have a copy of that in
24	front of you?
25	MS. FIGLIOZZI: I do not.

1	MR. FAVREAU: You do?
2	MS. FIGLIOZZI: I do not.
3	MR. FAVREAU: Again, this can subject to check, on page 17
4	of RRP 1 there is a line that goes down that says projected 2016
5	capital expenditures. In that they have the total transmission
6	and distribution projects of 648 million and change.
7	Additionally, it has there a line called FEMA-related projects
8	which is 287 million and change.
9	Would you be willing, subject to check, that the difference
10	between those two numbers is the proposed capital budget number
11	of 360 million?
12	MS. FIGLIOZZI: Correct.
13	MR. FAVREAU: Do you know the date of when this RRP exhibit
14	was filed? Was it part of the initial filing?
15	MS. FIGLIOZZI: Part of our initial filing.
16	MR. FAVREAU: That was in January, correct?
17	MS. FIGLIOZZI: Correct, I believe, 29th or 30th.
18	MR. FAVREAU: Your Exhibit CBP 2, your initial exhibit, do
19	you know what dollar amount that had for 2016?
20	MS. FIGLIOZZI: I believe it was 316, 316 million sorry.
21	It was \$352,042,415.
22	MR. FAVREAU: That is different than the 360 million that
23	is now in the revised exhibit?
24	MS. FIGLIOZZI: That is correct.
25	MR. FAVREAU: When you put together a capital expenditure

1 project budget, do you normally go what I will call a top down 2 approach or a bottom up approach?

MR. LIZANICH: So a capital budget is really done both ways. We start bottom up in that we identify the needs of a system, drivers being things like low growth, desire to address reliability concerns, mandated projects, regulatory related, things that we have to do to comply with NERC for example. We assemble up from the bottom all of those projects.

9 We then have a merge between the need and the risk scoring 10 on those projects to identify what level a risk can we managed 11 and what level a risk can we not live with. That helps us 12 identify what the capital need is. Once that number is 13 identified, then we work backwards from the top down and 14 identify the actually funded projects.

MS. FIGLIOZZI: In addition from a top down basis, during the budget process as the HR organization and the treasury department budget fringe benefits and pensions and OPEBs, it becomes known what that basis is and what kind of loaders will be applied to that detailed capital budget.

20 MR. FAVREAU: For revised CBP 2, can you tell me what 21 percentage you used for those loaders?

MS. FIGLIOZZI: Excluding our A&G overhead cost, it was approximately 109 percent -- I'm sorry, that includes A&G, 108.6 percent and that is on the basis of labor.

MR. FAVREAU: If I can refer you to the exhibit you have.

162

1	This is page 46 of 51. It is your response to REB 475.
2	Is it correct you have here a percentage being 12.2 percent
3	for 2016 for A&G and OPEB?
4	MS. FIGLIOZZI: Yes, but that was on a different basis.
5	That was on the basis of the total capital budget versus labor.
6	So using the same comparison we have 14 percent incremental
7	loading factor associated with OPEBs and A&G that had not been
8	on the 2014 budget that was found while we were updating our
9	treasury and fringe benefit budgets. So, that incremental
10	amount of 14 percent does not include the base fringe benefits
11	that were already embedded in the capital budget, so it was an
12	incremental 14 percent on total capital.
13	During this CBP 475 it was refined to, as you had said,
14	13.2 percent, 13 percent, 12.2 percent and 13.2 percent.
15	MR. FAVREAU: So the budget in revised CBP 2, does that
16	include a 14 percent or a 12.2 percent?
17	MS. FIGLIOZZI: At this point in time, our revenue
18	requirements still contains 14 percent.
19	MR. FAVREAU: Your capital budget, proposed capital budget,
20	for 2016, one of the components of that budget are these two
21	loading factors; is that correct?
22	MS. FIGLIOZZI: Which two loading factors.
23	MR. FAVREAU: The A&G and the OPEB.
24	MS. FIGLIOZZI: Correct.
25	MR. FAVREAU: In January your revenue requirement panel had

1	a capital budget for 2016 of 360 million. That included a
2	14 percent loading factor.
3	MS. FIGLIOZZI: Correct. Revenue requirements included 360
4	million. That was inclusive of a 14 percent loading factor.
5	MR. FAVREAU: If the loading factor for 2016 is
6	12.2 percent, not the original 14 percent, wouldn't your capital
7	budget for 2016 be approximately 2 percent lower?
8	MS. FIGLIOZZI: I agree. Without the known impacts of all
9	the other adjustments that come out of all the IRs and the final
10	Ks, we did not update that slight change.
11	MR. FAVREAU: So it's a revised I don't want to really
12	hammer this point but revised CBP 2 which is 360 million should
13	be approximately 2 percent less?
14	MS. FIGLIOZZI: Correct.
15	MR. FAVREAU: Thank you. While we are talking about these
16	loading factors, could you generally describe what is meant by
17	an A&G or administration and general project loader?
18	MS. FIGLIOZZI: An example of a cost that is an A&G loader
19	would be the fixed assets organization. It's an accounting
20	organization that is responsible for closing out capital
21	projects and ensuring that they're depreciated on a timely
22	basis. As well, they're responsible for all the capital
23	reporting.
24	MR. FAVREAU: Could you also define what is meant by an
25	OPEB project loader?

1	MS. FIGLIOZZI: OPEBs are other post-retirement benefits
2	other than pensions. It's a FASB accounting rule that came out,
3	and it is a cost that had not been on capital projects in 2014
4	but were and will continue to be prospectively beginning in
5	2015.
6	MR. FAVREAU: Is anyone on the panel familiar with how
7	National Grid, your predecessor service provider, how they
8	determine their project capital expenditures?
9	MS. FIGLIOZZI: I do not.
10	MR. AICHER: I do not.
11	MR. LIZANICH: I do not.
12	MR. DAHL: No.
13	MR. FAVREAU: Would it be fair to say then that you do not
14	know whether any of the information from National Grid contained
15	any of these A&G and OPEB loaders?
16	MS. FIGLIOZZI: That is not true. I am aware of the report
17	that was provided by National Grid and the reporting that
18	National Grid did provide. There were loading rates on capital
19	and we could distinguish the description of those loading rates,
20	what was included in the outcome of capital versus what was not.
21	MR. FAVREAU: Do you know whether National Grid included
22	the A&G and OPEB loader in its capital expenditure information?
23	MS. FIGLIOZZI: It is my understanding that they did not.
24	MR. FAVREAU: That is for what year?
25	MS. FIGLIOZZI: For 2014, our comparison year to our 2015.

1	MR. FAVREAU: Does the panel have any knowledge of any
2	prior years other than 2014 on that same question of whether the
3	loaders were included?
4	MS. FIGLIOZZI: I do not.
5	MR. FAVREAU: Can you tell me, isn't it correct that OPEB
6	loaders should not be applied to materials when formulating a
7	project cost budget?
8	MS. FIGLIOZZI: That is correct.
9	MR. FAVREAU: Isn't it also correct that these OPEB loaders
10	should not be applied to contingencies in their project budget?
11	MR. LIZANICH: The contingencies added into a project for
12	the uncertainty of the estimate for the project. So, for
13	example, early on before we have definitive cost estimates from
14	construction and from the actual materials that we are going to
15	purchase, we would use estimated costs for those activities and
16	we place a contingency on the numbers because we recognize that
17	there is a margin of error in our estimates being correct.
18	Inasmuch as a contingency turns into a real number, I
19	believe it should include those OPEBs if the contingency is
20	going to be used because that contingency would be used for
21	labor and those kinds of activities that would naturally carry
22	those loaders.
23	MS. FIGLIOZZI: Under GAAP accounting we are required to
24	load labor and if contingency involves labor, labor will be
25	loaded.

1	MR. FAVREAU: Is it correct to apply A&G loaders to
2	materials?
3	MS. FIGLIOZZI: It is not.
4	MR. FAVREAU: Is it correct to apply A&G loaders to
5	contingencies?
6	MR. LIZANICH: Inasmuch as the contingency is used for the
7	purpose of labor, it would be appropriate.
8	MR. FAVREAU: For revised CBP 2, were either A&G or OPEB
9	loaders applied on a total project cost basis?
10	MS. FIGLIOZZI: In the presentation, it was presented that
11	way. However, in our system it is only applied on labor. At
12	the time that the exhibits were put together, the detailed labor
13	costs for every individual project had not been available and,
14	hence, that was a presentation purpose only.
15	MR. FAVREAU: No further cross examination, Your Honors.
16	JUDGE VAN ORT: Is there any redirect.
17	MR. MILLER: May I have the same five minutes with the
18	panel?
19	JUDGE VAN ORT: You may.
20	(Whereupon, a brief recess was taken.)
21	JUDGE VAN ORT: Mr. Miller, before you start your redirect,
22	Utility Intervention Uhas one question they just wanted to
23	ask. If you can just allow them to ask their question, and
24	then we will move onto redirect.
25	MR. ZIMMERMAN: Thank you, Your Honor.

1	JUDGE PHILLIPS: Can you just identify yourself for the
2	court reporter?
3	MR. ZIMMERMAN: Yes. I am Mike Zimmerman with the Utility
4	Intervention Unit. Thanks for the opportunity. I just have a
5	very quick question to clarify.
6	In the context of storm hardening, which systems are you
7	characterizing as transmission versus distribution?
8	MR. LIZANICH: So, the distribution system that I'm
9	characterizing is our 13,000 volt and our 4,000 volt systems.
10	The transmission that I characterized would be our 23 KV, our 33
11	KV, our 69, our 138 and our 345. Distribution would be our
12	13,000 volt and our 4,000 volt system. The transmission that I
13	characterized is our 23,000, 33,000, 69,000, 138,000 and 345,000
14	volt systems.
15	MR. ZIMMERMAN: That is it. Thank you.
16	JUDGE VAN ORT: Mr. Miller.
17	MR. MILLER: Thank you, Your Honor.
18	REDIRECT EXAMINATION BY.
19	MR. MILLER:
20	MR. MILLER: Panel, PSEG Long Island's labor expenses is
21	composed of wages, salaries and benefits, correct?
22	MS. FIGLIOZZI: Correct.
23	MR. MILLER: Is it fair to say that that expense is
24	allocated among three categories. They would be O&M, capital
25	and storms, correct?

MS. FIGLIOZZI: Ultimately, correct.
MR. MILLER: To the extent that that labor expense is
allocated away from capital, where would it be allocated to?
MS. FIGLIOZZI: Either to O&M or storms.
MR. MILLER: Is the ratemaking effect of capital different
from the ratemaking effect of O&M?
MS. FIGLIOZZI: Yes.
MR. MILLER: If capital dollars are allocated to O&M, is
there a one-for-one relationship for the increase of the rate or
the revenue requirement for that allocation?
MS. FIGLIOZZI: Yes, there is.
MR. MILLER: That is all we have, Your Honors.
JUDGE VAN ORT: Any further questions?
MR. FAVREAU: One second, Your Honor. There is no further
cross examination, Your Honor.
JUDGE VAN ORT: The panel is excused. Thank you all. We
are going to recess until 2:15 so we can take a lunch break.
You are welcome to leave your materials here. I don't believe
the room is locked, so obviously use your own judgment.
(Whereupon, an off-the-record discussion was held.)
JUDGE PHILLIPS: We are going to proceed with entering the
rest of the testimony that was identified to be entered by
affidavit into the record at this point. What we like to do to
try to speed it up is that the order in which the witnesses are

1	the affidavits in hard copy. We will mark them sequentially, so
2	let's start with the Falcone affidavit.
3	MR. BROCKS: Let the record show I presented the judge with
4	the affidavit of Mr. Falcone.
5	JUDGE PHILLIPS: The affidavit of Tom Falcone has been
6	marked for identification as Exhibit 107. Can you just tell me,
7	is it testimony and exhibits?
8	MR. BROCKS: Yes, Your Honor. The exhibits are identified
9	as the pre-numbering that is also on the affidavit.
10	JUDGE PHILLIPS: For the record, can you state is it I
11	believe both the original and rebuttal?
12	MR. BROCKS: That is correct, Your Honor.
13	JUDGE PHILLIPS: Again, for the benefit of the court
14	reporter so she knows what is going in where, can you state the
15	number of pages? I will just read from the affidavit.
16	MR. BROCKS: I got it. Here you go, Your Honor. The
17	Direct Testimony consists of 49 pages plus a title page and also
18	the Exhibit 1. The Rebuttal Testimony consists of 30 pages plus
19	a cover page and also Exhibits 5 through 9.
20	JUDGE PHILLIPS: The testimony just identified should be
21	copied into the record as though given orally. The exhibits
22	that were referred to have been premarked in accordance with the
23	exhibit list circulated previously by the parties.
24	
25	

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Matter Number: 15-____

DIRECT TESTIMONY OF

THOMAS FALCONE

LONG ISLAND POWER AUTHORITY

JANUARY 30, 2015

1	Q.	PLEASE STATE YOUR NAME, TITLE AND BUSINESS ADDRESS.	
2	A.	Thomas Falcone, Chief Financial Officer, Long Island Power Authority (the	
3		"Authority"), 333 Earle Ovington Boulevard, Suite 403, Uniondale, New York	
4		11553.	
5			
6	Q.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND	
7		PROFESSIONAL EXPERIENCE.	
8	A.	I received a Bachelor of Science in Economics from the University of	
9		Pennsylvania Wharton School. Professionally, I spent 13 years in investment	
10		banking working in municipal and utility finance. In that capacity, I raised	
11		approximately \$30 billion of capital for many of the largest public power	
12		utilities and municipal borrowers in the country. I joined the Authority in	
13		January 2014.	
14			
15	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?	
16	A.	My testimony serves several purposes. I present the Authority's approach to	
17		establishing its financial revenue requirements using the "public power	
18		model." I discuss the Authority's financial policies, which are designed to	
19		achieve sound fiscal operating practices at the lowest cost for our customers. I	

1		demonstrate how the Authority's financial policies and structure provide real
2		and significant benefits to our customers. And, I describe how the Authority's
3		electric rates are comparable to the region.
4		
5	Q.	WHAT ARE THE AUTHORITY'S OBJECTIVES FOR THE THREE-
6		YEAR RATE PLAN?
7	A.	The Authority has three objectives for the rate plan – first, to establish
8		adequate budgets that maintain high standards of reliability, while improving
9		customer satisfaction and storm response; second, to establish the Authority's
10		requirements to meet its own financial obligations as required by the LIPA
11		Act, the LIPA Reform Act, and the Authority's bond and bank agreements;
12		and third, to keep rates and charges at the lowest level consistent with sound
13		fiscal and operating and practices, also consistent with the LIPA Reform Act.
14		
15	Q.	HOW DO THE AUTHORITY'S RATE PLAN OBJECTIVES BENEFIT
16		CUSTOMERS?
17	A.	The Authority is a public power utility that operates solely for the benefit of its
18		customers. We have no stockholders. This Rate Plan outlines many
19		investments and service quality improvements for our customers. And, the

1		financial policies we propose will lower our borrowing costs, reduce our debt
2		relative to our assets, and ensure our access to capital on reasonable terms,
3		which is essential to providing reliable and safe electric service to our
4		customers.
5		
6		Unlike an investor-owned utility ("IOU"), the Authority does not generate a
7		rate of return to pay dividends or produce earnings for third-party owners. On
8		the other hand, there are no stockholders to provide incremental sources of
9		funding or bear the cost of unexpected events. All the benefits and all the
10		costs of a public power utility flow to our customers, and so maintaining sound
11		fiscal operating practices are particularly important for our customers in order
12		to protect their interests.
13		
14	Q.	DOES THE AUTHORITY'S STATUS AS A PUBLIC POWER
15		UTILITY PROVIDE BENEFITS TO ITS CUSTOMERS?
16	A.	Yes, there are several benefits from the Authority's status as a publicly-owned
17		utility. The Authority is able to raise debt to fund capital projects in the tax-
18		exempt municipal bond market, which has lower interest costs than are
19		available to IOUs. The Authority also has no third-party shareholders, and so

1	it does not need to generate earnings to pay dividends. The Authority pays no	
2	corporate income taxes. Finally, the Authority is eligible for federal grants	
3	not given to IOUs to replace and harden storm-damaged facilities. An	
4	important example of this benefit is the nearly \$1.6 billion of federal grants	
5	that the Authority has received over the last five years, which paid for damage	
6	to the electric system sustained during Superstorm Sandy, Hurricane Irene,	
7	and other recent severe weather events. These grants also included money to	
8	fund 90 percent of a \$730 million storm hardening program, which will	
9	benefit our customers both in terms of resiliency against severe weather	
10	events but also day-to-day system reliability. A number of regional IOUs	
11	incurred similar storm damage, and are executing similar storm hardening	
12	programs, and their customers are paying all of these costs. So there is no	
13	doubt that the Authority's status as a public power utility lowers customer	
14	bills from what they would be if Long Island were being served by an IOU.	
15	We estimate that the Authority's status as a public power utility saves our	
16	customers approximately \$400 million per year.	

1	Q.	WHAT IS THE BASIS FOR THE AUTHORITY'S ESTIMATE THAT		
2		BEING A PUBLICLY-OWNED UTILITY SAVES ITS CUSTOMERS		
3		APPROXIMATELY \$400 MILLION, OR 11% PER YEAR?		
4	A.	The Authority's average cost of debt financing is approximately 4.75%, which		
5		includes the benefit of being able to sell tax-exempt debt as a municipal		
6		utility. The Authority also pays no corporate income taxes and any excess		
7		funds are retained and invested in the electric system for the customers'		
8		benefit rather than paid out to shareholders. The Authority's approved 2015		
9		Operating Budget includes \$365 million for interest payments on an average		
10		principal balance of \$7.6 billion. By comparison, an investor-owned utility		
11		has a cost of capital of closer to 10% on a pre-tax basis and about 7% on an		
12		after-tax basis. ¹ Our lower cost of capital saves our customers approximately		
13		\$210 million per year. Additionally, the federal grants to pay for storm		
14		restoration and capital projects described above would otherwise have been		
15		paid by customers. We estimate that those grants save our customers		
16		approximately \$190 million per year, for total savings from our municipal		
17		utility status of approximately \$400 million per year. That \$400 million per		
18		year estimate is a rough estimate, but provides the right order of magnitude.		

¹ See Consolidated Edison Company of New York Electric Case 12-E-0300

1		That means that residential customers' bills are lower by approximately
2		\$17.50 per month or 11 percent of the average customer's bill.
3		
4	Q.	DOES THE AUTHORITY SEEK TO MINIMIZE COSTS BORNE BY
5		CUSTOMERS?
6	A.	Yes, it does. Three areas of focus are financing costs, grants and taxes. In
7		2013, the Authority was the first municipal utility in the country to refinance a
8		portion of its outstanding debt with triple-A rated securitization bonds, which
9		provided net present value savings of \$132 million for our customers and was
10		a key element to the Authority maintaining a delivery rate freeze in 2014 and
11		2015. The ability to issue triple-A rated securitization bonds was made
12		possible by Part B of the LIPA Reform Act. Going forward, we have
13		identified additional savings to customers that could be achieved by
14		refinancing other Authority bonds with securitization bonds, with anticipated
15		savings of an additional \$155 million assumed in the Rate Plan. This
16		minimizes the rate adjustments we need from customers over the next three
17		years. Additional refinancing savings will only be possible with additional
18		legislation. However, the successful implementation of that first round of
19		securitization in 2013 created confidence that securitization is a useful

1		financial tool for a public power utility with the Authority's low credit ratings
2		and high debt levels and that it lowers rates for customers. A bill was
3		introduced as part of the Governor's Budget on January 21, 2015 that would
4		authorize the issuance of up to an additional \$2.5 billion of securitization
5		bonds to refinance Authority bonds at a significantly lower cost than the
6		Authority could otherwise achieve. These bonds would be issued by the
7		Utility Debt Securitization Authority ("UDSA"), the separate State Authority
8		that is responsible for refinancing the Authority's debt with securitization
9		bonds. So this refinancing initiative seeks to reduce the cost of our debt.
10		
11	Q.	PLEASE CONTINUE.
12	A.	With the help of Governor Cuomo's administration, the Authority has
13		aggressively pursued grant opportunities, signing \$1.4 billion of grant
14		agreements during 2014 alone. The Authority has received \$1.6 billion of
15		such grants over the last five years.
16		
17		Finally, the Authority continues to pursue litigation to reduce the tax burden
18		imposed on customers through over-assessed property taxes (payments-in-lieu

19 of taxes or "PILOTS") on the legacy generating plants on Long Island. Taxes

1	and PILOT payments are approximately 15 percent of our customers' bills, ²
2	compared to a more typical 4-6 percent for other public power authorities
3	around the country ³ and a weighted average of 10.4 percent for investor-owned
4	utilities in New York (see Table 1). The New York State weighted average is
5	heavily influenced by Consolidated Edison ("ConEd"), where the tax burden is
6	most similar to Long Island at 13.6% of the customer bill. Excluding ConEd,
7	taxes for the other major electric utilities in New York range from 4.5 percent
8	to 9.3 percent with a weighted average of 5.8 percent. That extra burden of 5-
9	10 percent of the customer bill for tax and PILOT payments is a hidden cost to
10	our customers that raises electric rates.
11	
12	
13	
14	
15	
16	
17	
18	

² Authority Approved 2015 Operating Budget
³ See Fitch Ratings, U.S. Public Power Peer Study, June 13, 2014

	2012	2012
	Non-Income	Non-Income
	Taxes as % of	Taxes
Utility	Total Revenue	\$ Million
Long Island Power Authority	15.3%	\$549
Consolidated Edison	13.6%	1,403
Rochester Gas and Electric	9.3%	68
New York State Electric and Gas	7.4%	105
Orange and Rockland	7.2%	39
Central Hudson Gas & Electric	5.5%	40
National Grid	4.5%	181
New York State Weighted Average		
(excluding Authority)	10.4%	1,837
New York State Weighted Average		
(excluding Authority and ConEdison)	5.8%	433

Table 1: Non-Income Taxes for Major New York Electric Utilities

Source: NYS DPS, *Financial Statistics of the Major Investor-Owned Utilities in New York State*, 2008-2012; Authority 2015 Operating Budget

6 Q. WHO IS RESPONSIBLE FOR ESTABLISHING SOUND FISCAL

7 **PRACTICES FOR THE AUTHORITY?**

- 8 A. In accordance with the LIPA Reform Act and the Amended and Restated
- 9 Operating Services Agreement ("OSA"), the Authority retains the
- 10 responsibility for financing the business and operations of the electric system,
- 11 including determining rates and charges, capital markets activities, and
- 12 communications and reporting to lenders and rating agencies. One of the key
- 13 roles for the Authority is to establish sound fiscal practices for the purpose of
- 14 rate setting. PSEG-LI's responsibility is to put forth operating and capital

180
1		budgets necessary to operate the system safely and reliably and with a focus on
2		customer satisfaction. They operate the system on the Authority's behalf on a
3		pass-through expense basis. PSEG-LI's financial interest in the electric
4		system is limited to the management fees paid for their services.
5		
6	Q.	DO THE AUTHORITY'S FINANCIAL POLICIES STAND IN
7		ISOLATION FROM ITS RATE SETTING POLICIES?
8	A.	No, for a public power utility, the rate setting policies are directly tied to the
9		financial policies. Public power utilities are ultimately financed by their
10		customers. There are no stockholders to provide capital and cover the risk of
11		poor performance. The Authority can borrow money from the bond markets
12		and banks to finance investments in the electric system but that money must be
13		repaid by customer funds with interest over time. Since the Authority relies on
14		bonds and banks to provide low cost funding, and since customers must pay
15		for higher interest expense if the Authority appears less credit-worthy to these
16		bondholders and banks, customers have a significant interest in the Authority's
17		financial policies. At the same time, customers can gain significant benefits
18		from sound fiscal operations, as the interest rates for highly-rated municipal
19		utilities are much lower than the interest rates charged to less credit worthy

1		utilities, and the interest rates on debt for a municipal utility are much lower
2		than the capital costs for an IOU. Shareholders of IOUs require higher
3		compensation for the risk of poor performance, and their returns are after
4		payment of federal and state corporate income taxes not paid by public utilities
5		and after taxes imposed on investors' dividends and capital gains that are not
6		paid by investors in our tax-exempt municipal bonds.
7		
8	Q.	WHAT IS THE PUBLIC POWER MODEL THAT IS REFERRED TO
9		THROUGHOUT THE RATE PLAN?
10	A.	Public power utilities like the Authority are fundamentally different from the
11		IOUs that are regulated by state public service commissions. This is true in
12		New York and throughout the United States. Regulation of IOUs is designed
13		to ensure that for-profit utilities earn reasonable but not excessive rates of
14		return, maintain reliability and customer service rather than cut such costs in
15		order to boost profits, and that stockholders bear costs and experience losses
16		that are commensurate with the risk that they are compensated for through
17		their equity rate of return. For the Authority, through the LIPA Reform Act
18		and the OSA, and for public power utilities in general, these are not the key
19		considerations in the rate-setting process.

1	Public power utilities like the Authority have two key considerations when
2	setting rates: (1) will electric rates be sufficient to provide safe and reliable
3	electric service to customers and meet the financial obligations of the utility;
4	and (2) are electric rates set to the lowest possible level balancing the interests
5	of both current and future customers.
6	
7	From a financial perspective, the same points can be made, albeit with a
8	different focus: (1) will the utility achieve sufficient revenues to ensure
9	payment of all expenses and access to the bond markets and bank loans on
10	reasonable terms; and (2) will the utility achieve an appropriate balance in
11	funding infrastructure investments between customer-funded contributions
12	from electric rates today and debt financing.
13	
14	The thought process a public utility goes through in creating a financial policy
15	is similar to the logic an individual uses when applying for a mortgage to buy a
16	house. The home buyer knows that they will get a better interest rate if they
17	have a history of making sound financial decisions, an income that supports
18	their mortgage payment and other expenses, and a reasonable down payment
19	on their purchase. With all of those things, the buyer knows they will have

1		access to a number of different lenders for a mortgage and will receive a lower
2		interest rate. Like the borrower that pays their bills on time, maintains a
3		prudent level of debt, and checks their credit score regularly, a utility using the
4		public power model focuses on the key determinants of bond and bank
5		financing and directly addresses the needs of customers by minimizing
6		financing costs over time.
7		
8	Q.	WHAT ARE THE COMPONENTS OF THE PUBLIC POWER
9		MODEL?
10	A.	The public power approach to setting rates defines the utility's revenue
11		requirement as the amount of revenue from customers needed in the year to
12		pay the utility's "out-of-pocket" operating expenses, meet the utility's debt
13		payment obligations, and generate enough "coverage" or excess of revenues
14		over expenses to meet two objectives: (1) provide bondholders and banks with
15		an appropriate degree of confidence that all of the expenses and the debt
16		payments on the bonds and bank financing will be paid (the greater the
17		confidence, the lower the interest rate on debt – just like the homebuyer
18		mentioned earlier who will get a lower interest rate if their income is sufficient
19		to pay all their day-to-day operating expenses plus their mortgage with some

1		room for the unexpected); and (2) provide an appropriate contribution to new
2		capital additions (the equivalent of the down payment on the house mentioned
3		above) in order to manage the utility's ongoing reliance on debt. The good
4		news for customers on these two points is that they are not additive. The same
5		dollars can be used to provide confidence to lenders, and then be used to fund
6		a portion of the annual capital program after the debt service payments have
7		been made.
8		
9	Q.	WHAT ARE THE "OUT-OF-POCKET" OPERATING EXPENSES?
10	А.	Operating expenses are generally considered to be costs that are incurred and
11		paid within the year. These expenses, while essential, provide limited future
12		benefit to customers. The benefit is primarily received in the current period.
13		An example would be fuel costs. However, for financial reporting purposes,
14		there can sometimes be significant differences between when certain expenses
15		are recognized for accounting purposes and when the expense is paid on a cash
16		basis. Pension expenses and amortizations of deferred expenses are the two
17		most obvious examples where operating "expenses" can differ between the
18		regulatory accounting of IOUs and the public power model. Investor-owned
19		utilities tend to recover pension expenses according to an accounting schedule

1 over time, while public power utilities tend to recover such costs in the 2 amounts they use to fund the pension trust. Similarly, regulated utilities will 3 defer some costs until after their public service commission has had a chance 4 to review them in their next rate plan and will amortize those costs for 5 recovery in future years (e.g., pension costs that differ from forecast). Public 6 power utilities tend not to do that. Public power utilities tend to recover 7 expenses in the year they are incurred because that is how the rating agencies, 8 bondholders and banks that provide debt financing look at their financial 9 performance – on a cash flow basis. This also means that public power 10 utilities do not have to borrow money and pay interest expense to finance the 11 deferral of recovery for these expenses, most of which do not provide benefit 12 to future customers. Accordingly, the Authority's proposal to move from a 13 rate setting paradigm loosely based on the IOU model to one based on the 14 public power model will over time lead to less reliance on debt financed 15 deferrals, thereby strengthening the balance sheet and resulting in stronger 16 ratings and a lower cost of borrowing.

17

18 Q. DOES THE PUBLIC POWER MODEL ALIGN WITH THE

19 AUTHORITY'S LEGAL AND FINANCIAL FRAMEWORK?

1	A.	Yes. The LIPA Reform Act and LIPA's bond covenants require the Authority
2		to collect revenues sufficient to meet all of its contractual obligations. In the
3		context of the public power model, this aligns with the operating expenses and
4		debt service requirements on the outstanding bonds. The debt service
5		coverage component is not a contractual obligation and falls within the scope
6		of sound fiscal operating policy ⁴ .
7		
8	Q.	WHAT ARE THE ELEMENTS OF A "SOUND FISCAL OPERATING
9		POLICY?"
10	A.	The utility business is highly capital intensive. Each year, the Authority
11		collects from customers all of its current operating expenses but spends more
12		money than it takes in. The balance is spent on capital investments, the
13		majority of which the Authority borrows for in the debt capital markets and
14		with bank lending. These capital investments are for assets like substations,
15		poles, and wires and are necessary to maintain the electric system in sound
16		operating condition. These investments are long-life assets, the equivalent of
17		when one of our customers buys a house. It makes sense for many of our

⁴ The Authority's bank agreements have minimum credit ratings and levels of debt service coverage below which is an event of default that results in the early termination of the agreement. This level is below the coverage level that would result in sound fiscal policy. It is a level at which the Authority has already lost access to financing on reasonable terms.

1	customers to pay for their house over time as the customer enjoys the benefits
2	of that house over time. Likewise, financing our capital projects permits these
3	long-life infrastructure investments to be paid for over a period of time
4	commensurate with when the benefits are realized by our customers. The only
5	alternative would be to recover these costs from customers all in the year they
б	are incurred, which would not be equitable to current customers given the long
7	life of the assets.
8	
9	In addition to financing new capital investments, the Authority has existing
10	bonds and bank loans, a portion of which come due and need to be refinanced
11	each year. These shorter term bonds and loans provide a lower cost to the
12	Authority than long-term bonds, much like a 10-year adjustable rate mortgage
13	has a lower cost than a 30-year fixed rate mortgage. And, there are also
14	periodically economic opportunities to refinance debt for lower cost, like
15	refinancing a mortgage when interest rates drop. If the Authority is
16	creditworthy, it can take advantage of these opportunities.
17	
18	So, a sound fiscal policy has to be one where the Authority continues to have
19	access to capital on reasonable terms under a broad range of market conditions.

1		The Authority needs to be able to borrow funds on reasonable terms to make
2		infrastructure investments that maintain the electric system in sound operating
3		condition and to refinance bonds and bank loans as they become due at a
4		reasonable cost, much like a homeowner that wants to buy a house or refinance
5		a loan at a lower rate needs access to a new mortgage. The PSEG-LI
6		Ratemaking and Revenue Requirements Panel contains a summary of the
7		Authority's projected borrowing needs over the next three years.
8		
9	Q.	IS ACCESS TO CAPITAL ON REASONABLE TERMS THE ONLY
10		FACTOR IN A "SOUND FISCAL OPERATING POLICY?"
11	A.	No, beyond that some utilities have a lower cost of borrowing than others, and
12		credit ratings are a good proxy for borrowing costs over time, much like credit
13		scores are a good proxy for a homebuyer's mortgage rate. Utilities with higher
14		credit ratings will enjoy lower borrowing costs and more robust access to debt
15		and bank financing even in unfavorable market conditions. As there are no
16		shareholders to pay higher debt costs, any higher costs for debt financing are
17		ultimately the customers' cost. So, a sound fiscal policy should be reasonably
18		likely to produce the lowest electric rates for customers over time.
10		

Q. ARE THERE COMPETING NEEDS THAT NEED TO BE BALANCED IN SETTING A "SOUND FISCAL OPERATING POLICY" FOR A PUBLIC POWER UTILITY?

- All utilities want to provide their customers with reliable service and high 4 A. 5 customer satisfaction. But for IOUs, management also has to balance the 6 interest of customers with those of shareholders. For a public power utility, 7 management looks only to the best interest of the customers. There is a 8 balancing, but it is a balancing of the customers' short-term interest in lower 9 electric rates today with the customers' long-term interest in safe and reliable 10 service at lower electric rates and debt costs over time. Excessive borrowing 11 places a burden on future customers and results in higher costs today and over 12 time. Financial policies that are not fiscally sound result in lower credit ratings 13 and higher borrowing costs, and therefore higher electric rates.
- 14

15 Q. HOW HAS THE AUTHORITY STUDIED THE ISSUE OF SOUND

16 **FISCAL OPERATING POLICY IN ORDER TO DETERMINE ITS**

- 17 **REVENUE REQUIREMENT?**
- 18 A. The Authority has engaged the services of Public Financial Management, Inc.
 19 ("PFM") to review the Authority's financial policies with regard to rate setting

1		and revenue requirements. A report by PFM is attached as Exhibit (TF-1).
2		The PFM report finds that the Authority has the lowest credit rating among
3		large public power utilities in the United States ⁵ and high levels of debt
4		relative to assets, and that adoption of the public power model for setting
5		revenue requirements will lead to improved financial performance, lower debt
6		relative to assets, and a better result for customers over time.
7		
8	Q.	WHAT ARE PFM'S QUALIFICATIONS TO MAKE SUCH
9		RECOMMENDATIONS?
10	A.	PFM is the number one ranked financial advisor to public power utilities in the
11		United States. The firm works with approximately 70% of the 50 largest
12		public power issuers, including seven of the ten largest such utilities, and
13		advises on capital markets transactions worth over \$50 billion annually. PFM
14		has more relevant experience with public power utilities than the next four
15		ranked firms combined.
16		
17	Q.	WHAT WERE PFM'S RECOMMENDATIONS REGARDING CREDIT
18		RATINGS?

⁵ Excluding Puerto Rico Electric Power Authority ("PREPA"), which is currently in a forbearance agreement with its lenders and has limited access to borrowed funds.

1	A.	PFM recommends that the Authority adopt a financial policy to achieve a
2		"mid-A" credit rating over five years. The Authority's peer public power
3		utilities (generally the ten largest such integrated utilities in the United States
4		that provide generation, transmission, and distribution service to a combination
5		of retail, commercial and industrial customers) have an average rating of "low-
6		AA." The lowest rated large public power utility, other than the Authority, is
7		rated "high-A." The ratings on the Authority's electric revenue bonds are
8		several notches below its peers.
9		
10	Q.	WHAT ARE THE AUTHORITY'S CREDIT RATINGS AND WHAT DO
11		THE AGENCIES SAY ABOUT THE AUTHORITY?
11 12	A.	THE AGENCIES SAY ABOUT THE AUTHORITY? The Authority's bond ratings were affirmed by the three rating agencies in
11 12 13	A.	THE AGENCIES SAY ABOUT THE AUTHORITY? The Authority's bond ratings were affirmed by the three rating agencies in November 2014 at "Baa1" by Moody's Investor Service ("Moody's"), "A-" by
11 12 13 14	A.	THE AGENCIES SAY ABOUT THE AUTHORITY?The Authority's bond ratings were affirmed by the three rating agencies inNovember 2014 at "Baa1" by Moody's Investor Service ("Moody's"), "A-" byStandard and Poor's Ratings Services ("S&P"), and "A-" by Fitch Ratings
 11 12 13 14 15 	A.	THE AGENCIES SAY ABOUT THE AUTHORITY? The Authority's bond ratings were affirmed by the three rating agencies inNovember 2014 at "Baa1" by Moody's Investor Service ("Moody's"), "A-" byStandard and Poor's Ratings Services ("S&P"), and "A-" by Fitch Ratings("Fitch"). Each of the agencies also assigned an "outlook" to their credit
 11 12 13 14 15 16 	A.	THE AGENCIES SAY ABOUT THE AUTHORITY? The Authority's bond ratings were affirmed by the three rating agencies inNovember 2014 at "Baa1" by Moody's Investor Service ("Moody's"), "A-" byStandard and Poor's Ratings Services ("S&P"), and "A-" by Fitch Ratings("Fitch"). Each of the agencies also assigned an "outlook" to their creditrating. The outlook indicates the potential direction of the credit rating over
 11 12 13 14 15 16 17 	A.	THE AGENCIES SAY ABOUT THE AUTHORITY?The Authority's bond ratings were affirmed by the three rating agencies inNovember 2014 at "Baa1" by Moody's Investor Service ("Moody's"), "A-" byStandard and Poor's Ratings Services ("S&P"), and "A-" by Fitch Ratings("Fitch"). Each of the agencies also assigned an "outlook" to their creditrating. The outlook indicates the potential direction of the credit rating overthe next six months to two years. Moody's assigned a "stable" outlook at their
 11 12 13 14 15 16 17 18 	A.	THE AGENCIES SAY ABOUT THE AUTHORITY?The Authority's bond ratings were affirmed by the three rating agencies inNovember 2014 at "Baa1" by Moody's Investor Service ("Moody's"), "A-" byStandard and Poor's Ratings Services ("S&P"), and "A-" by Fitch Ratings("Fitch"). Each of the agencies also assigned an "outlook" to their creditrating. The outlook indicates the potential direction of the credit rating overthe next six months to two years. Moody's assigned a "stable" outlook at their"triple-B" category rating while S&P and Fitch assigned "negative" outlooks

1	from Moody's and the other two rating agencies are indicating their "low-A"
2	ratings could go to the "triple-B" category.
3	
4	In their November 2014 rating reports, the agencies made positive comments
5	about certain aspects of the Authority's credit but also echoed the sentiments
6	expressed by PFM in their report. For example, Fitch commented that they
7	view "a number of the restructuring initiatives positively" and noted the
8	Authority's "improved power supply mix, affluent well-diversified customer
9	base, and approved rate mechanism to stabilize sizable fuel and purchased
10	power related cash flow" were positives but also noted that "the Authority
11	remains considerably levered with \$10.2 billion of debt (including capital
12	leases and securitized bonds) and equity capitalization at just 3.6%. Debt per
13	customer is elevated at \$9,173 for fiscal 2013, compared to the "A-" peer
14	median of \$3,403." Fitch further noted that "the adoption of rate-setting and
15	financial policies that are supportive of credit quality consistent with the rating
16	would be viewed positively and could stabilize the outlook." The financial
17	policies outlined in the Rate Plan are designed to address the concerns
18	highlighted by the rating agencies.

1 Q. HOW WOULD HIGHER CREDIT RATINGS BENEFIT THE

2

AUTHORITY'S CUSTOMERS?

3 A. Higher credit ratings translate directly into lower costs of borrowing and less risk for customers, just as higher credit scores benefit a homebuyer seeking a 4 5 mortgage in terms of a lower interest rate. Also, a direct result of achieving 6 the higher ratings will be that the Authority will become less reliant on debt 7 over time, and that the ratio of debt to total assets will decline, since such a financial policy would allow the Authority to fund a larger proportion of its 8 9 capital needs from pay-as-you-go funding, the equivalent of putting a larger 10 down payment on a home.

11

12 Higher bond ratings also translate into better access to short term bank lending 13 and borrowing in the capital markets. The Authority relies on access to the 14 commercial paper market and short-term bank loans to smooth out its cash 15 flow requirements during the year and to fund its capital requirements between 16 long-term bond sales. Access to the commercial paper market and bank lending are necessary to smooth out these swings in short-term financing 17 18 requirements, swings which would otherwise be borne directly by customers, 19 and would result in higher electric rates (to obtain the needed funds or to

1		borrow more costly long-term debt to finance short-term needs). Additionally,
2		the Authority has various contractual obligations with terms directly tied to the
3		Authority's credit ratings. For example, a decline in credit ratings would
4		trigger greater collateral posting under contracts to hedge fuel and purchased
5		power costs and could jeopardize the Authority's ability to maintain such a
6		program to mitigate the effects of volatile commodity costs on customer rates.
7		The potential benefits of higher bond ratings are described further in PFM's
8		report.
9		
10	Q.	HOW WOULD THE AUTHORITY ACHIEVE THE "MID-A" CREDIT
11		RATING TARGET RECOMMENDED BY PFM?
12	A.	The Authority believes it could attain "mid-A" credit ratings within 4-5 years
13		by generating sufficient revenues for a "fixed obligation coverage ratio" of at
14		least 1.45x on Authority debt and 1.25x on both Authority and UDSA debt.
15		Fixed obligations include capitalized leases and other contractual payments
16		that have debt-like fixed costs. The fixed obligation coverage ratio measures
17		the ratio of the cash flow available after the payment of operating expenses to
18		debt and debt-like payments. In our example of the homebuyer, this would be

1	transportation, utilities, and other day-by-day expenses. A ratio of 1.10x
2	would imply that our homeowner's mortgage payment (or Authority's fixed-
3	obligation payments) is equal to roughly 90% of the cash available after
4	payment of day-to-day expenses each month, which leaves only a small
5	cushion for the unexpected.
6	
7	A policy of maintaining minimum fixed obligation coverage in each year is
8	both observable and achievable if the Authority adopts the public power model
9	to determine its revenue requirements as proposed in this Rate Plan, rather than
10	target other financial statistics such as net income in setting electric rates.
11	Under the public power model, the utility directly calculates revenue to
12	provide the level of coverage necessary to maintain its target credit ratings.
13	The Authority proposes to phase-in the financial policy by setting increasing
14	minimum coverage ratios in each year of the Rate Plan until the full target is
15	achieved in 2019, as outlined in Table 2.
16	
17	
18	
19	

		Fixed Obligations	2016	2017	2018	2019
		Authority Debt + Capitalized Leases	1.20x	1.30x	1.40x	1.45x
		Authority Debt + UDSA Debt + Capitalized Leases	1.15x	1.20x	1.25x	1.25x
2						
3		The minimum coverage ratios are calculated	ated on bo	oth Autho	ority-onl	y debt an
4		combined Authority and UDSA bonds be	combined Authority and UDSA bonds because rating agencies and investors			
5		calculate the fixed-obligation coverage ra	calculate the fixed-obligation coverage ratio both ways in making comparison			
6		to other public power utilities. The Authority, through the UDSA, was the first				
7		municipal utility to issue securitization debt in 2013 and remains the only such				
8		municipal utility to have done so to date. The Authority's projected fixed				
9		obligation coverage for the Rate Plan period can be found in PSEG-LI's				
10		Ratemaking and Revenue Requirements	Panel.			
11						
12	Q.	HOW DO THESE COVERAGE LEV	ELS CO	MPARE	TO RA	TING
13		AGENCY CRITERIA AND INDUSTI	RY STAN	DARDS	5?	
14	A.	The Authority's proposed minimum cove	erage ratio	os are bel	low thos	e achieve
15		by the Authority's single-A rated peers.	For exam	ple, the l	Moody's	rating

Table 2: Minimum Fixed Obligation Coverage Ratios

1	criteria for public power issuers ⁶ indicates a fixed charge coverage ratio on
2	combined Authority and UDSA debt of 1.50x to 1.99x for a single-A category
3	rating versus the 1.25x minimum proposed by the Authority. As mentioned
4	earlier, Moody's currently maintains a "triple-B" category rating on the
5	Authority's bonds. In Moody's November 2014 rating report on the
6	Authority, Moody's noted that their rating could rise if "LIPA's fixed
7	obligation charge coverage [on both Authority and UDSA bonds] were to
8	remain above 1.25x" but could decline further into the triple-B category if
9	"fixed obligation charges [on both Authority and UDSA bonds] were to
10	remain below 1.10x." Moody's further estimated that the Authority's 2015
11	coverage of Authority and UDSA fixed obligations would be above 1.15x.
12	Thus, the Authority's proposed minimum fixed obligation ratio of 1.15x for
13	2016, if achieved, is consistent with maintaining its credit ratings in the near
14	term. The Authority's proposed minimum fixed charge ratio of 1.25x by 2018,
15	if achieved, is consistent with at least a "low-A" rating based on Moody's
16	comments.

⁶ Moody's Rating Service, U.S. Public Power Electric Utilities with Generation Ownership Exposure, November 9, 2011.

1		In their November 2014 report on the Authority's bonds, S&P noted that fixed
2		charge coverage [on both Authority and UDSA debt] was 1.1x in 2008-2011,
3		1.0x in 2012 and 1.2x in 2013 and their view was that the pre-2013 coverage
4		levels were "thin for the rating," consistent with their negative outlook on the
5		Authority's credit rating. Based on these comments, the Authority's proposed
6		minimum fixed charge ratio on both Authority and UDSA debt of 1.15x for
7		2016 is low for its current "A-" S&P rating. The improving coverage levels
8		over the Rate Plan are consistent with maintaining the Authority's "A-" rating
9		by S&P but it remains to be seen whether a modest improvement to a 1.25x
10		coverage ratio is sufficient for a "mid-A" S&P rating.
11		
12	Q.	IF THE AUTHORITY'S PROPOSED FIXED OBLIGATION
13		COVERAGE TARGETS ARE LOW FOR A MID-A RATING WHY
14		WILL THE AUTHORITY ACHIEVE SUCH A RATING?
15	A.	One of the benefits of a clear and understandable coverage-based financial
16		policy using the public power model is the greater transparency provided to
17		market participants about the Authority's ratemaking process. In recognition
18		that the Authority's proposed coverage ratios are lower than typical for its
19		desired credit ratings, the Authority also proposes to implement current cost

1	recovery mechanisms, to provide greater confidence to rating agencies,
2	bondholders, and bank lenders that the minimally-necessary coverage targets
3	described previously will be achieved as well as to ensure that current
4	customers are paying the fair cost incurred to provide service and not deferring
5	these costs into future periods. We believe the combination of greater
6	transparency in the rate setting process, including minimum coverage-based
7	financial targets, and greater certainty of achieving those targets through
8	current cost recovery mechanisms, are likely to be sufficient to achieve "mid-
9	A" credit ratings despite our lower than average proposed targets for the
10	desired credit ratings. The alternative would be to target higher coverage
11	ratios, leaving greater room for the unexpected, so our proposed policy is
12	consistent with setting rates at the lowest level consistent with sound fiscal
13	operating practices.
14	

15 Q. IS THE FIXED OBLIGATION COVERAGE RATIO THE ONLY

16 IMPORTANT FINANCIAL RATIO TO ACHIEVE MID-A RATINGS?

A. No, the PFM Report describes a number of financial metrics that are monitored
by the rating agencies and investors, but coverage of fixed obligations is the
most followed and the ratio used first by analysts in reaching credit judgments.

1		In making their recommendation, PFM looked at the impact of the proposed
2		coverage ratios, if achieved, on other financial metrics and concluded that
3		these targets would likely lead to an acceptable range for these other credit
4		metrics for a "mid-A" rating within five years.
5		
6	Q.	WILL THE PROPOSED FINANCIAL POLICIES REDUCE THE
7		AUTHORITY'S LEVEL OF DEBT?
8	A.	The Authority's debt level has been a focus of many stakeholders over time.
9		Uniquely, the Authority started out in 1998 entirely debt funded, as the
10		takeover of the Long Island Lighting Company ("LILCO") was funded
11		entirely by bonds. But rather than evaluate the absolute dollar value of debt,
12		most credit analysts instead look at certain financial metrics such as the
13		amount of debt relative to assets or the amount of debt relative to productive
14		assets (excluding intangible assets like the Authority's Acquisition
15		Adjustment, which was the amount paid for LILCO in excess of book value).
16		For example, a utility that is making productive infrastructure investments to
17		maintain and improve the electric system for its customers may finance part of
18		that investment with debt, causing the dollar value of debt to increase. But the
19		utility also has a new productive asset as well. So much like the homebuyer

1	mentioned earlier, if that buyer puts down a healthy down payment on a house
2	and the monthly payments are affordable relative to their income and
3	expenses, the purchase of the home today may be a prudent and reasonable
4	financial choice rather than waiting to buy the house until sometime in the
5	distant future, deferring any of the benefits of that house until that time, when
6	the homebuyer can pay with cash. The level of debt matters but as important
7	is what the debt is used for and whether the debt payments are reasonable
8	relative to cash flow. In the case of a utility, it is more helpful to examine the
9	trend in the debt-to-assets ratios and the fixed obligation coverage ratios than
10	the absolute value of debt, and a declining debt-to-asset ratio (adding assets
11	faster than debt) is a positive indication over time. The proposed financial
12	policy will achieve a declining debt-to-asset ratio.
13	

14 Q. IS THIS FINANCIAL POLICY AFFORDABLE TO THE

15 **AUTHORITY'S CUSTOMERS?**

A. Adoption of the public power model with the proposed minimum debt service
coverage ratios is actually more affordable than the rate of return rate setting
approach used for IOUs, which is not particularly well-suited to public power
utilities like the Authority. Historically, the Authority has followed a form of

1 regulated utility ratemaking policies by targeting a certain level of net income 2 in each year to set its revenue requirements. The Authority is the only large 3 public power utility we are aware of to use this ratemaking. Over the past 4 several years, as the Authority has worked to transition to its new service 5 provider while maintaining a freeze on its delivery rates, the Authority has 6 incurred significant costs that have been deferred for recovery on an 7 accounting and net income basis through the establishment of regulatory 8 assets. This is traditional ratemaking under the regulated utility paradigm but 9 uncommon for a public power utility and has resulted in lower cash flow and 10 fixed obligation coverage. Those accounting deferrals are now coming due 11 for amortization and must be repaid starting in 2016, causing a significant 12 increase in rate requirements under the regulated utility ratemaking model. 13 However, under the public power model, the Authority would directly target 14 the level of cash flow coverage of fixed obligations necessary to meet its 15 financial objectives, resulting in no significant increase in rates in 2016 due to 16 accounting deferrals as the cash outlays for these costs have already occurred. 17 The Authority would instead look to its current cash expenses and debt 18 payments in setting a prudent financial policy in the same manner as other 19 public power utilities.

HOW MUCH MORE EXPENSIVE WOULD THE REGULATED

2		UTILITY APPROACH TO REVENUE REQUIREMENTS BE?
3	A.	No perfect comparison can be made, because some aspects of the traditional
4		IOU approach are not applicable to the Authority. However, rough estimates
5		can be made by reference to the Authority's projected income statements,
6		which are included in PSEG-LI's Ratemaking and Revenue Requirements
7		Panel. That income statement displays how the Authority's Rate Plan would
8		appear using standard financial reporting conventions. The net income results
9		are summarized in Table 3. The Authority would report a loss of \$56.4 million
10		over the three year Rate Plan period. Under traditional rate-setting policies,
11		the Authority's rates would need to be at least that much higher. In addition,
12		under the IOU model, some allowance needs to be included for setting a
13		positive "net income target." For an IOU, that amount would be set at the
14		utility's allowable return on equity (or profit margin). A similar concept does
15		not exist for the Authority, which is a customer-funded, not-for-profit, public
16		power authority. In the past, including in the Authority's 2015 approved
17		Operating Budget, the Authority has used a \$75 million per year proxy target
18		for net income. Table 3 also provides the results from applying the
19		Authority's prior rate setting philosophy, which is based on the regulated

33

1 **Q.**

1	utility approach, to the Authority's proposed Rate Plan. The implication is that
2	customer rates in aggregate would be \$134 million higher in 2016, \$91 million
3	higher in 2017, and \$57 million higher in 2018 compared to the public power
4	approach proposed in the Rate Plan. Thus the regulated utility approach with
5	the \$75 million net income target used by the Authority in the past would
6	result in delivery rate adjustments as a percentage of total revenues of 5.7%,
7	0.8% and 1.0% versus the 2% per year adjustments as a percentage of total
8	revenues proposed in the Rate Plan ⁷ . The cumulative savings to our customers
9	over the Rate Plan period are \$281 million and delivery rates are 1.6% lower at
10	the end of the Rate Plan period.
11	
12	
13	
14	
15	
16	
17	
18	

⁷ A delivery rate increase of 2 percent per year of total customer bills is the equivalent of 3.8 percent, 3.9 percent, and 3.9 percent increases on the delivery charge in 2016, 2017, and 2018, respectively.

 Table 3: Comparison of Public Power and Net Income Models

	2016	2017	2018	Total
Requested Rate Adjustments				
(as % of Total Bill)	2.0%	2.0%	2.0%	6.0%
Net Income (\$MM)	-\$58.5	-\$16.3	18.4	-\$56.4
Incremental Adjustment (\$MM)				
to Achieve \$75 MM Net Income	\$133.5	\$91.3	\$56.6	\$281.4
Rate Adjustment to Achieve				
\$75 MM Net Income Target				
(as % of Total Bill)	5.7%	0.8%	1.0%	7.6%

1

\mathbf{a}
Z
_

3 Q. DOES THE PUBLIC POWER APPROACH FACILITATE RATE

4 STABILITY AND PREDICTABILITY?

- 5 A. Yes, it does, as evidenced by the Authority's proposed changes in delivery
- 6 rates of 2% per year of total revenues compared to the front-loaded

7 adjustments outlined using a \$75 million net income target.

8

9 Q. ARE NET INCOME LOSSES CONSISTENT WITH SOUND FISCAL

10 **OPERATING PRACTICE?**

11 A. In this case, yes they are. Despite the net income losses, the Authority still

12 produces the increasing minimum fixed obligation coverage ratios outlined in

- 13 Table 2. This is an example of why a net income target is not that useful as a
- 14 rate setting tool for a public power utility because it targets a financial metric

1		that is not a focus of the ratings analysts or investors, who ultimately
2		determine the Authority's borrowing costs. Under the public power model, the
3		Authority's cash flow will improve over the Rate Plan period and the
4		Authority will pay for a greater share of its infrastructure investments from
5		revenues and less from debt. The Authority's situation is unique in that the net
6		income losses are principally caused by non-cash accounting deferrals, which
7		are further described in Authority Witness Kane's testimony. The Authority's
8		cash flow compared to its fixed costs is roughly flat to 2015 levels in 2016 and
9		then steadily improves during the Rate Plan to a level consistent with
10		achieving the Authority's mid-A target credit ratings.
11		
12	Q.	IS CURRENT COST RECOVERY AN ELEMENT OF A SOUND
13		FINANCIAL POLICY FOR THE AUTHORITY?
14	A.	As PFM stated in its report, the willingness of the Authority and regulatory
15		advisors to establish rates that support credit strength is very important. In
16		order to garner the benefits of an improved financial posture, the Authority
17		needs to generate its projected revenues and cover its costs. As PFM
18		explained, "This rating should be attainable if the Authority adopts, and
19		achieves, target financial metrics that are at the low end of the range of other

1	"A" rated utilities, including cost recovery mechanisms that are supportive of
2	the target ratings" (emphasis added).
3	
4	There are three areas of the Authority's delivery rates that have significant
5	unpredictable elements outside of the Authority's control:
6	• Debt service costs;
7	• Power Supply Agreement ("PSA") and LIPA-owned generation costs; and
8	• Storm costs.
9	
10	To achieve the goal of higher credit ratings, the Authority is proposing to
11	revise its rate structure to ensure current recovery of the actual costs incurred
12	for these cost categories. The mechanics of the proposed current cost recovery
13	mechanism (referred to as the Delivery Service Adjustment) are addressed by
14	the PSEG-LI Cost of Service and Rate Design Testimony. Current cost
15	recovery would not increase customer cost over time but will enable the
16	Authority to achieve its minimum financial targets, which are set at a low level
17	for a "single-A" credit rating. The alternative would be to set higher coverage
18	targets to allow for the uncertainty of these costs.

1 2

Q. PLEASE EXPLAIN THE BENEFITS OF CURRENT COST

RECOVERY TO CUSTOMERS.

3 A. As I have explained, public power financial policy depends on giving bondholders enough certainty of the payment of principal and interest on their 4 5 bonds that they will be willing to accept an appropriately lower rate of interest 6 on their bonds. Because we are targeting relatively low coverage ratios for the 7 desired credit ratings, which reduces costs in each year to customers, provision 8 for current cost recovery as proposed will give bondholders certainty that 9 customers will pay the costs incurred to serve them, while assuring customers 10 that they will only pay the costs incurred to serve them, and provides the 11 greatest financial benefits to customers at the lowest fiscally sound electric 12 rates over time.

13

14 Q. HOW UNCERTAIN ARE DEBT SERVICE COSTS DURING THE

15 **RATE PLAN PERIOD?**

A. As stated previously, the Authority is intending to pursue additional
 refinancing of its debt with UDSA securitization bonds during the Rate Plan to
 produce significant reductions in the cost of debt for our customers. We
 anticipate savings from such debt refinancing of \$155 million during the Rate

12	Q.	HOW UNCERTAIN ARE DEBT COSTS AFTER THE RATE PLAN
11		
10		coverage factor on such costs.
9		customers pay the actual costs incurred for debt payments, including the
8		financing strategies. The Delivery Service Adjustment will ensure that our
7		the savings results that can be achieved through refinancing bonds and other
6		reasonable planning assumptions that include some conservatism in terms of
5		rates between now and that time. In the Rate Plan, the Authority has included
4		when the securitization refinancings are executed due to changes in interest
3		There is also uncertainty about how much debt refinancing will be economic
2		refinancings, as proposed in the Governor's Budget on January 21, 2015.
1		Plan. However, the Authority requires statutory authorization to complete the

- 13 **PERIOD?**
- A. In the period after the Rate Plan, the Authority's debt service costs will vary
 with the capital spending and the general level of interest rates. The
 Authority's annual Capital Budgets are subject to review by the DPS and
 approval by the Authority's Board of Trustees. The Authority's Board also
 approves all bond sales and the Office of the State Comptroller reviews and
 approves the sale of Authority bonds. The general level of interest rates will

1		impact the Authority's new bond sales, interest rates on outstanding variable-
2		rate debt, and any potential refinancing opportunities. The Authority utilizes
3		reasonable assumptions for interest rates for planning purposes but has little
4		ability to control market conditions.
5		
6	Q.	WHY DOES THE DELIVERY SERVICE ADJUSTMENT INCLUDE
7		COVERAGE ON DEBT SERVICE COSTS?
8	A.	The calculation of the Authority's revenue requirements includes all expenses,
9		plus debt payments and payments on debt-like obligations (fixed obligation
10		payments), plus a coverage factor on those fixed obligations payments. The
11		coverage factor is essentially a percentage of the fixed obligation payments.
12		As described previously, while the Authority has made what it believes to be
13		reasonable and somewhat conservative estimates for fixed obligation payments
14		in each future year, there are significant uncertainties in those estimates that
15		are outside the control of the Authority. If the Authority could project with
16		certainty the actual level of such fixed obligation payments in each year, it
17		could also project with certainty the coverage component of revenue
18		requirements. Absent such certainty, both the fixed obligation payments and
19		the coverage requirement, which is a percentage of those fixed obligation

1		payments, should both be reflected in the Delivery Service Adjustment based
2		on actual fixed obligation costs incurred. The Delivery Service Adjustment
3		only reflects changes in fixed obligation payments and the proportional
4		increase or decrease in the level of coverage associated with changes in those
5		fixed obligation payments. It does not reflect changes to any other expenses.
6		
7	Q.	CAN YOU DESCRIBE THE POWER SUPPLY AGREEMENT?
8	A.	The Power Supply Agreement with National Grid Generation LLC ("NGG") is
9		for the ongoing use of the legacy generating plants on Long Island. The PSA
10		is a cost-of-service contract, which means that NGG recovers its operating
11		costs plus a return of and on the capital it invests in the plants at rates filed
12		with and approved by the Federal Energy Regulatory Commission ("FERC").
13		Certain costs, including property taxes and pension-related expenses are
14		subject to annual cost adjustment. The PSA is further described in the
15		Testimony of LIPA Witness Shansky and the PSEG-LI Power Supply Panel.
16		The PSA contract is administered by PSEG-LI in accordance with the OSA.
17		
18	Q.	CAN YOU DESCRIBE UNCERTAINTIES AROUND THE COSTS IN
19		THE POWER SUPPLY AGREEMENT?

1	A.	Most power supply costs are recovered from customers on an actual cost basis
2		as part of the Fuel and Purchased Power Adjustment Clause, more commonly
3		known as the Power Supply Charge. The costs associated with the PSA and
4		the Nine Mile Point 2 plant remain within the Authority's delivery rates,
5		although this will be further considered at a later time as described in the
6		PSEG-LI Power Supply Panel testimony. The PSA has an established cost-of-
7		service rate setting process to establish the reasonableness of costs through
8		FERC; however, the costs of the PSA have historically varied from
9		expectation within a range of no greater than 2 percent of budgeted amounts.
10		For example, over the last five years, PSA costs have come in from \$4.5
11		million under budget to \$5.4 million over budget. Obviously there is more
12		uncertainty in making a three-year projection of such costs than in making an
13		annual projection through our normal budgeting cycle.
14		
15		Going forward, there is reason to believe this variation could be wider than the
16		historic level. To focus on one such uncertainty under the PSA contract, I will
17		describe the property tax dispute between the Authority and the taxing
18		authorities in the communities where the generating plants that are part of the
19		PSA are located. The Authority has ongoing litigation to reduce the tax

1		burden on all Long Island customers that is currently being imposed on them
2		by certain taxing jurisdictions, and some allowance for resolution has been
3		included in the revenue requirements for this case. The historical level of
4		these payments are nearly \$200 million annually and in our judgment a fair tax
5		assessment for our customers could be half of that level. For purposes of
6		setting rates, the Authority has assumed very conservative benefits to
7		customers associated with a phase-in of tax reductions in the amount of no
8		savings in 2016, \$8 million in 2017 and \$16 million in 2018. The actual
9		outcome and timing of any benefits from successful litigation or settlement of
10		the outstanding tax disputes cannot be known at this time and actual costs will
11		be reflected through the Delivery Service Adjustment.
12		
13	Q.	HOW UNCERTAIN ARE THE COSTS OF OWNING AND
14		OPERATING AN 18% SHARE OF UNIT 2 OF THE NINE MILE
15		POINT GENERATING STATION?
16	А	The costs of owning and operating the Nine Mile Point generating station have
17		historically averaged within 2 percent of annual budgeted amounts, although
18		there have been larger variances of as much as 10 percent of non-fuel
19		operating costs on both the low and high side. As with PSA costs, obviously

1		there is greater uncertainty in making multi-year projections than we have had
2		historically with annual budget forecasts for the coming year. Additionally,
3		we are advised by PSEG-LI witnesses Paul Napoli and Joseph Trainor that all
4		the costs for owning generation that are included within delivery charges
5		should be handled in the same manner as the costs for the legacy generation
6		represented by the PSA with National Grid.
7		
8	Q.	CAN YOU ADDRESS RECOVERY OF STORM COSTS?
9	A.	Another large uncertainty to the Authority's overall cost of providing safe and
10		reliable service to customers is the projection of storm restoration costs.
11		Customers are fortunate in that the Authority's status as a public power utility
12		makes it eligible for financial reimbursement from FEMA for a percentage of
13		its storm restoration costs that meet certain criteria. Even with the FEMA
14		reimbursements, there are sizable unreimbursed costs in each year that need to
15		be recovered through electric rates, on the order of \$45 million or more per
16		year. However, there is wide variation around that average, with unreimbursed
17		storm restoration costs ranging from \$31 million to \$103 million over the last
18		ten years. With such wide fluctuation, it is not possible to anticipate the single
19		dollar amount that is most appropriate to recover through rates over the three-

1		year Rate Plan or after. Using a current cost recovery mechanism, higher than
2		expected costs would be recovered from customers over time while over-
3		recovery in any year up to a certain dollar amount would be retained in a storm
4		recovery fund to offset future storm-related expenditures. This method of
5		recovery, which balances recovery with predictability for customers, is an
6		appropriate manner to fairly allocate costs over time and is consistent with the
7		public power model of rate setting.
8		
9	Q.	CAN YOU PROVIDE AN ESTIMATE OF HOW THESE CURRENT
10		COST RECOVERY MECHANISMS COULD IMPACT CUSTOMER
11		BILLS?
12	А.	We have budgeted what we believe to be reasonable estimates for these costs –
13		debt service, generation costs, and storm costs for the Rate Plan period. So
14		the "budgeted" variance for these costs during the Rate Plan is zero. The
15		Delivery Service Adjustment would reflect actual costs for these cost
16		categories. The largest potential variance is the refinancing savings available
17		from the UDSA refunding of Authority bonds at a lower cost. The savings
18		from this refunding are summarized in the PSEG-LI Ratemaking and Revenue
19		Requirements Panel. A significant portion of this savings should be known
1	before the adoption of the Rate Plan. Table 4 provides selected analyses for	
---	--	
2	each current cost recovery component. In most years, certain items in a budget	
3	come in above budget while others come in below, so it is likely that an	
4	increase in one component could be partially offset by a decrease in another.	

5

-	
-	
n	
``	

Table 4: Sensitivity Estimates for Delivery Service Adjustment

		U	
			Rate Impact
Component	Scenario	Savings / Cost	% Total Bill
Debt Payments	\$400 Million Borrowing	-\$4 million	-0.1%
	with Interest Rates at 4%		
	\$400 Million Borrowing	+\$4 million	+0.1%
	with Interest Rates at 6%		
Power Supply	Double Projected Property	+\$16 million	-0.4%
Agreement	Tax Savings		
	No Property Tax Savings	- \$16 million	+0.4%
Storm Costs	Storms at or Under Budget	+\$0 million	+0.0%
	or Covered by Reserve		
	Highest Storm Year with	+\$18 million	+0.5%
	No Reserve Balance		

7

8

9 Q. TURNING TO THE SUBJECT OF THE AUTHORITY'S LEVEL OF

10 CHARGES, HAS THE AUTHORITY BEEN ABLE TO LIMIT

11 INCREASES IN ELECTRIC RATES IN RECENT YEARS?

1	A.	Yes, since 2006, the total cost of electricity on Long Island, including both
2		delivery and fuel charges, has increased a total of 2.2 percent compared to a
3		general increase in the cost of living of 16.4 percent. After inflation, the real
4		cost of electricity has decreased by 14.2 percent over the period. Table 5 has
5		a comparison of the Authority's residential electric rates to other major cost
6		categories for urban households as measured by the Bureau of Labor
7		Statistics. Of note, nationwide, the cost of electricity has increased 24 percent
8		since 2006, or approximately 22 percent faster than the Authority's charges.

10	Table 5: Authority Residential Electric Rates and Inflation Since 2006		
	Expense Category	% Increase in	
		Cost Since 2006	
	Long Island Power Authority (Delivery and Energy)	2.2%	
	Medical Care	29.3%	
	Food and Beverages	24.4%	
	Electricity	24.0%	
	Fuels and Utilities	20.0%	
	CPI-Urban Consumers	16.4%	
	Education	16.4%	
	Housing	14.6%	
	Transportation	13.9%	
11	Source: Bureau of Labor Statistics, CPI Detailed Report, December 2006 - December 2014		

13	The Authority maintained a rate freeze at 2012 levels for delivery charges in
14	2013, 2014 and 2015. The Rate Plan proposes delivery rate increases of 2

1		percent per year of total customer bills. With the three-year rate freeze, the
2		delivery rate over this six-year period from 2013 to 2019 will have increased
3		approximately 1 percent per year as a percentage of the total bill, which is less
4		than the current or projected rate of inflation.
5		
6		It is also worth pointing out that the Authority has only increased its delivery
7		rates twice since its inception in 1998 (when rates were lowered by 16.6
8		percent as compared to LILCO rates then in effect). Those two increases were
9		1.9 percent and 1.6 percent of the typical residential bill in 2011 and 2012,
10		respectively.
11		
12	Q.	HOW DO THE AUTHORITY'S RATES COMPARE WITH NEW
13		YORK STATE AVERAGES AS A PERCENTAGE OF INCOME?
14	A.	The Authority's rates for residential electric service are below the statewide
15		average for its Long Island service territory as a percentage of median income
16		(see Table 6). The Authority's customers tend to have higher median incomes
17		and use more electricity than the statewide averages. The median household
18		income for the Authority's service territory in 2012 was estimated at \$87,624
10		compared to a statewide average median income of \$56.357. The average

1	annual electric bill in the Authority's service territory in 2012 was \$1,873
2	compared to a statewide average of \$1,275. Annual use per residential
3	customer averaged 9,845 kilowatt-hours versus a statewide average of 7,116
4	kilowatt-hours. Reflecting all of these differences, the typical electric bill was
5	2.1% of the median household income in Nassau and Suffolk Counties in
6	2012 (the latest year for which statistics are available). This is lower than the
7	statewide average for New York of 2.3% of median income.
8	

 Table 6: Typical Residential Bill and Usage for Authority and New York

	Typical	
	Residential Bill as	
	a percent of	
	Median Household	Annual Use per
Service Territory	Income	Customer KwH
Long Island Power Authority	2.1%	9,845
State of New York	2.3%	7,116

Source: EIA Form 826; U.S. Census Bureau Small Area Income and Poverty Statistics

12 Q. DOES THIS COMPLETE YOUR PRE-FILED DIRECT TESTIMONY

- **AT THIS TIME?**
- 14 A. Yes.

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Matter Number: 15-00262

REBUTTAL TESTIMONY OF THOMAS FALCONE

LONG ISLAND POWER AUTHORITY

JUNE 10, 2015

1	Q.	PLEASE STATE YOUR NAME, TITLE AND BUSINESS ADDRESS.
2	A.	Thomas Falcone, Chief Financial Officer of the Long Island Power Authority
3		(the "Authority") and the Utility Debt Securitization Authority ("UDSA"), 333
4		Earle Ovington Boulevard, Suite 403, Uniondale, New York 11553. My
5		educational background and professional experience are summarized in my
6		pre-filed testimony.
7		
8	Q.	CAN YOU PROVIDE YOUR OVERALL REACTION TO
9		DEPARTMENT STAFF'S TESTIMONY?
10	A.	Yes. I have reviewed the recommendations of the Staff ("Staff") of the New
11		York State Department of Public Service ("Department") related to financial
12		policy and revenue requirements. The Authority welcomes constructive
13		critique, which is essential to our statutory mission of providing safe and
14		reliable service at the lowest rates consistent with sound fiscal operating
15		practices. In particular, we appreciate Staff's analysis of the "public power
16		model" and Delivery Service Adjustment ("DSA") and its recommendation to
17		use this approach to ratemaking for the Authority, which we believe will result
18		in lower cost for our customers over the course of this three-year rate plan and
19		over time, less debt relative to assets, and higher credit ratings.
20		

1	Q.	WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
2	А.	There are two elements of Staff's direct testimony where we agree, but wish to
3		provide clarification so as to ensure we properly reflect revenue requirements
4		and policy goals. Specifically, I discuss:
5		• Staff's recommendation to create a cap on the balance owed to customers
6		in the storm reserve component of the DSA, and to use any amounts in
7		excess of the cap for the benefit of customers, which we believe is both
8		reasonable and desirable, and therefore wish to clarify our understanding of
9		the cap mechanism.
10		• The need for a "second stage" process that updates the Authority's rates to
11		account for items that are uncertain today, but will become known and
12		measurable as 2016 unfolds, as described beginning on line 12 of page 36
13		of Staff's Revised Policy, Overview and Revenue Requirement's Panel
14		("PORR"). The Authority proposes that a "second stage" update process,
15		limited in scope as suggested by Staff, could update the following material
16		costs:
17		• The actual savings in debt service as a result of the two UDSA
18		bond refinancing transactions that the Authority expects to
19		complete by mid-2016;
20		• An update to bond debt service payments, including using a then-
21		current benchmark for yet unissued tax-exempt bonds, as well as

1			the need to adjust debt service payment projections on such
2			unissued bonds for tax-exempt bond market conventions;
3		0	An update to the projection of PSEG Long Island ("PSEG LI")
4			labor costs and associated agreements based upon the then-known
5			costs of the collective bargaining agreement ("CBA") that PSEG LI
6			expects to complete following the expiration of the current CBA on
7			November 12, 2016;
8		0	An update for actual property tax payments-in-lieu-of-taxes
9			("PILOTS"); and
10		0	Costs associated with changes in rules, laws, regulations or orders
11			(or other requirements of the federal, state and local governments or
12			courts) that subsequently impose expenses that were not anticipated
13			in the forecasts upon which the rate plan was developed.
14			
15	Q.	AT PAGI	E 35 OF ITS PREPARED TESTIMONY, THE DELIVERY
16		SERVICI	E ADJUSTMENT AND STORM RESERVE PANEL
17		RECOM	MENDED A MODIFICATION TO THE STORM RESERVE
18		COMPO	NENT OF THE DSA. DO YOU AGREE WITH THAT
19		RECOM	MENDATION?
20	A.	Yes. We l	believe Staff's recommendation to create a cap on the balance owed
21		to custome	ers in 2017 or 2018 is reasonable. As stated in its testimony, "In the

1		event that either of these caps is triggered, we recommend the reserve balance
2		be reset to the base rate allowance level in that rate year and that the
3		difference between rate year allowance and the cap be utilized by LIPA to pay
4		down LIPA's debt, or offset other DSA cost components in the tracking period
5		that the caps are reached."
6		
7	Q.	WHAT IS YOUR UNDERSTANDING OF HOW THE STORM
8		RESERVE TRACKING PROCESS WOULD WORK?
9	A.	Starting in January 2016, the amount of revenue collected through rates each
10		month to satisfy the storm reserve will be added to the Storm Reserve
11		Account. In addition, each month starting in January 2016 the amount of
12		expense incurred to pay for eligible storm costs will be deducted from the
13		Storm Reserve Account. This will create positive amounts (owed to
14		customers) or negative amounts (due from customers) that will accumulate
15		over time, either positively or negatively. As of September 30 th of each year,
16		which is the end of each tracking period, the balance in the Storm Reserve
17		Account will be evaluated. In the event that the amount in the Storm Reserve
18		Account owed to customers exceeds the cap (approximately \$75 million or
19		1.5x the annual recovery level for storms in the year, as recommended by
20		Staff), an adjustment will be triggered which will reduce the balance
21		remaining in the account (owed to customers) to the annual recovery level for

that year (approximately \$50 million), and the excess amount will be returned
 to customers.

3

4

Q. WHAT IS YOUR RECOMMENDED TREATMENT OF THE

5 AMOUNT REMOVED FROM THE STORM RESERVE ACCOUNT?

6 A. Staff recommended that the difference be returned to customers either by 7 reducing debt or reducing the DSA in the subsequent recovery period. The 8 Authority proposes that the downward adjustment in the reserve balance be 9 used to reduce the Authority's debt. The amount removed from the Storm 10 Reserve Account (approximately \$25 million in the example above) would be 11 deposited in the Authority's Construction Fund, which would otherwise have 12 been funded through additional debt. By placing the adjustment directly into 13 the Construction Fund, Staff can verify that the amount was used to reduce 14 borrowing in the year, and was not diverted to any other use. Furthermore, I 15 would emphasize that using the adjustment to reduce borrowings in the year is 16 equivalent to paying down existing debt. It is also more immediate and less 17 expensive than retiring existing debt, since there are logistical and financial 18 hurdles associated with retiring existing debt that introduces delays and 19 additional costs into the process. As described beginning on line 8 of page 27 20 of Staff's Revised Finance and Public Power Panel ("SFPP"), the Authority 21 has high debt levels relative to capitalization, which has been a consistent

1		cause of public discussion. Using lower than expected storm-related costs to
2		reduce debt, should that occur, is consistent with providing a benefit to our
3		customers in the form of lower future electric rates.
4		
5	Q.	WHAT WOULD CHANGE IN THE DRAFT TARIFF LANGUAGE IF
6		YOUR PROPOSAL WERE ACCEPTED?
7	A.	Three clarifying changes to the draft tariff language would be required. First,
8		the statement that the customer contribution to the storm reserve would be
9		added at the beginning of the year should be modified to state that the
10		contribution will be added monthly as they are reflected in rates. Second, the
11		statement that the provisions for the cap be evaluated at the end of each
12		tracking period should be emphasized. We do not think it is appropriate to
13		impose the cap in the middle of the tracking period because a major storm
14		could occur subsequent to the trigger event that would dip further into the
15		storm reserve than intended. Third, explicit wording to indicate that the
16		trigger event will cause the transfer of funds between the Storm Reserve
17		Account and the Construction Fund should be added.
18		

Q. PLEASE COMMENT ON THE PANEL'S RECOMMENDATION THAT STAFF REVIEW THE ANNUAL FILING OF THE DSA.

1	A.	As stated on page 37 of the Panel's prepared testimony, the Panel is
2		requesting that the annual "filing should be submitted to the DPS staff no more
3		than 30 days following the conclusion of each tracking period. $\{\ldots\}$ Staff will
4		report their findings and recommendations to LIPA's Board of Trustees for its
5		consideration one week prior to the annual December meeting of the LIPA
6		Board." Staff's recommendation that it review the calculations supporting the
7		DSA is appropriate, and generally conforms with the timing included in PSEG
8		LI's draft tariff leaves. We would request that the Staff provide its
9		recommendation to the Authority's Board of Trustees by the end of November
10		each year, to allow the Authority staff and the Board time to evaluate the
11		comments and corrections provided by the Staff.
12		
13		Allowing Staff 30 days to review the annual filing should not represent an
14		unreasonable burden on Staff, because it will also be receiving and monitoring
15		the balances in the DSA accounts on a monthly basis, as these items will be
16		separately listed in the Authority's financial results each month. To the extent
17		that the balances due to or due from customers exhibit any unusual or
18		unexpected behavior, Staff will be seeing that progressively through the year,
19		and will have all the information needed, and any concerns can be identified
20		and investigated well before the annual filing is prepared and provided.

Q. STAFF'S FINANCE AND PUBLIC POWER PANEL RECOMMENDED DOWNWARD ADJUSTMENTS TO THE AUTHORITY'S ESTIMATES FOR FUTURE DEBT SERVICE. WHAT ARE THE CAUSES OF THESE REDUCTIONS?

5 A. The downward adjustments to the estimates for future debt service and fixed 6 obligation coverage requirements reflect reduced or deferred capital spending 7 (and thus reduced borrowing) during the rate plan in combination with a 8 reduction to the Authority's interest rate assumptions used for budgeting 9 purposes for future borrowings and outstanding variable rate debt. We agree 10 with the first change—to the extent recommendations are made in this 11 proceeding that result in less future borrowing or debt outstanding, those 12 recommendations should be reflected in the level of projected debt. We also 13 acknowledge the inherent uncertainty around future interest rates and their 14 impact on projected debt service payments and coverage. This inherent 15 uncertainty in future interest rates, as well as the desire that customers pay 16 only the actual costs rather than budgeted interest rates, were among the 17 factors that led the Authority to propose the DSA. Staff supported the 18 Authority's proposed DSA for debt service and fixed obligation coverage. 19

1	Q.	DOES THE AUTHORITY AGREE WITH STAFF'S PROPOSAL TO
2		USE CURRENT INTEREST RATES TO CALCULATE DEBT
3		SERVICE COSTS, AND HENCE REVENUE REQUIREMENTS?
4	A.	Yes. The reductions reflect, as stated on lines 6 and 7 of page 32 of the SFPP
5		Panel "the Department's established methodology of [using] current interest
6		rates," which is based on the Department's belief, as stated on lines 13-15 of
7		page 31 of SFPP, "that current rates are the most accurate predictor of the
8		costs of future debt issuances." In setting the Authority's rates for the coming
9		year, the use of current interest rates as a proxy for the future is a reasonable
10		and less controversial method than debating the merits of alternative
11		projections of this highly uncertain item. For the longer term, however, such
12		as the full three years of the Authority's three-year rate plan, there is a
13		significant risk that current interest rates will underestimate future interest
14		rates in 2017 and 2018.
15		
16	Q.	ARE THERE WAYS TO MITIGATE THE POTENTIAL FOR
17		UNDERESTIMATING DEBT COSTS DURING THE RATE PLAN
18		RELATED TO LOWER INTEREST RATE BUDGET ASSUMPTIONS?
19	A.	Yes. The most effective mitigation is the debt service component of the DSA,
20		which Staff has recommended. Staff suggested another such potential method
21		of mitigation on lines 17-18 of page 33 of SFPP: that "the interest rates should

1	be updated as this proceeding progresses." We concur and believe a final
2	update to interest rates for the rate plan period should be made, in conjunction
3	with Staff, based on then prevailing interest rates as close to the Board's
4	consideration of the rate plan as possible. We recommend a final update
5	reflecting actual known, interest rates in early to mid-November, in
6	anticipation of Board consideration which could occur as late as mid-
7	December 2015.
8	
9	There are several other practical mitigating steps that Staff and the Authority
10	could take. The Authority anticipates completing the first of multiple UDSA
11	refinancings, the savings of which are projected in the rate plan, by October
12	2015. An update after that first financing will permit the actual known interest
13	rate of the first (of several financings) to be reflected in the rate plan.
14	However, this will only reflect changes occurring in 2015—prior to the
15	beginning of the three-year rate plan.
16	
17	Additionally, Staff suggested beginning on line 12 of page 36 of Staff's
18	revised PORR Panel a "second stage" update process, which PSEG LI and the
19	Authority also support as a practical step to mitigate these uncertainties. This
20	"second stage" process amounts to an updating of the delivery rates to be set in
21	this proceeding for January 1, 2017 and January 1, 2018 to promote the use of

1		current, known, and verifiable data and correspondingly avoid basing future
2		rate adjustments on stale and outdated information and projections. This
3		"second stage" update process is consistent with the basic rate framework
4		envisioned by the LIPA Reform Act, as suggested by Staff and endorsed by
5		PSEG LI and the Authority.
6		
7	Q.	WHAT COSTS WOULD BE UPDATED IN A "SECOND STAGE"
8		UPDATE PROCESS IN NOVEMBER 2016?
9	А.	The Authority believes it will have completed the second (of several) UDSA
10		bond refinancings by the fall of 2016. These UDSA refinancings provide
11		significant rate relief during the three-year rate plan period with debt service
12		savings budgeted in our original filing at \$155 million. Therefore, the
13		outcome of the financings is a significant uncertainty in revenue requirements.
14		The availability of these savings is highly dependent upon future market
15		conditions. Additionally, the Authority will have completed the issuance of
16		certain other Authority bonds projected in the rate plan to finance capital
17		additions and refinance variable-rate debt. Second, the effect of then-
18		prevailing interest rates on the Authority's variable-rate debt as well as then-
19		current market long-term borrowing rates for future projected borrowings in
20		2017 and 2018 could be reflected at that time. Third, we expect that PSEG LI
21		will have completed its negotiation of a new CBA with its union-represented

1		workforce by this time, and definitive updates to labor costs and associated
2		agreements should be known. Fourth, more up-to-date and complete
3		information will be available on the status of the property tax PILOTS to be
4		paid on the Authority's transmission and distribution property. We would also
5		include the quantifiable costs of any new legislative, regulatory, or court
6		imposed costs that become known subsequent to the adoption of the rate plan.
7		We suggest that PSEG LI and the Authority submit to Staff for its review a
8		"second stage" submittal, covering these five items, to update base rates to be
9		effective on January 1, 2017 and January 1, 2018.
10		
11	Q.	DO YOU HAVE A RECOMMENDATION ON HOW THIS "SECOND
12		STAGE" UPDATE PROCESS WOULD WORK?
12 13	A.	STAGE" UPDATE PROCESS WOULD WORK? Yes. I recommend that the Authority and PSEG LI prepare a submittal that
12 13 14	A.	STAGE" UPDATE PROCESS WOULD WORK? Yes. I recommend that the Authority and PSEG LI prepare a submittal that updates the base rates for the above five quantifiable items, as recommended
12 13 14 15	A.	STAGE" UPDATE PROCESS WOULD WORK?Yes. I recommend that the Authority and PSEG LI prepare a submittal thatupdates the base rates for the above five quantifiable items, as recommendedby the Department and designated by the Board of Trustees in its December
12 13 14 15 16	A.	STAGE" UPDATE PROCESS WOULD WORK?Yes. I recommend that the Authority and PSEG LI prepare a submittal thatupdates the base rates for the above five quantifiable items, as recommendedby the Department and designated by the Board of Trustees in its December2015 decision on the three-year rate plan. The submittal will address only
12 13 14 15 16 17	A.	STAGE" UPDATE PROCESS WOULD WORK?Yes. I recommend that the Authority and PSEG LI prepare a submittal thatupdates the base rates for the above five quantifiable items, as recommendedby the Department and designated by the Board of Trustees in its December2015 decision on the three-year rate plan. The submittal will address onlythose issues designated by the Trustees and will conform to the calculations
12 13 14 15 16 17 18	A.	STAGE" UPDATE PROCESS WOULD WORK?Yes. I recommend that the Authority and PSEG LI prepare a submittal thatupdates the base rates for the above five quantifiable items, as recommendedby the Department and designated by the Board of Trustees in its December2015 decision on the three-year rate plan. The submittal will address onlythose issues designated by the Trustees and will conform to the calculationsapproved by the Trustees in their December 2015 resolution adopting the
 12 13 14 15 16 17 18 19 	A.	STAGE" UPDATE PROCESS WOULD WORK?Yes. I recommend that the Authority and PSEG LI prepare a submittal thatupdates the base rates for the above five quantifiable items, as recommendedby the Department and designated by the Board of Trustees in its December2015 decision on the three-year rate plan. The submittal will address onlythose issues designated by the Trustees and will conform to the calculationsapproved by the Trustees in their December 2015 resolution adopting thethree-year rate plan. I propose that the "second stage" submittal be provided to
 12 13 14 15 16 17 18 19 20 	A.	 STAGE" UPDATE PROCESS WOULD WORK? Yes. I recommend that the Authority and PSEG LI prepare a submittal that updates the base rates for the above five quantifiable items, as recommended by the Department and designated by the Board of Trustees in its December 2015 decision on the three-year rate plan. The submittal will address only those issues designated by the Trustees and will conform to the calculations approved by the Trustees in their December 2015 resolution adopting the three-year rate plan. I propose that the "second stage" submittal be provided to the Trustees and Staff on or about November 17, 2016. Of note, PSEG LI's

		reflects that updated labor costs may not be known until mid-November 2016,
2		Staff and the Board would have approximately 30 days to review the
3		calculation for conformance with the Board's resolution on the three-year rate
4		plan, and Staff could provide a recommendation to the Trustees prior to their
5		regularly scheduled meeting, which would most likely be held in mid-
6		December 2016. The Board of Trustees would then be asked to vote on the
7		"second stage" update to the rates for 2017 and 2018 at that December 2016
8		meeting, the same meeting at which the Board would be asked to approve the
9		annual budget for 2017.
10		
11	Q.	HAVE YOU PREPARED AN EXAMPLE OF THE FORM OF THE
11 12	Q.	HAVE YOU PREPARED AN EXAMPLE OF THE FORM OF THE "SECOND STAGE" UPDATE SUBMITTAL THAT THE BOARD OF
11 12 13	Q.	HAVE YOU PREPARED AN EXAMPLE OF THE FORM OF THE "SECOND STAGE" UPDATE SUBMITTAL THAT THE BOARD OF TRUSTEES MIGHT ADOPT IN REGARD TO THE THREE-YEAR
11 12 13 14	Q.	HAVE YOU PREPARED AN EXAMPLE OF THE FORM OF THE "SECOND STAGE" UPDATE SUBMITTAL THAT THE BOARD OF TRUSTEES MIGHT ADOPT IN REGARD TO THE THREE-YEAR RATE PLAN?
11 12 13 14 15	Q. A.	 HAVE YOU PREPARED AN EXAMPLE OF THE FORM OF THE "SECOND STAGE" UPDATE SUBMITTAL THAT THE BOARD OF TRUSTEES MIGHT ADOPT IN REGARD TO THE THREE-YEAR RATE PLAN? Yes. Exhibit (TF-1 Rebuttal) provides a suggested format for the "second
11 12 13 14 15 16	Q. A.	 HAVE YOU PREPARED AN EXAMPLE OF THE FORM OF THE "SECOND STAGE" UPDATE SUBMITTAL THAT THE BOARD OF TRUSTEES MIGHT ADOPT IN REGARD TO THE THREE-YEAR RATE PLAN? Yes. Exhibit (TF-1 Rebuttal) provides a suggested format for the "second stage" update that the Department could recommend and the Trustees could
 11 12 13 14 15 16 17 	Q. A.	 HAVE YOU PREPARED AN EXAMPLE OF THE FORM OF THE "SECOND STAGE" UPDATE SUBMITTAL THAT THE BOARD OF TRUSTEES MIGHT ADOPT IN REGARD TO THE THREE-YEAR RATE PLAN? Yes. Exhibit (TF-1 Rebuttal) provides a suggested format for the "second stage" update that the Department could recommend and the Trustees could consider for adoption in December 2015. It lays out what would be the then-
 11 12 13 14 15 16 17 18 	Q. A.	 HAVE YOU PREPARED AN EXAMPLE OF THE FORM OF THE "SECOND STAGE" UPDATE SUBMITTAL THAT THE BOARD OF TRUSTEES MIGHT ADOPT IN REGARD TO THE THREE-YEAR RATE PLAN? Yes. Exhibit (TF-1 Rebuttal) provides a suggested format for the "second stage" update that the Department could recommend and the Trustees could consider for adoption in December 2015. It lays out what would be the then-known parameters and calculations that could be considered, and how the
 11 12 13 14 15 16 17 18 19 	Q.	 HAVE YOU PREPARED AN EXAMPLE OF THE FORM OF THE "SECOND STAGE" UPDATE SUBMITTAL THAT THE BOARD OF TRUSTEES MIGHT ADOPT IN REGARD TO THE THREE-YEAR RATE PLAN? Yes. Exhibit (TF-1 Rebuttal) provides a suggested format for the "second stage" update that the Department could recommend and the Trustees could consider for adoption in December 2015. It lays out what would be the then- known parameters and calculations that could be considered, and how the results of those calculations could be translated into base rates. This is only

Matter Number: 15-00262 Rebuttal Testimony of Thomas Falcone

1		forward to discussing and reviewing this recommendation with Staff and other
2		parties to reach a common understanding.
3		
4	Q.	HOW WOULD EXHIBIT (TF-1 REBUTTAL) BE USED FOR THE
5		PROPOSED "SECOND STAGE" PROCESS?
6	A.	Exhibit (TF-1 Rebuttal) includes columns for "projected costs" in 2017
7		and 2018. The intent would be that these columns would be initially populated
8		with the values approved by the Authority's Trustees in its decision on the
9		three-year rate plan. At the time of the proposed "second stage" submittal, the
10		values for these approved items would be populated with the then-known and
11		measurable values, and the difference from the projected values would be
12		applied to the rates to become effective in 2017 and 2018.
13		
14	Q.	WHY IS 2016 SHOWN ON EXHIBIT (TF-1 REBUTTAL)?
15	A.	My reason for including 2016 on the exhibit is to suggest that the same
16		methodology being considered for the "second stage" submittal could be
17		applied to the planned update for 2016 through 2018 that is expected to occur
18		in the November 2015 timeframe. In this application, the "projected" columns
19		could be developed from the values contained in the Department's September
20		28 th recommendation, in anticipation of the Trustee's final decision, or using a
21		range for values for cost items that are still unknown at that point in the

1 process, such as the outcome of the first UDSA refinancing, which likely be 2 completed in October 2015. 3 **O**. WHAT PROVISIONS WOULD BE MADE FOR PUBLIC REVIEW 4 5 AND COMMENT ON THE "SECOND STAGE" PROCESS? 6 A. I recommend that the "second stage" update process be noticed in the State 7 Register and that public comment sessions be held in both Nassau and Suffolk 8 counties as part of the Authority's annual budget process. The Authority 9 already provides for public comment on its annual budget prior to Board 10 consideration, and the update to the Authority's rates would be an integral part 11 of that process. The Board resolution accepting, rejecting or modifying the 12 Authority's base rates for delivery service on the basis of the "second stage" 13 updates would be adopted in mid-December 2016 for rates to be in effect on 14 January 1, 2017 and January 1, 2018. 15 16 Q. DO YOU HAVE SOME SUGGESTED WORDING FOR CHANGES IN 17 RULES, LAWS, REGULATIONS OR COURT ORDERS THAT COULD 18 **BE INCLUDED IN THE AUTHORIZATION FOR A SUBSUQUENT PROCESS?** 19

Matter Number: 15-00262 Rebuttal Testimony of Thomas Falcone

15

1	А.	Yes. I recommend that the authorization for the "second stage" or other
2		process included in the Trustee's resolution adopting the three-year rate plan
3		include the following provision.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		Legislative, Regulatory and Related Actions. If at any time any rule, law, regulation or order, or other requirement or interpretation (or any repeal or amendment of an existing rule, regulation, order or other requirement) of the federal, State of New York, or local government or courts, results in a change in the Authority's annual costs or expenses not anticipated in the forecasts upon which the Rate Plan is based, The Authority Board of Trustees, pursuant to its obligations under the Long Island Power Authority Reform Act (LRA), and such other legal obligations as may be applicable, may make such amendments to the Rate Plan as in its judgment are warranted under the circumstances. In the event the Authority finds it necessary to invoke this provision, it shall give notice to the Long Island Office of the DPS, and afford the DPS an opportunity to make recommendations pursuant to the LRA. Such amendments to the Rate Plan would be deemed part of the decision under the Rate Plan, and additional public notice would not be required under the terms of the LRA except as may be considered necessary as part of the Authority's obligations for public notice
22 23 24		regarding its annual budget process.
25	Q.	DOES THE AUTHORITY HAVE SUGGESTIONS CONCERNING
26		FUTURE INTEREST RATE UPDATES?
27	A.	Yes. First, as both the Authority staff and Department Staff have pointed out,
28		there are a number of elements of the Authority's cost of service that vary with

29 interest rates. The key components include:

1	• Debt service payments on the Authority's fixed and variable rate debt, and
2	related credit facilities (notes, commercial paper and revolving bank
3	facilities);
4	• Debt service payments on the UDSA debt;
5	• Interest rate swap payments;
6	• Interest income on the Operating Fund and Rate Stabilization Fund; and
7	• Fixed Obligation Coverage requirements on the Authority's debt service.
8	
9	All of these items should be updated in the "second stage" process to reflect
10	both the latest known costs and the "then current" interest rate environment.
11	Second, there is a generally accepted municipal bond market information
12	service available in Municipal Market Data (the "MMD Index"), which the
13	Authority suggests should be used to estimate the Authority's borrowing costs
14	for the purpose of future updates to debt service costs, whether during this
15	proceeding or in a "second stage" process. If requested, the Authority will
16	make sure that Staff has access to this resource. The Authority's borrowing
17	cost can be better approximated by using the MMD Index to adjust for the
18	premium coupons commonly used in the tax-exempt bond market and their
19	impact on principal and interest payments.
20	

1	Q.	CAN YOU DESCRIBE THE AUTHORITY'S INTEREST RATE SWAP
2		CONTRACTS AND HOW THEY VARY WITH INTEREST RATES?
3	A.	The Authority has two types of interest rate swaps: (i) floating-to-fixed rate
4		swaps, that convert the payments on its variable-rate debt to a fixed rate; and
5		(ii) basis swaps, that exchange payments based on the relationship between
6		two floating rates indices. Exhibit (TF-2 Rebuttal) is the report on interest
7		rate swap contracts to the Authority's Board as of March 31, 2015. The
8		projected cost of variable rate bonds must include the net effect of these
9		interest rate swaps.
10		
11	Q.	CAN YOU DESCRIBE THE AUTHORITY'S INVESTMENT RETURN
11 12	Q.	CAN YOU DESCRIBE THE AUTHORITY'S INVESTMENT RETURN ASSUMPTIONS AND HOW THEY VARY WITH INTEREST RATES?
11 12 13	Q. A.	CAN YOU DESCRIBE THE AUTHORITY'S INVESTMENT RETURN ASSUMPTIONS AND HOW THEY VARY WITH INTEREST RATES? Yes. The Authority has estimated its cash balances and interest earnings
11 12 13 14	Q. A.	 CAN YOU DESCRIBE THE AUTHORITY'S INVESTMENT RETURN ASSUMPTIONS AND HOW THEY VARY WITH INTEREST RATES? Yes. The Authority has estimated its cash balances and interest earnings during the rate plan period using interest rate budget assumptions that increase
11 12 13 14 15	Q. A.	CAN YOU DESCRIBE THE AUTHORITY'S INVESTMENT RETURN ASSUMPTIONS AND HOW THEY VARY WITH INTEREST RATES? Yes. The Authority has estimated its cash balances and interest earnings during the rate plan period using interest rate budget assumptions that increase over the period consistent with the increasing interest expense assumptions on
 11 12 13 14 15 16 	Q. A.	CAN YOU DESCRIBE THE AUTHORITY'S INVESTMENT RETURN ASSUMPTIONS AND HOW THEY VARY WITH INTEREST RATES? Yes. The Authority has estimated its cash balances and interest earnings during the rate plan period using interest rate budget assumptions that increase over the period consistent with the increasing interest expense assumptions on its variable-rate debt. In this manner, the variances between assumptions and
11 12 13 14 15 16 17	Q. A.	CAN YOU DESCRIBE THE AUTHORITY'S INVESTMENT RETURN ASSUMPTIONS AND HOW THEY VARY WITH INTEREST RATES? Yes. The Authority has estimated its cash balances and interest earnings during the rate plan period using interest rate budget assumptions that increase over the period consistent with the increasing interest expense assumptions on its variable-rate debt. In this manner, the variances between assumptions and actuals on short-term interest earnings partially offset similar variances on
 11 12 13 14 15 16 17 18 	Q. A.	CAN YOU DESCRIBE THE AUTHORITY'S INVESTMENT RETURN ASSUMPTIONS AND HOW THEY VARY WITH INTEREST RATES? Yes. The Authority has estimated its cash balances and interest earnings during the rate plan period using interest rate budget assumptions that increase over the period consistent with the increasing interest expense assumptions on its variable-rate debt. In this manner, the variances between assumptions and actuals on short-term interest earnings partially offset similar variances on variable-rate debt expense. Modifying the expense of variable-rate debt but
 11 12 13 14 15 16 17 18 19 	Q. A.	CAN YOU DESCRIBE THE AUTHORITY'S INVESTMENT RETURN ASSUMPTIONS AND HOW THEY VARY WITH INTEREST RATES? Yes. The Authority has estimated its cash balances and interest earnings during the rate plan period using interest rate budget assumptions that increase over the period consistent with the increasing interest expense assumptions on its variable-rate debt. In this manner, the variances between assumptions and actuals on short-term interest earnings partially offset similar variances on variable-rate debt expense. Modifying the expense of variable-rate debt but not the related assumptions for income understates the net cost of the variable-

1	Q.	SHOULD THE DSA CAPTURE CHANGES IN INTEREST RATES FOR
2		INTEREST RATE SWAPS AND CASH BALANCES?
3	A.	Yes. The effect of interest rate assumptions on interest rate swaps and the
4		earnings on cash balances should be part of the debt service component of the
5		DSA. The DSA is intended to capture the net effect of the swings in interest
6		rates on revenue requirements. Changes in interest rate assumptions on
7		variable-rate debt are partially offset by changes in receipts on interest rate
8		swaps and interest earnings on cash balances. The Authority suggests that the
9		debt service component of the DSA exclude earnings on dedicated funds and
10		irrevocable trusts, such as the Nuclear Decommissioning Trust Fund, for the
11		Authority's ownership interest in Nine Mile Point generating station.
12		
13	Q.	SHOULD THE KNOWN AND MEASURABLE IMPACTS OF FUTURE
14		UDSA REFINANCINGS BE INCLUDED IN THE "SECOND STAGE"
15		ADJUSTMENT?
16	A.	Yes.
17		
18	Q.	CAN YOU DESCRIBE THE UDSA REFINANCINGS?
19	A.	The UDSA transactions refinance Authority bonds, which carry credit ratings
20		of Baa1, A-, and A-, respectively, with UDSA bonds that carry Aaa (sf), AAA
21		(sf), and AAA (sf) ratings. The Authority budgeted \$155 million of lower debt

1	service payments during the three-year rate plan period in its original filing
2	from the refinancing of up to \$2.5 billion of Authority bonds with UDSA
3	bonds. There are approximately \$2.5 billion of Authority fixed-rate bonds that
4	are callable (<i>i.e.</i> , can be bought back from their owners at their face value of
5	100 or "par") between 2016 and 2019. Therefore, the Authority can issue
6	UDSA bonds at lower interest rates and use the proceeds to buy back the
7	Authority bonds that pay higher interest rates at par. The Authority estimated
8	in the rate plan filing that the lower interest rates from the UDSA debt would
9	allow the Authority to realize roughly \$155 million in reduced principal and
10	interest payments on the UDSA refunding bonds relative to the currently
11	outstanding Authority bonds during the rate plan. With the additional benefit
12	of lower coverage requirements on UDSA bonds, \$155 million of debt service
13	savings provides a total reduction in revenue requirements of \$332 million for
14	our customers during the three-year rate plan. As mentioned previously, the
15	Authority expects to refinance these bonds in several refinancing transactions
16	during the rate plan period (given their various call dates) so as to maximize
17	savings for our customers. The Authority was statutorily authorized to issue
18	additional UDSA bonds by a bill passed by the New York Legislature and
19	signed by the Governor in April 2015, and Authority staff plans to seek a
20	financing order to permit the first of these refinancings from the Board of
21	Trustees at its June 26, 2015 meeting.

1Q.IS IT TYPICAL TO FILE A RATE PLAN WITH PROJECTIONS OF2SAVINGS FROM FUTURE REFINANCINGS?

3 A. While it is not unusual for a municipal utility to take projections of savings on 4 planned refinancings into account in their budgeting processes, I am advised 5 by counsel that it would be more customary in this type of rate proceeding to 6 reflect the currently scheduled costs on the outstanding bonds rather than to 7 budget uncertain savings from refinancing those bonds at some point in the 8 future (for example, the last of these UDSA refinancings may not be 9 completed until 2017 or 2018). However, this was among the reasons the 10 Authority proposed the debt service component of the DSA—so that 11 customers would see the benefit of the refinancings in electric rates and pay 12 the actual debt service cost as incurred. The Authority submitted a rate plan 13 filing that takes into account the expected savings, and will then employ the 14 "second stage" filing and DSA, if adopted, to adjust for the actual amount of 15 savings achieved during the rate plan period relative to the budgeted amount.

16

17 Q. CAN YOU DESCRIBE THE METHOD USED TO ARRIVE AT THE

18

\$155 MILLION OF BUDGETED DEBT SERVICE SAVINGS?

A. Yes. The \$155 million of budgeted debt service savings reflected in our
original filing was a reasonable projection of the savings that may be available
from the UDSA refinancings, taking into account various structuring

	limitations and policy goals of the Authority. Specifically, the Authority
	utilized current interest rates as of the rate plan filing in January 2015, but as
	with all other interest rate assumptions described previously, adjusted those
	current interest rates to reflect a rising interest rate environment consistent
	with market expectations. The Authority then used those projected interest
	rates to select bond refinancing candidates in a manner that would optimize
	savings over time. So the Authority's interest rate assumptions for the UDSA
	refinancings were based on market expectations for interest rates at the times
	in the future when the Authority expects to refinance the bonds. Combined
	with the debt service component of the DSA to true up to the actual cost
	incurred, this appeared to us to be a fiscally prudent approach, while also
	providing a more probable estimate of revenue requirements.
Q.	WILL ALL OF THE SAVINGS FROM THE UDSA REFINANCINGS
	BE REALIZED DURING THE RATE PLAN PERIOD?
A.	At the time of the rate plan filing, the "present value" savings or difference
	between the principal and interest payments on the outstanding Authority
	bonds and the projected payments on the new UDSA bonds over the life of the
	bonds using budgeted interest rates was approximately \$192 million. Of that,
	\$155 million was budgeted to be realized during the three-year rate plan
	period. This allocation of the savings between the rate plan years and future
	Q . A.

1		periods reflected both bond structuring limitations and policy goals. On
2		structuring limitations, the UDSA refinancings do not target a single Authority
3		bond, but rather up to 180 individual Authority bond maturities. The
4		refinancing of these 180 individual Authority bond maturities will be
5		accomplished with the sale of approximately 50 new UDSA bond maturities.
6		The refinancing has to pass various rating agency "stress tests" in order to
7		achieve the "triple-A" bond ratings, so the structuring of the transaction is
8		complex, taking into account many constraints. The policy goals served by the
9		UDSA refinancings are discussed below.
10		
11	Q.	ARE DEBT SERVICE SAVINGS THE ONLY SAVINGS CUSTOMERS
11 12	Q.	ARE DEBT SERVICE SAVINGS THE ONLY SAVINGS CUSTOMERS EXPERIENCE FROM THE UDSA REFINANCINGS?
11 12 13	Q. A.	ARE DEBT SERVICE SAVINGS THE ONLY SAVINGS CUSTOMERS EXPERIENCE FROM THE UDSA REFINANCINGS? No. As mentioned previously, our customers also benefit from reduced
11 12 13 14	Q. A.	ARE DEBT SERVICE SAVINGS THE ONLY SAVINGS CUSTOMERSEXPERIENCE FROM THE UDSA REFINANCINGS?No. As mentioned previously, our customers also benefit from reducedrevenue requirements from lower "coverage" requirements on the UDSA
 11 12 13 14 15 	Q. A.	ARE DEBT SERVICE SAVINGS THE ONLY SAVINGS CUSTOMERSEXPERIENCE FROM THE UDSA REFINANCINGS?No. As mentioned previously, our customers also benefit from reducedrevenue requirements from lower "coverage" requirements on the UDSAbonds. As described above, approximately \$155 million of the \$332 million of
 11 12 13 14 15 16 	Q. A.	ARE DEBT SERVICE SAVINGS THE ONLY SAVINGS CUSTOMERS EXPERIENCE FROM THE UDSA REFINANCINGS? No. As mentioned previously, our customers also benefit from reduced revenue requirements from lower "coverage" requirements on the UDSA bonds. As described above, approximately \$155 million of the \$332 million of budgeted savings during the rate plan is from lower debt service requirements.
 11 12 13 14 15 16 17 	Q. A.	ARE DEBT SERVICE SAVINGS THE ONLY SAVINGS CUSTOMERS EXPERIENCE FROM THE UDSA REFINANCINGS? No. As mentioned previously, our customers also benefit from reduced revenue requirements from lower "coverage" requirements on the UDSA bonds. As described above, approximately \$155 million of the \$332 million of budgeted savings during the rate plan is from lower debt service requirements. The remaining \$177 million is from lower coverage requirements. The lower
 11 12 13 14 15 16 17 18 	Q. A.	ARE DEBT SERVICE SAVINGS THE ONLY SAVINGS CUSTOMERS EXPERIENCE FROM THE UDSA REFINANCINGS? No. As mentioned previously, our customers also benefit from reduced revenue requirements from lower "coverage" requirements on the UDSA bonds. As described above, approximately \$155 million of the \$332 million of budgeted savings during the rate plan is from lower debt service requirements. The remaining \$177 million is from lower coverage requirements. The lower coverage requirements are realized for the entire term the UDSA bonds remain
 11 12 13 14 15 16 17 18 19 	Q. A.	ARE DEBT SERVICE SAVINGS THE ONLY SAVINGS CUSTOMERS EXPERIENCE FROM THE UDSA REFINANCINGS? No. As mentioned previously, our customers also benefit from reduced revenue requirements from lower "coverage" requirements on the UDSA bonds. As described above, approximately \$155 million of the \$332 million of budgeted savings during the rate plan is from lower debt service requirements. The remaining \$177 million is from lower coverage requirements. The lower coverage requirements are realized for the entire term the UDSA bonds remain outstanding.

1Q.IS EVERY AUTHORITY BOND MATURITY REFINANCED WITH2AN IDENTICAL UDSA BOND MATURITY?

3 A. No. Given the large number of bonds involved and the need to meet rating 4 agency stress tests, various Authority bond maturities are refinanced by each 5 UDSA bond maturity, and each UDSA bond maturity may only refinance part 6 of an Authority bond maturity. The overall effect is to provide our customers 7 with lower debt service payments (principal and interest) over the life of the 8 bonds and present value savings, but for the reasons mentioned and others, it is 9 not a like-for-like refinancing of one bond with another. Instead, the principal 10 and interest payments on the UDSA bonds have to be re-amortized at current 11 market interest rates at the time of each financing to produce the desired effect 12 over the life of the bonds. Based on market rates at the time of issuance, the 13 UDSA bonds will be able to generate a certain amount of net present value 14 savings, and a portion of this present value savings can be structured into the 15 rate plan period.

16

17 Q. GIVEN THESE FACTORS THAT INFLUENCE THE UDSA

18 REFINANCINGS—THE PREVAILING LEVEL OF INTEREST RATES 19 FOR THE AUTHORITY AND UDSA DEBT, THE SAVINGS ON FIXED 20 OBLIGATION COVERAGE, AND RESTRUCTURING OF PRINCIPAL

1		PAYMENTS TO MEET MARKET EXPECTATIONS—CAN YOU
2		DESCRIBE THE POLICY GOALS FOR THE UDSA REFINANCINGS?
3	А.	Yes. The Authority expects to structure the realization of the present value
4		savings from refinancing the Authority bonds with UDSA bonds in such a way
5		as to meet cash flow savings and customer rate objectives over time, balanced
6		with the need to meet the securitization structuring requirements imposed by
7		the rating agencies. The customer rate objectives include providing significant
8		savings during the rate plan period from the refinancings while not causing a
9		spike or "cliff" in revenue requirements at the end of the rate plan.
10		
11		This policy issue can be seen in the graph contained in Exhibit (TF-3
12		Rebuttal). The solid line in that graph shows the Authority's existing debt
13		service on bonds (<i>i.e.</i> , without the benefit of the 2015 and 2016 UDSA
14		refinancings). Note that additional refinancings may occur beyond 2016. Also
15		note, among other things, that the existing level of debt service payments is
16		approximately \$562 million in 2019, and stays around that level for the
17		remainder of the chart. Our proposed securitization plan, as included in the
18		rate plan filed in January, was to reduce the debt service payments
19		significantly in 2016, 2017 and 2018, reduce them somewhat in 2019, and
20		largely maintain the status quo thereafter. With lower interest rates, we have
21		the potential to reduce debt service in 2019 below what was originally

1		planned, and reduce debt service in 2020, before returning to the originally
2		planned levels in 2021. This smoothing of the increase in debt service costs
3		would create a more affordable rate path for the Authority's customers in the
4		future, and represents a more reasonable strategy for the use of additional
5		interest rate savings that might be achieved.
6		
7	Q.	CAN YOU PROVIDE AN UPDATE TO THE UDSA REFINANCING
8		SAVINGS ASSUMING ALL FUTURE REFINANCINGS ARE SOLD AT
9		TODAY'S INTEREST RATES?
10	A.	Yes. Present value savings using current market rates as of May 26, 2015
11		would be approximately \$249 million as compared to the \$192 million filed in
12		January 2016. The transaction would provide \$172 million of debt service
13		savings during the rate plan years, but would also provide an additional \$45
14		million of cash flow savings in the two-year period beyond the rate plan, with
15		a more gradual phase-in of any difference in revenue requirements. A
16		comparison of the cash flow savings as filed in January and as of today
17		appears on the second page of Exhibit (TF-3 Rebuttal). I specifically draw
18		attention to the change in debt service for 2019; this is where the majority of
19		the additional savings from lower interest rates would occur, if interest rates
20		remain lower than originally projected. The actual savings will not be known
21		until all of the refinancings occur. We expect the majority of the refinancings

1		to occur in 2015 and 2016, but the balance may not occur until later in the rate
2		plan period.
3		
4	Q.	CAN YOU DESCRIBE THE TAX-EXEMPT BOND BENCHMARK
5		MMD INDEX?
6	A.	Yes. The MMD Index is used by virtually all tax-exempt bond market
7		participants, including issuers, advisors, broker-dealers and investors. The
8		MMD index is the benchmark index in the tax-exempt municipal bond market,
9		much like U.S. Treasuries are used as the benchmark used by market
10		participants in the taxable bond market. The MMD Index is published daily
11		and there are releases and commentary on the index throughout each trading
12		day. The Index is published for each bond maturity from one to 30 years.
13		There are also indices for various credit rating categories.
14		
15		Tax-exempt bonds are compared to the MMD Index for a like maturity (<i>i.e.</i> , a
16		10-year bond is compared to the 10-year MMD Index). All new bond issue
17		pricing is quoted in terms of a particular bond's "spread to MMD." This refers
18		to the additional yield above the AAA MMD Index a bond pays for that
19		bond's maturity.
20		

1		The Authority proposes to establish debt service estimates that support future
2		borrowing for capital projects and new UDSA refinancings based on the MMD
3		indices on a given day plus an average "spread to MMD." We would calculate
4		the average "spread to MMD" from the Authority's most recent bond sale as
5		applied to each maturity of the "Single-A" MMD Index and the same for
6		UDSA bond sales as applied to the "Double-A" MMD Index. The Authority
7		has included a sample of such calculation in Exhibit (TF-4 Rebuttal). The
8		Authority has filed its revenue requirements assuming its new money bond
9		sales are structured to produce "level debt service" payments (similar to a
10		home mortgage with each year's debt service payments for the bond series
11		being equal) over 30 years with an interest-only period (<i>i.e.</i> , no principal
12		payments) for the first three years.
13		
14	Q.	ARE THERE ANY OTHER ADJUSTMENTS THAT SHOULD BE
15		MADE TO REFLECT THE INTEREST COSTS ON THE
16		AUTHORITY'S DEBT SALES DURING THE RATE PLAN?
17	A.	Yes. As we update the Authority's projected debt service costs for changing
18		interest rates, the Authority's cost of funds must be adjusted to reflect the
19		manner in which municipal bonds are priced and sold, which the Authority
20		accomplishes with its proposed approach using the MMD Index. Specifically,
21		the payments on the Authority's bonds must be adjusted to reflect the initial

1		premium likely to be received when the bond is issued. Failure to make this
2		adjustment will understate the cost. Staff's Exhibit (SFPP-11) proposes a
3		method to update interest rates on future borrowings based on then prevailing
4		market conditions, but does not take this nuance of premium coupons in the
5		tax-exempt bond market into account.
6		
7	Q.	CAN YOU PROVIDE AN EXAMPLE OF THE ADJUSTMENT THAT
8		NEEDS TO BE MADE TO REFLECT BOND PREMIUMS TO
9		FORECAST DEBT SERVICE COSTS ON FUTURE BOND SALES?
10	A.	Yes. As an example, Exhibit (TF-5 Rebuttal) uses the coupons and yields
11		provided in Exhibit (TF-4 Rebuttal) to show debt service payments if the
12		Authority were to seek to raise \$100 million in the bond market at today's
13		bond yields. Of note, the Authority would only issue \$90.2 million of bonds to
14		raise \$100 million of proceeds as the prevailing market coupon is 5.00%,
15		while the stated yields (generally the "yield-to-call" or yield to when the bond
16		becomes callable in ten years) on bonds are less than the 5.00% coupons, and
17		therefore, the bonds have dollar prices above \$100. For example, a bond
18		maturing in 2046 would have a 5.00% coupon with a 4.00 yield-to-call and a
19		dollar price of 108.176. Importantly, the "true interest cost" if all of the bonds
20		remain outstanding to maturity is 4.16%, but the average interest payments in
21		2016 are equivalent to 4.51% of the \$100 million of bond proceeds.

1	The importance of this is that if the Authority were to use Staff's approach to
2	calculate revenue requirements as provided in Staff's Exhibit (SFPP-11)
3	for new money borrowings using the stated yield (which is the yield-to-call,
4	not reflecting a 5% premium coupon) on a 25-year maturity as a proxy for the
5	Authority's borrowing cost (currently 3.93%), it would understate the interest
6	payments to be paid to bondholders during the rate plan years (and therefore
7	revenue requirements) by approximately 58 basis points (0.58%) or 13%,
8	which is the difference between the 4.51% average interest payments on
9	bonds sold today at current market yields and the 3.93% yield to call on a 25-
10	year bond. By 2018, this could understate revenue requirements for the new
11	money borrowing component of debt service costs, using current market rates
12	as provided in this example, by approximately \$9.5 million annually. The
13	Authority's recommendation in this regard is that the Authority assumes the
14	use of prevailing market debt structures and indices that are widely accepted
15	throughout the industry for the purpose of estimating future debt service costs
16	on yet to be issued debt.

17

18 Q. DOES THIS COMPLETE YOUR PRE-FILED REBUTTAL

19 **TESTIMONY AT THIS TIME?**

20 A. Yes.

30

JUDGE PHILLIPS: The next witness testimony that was going

to be entered by affidavit is listed as the Staff Finance Panel. Do you have the affidavit.

MR. MAZZA: I do. Thank you, Your Honor. I would like to
enter into the record the testimony and exhibits of the Staff
Finance and Public Power Panel consisting of Patrick Piscitelli
and Kwaku Duah. The documents themselves are Prepared Revised
Testimony of the Staff Finance and Public Power Panel.

9 The document consists of 43 pages plus a title page, Prepared Revised Exhibits of the Staff Finance and Public Power 10 11 Panel, SFPP-1 consisting of five pages, Exhibit SFPP-2 12 consisting of one page, Exhibit SFPP consisting of 17 pages, 13 Exhibit SFPP-4 consisting of 39 pages, Exhibit SFPP-5 consisting 14 of eight pages, Exhibit SFPP-6 consisting of ten pages, Exhibit SFPP-7 consisting of nine pages, Exhibit SFPP-8 consisting of 15 15 16 pages, Exhibit SFPP-9 consisting of two pages and finally 17 Exhibit SFPP-10 consisting of one page. Actually, I misspoke. Exhibit SFPP-11 consisting of three 18 pages, Exhibit SFPP-12 consisting of three pages plus a cover 19

20 page and indexes and that concludes the documents, Your Honors.

JUDGE PHILLIPS: Have you provided a copy of the affidavit?
MR. MAZZA: It is on its way. Thank you, Your Honors.
MR. FORST: (Handing).

JUDGE PHILLIPS: The affidavit will be marked for identification as Exhibit 108. It is the revised Finance and

1

2
1	Public Power testimony dated June 8th, I believe. It is 43
2	pages, and that should be copied into the record as though
3	orally given on the basis of the affidavit. Thank you.
4	MR. MAZZA: Thank you, Your Honor.
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

BEFORE THE STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

In the Matter of a

THREE-YEAR RATE PROPOSAL FOR ELECTRIC RATES AND CHARGES SUBMITTED BY THE LONG ISLAND POWER AUTHORITY AND SERVICE PROVIDER, PSEG LONG ISLAND LLC.

Matter Number 15-00262

June 2015

Prepared Revised Testimony of:

Staff Finance and Public Power Panel

PATRICK PISCITELLI Principal Utility Financial Analyst

KWAKU DUAH Associate Utility Financial Analyst

Office of Accounting, Audits and Finance State of New York Department of Public Service Three Empire State Plaza Albany, New York 12223-1350

1	Q.	Please state the names of the members of the
2		Staff Finance Panel or Panel.
3	A.	We are Patrick Piscitelli and Kwaku Duah.
4	Q.	Mr. Piscitelli, please state your current
5		employer and business address.
6	A.	I am employed by the New York State Department
7		of Public Service, or Department. My business
8		address is Three Empire State Plaza, Albany, NY
9		12223.
10	Q.	In what capacity are you employed by the
11		Department?
12	A.	I am employed as a Principal Utility Financial
13		Analyst in the Office of Accounting, Audits, and
14		Finance.
15	Q.	Please describe your educational and
16		professional background.
17	A.	My educational and professional background is
18		summarized in pages 1 and 2 of Exhibit(SFPP-
19		12), attached.
20	Q.	Have you previously testified in utility
21		regulatory proceedings?
22	A.	Yes, I have 34 years of experience testifying on
23		various regulatory issues. Most recently, I

1		Corporation Proceedings, Cases 08-G-0609, and
2		10-E-0500 before the New York Public Service
3		Commission, or Commission.
4	Q.	Mr. Duah, please state your current employer and
5		business address.
6	Α.	I am employed by the Department. My business
7		address is Three Empire State Plaza, Albany, New
8		York 12223.
9	Q.	Mr. Duah, what is your position at the
10		Department?
11	A.	I am an Associate Utility Financial Analyst in
12		the Office of Accounting, Audits and Finance.
13	Q.	Please describe your educational background.
14	Α.	I received my Master's Degree in Business
15		Administration with a concentration in Finance
16		and Accounting from State University of New York
17		Institute of Technology in 2005.
18	Q.	Please briefly describe your current
19		responsibilities with the Department.
20	A.	As an Associate Utility Financial Analyst, my
21		assignments involve analyzing a company's
22		financial condition, capital structures,
23		financing mechanisms, risks, costs of debt and
24		equity, diversification, and the relative cost

1		position/competitive position of utilities
2		operating in New York State. My other
3		assignments involve testifying in rate cases on
4		financial issues, and special projects including
5		the determination of allowed returns on equity
6		for independent telephone companies in New York
7		State.
8	Q.	Have you previously testified in utility
9		regulatory proceedings?
10	A.	Yes, I have presented testimony in Commission
11		cases concerning NYSEG/RG&E in Cases 09-E-0715,
12		09-G-0716, 09-E-0717, and 09-G-0718; Niagara
13		Mohawk, Cases 08-G-0609,10-E-0500, 12-G-0202 and
14		12-E-0201; and Long Island Water, Case 11-W-
15		0020.
16	Q.	Are you sponsoring any exhibits?
17	A.	Yes. We are sponsoring 12 exhibits identified
18		as Exhibit(SFPP-1) through Exhibit(SFPP-
19		12). Exhibit(SFPP-1) contains interrogatory
20		responses of Long Island Power Authority, which
21		we will refer to as LIPA or the Authority and/or
22		PSEG Long Island, which we will refer to as PSEG
23		LI or the Company supporting our testimony.

1 SUMMARY

2	Q.	What	is	the	purpose	of	the	Panel's	testimony	in
3		this	pro	oceed	ling?					

4 Α. Our testimony will recommend a debt service 5 requirement which should be used. As we will explain more fully in our testimony, the debt 6 7 service requirement represents the principal 8 payment, interest expense of the debt plus 9 coverage requirements. We will address the 10 financial benefits and risks associated with a municipal entity such as LIPA versus those of an 11 12 investor-owned utility, which we will refer to 13 We will also discuss the current as an IOU. financial condition of LIPA and how investors 14 15 analyze its financial condition when making investment decisions. We will then discuss 16 17 whether LIPA's goal of targeting a mid-"A" credit rating is an important objective in terms 18 of minimizing cost to its ratepayers and we will 19 20 develop the debt service requirement to be used 21 in determining the rate year revenue 22 requirements. Finally, we will discuss Staff's 23 recommendation regarding the level of Pensions 24 and Other Post Employment Benefits, which we

1 will refer to as OPEBs, to include in PSEG LI's 2 revenue requirement. 3 Ο. 4 What is the purpose of the Panel's revised Ο. 5 testimony in this proceeding? 6 The purpose of our revised testimony is to Α. 7 provide updates and corrections to our pre-filed testimony to reflect the effect of swap 8 9 payments, updated interest rate assumptions, and 10 to revise our proposal with respect to Pensions 11 and OPEBs. 12 Ο. Please summarize the results of your revised 13 testimony. In its original prefiled testimony, Staff 14 Α. 15 describes its methodology for estimating the interest rates for LIPA, future debt issuances 16 17 The methodology lowers the Authority's and VRD. 18 debt service payments and revenue requirements during the rate plan. Our revised testimony 19 20 provides two updates and corrections to the 21 adjustments resulting from the lower interest 22 rate estimates. The first revision is to 23 correct Staff's estimate of LIPA's debt service 24 costs and swap payments that result from the

1 outstanding VRD issues and the interest rate 2 This adjustment results in an increase to swap. Staff's original revenue requirement 3 4 recommendations in the amount of \$23.285 million 5 over the 3-year period. The \$23.285 million increase consists of \$3.673 million, \$8.627 6 7 million, and \$10.985 in rate years 1, 2, and 3 8 respectively. The second adjustment reflects 9 lower anticipated interest earnings on LIPA's Operating and Rate Stabilization Funds. 10 The 11 lower earnings result in an increase in revenue 12 requirement of \$5.325 million, \$10.012 million, 13 and \$12.450 million in rate years 1, 2, and 3 14 respectively, thus, a total of \$27.787 million 15 over the 3-year rate plan. The third revision, 16 unrelated to interest expense, maintains LIPA's methodology with respect to Pensions and OPEBs 17 18 and results in a higher anticipated debt service cost in the amount of \$833,000 over the course 19 20 of the three year rate plan.

21 Q. Please summarize your recommendations.

A. We recommend debt service requirements of
\$605.114 million, \$634.526 million, and \$680.865
million for Rate Years 1, 2, and 3,

1 respectively, as opposed to PSEG LI's revised 2 request of \$623.57 million, \$681.24 million, and \$742.40 million for Rate Years 1, 2, and 3 3 4 respectively. We recommend the same debt 5 service coverage ratios excluding Utility Debt Securitization Authority Debt, which we will 6 7 refer to as UDSA, requested by LIPA of 1.20x, 8 1.30x, and 1.40x and combined LIPA and coverage 9 ratios including UDSA debt service of 1.10x, 1.15x, and 1.20x for Rate Years 1, 2, and 3, 10 11 respectively, as requested by LIPA. In terms of 12 revenue requirement, the debt service requirement accounts for approximately \$18.455 13 million, \$46.716 million, and \$ 61.530 million 14 15 in 2016, 2017, and 2018, respectively, of the 16 difference between Staff and the Company's proposed revenue requirements. The difference 17 18 between our recommended debt service requirement 19 and that of the Company is primarily the result 20 of Staff's recommended interest cost, Staff T&D Panel's capital expenditure adjustment, and the 21 22 Staff Energy Efficiency and REV Panel's energy 23 efficiency adjustment impact on debt service. 24 Our recommended debt service requirement is

1		summarized in Revised Exhibit(SFPP-2).
2	Q.	Please discuss the overall business structure of
3		LIPA.
4	A.	LIPA was originally created by the Long Island
5		Power Act of 1985 to acquire the assets and
6		securities of Long Island Lighting Company,
7		which we will refer to as LILCO after the
8		cancelation of the Shoreham Nuclear Power Plant.
9		A wholly-owned subsidiary of LIPA acquired
10		LILCO's transmission and distribution system in
11		May 1998. LIPA exists as a municipal
12		subdivision of the State of New York and is
13		responsible for the oversight and ownership of
14		the former LILCO transmission and distribution
15		system. As such, LIPA operates as a non-profit
16		municipal electric utility.
17		Prior to January of 2014, LIPA operated under a
18		service agreement with National Grid USA and
19		played a more significant role in the day-to-day
20		operation of the system than under the current
21		agreement with PSEG LI. Under the current
22		service agreement, PSEG LI has the primary
23		responsibility for the day-to-day operations in

24 the LIPA service territory. LIPA exists today,

primarily, as the owner of the system and the
 holder of its debt.

3 Q. Please summarize the advantages of the combined4 structure of PSEG LI and LIPA.

5 The combined structure is intended to combine Α. the operational efficiencies of PSEG LI with the 6 7 financial advantages of LIPA's municipal tax-8 exempt status. The combined structure, also, 9 maintains LIPA's access to Federal Emergency Management Authority, or FEMA, funding in the 10 event of severe storms. FEMA funding is not 11 12 available to IOUs and, as stated by LIPA witness Falcone at page 4 lines 4 - 5, has amounted to 13 14 nearly \$1.6 billion over the past five years. 15 In addition, the structure allows LIPA to 16 maintain rate-setting authority with statutorily 17 mandated review and recommendation responsibility of the Department. 18 What are the primary financial advantages of 19 Ο. 20 LIPA's municipal tax-exempt status? 21 The major financial advantages of LIPA's Α. 22 municipal tax-exempt status are as follows: 23 1. The authority to issue lower cost tax-24 exempt municipal debt.

1		2. The ability to finance without
2		maintaining higher cost common equity in
3		its capital base.
4		3. Not being required to pay federal or
5		state income taxes.
6		4. The ability to obtain funding of storm
7		related costs through FEMA.
8	Q.	Please discuss the benefits of issuing tax-
9		exempt debt.
10	Α.	Since the interest received by investors from
11		LIPA's debt issuances are not subject to federal
12		income taxes, investors will require lower
13		returns on LIPA's debt than the taxable debt
14		issued by private investor owned utilities. For
15		example, if an investor required a 4% rate of
16		interest on a taxable bond, and their marginal
17		tax rate is 34%, a tax-exempt bond of similar
18		risk should require an interest rate 2.64%,
19		calculated as $4%x(134)$. The savings of 1.36%
20		multiplied by the amount of debt issued is a
21		savings to the issuer.
22	Q.	Please summarize the financial structure of a
23		municipal owned utility, or MOU, as compared
24		with that of an IOU.

1	Α.	IOUs are generally financed with a combination
2		of debt and common equity. Alternatively, LIPA
3		is financed with tax-exempt debt, grants, and
4		internally generated funds.
5	Q.	How do the financial structures influence the
6		allocation of the operational and financial
7		risks associated with IOUs and MOUs?
8	A.	The owners of an IOU are the common equity
9		investors and, as such, they bear the risks of
10		ownership. An IOU typically maintains about 45%
11		to 50% of its capital as equity. Alternatively,
12		an MOU does not have equity investors and the
13		ownership-related risks are borne by the bond
14		holders, customers, and the municipal
15		subdivision.
16	Q.	Are there financial cost differences between the
17		cost of common equity supporting IOUs and the
18		debt capital supporting an MOU?
19	Q.	Yes. The cost differences are twofold and can
20		be very significant. First, the allocation of
21		ownership risk to equity holders results in
22		commensurate return requirements from those
23		bearing the risks. That is, the cost of equity
24		is generally paid for by customers through

1 increased revenue requirements. Equity costs 2 are substantial and currently range between 8.5% and 9.5%. Second, equity returns, or IOU 3 4 profits, are subject to income taxes, which are 5 also included in utility revenue requirements. The combination of providing revenues to fund 6 7 equity returns and the related taxes, as well as 8 the inability to issue tax-exempt debt, can 9 result in a current incremental cost of capital of between 8.7% and 10.1% for an IOU. 10 The current incremental cost of LIPA's capital is 11 12 about 5% when debt service coverage requirements 13 are included. 14 Ο. Can the traditional risks borne by equity

15 investors in an IOU be shifted to the debt
16 holders in an MOU?

17 A. Yes, to some extent the risks can be shifted to
18 municipal debt holders. But the risk-shifting
19 is limited and results in an increase in the
20 interest requirements of debt investors.

Q. How can a municipal revenue requirement bedetermined?

A. We are aware of four methods than can be used todetermine the financial cost component of the

1 revenue requirement for an MOU. These methods 2 are 1) Rate of Return Method, 2) Cash Flow Method, 3) Times Interest Expense Ratio Method, 3 4 and 4) Debt Service Coverage Method. 5 Can you briefly describe these methods? Ο. Capital cost recovery under the Rate of 6 Α. Yes. 7 Return Method is typically based on the MOU's 8 weighted average cost of capital for the rate 9 year. The cost of debt capital may be based on the weighted average cost for the rate year. 10 Unlike the IOUs, the MOU's cost of equity, 11 12 referred to as owner's equity or surplus capital, is typically based on the MOUs' cost of 13 14 incremental borrowing. The incremental cost of 15 borrowing can be determined by the most recent 16 bond yield average having the same credit ratings as the MOU's. The bond yield averages 17 18 are published in Mergent Bond Record, Moody's 19 Credit Perspective or similar publications. 20 Some jurisdictions add some percentage to the 21 yield average for municipal utilities under 22 their jurisdiction while others do not. 23 Please continue with a description of the Cash Ο. 24 Flow Method.

Α. An MOU may elect to use the Cash Flow Method for 1 2 determining its capital recovery revenue requirements for a given rate year. Usually, an 3 4 MOU's reasonable cash needs may be categorized 5 into five main areas. These are: a) debt service, including principal and interest for 6 7 long-term and short-term debt, 2) funding of reserve requirements on both long-term and 8 9 short-term debt as set forth in revenue bond and debt ordinances or adopted policies of the 10 governing authority, c) annual payments for 11 12 transfers to the municipality's general fund at 13 rates established by the MOU's governing 14 authority, d) capital lease payments and/or 15 finance lease payments, e) annual payments to 16 provide internally generated funds for 17 construction, system improvements, and repair 18 and replacement.

Q. Please describe the Times Interest Expense Ratio
 Method, or TIER.

A. This method sets a rate of return consistent
with maintaining a reasonable level of interest
expense coverage. As an illustration, if the
dollar amount of an MOU's debt service for its

1 outstanding debt is \$50 million, supporting a 2 rate base of \$20 billion, with an allowed 2.5x TIER, the rate of return commensurate with a 3 4 TIER of 2.5 times applied to the \$50 million debt service is 0.63%, calculated as 2.5x\$50 5 million divided by the \$20 billion rate base. 6 7 The MOUs in some jurisdictions like Texas 8 provide additional coverage of TIER. MOUs in 9 Maryland have also been given the TIER option to 10 determine their revenue requirement. Please describe the Debt Service Coverage Ratio 11 Ο. 12 Method, or DSCR. 13 In this method, the MOU first determines its Α. 14 debt service payments consisting of interest and 15 principal payments. Once the debt service obligation is determined, a reasonable DSCR is 16 applied to the fixed debt obligations to arrive 17 18 at debt service and coverage requirement. The level of a utility's debt service coverage is 19 the ratio of funds available to meet its debt 20 service requirements, divided by the debt 21 22 service requirements. For example, a DSCR of 23 1.50x reflects the ability of an MOU to meet 100% of its debt service obligations and have 24

1 funds left over equal to 50% of its debt service 2 requirements. Once the debt service requirement is determined, sources of funds other than the 3 4 sale of electricity available to meet the 5 requirement are subtracted to determine the amount of return that must be collected through 6 7 revenue. How has Staff arrived at its recommended model 8 Ο. 9 for establishing rates for PSEG LI? 10 Staff's recommendation regarding which model to Α. use in establishing rates for PSEG LI is based 11 12 upon two general principles. First, the model should provide a reasonable estimation of the 13 14 cost of providing service to customers. Second, 15 the model should result in an accurate financial representation of how investors view LIPA when 16 17 making their investment decisions. This representation will allow for rates to be 18 established that lead to financial results 19 20 consistent with the goal of providing the lowest 21 long-run cost of service to customers. 22 Ο. Which model does the Department use when 23 reviewing rates for IOUs?

24 A. The Department generally uses the Rate of Return

1 Model incorporating Generally Accepted 2 Accounting Principles, or GAAP. For IOUs, this model meets both of the general principles 3 4 described above. That is, it accurately 5 represents the cost of service and is used by investors in making investment decisions. 6 7 Ο. Which model is LIPA recommending be used in setting its rates? 8 9 Α. LIPA is proposing to use the DSCR method to 10 establish rates in this proceeding. Which method is used by the debt rating agencies 11 Ο. 12 when establishing debt ratings for LIPA? 13 The rating agencies use the DSCR method. Α. 14 Does the IOU rate of return model provide an 0. 15 accurate estimation of LIPA's cost of service 16 and present an accurate representation of how 17 investors view LIPA? No, it does not. While the model will continue 18 Α. 19 to provide an accurate estimate of LIPA's cost 20 of service, it is not used by investors when making investment decisions for an MOU such as 21 22 LIPA. As such, rating agencies will convert the 23 rate of return results to the DSCR model when analyzing LIPA's financial condition. 24

1 Ο. What is the potential implication of using a 2 DSCR model to establish rates for LIPA? 3 The use of a DSCR model may produce Α. 4 intergenerational inequities. This can occur 5 when the maturities of the financial vehicles financing the assets are longer or shorter than 6 7 the useful life of the assets providing service. The result is that the liability amortization 8 9 and debt maturities may not match the depreciation of the assets. This is relevant 10 since it is the use of the assets, not the 11 12 maturity of the liabilities that provide service 13 to customers. Intergenerational inequities also 14 occur when revenue requirements do not 15 accurately match the generation of liabilities. 16 For example, PSEG LI's funding proposal for 17 Pensions and OPEBs will result in future 18 customers paying for costs generated during this 19 rate plan. 20 Ο. Does the Cash Flow or TIER method alleviate the 21 problems inherent with the DSCR? 2.2 Α. No, they do not. Both methods have the same 23 intergenerational equity issues. In addition, 24 rating agencies do not use either method when

1		evaluating MOUs. As a result, they are not
2		useful for establishing rates for PSEG LI.
3	Q.	What model is the Panel proposing to use to
4		establish rates for PSEG LI?
5	Α.	Staff is recommending the use of a DSCR model.
б		While its use may result in potential
7		intergenerational inequities, the DSCR model
8		will provide rate levels that we expect will
9		result in LIPA maintaining access to debt
10		markets at reasonable rates. Over the long-run,
11		the access to debt markets that results from use
12		of the DSCR model is expected to provide
13		customers with a lower cost of service than the
14		other methods would provide.
15	Q.	Do you have any reservations about use of the
16		DSCR method in this rate proposal?
17	Α.	While we do not have any significant
18		reservations about the general way in which the
19		basic methodological principles of the DSCR
20		method are applied, we disagree with the
21		interest rate assumptions used by LIPA.
22	Q.	How does LIPA finance its cash flow
23		requirements?
24	Α.	As previously discussed, LIPA is financed by a

1 combination of municipal debt, internally 2 generated funds, and grants. As such, the only outside financing available to LIPA is through 3 4 the municipal tax-exempt debt markets. LIPA's 5 ability to issue debt, and the interest rate charged by investors and access to the debt 6 7 markets are largely determined by LIPA's bond 8 rating. 9 Ο. What are LIPA's current bond ratings? 10 LIPA is currently rated "Baa1" by Moody's Α. Investor Service, or Moody's, "A-" by Fitch, and 11 12 "A-" by Standard and Poor's, or S&P. How do LIPA's ratings compare with the debt 13 Ο. 14 ratings of other major municipal electric 15 utilities? Exhibit (SFPP-3) contains Moody's 2014 Public 16 Α. 17 Power Report of the public power industry. Page 18 seven of the report lists the twenty largest public power utilities with generation 19 20 ownership. As the report illustrates, LIPA's 21 Moody's "Baal" rating is below eighteen of the 22 comparable MOU ratings; with only Puerto Rico 23 Electric Power Authority rated lower than LIPA. 24 The average Moody's bond rating of the

1 Authorities other than LIPA is slightly lower 2 than "Aa3", or four notches above LIPA's "Baa1" 3 The report also illustrates that LIPA's rating. 4 2013 debt service coverage of 1.19x is lower 5 than all but two utilities and the 2013 debt ratio of 131% is the highest of any public 6 7 utility company in the group. Please discuss the overall rating methodology 8 Ο. 9 employed by the rating agencies. 10 While each rating agency uses different Α. qualitative and quantitative methodologies to 11 12 assess the credit worthiness of LIPA, all three generally use a framework that measures the 13 qualitative portion of their assessment based 14 15 primarily upon a series of cash flow metrics. 16 This methodology differs from the rating agency methodologies for IOUs that assess credit 17 18 metrics generally using GAAP. How does GAAP accounting differ from using cash 19 Ο. 20 flow measurements? 21 The primary difference between GAAP accounting Α. 22 and the financial calculations used by rating 23 agencies in assessing the credit worthiness of 24 MOUs is that GAAP accounting allows for the

1		deferral and amortization and accrual c	of
2		expenses. Cash flow metrics, as contra	sted with
3		GAAP accounting, rely upon a cash centr	ic
4		analysis of municipal utilities.	
5	Q.	How does Moody's arrive at a "Baal" deb	ot rating
6		for LIPA?	
7	Α.	As detailed in Exhibit(SFPP-4), Mood	ly's uses
8		a five factor analysis to arrive at its	debt
9		rating. It then weighs the result of e	each of
10		the factors by a predetermined weightin	ng to
11		arrive at its overall rating. An expla	nation of
12		its methodology is contained in Exhibit	(SFPP-
13		4) and summarized below:	
14		Rating Factor We	eighting
15		1. Cost Recovery Framework	
16		Within Service Territory	25%
17		2. Willingness to recover	
18		Costs with Sound Financial	
19		Metrics	25%
20		3. Management of Generation	
21		Risks	10%
22		4. Competitive Risks	10%
23		5. Financial Strength (3 year average)	
24		a. Liquidity	10%

1		b.Leverage (Debt Ratio)	10%
2		c.Debt Coverage Ratio	10%
3		TOTAL	100%
4	Q.	Please summarize Moody's analysis of L	IPA's bond
5		rating.	
6	A	Exhibit(SFPP-5) contains Moody's and	alysis of
7		LIPA's bond rating and is summarized a	s follows:
8		Rating Factor Factor	r Score
9		1. Cost Recovery Framework	
10		Within Service Territory	Aa
11		2. Willingness to recover	
12		Costs with Sound Financial	
13		Metrics	Baa
14		3. Management of Generation	
15		Risks	A
16		4. Competitive Risks	A
17		5. Financial Strength (3 year average)	
18		a.Liquidity	Ba
19		b.Leverage (Debt Ratio)	Baa
20		c.Debt Coverage Ratio	Ва
21		The Moody's report explaining the fact	or ratings
22		and the overall analysis is contained	in
23		Exhibit(SFPP-5).	
24		As the exhibit illustrates, the metric	S

1 evaluating LIPA's financial strength are within 2 the "Ba" to "Baa" range and do not support Moody's current "Baal" rating for the Company. 3 As Exhibit___(SFPP-5) details, it is Moody's 4 5 view that the cost recovery framework and, in particular, the strength of LIPA's service 6 7 territory, LIPA's management of its generation-8 related risks, and its competitive position, 9 support the current "Baal" bond rating. Based upon the above matrix and Moody's scoring 10 11 methodology, the indicative Moody's rating for 12 LIPA is "Baa2". Moody's has assigned its rating of "Baal" based upon the belief that on a 13 forward-looking basis, the average financial 14 15 metrics and other credit considerations will 16 improve to support an overall "Baal" rating. How does S&P's rating methodology differ from 17 Ο. 18 Moody's? 19 Α. While the S&P methodology is conceptually

20 similar to Moody's, it arrives at its rating 21 using a somewhat different methodology. As 22 detailed in Exhibit___(SFPP-6), S&P analyzes the 23 following variables in deriving its rating for 24 LIPA:

1 1. Management 2 2. Operations 3. Competitive position 3 4 4. Markets 5 5. Regulation 6. Service area economy 6 7. Finances 7 8. Legal Position 8 9 Ο. Please summarize S&P's rating conclusions. 10 As contained in Exhibit (SFPP-7), in November Α. 2014, S&P reaffirmed LIPA's "A-" rating and 11 12 placed LIPA's rating on a negative outlook. Α 13 negative outlook means that a future downgrade 14 is possible. The negative outlook is the result 15 of the following S&P's observations that: 1. While the securitization of LIPA's debt is 16 17 reducing the Company's debt obligations and should improve debt service coverage and 18 leverage ratios, it will not reduce 19 customer's bills. S&P states that the 20 21 average consumer rates are high in absolute 22 terms, the 2012 residential rates were about 23 8% above the State average, and its 24 commercial rates are about 14% higher than

1		the State average. As a result, S&P believes
2		the securitization will not improve LIPA's
3		competitive position.
4		2. The legislation provisions enacted in 2013
5		introduced uncertain regulatory oversight.
6		3. The agreement to submit to a rate freeze
7		could reduce LIPA's financial flexibility.
8		4. Financial credit metrics have been only
9		barely adequate for an "A-" bond rating.
10	Q.	Please summarize Fitch's rating methodology.
11	Α.	The Fitch report detailing its rating
12		methodology is contained in Exhibit(SFPP-8).
13		As the Fitch report illustrates, the following
14		five key drivers are analyzed in assigning it
15		"A-" rating to LIPA:
16		1. Rate Sufficiency and Flexibility
17		2. Comprehensive Strategic Planning and Risk
18		Management
19		3. Resource Adequacy and Performance
20		4. Financial Strength and Forecasting
21		5. Service Area Composition and Strength
22	Q.	Please summarize Fitch's analysis of LIPA.
23	Α.	Fitch considers the following as key drivers in
24		its analysis of LIPA:

1		1. The customer service territory is well
2		diversified and exhibits above average wealth
3		and income levels.
4		2. LIPA has solid utility fundamentals including
5		an improved power supply mix and rate
6		mechanisms to stabilize fuel and power
7		purchase costs.
8		3. LIPA has weak debt metrics with \$10.2 billion
9		of debt and leverage of above 96%. Debt per
10		customer was \$9,173 for 2013 compared to the
11		"A-" peer median of \$3,403.
12		4. Concern over expanded regulatory oversight
13		resulting from the 2013 Reform Act.
14	Q.	In his testimony, Mr. Falcone discusses the
15		importance of debt coverage ratios in the
16		determination of debt ratings. Do you agree
17		with Mr. Falcone's analysis?
18	Α.	Debt service coverage ratios are a key metric in
19		the determination of debt ratings, however, as
20		the above discussion illustrates, the rating
21		agencies review a broad range of factors in
22		their analysis.
23	Q.	Do LIPA's debt ratios and credit metrics support
24		the existing debt ratings?

No, the existing credit metrics do not support 1 Α. 2 LIPA's current bond ratings. It is the rating agencies' qualitative assessments of LIPA that 3 4 sustain its existing debt ratings. 5 Will the proposed rate increases under either Ο. PSEG LI's or Staff's rate proposals result in 6 7 credit metrics that support an "A" bond rating? No. As illustrated in Exhibit ___(SFPP-9), the 8 Α. 9 pro forma credit metrics during the term of either rate plan will not support an "A" bond 10 11 rating for LIPA. 12 Ο. Is it the Panel's opinion that an improvement in the credit metrics are necessary for LIPA to 13 14 maintain and possibly improve its debt rating? 15 Α. Yes. As demonstrated by the negative outlooks 16 assigned to LIPA by both Fitch and S&P, LIPA's existing rating of "A-" is under pressure. 17 As 18 detailed in the previously referenced Exhibit___(SFPP-5), Moody's states that while it 19 20 has assigned a "Baal" rating to LIPA, its rating methodology produces a "Baa2" rating. The one 21 22 notch upgrade is the result of expected 23 improvement in LIPA's credit metrics. 24 Ο. What are the implications if LIPA is downgraded

1		from its current debt ratings?
2	Α.	We have identified four potential impacts if
3		LIPA is downgraded:
4		1. Increased interest costs of new debt
5		borrowings.
б		2. Possible inability to refinance existing
7		debt at lower interest rates over time.
8		3. Increases in future bank Letter of
9		Credit costs or the possible inability
10		to obtain future letters of credit.
11		4. An increase in the costs embedded in
12		commodity contracts, including greater
13		collateral posting.
14	Q.	Has Staff quantified the potential increase in
15		costs during the three year rate plan if LIPA is
16		downgraded?
17	A.	Yes, Staff has estimated the yearly impacts upon
18		LIPA's new debt service costs during the three
19		rate years if LIPA is downgraded to
20		"Baa2"/"BBB+"/"BBB+" during the rate year. If
21		LIPA were to be downgraded to
22		"Baa2"/"BBB+"/"BBB+" by Moody's/S&P/Fitch
23		ratings, respectively, during the rate year,
24		absent the impact of Letters of Credit, or LOCs,

bond administration costs, bank fees, and 1 2 remarketing fees, our analysis, shown in Exhibit (SFPP-10), indicates that the impact 3 in terms of total debt service is at least 4 \$0.305 million, \$1.555 million, and \$3.242 5 million for RY1, RY2, RY3, respectively. In 6 7 addition, through informal discussion with the 8 Authority, LIPA has estimated \$2.382 million 9 increases in LOC costs, the loss of \$625 million of an existing credit facility, loss of \$85 10 million of unsecured credit supporting LIPA's 11 12 2016 hedging program, and a loss of \$300 million 13 in subordinate commercial paper in late 2017. 14 Taken together, LIPA has estimated a loss of \$17.455 million, \$40.176 million, and \$46.847 15 million for 2016, 2017, and 2018 respectively if 16 the company were to be downgraded one notch to 17 "Baa2"/"BBB+"/"BBB+". 18

19 Q. Given your recommendation, do you believe that a 20 downgrade is a possibility during the rate plan? 21 A. While the possibility of a downgrade exists, we 22 believe that the improved financial metrics 23 combined with the existing qualitative 24 assessments of LIPA will at least support the

1 existing rating. In addition, the Delivery 2 Service Adjustment Mechanism, which we refer to as the DSA, recommended by the DSA Panel 3 4 provides protection to LIPA for variations in 5 debt service costs, storm costs, and power supply costs. If adopted, the DSA will 6 7 significantly reduce the operational and financial risk of the Authority. 8 9 Ο. The Panel previously mentioned that it disagrees 10 with the methodology used by LIPA to derive its 11 interest rate assumptions. How has LIPA 12 forecasted interest rates during the three-year 13 rate period? 14 Α. LIPA has relied on estimates by its consulting 15 firm, Public Financial Management, or PFM, to 16 estimate future interest rates for its long-term debt, Senior Commercial Paper, and Variable Rate 17 18 Debt, or VRD, according to Mr. Falcone's Exhibit (TF-1). PFM has based its estimates 19 20 upon forward interest rates. Moreover, PFM's interest rate planning assumptions took into 21 22 account the current interest rates, and 23 "consensus of interest rate projections and 24 expectations from a range of economists."

1	Q.	Based on these assumptions, what cost rates did
2		PFM propose and LIPA ultimately use to determine
3		the debt service requirement in this rate case?
4	A.	For its planned long-term debt, LIPA employed
5		4.50%, 4.70%, 4.85%, and 5.00% cost rates for
6		2015, 2016, 2017, and 2018, respectively. For
7		all of its Variable Rate and Commercial Paper
8		debt instruments, except the 2014C VRD, LIPA
9		used 0.375%, 1.10%, 2.00% and 2.50% interest
10		rates for years 2015 to 2018, respectively.
11		LIPA employed interest rates of 0.982%, 1.75%,
12		2.65%, and 3.15% for years 2015 to 2018 for its
13		2014C VRD based on 70 percent of 1-month LIBOR
14		plus 65 basis points and interest rate
15		expectations. Similarly, LIPA employed 0.750%,
16		1.45%, 2.325%, and 2.85% for its 2012D VRD for
17		years 2015 to 2018, respectively. For the UDSA
18		refunding debt, LIPA used the current yield
19		curve and added 50 basis for the 2015 issuance
20		and 75 basis points for the 2016 issuance.
21	Q.	Does the Department use forward yield curve
22		analyses and consensus interest rate projections
23		and expectations to determine rate year interest
24		costs of forecasted debt issuances for

1 utilities?

2	Α.	No, it does not. The Department has recognized
3		that the future interest rate curves and
4		consensus interest rate projections are not
5		accurate predictors of future interest rates and
6		recognizes that current rates are the most
7		accurate predictor of the costs of future debt
8		issuances.
9	Q.	Has LIPA previously used PFM estimates of future
10		interest rates to forecast potential changes in
11		rates?
12	Α.	Yes, LIPA has used similar PFM predictions of
13		future interest rates in financial assumptions
14		for budgeting purposes for each year since 2011.
15		In response to IR DPS-TF-106, LIPA provided the
16		PFM assumptions which are contained in our
17		previously referenced Exhibit(SFPP-1). As
18		the Exhibit illustrates, the PFM forward
19		interest rate assumptions have substantially
20		overestimated rates in each forecasted year.
21	Q.	What interest rate assumptions has Staff used in
22		its analysis?
23	A.	Our analysis uses the Department's established
24		methodology of current interest rates and

estimates an interest rate of 4.12% for LIPA's 1 2 2016, 2017, and 2018 planned long-term debt issuances for capital expenditure. For its 3 4 2012C and 2012D VRD and Senior CP we have determined an interest rate of 0.10%, 0.11%, and 5 0.19%, respectively, for the three rate years. 6 7 For the 2014C VRD, we estimated its cost during 8 the three rate years based on its current rate 9 which is set at 70 percent of current 1-month LIBOR plus 65 basis points (as of April 27, 10 2015). Therefore, we have determined a 0.78% 11 cost rate for the 2014C VRD. 12 These current rates for the 2012C, 2012D VRD, 2014C, and 13 14 Senior Commercial paper were provided by LIPA in 15 response to information request DPS-TF-453 16 contained in our previously referenced Exhibit_(SFPP-1). For the UDSA debt, Staff is 17 18 recommending that the current yield curve be 19 used to estimate the debt service requirements. 20 Q. How did you derive the 4.12% cost of long-term 21 debt for the new LIPA issuances? 22 Α. The 4.12% cost of long-term debt is based on 23 LIPA's historical average bond yield spread above "Baa1"/"A-" public utility monthly average 24
bond yields from January 2011 to present. 1 We 2 have calculated that spread to be 0.04%. As of March 31, 2015, Mergent Bond Record data shows 3 an average bond yield for "Baa1"/"A-" public 4 utility bonds of 4.08%. We have determined that 5 the appropriate cost of long-term debt for 6 LIPA's new debt issuances for 2016 to 2018 is 7 4.12% (4.08%+0.04%). The derivation of our 8 9 recommended cost of long-term debt is shown in Exhibit (SFPP-11). The interest rates should 10 11 be updated as this proceeding progresses. 12 Ο. What interest costs is Staff recommending for 13 the UDSA issuances? 14 Α. Since the 2015 UDSA debt is anticipated to be 15 issued prior to the decision in this proceeding, 16 Staff is recommending that the actual interest costs of the 2015 issue be used for establishing 17 rates. Consistent with Staff's recommendations 18 19 for establishing rates for LIPA's planned debt, 20 Staff is recommending that the current yield curve be used for the 2016 UDSA issuances. 21 22 Given that LIPA estimated UDSA's 2016 yield by 23 adding 75 basis points to the current UDSA's 24 debt yield, Staff has subtracted the 75 basis

1		points from the 2016 yield curve projected by
2		LIPA to arrive at the current rates.
3	Q.	What is the overall impact of Staff's interest
4		rate assumptions on PSEG LI's revenue
5		requirements?
6	Α.	Staff's interest rate assumptions reduce the
7		debt service costs for LIPA by \$10.65 million,
8		\$25.64 million, and \$39.85 million in 2016,
9		2017, and 2018 respectively. Staff's projected
10		debt service costs for the 2016 UDSA debt
11		issuances results in an additional reduction in
12		debt service costs of \$5.426 million in 2016,
13		\$15.949 million in 2017, and \$15.155 million in
14		2018.
15	Q.	Please discuss your adjustment relating to the
16		two outstanding VRD issues.
17	A.	LIPA has a series of variable interest rate
18		bonds outstanding that total \$674 million. The
19		interest rates on the VRD bonds are established
20		based upon a variety of interest rate indices.
21		Concurrently, LIPA has an outstanding interest
22		rate swap agreement on debt valued at \$587.225
23		million. The swap relates to a separate
24		financial instrument that requires LIPA to make

a fixed payment of 5.12% on the \$587.225 million 1 2 balance. LIPA, in return, receives 69.47% of 1month LIBOR multiplied by the \$587.225 million. 3 4 The swap effectively hedges \$587.225 million of 5 the \$674 million variable rate exposure. The interest payments associated with the remaining 6 7 \$86.775 million of VRD are not matched to the 8 swap payments and float un-hedged with their 9 respective indices. While the Authority projected an increase in interest rates during 10 the rate plan, Staff estimated the future 11 12 interest rates based upon the current market environment. As discussed in the Panel's 13 testimony on page 31, lines 4 through 15, 14 15 Staff's forecast methodology is consistent with 16 the Department's interest rate estimation 17 methodology. Staff's pre-filed testimony, however, did not 18

10 beaut 5 pic filled testimony, nowever, and not 19 accurately match the VRD debt to the 20 corresponding swap hedge. The Panel's revised 21 testimony more accurately estimates the 22 interaction between the swap payments and the 23 outstanding VRD interest payments by more 24 closely linking the swap payments and the VRD interest payments to their respective comparable
 indices.

Q. Please discuss your adjustment to the interest
earnings relating to LIPA's Operating and Rate
Stabilization Funds.

LIPA's Operating Expense and Rate Stabilization 6 Α. 7 Funds are accounts that were created under the 8 Authority's General Revenue and Bond Resolution. 9 The Operating Expense Fund is a general account holding Authority funds available to pay 10 11 operating expenses prior to the application of 12 funds to pay debt service or PILOT payments. 13 The Rate Stabilization Fund is a reserve account 14 available for any lawful purpose of the 15 Authority, including payment of expenses and debt service. Some of the bank agreements 16 require a minimum balance of \$150 million in the 17 Rate Stabilization Fund. Failing to replenish 18 the minimum balance could result in the early 19 20 termination of those bank agreements. 21 Both funds invest in short term high grade 22 investments earning market determined interest 23 rates. A review of Staff's interest earnings 24 assumptions indicates that in its initial

1 calculation, Staff overestimated the earnings of 2 both funds under its forecasted interest rate assumptions. As a result, our revised testimony 3 4 lowers the interest rate adjustments consistent 5 with Staff's lower interest rate estimates. This adjustment raises the revenue requirement 6 7 by \$5.325 million, \$10.012 million, and \$12.45 million in rate years 1, 2, and 3 respectively. 8 9 Q. Does Staff propose updating the interest 10 expenses, swap payments, and interest earnings 11 estimates? 12 Α. Yes. The interest rate assumptions in our 13 testimony should be updated as this proceeding 14 progresses. Any difference between debt service 15 expenses, swap payments, and interest earnings 16 from those approved in the proceeding are 17 expected to be captured by the Delivery Service Adjustment over the course of the rate plan. 18 19 Pension and Other Post Employment Benefit Funding 20 Ο. Please discuss PSEG LI's revised proposal for 21 funding Pension and OPEBs requirements. 22 Α. PSEG LI is proposing to include only the minimum 23 Employee Retirement Income Security Act, or 24 ERISA, funding requirements in revenues, instead

1 of the projected GAAP costs. The difference 2 between the ERISA and GAAP cost estimates would be deposited only after debt service has been 3 4 paid. 5 Please discuss the financial implications of Ο. 6 PSEG LI's Pension/OPEBs funding request. 7 Α. PSEG LI is projecting \$220.7 million of Pension 8 and OPEB costs during the term of the three-year 9 rate plan and has included only \$52.4 million of 10 those costs in its revenue requirements. PSEG LI has proposed to finance the shortfall of 11 12 \$56.1 million, \$56.3 million, and 55.8 million in 2016, 2017, and 2018, respectively. 13 14 Ο. Has PSEG LI presented a plan for eventually 15 charging customers for the full GAAP costs been 16 presented? 17 No, PSEG LI has not presented a plan to Α. 18 eventually charge customers the full GAAP cost. What are the financial implications of the 19 Ο. 20 Pension and OPEB funding contained in PSEG LI's 21 rate proposal? 22 Α. LIPA believes that the rating agencies will only 23 include the ERISA requirements in the 24 calculation of LIPA's financial metrics. This

1 interpretation is based upon the ability to fund 2 the difference between the GAAP and ERISA costs after the payment of its debt service costs. 3 4 While the rating agencies interpretation of 5 LIPAs position is uncertain, their agreement with LIPA's position would result in minimal 6 7 impact on its debt coverage ratios. This occurs 8 since only the financing costs of the additional 9 debt funding the shortfall will impact the financial metrics. The yearly financing costs 10 11 are estimated to be approximately \$4.5 million, 12 \$8.9 million, and \$15.5 million in 2016, 2017, and 2018, respectively. The financing costs 13 14 will continue to increase as the costs recovery 15 continues to be deferred. If the rating 16 agencies disagree with LIPA's interpretation, the debt service coverage would be reduced by 17 18 about 0.07x in each year. This would continue 19 each year until the GAAP requirements are fully 20 funded.

Q. What are the financial implications of LIPA'sposition?

A. While there are short-term beneficial rateimpacts of deferring the cost recovery, the

1 long-run financial impact will be a decrease in 2 the financial profile of the Authority. This decrease will result from overall reduced 3 4 financial metrics due to the additional debt 5 burden. What is Staff's revised proposal for funding 6 Ο. 7 Pension and OPEB costs? 8 To mitigate the effect of the proposed rate Α. 9 increase on customers, Staff is proposing to maintain unchanged the treatment of Pensions and 10 11 OPEBs currently utilized by LIPA. 12 Implementation of Department policy to Pensions and OPEBS, which bases the amount allowed in 13 14 rates for pensions and OPEBs on the amounts of 15 those benefits that employees earn during the rate year based on actuarial estimates rather 16 than on the cash payments made by the utility 17 18 for the benefits during the rate year, will not be recommended at this time. Staff revised 19 20 pension and OPEBs proposal results in an 21 increase in debt service cost of \$87,700, 22 \$110,000, and \$630,000 in rate years 1, 2, and 3 23 respectively. The cumulative total increase in 24 debt service costs during the rate plan is

1 \$833,000.

- 2 Q. Does this conclude your testimony?
- 3 A. Yes it does, at this time.
- 4

JUDGE PHILLIPS: The next one entered by affidavit will be the PSEG Sales Revenue Panel. Is it original and rebuttal; is that correct?

MR. WEISSMAN: Correct, Your Honor. The Sales and Revenue 4 5 Forecasting direct testimony is being sworn to by Mr. Irrgang 6 and Mr. Karol. It's a document that was filed on January 30, 7 2015 consisting of 29 pages with nine exhibits. Those exhibits are identified on the list provided as Exhibit 49. It's a 8 9 one-page exhibit. Exhibit 50, is also a one-page document. Exhibit 51 is a one-page document. Exhibit 52, 53, 54 and 55, 10 11 those are all one-page exhibits I believe identified as SRFP 1 12 through 7.

There is also SRFP 8, a three-page exhibit and SRFP 9 which 13 14 is a six-page exhibit. 8 is Exhibit 56 and 9 is Exhibit number 15 57. I have spoken with Mr. Favreau briefly. Exhibit 58, Your 16 Honors, working with the list that we provided, I believe there 17 was an error on that list I just want to point out. Exhibit 58 is a revision of SRFP 9 that was submitted. The witness 18 19 identified a display error in his original exhibit; no changes 20 to any of the figures that we used in our revenue requirement or 21 anywhere else. It was simply a display error. That has been 22 identified as Exhibit 58.

The DMM number is 110, not number 1 that is shown on the list that I have. That was submitted yesterday I believe to DMM, not on January 30th. That is the revised Exhibit 9. That

1

2

is SRFP 9. Mr. Karol and Mr. Irrgang were available to bring 1 2 that up. On the Rebuttal Testimony on Sales and Revenue Forecasting was actually only submitted by Mr. Irrgang. That is 3 an eighteen-page document with five exhibits. 4 5 Those exhibits are identified as Exhibits Numbers 59 through 63. 6 Exhibits 59 through 62 are all one-page documents. Exhibit 63 7 is an eleven-page document. They are all associated with the rebuttal testimony of Mr. Irrgang, that eighteen-page document 8 9 with five exhibits. I can bring those affidavits to you now 10 (handing). 11 JUDGE PHILLIPS: We are just noting that we are going to 12 reserve the Exhibit 109 for the affidavit concerning the Sales 13 and Revenue Forecasting Panel. It needs to be updated to 14 reflect the correction that was stated on the record by

15 Mr. Weissman with respect to the revision of one of the 16 exhibits. We will have a placeholder with the corrected 17 affidavit hopefully tomorrow.

Provisionally it is marked for identification as 109. 18 The 19 affidavit adopting Mr. Irrgang's Rebuttal Testimony has been 20 marked for identification as 110. I would like to note for the 21 court reporter that the Pre-filed Testimony of the Sales and 22 Revenue Forecasting Panel, Mr. Irrgang and Mr. Karol, should be 23 copied into the record followed by the Rebuttal Testimony by 24 Mr. Irrgang copied into the record as though given orally. 25 Thank you.

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-____

DIRECT PRE-FILED TESTIMONY OF THE SALES AND REVENUE FORECASTING PANEL

Date: January 30, 2015

TABLE OF CONTENTS

I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY	1
II.	ELECTRIC SALES FORECAST	3
III.	RESIDENTIAL ELECTRIC SALES FORECAST	6
IV.	COMMERCIAL & INDUSTRIAL ELECTRIC SALES FORECAST	15
V.	OTHER ELECTRIC SALES FORECAST	21
VI.	ELECTRIC CUSTOMER FORECAST	24
VII.	RISKS TO THE ELECTRIC SALES FORECAST	25
VIII.	ELECTRIC REVENUE FORECAST	26

1	I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY
2 3	Q.	Please state the names of the members of this Sales and Revenue Forecasting Panel (the "Panel").
4	A.	We are Bryan Irrgang and Robert Karol.
5	Q.	Mr. Irrgang, please state your employer and business address.
6 7	A.	husiness address is 175 East Old Country Road, Hicksville, NY 11801
/		business address is 175 East Old Country Road, meksvine, NT 11801.
8	Q.	In what capacity are you employed by the Company?
9	A.	I am employed by the Company as Manager of Electric Load Forecasting.
10	Q.	Please summarize your educational background and professional experience.
11	A.	I have been employed in the energy industry for over 35 years. I was previously
12		employed by MacLeod & Steward for ten years, then by The Long Island Lighting
13		Company ("LILCO") for eight years, then by KeySpan for nine years and then by
14		National Grid for six years. In 2014 I assumed my current position with PSEG LI. I
15		have been performing electric load forecasting on Long Island for 18 years under
16		LILCO, KeySpan, National Grid and PSEG LI. Additionally I am currently serving
17		in my 6th consecutive year as chair of the New York Independent System Operator's
18		("NYISO") Joint Load Forecasting Task Force and have been a task force member
19		for 11 years.
20		I received an Associate of Science degree in Engineering Science from the
21		College at Farmingdale, SUNY; a Bachelor of Science degree in Mathematics from
22		the SUNY College at Old Westbury and a Master of Science degree in Applied
23		Mathematics and Statistics from Stony Brook University.

1	Q.	Robert Karol, please state your employer and business address.
2	A.	I am employed by PSEG LI and my business address is 175 E Old Country Road,
3		Hicksville, New York 11801.
4	Q.	In what capacity are you employed by the Company?
5	A.	I am employed by the Company as Lead Analyst, Revenue Analytics Regulation and
6		Pricing.
7	Q.	Please summarize your educational background and professional experience.
8	A.	In 1991, I joined LILCO and spent six years as an Industrial Engineer in the Gas
9		Operations Department. Before the Brooklyn Union Gas Company – LILCO merger
10		that formed KeySpan, I moved to Corporate Planning where I worked on various
11		mergers and acquisitions ("M&A") activities and performed financial analysis for
12		diversified projects. Subsequently, I became Manager of Financial Analysis in
13		KeySpan's unregulated Energy Development subsidiary. In 2004, I accepted a
14		position as Lead Analyst in the Forecasting group in KeySpan's electric Business
15		Unit. KeySpan subsequently was acquired by National Grid. This group was
16		responsible for the Revenue Analysis function on behalf of the Long Island Power
17		Authority ("LIPA"). I was responsible for maintaining the models that forecast
18		LIPA's revenues and for analyzing monthly variances. Essentially, this same position
19		was reorganized into my current position in the Regulation and Pricing group when
20		PSEG LI became the service provider for the LIPA contract as of January 1, 2014.

1		I hold a Master in Business Administration degree from Pace University and a
2		Bachelor of Science degree in Industrial Engineering from the Pennsylvania State
2		University
3		University.
4	Q.	What is the purpose of your testimony in this proceeding?
5	A.	The purpose of our testimony is to present the Company's electric sales and customer
6		forecasts used to support the revenue requirement presented in this filing.
7	Q.	Are you sponsoring any exhibits in support of your testimony?
8	A.	Yes. We are sponsoring the following exhibits, which were prepared by us or under
9		our direction and supervision:
10 11		Exhibit (SRFP-1) - Annual Residential and Commercial & Industrial Sales per Customer Models: Statistical Results
12		Exhibit (SRFP-2) - Residential and Commercial & Industrial Sales Forecast
13		Exhibit (SRFP-3) - Other Sales Forecast
14 15		Exhibit (SRFP-4) - Sales Forecast Reductions for Energy Efficiency & Renewables and Cogeneration
16		Exhibit (SRFP-5) - System Sales Forecast
17		Exhibit (SRFP-6) - Sales Forecast Assumptions
18 19		Exhibit (SRFP-7) - Residential and Commercial & Industrial Customer Forecast
20 21		Exhibit (SRFP-8) - Sales Forecast Input to Revenue Model - Sector Sales Forecast
22		Exhibit (SRFP-9) - Forecast Revenues by Rate Categories
23	II.	ELECTRIC SALES FORECAST
24	Q.	Please give a high level description of your electric sales forecast.
25	A.	We are projecting modest average annual growth in electricity sales for LIPA of 0.3%
26		during the years 2016 through 2018 resulting from the combination of moderate

forecast growth for the Long Island economy, slow projected population growth and aggressive energy efficiency and renewable programs. Please allow me to give some context. LIPA sales achieved average annual growth of 1.9% for the ten years ending in 2007, which was a period of robust expansion for the Long Island economy characterized by advances in employment, household income and home prices. Conversely, LIPA sales declined at an average annual rate of 0.4% for the five years ending in 2013, coinciding with a contraction in the Long Island economy characterized by flat employment and household income and falling home prices. For the period 2016 through 2018, our sales projections assumed mixed results characterized by growth in employment and household income but continuing weakness in home prices, which would produce a moderate expansion of the Long Island economy. We have based our underlying economic assumptions on data provided by Moody's analysts. Additionally, the continuation of the recent trend on Long Island toward slower growth in population and new household formations, with correspondingly slow growth in residential and commercial industrial customers, anticipated for the years 2016 through 2018 would further constrain growth in electricity sales. Finally, aggressive energy efficiency and renewable programs which have contributed to the reductions in electricity use per customer experienced recently - a phenomenon particularly noticeable in the residential sector - are likely to constrain sales growth in 2016 through 2018.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

1 Q. Please explain how the Panel forecasted electric sales? 2 A. The Panel forecasted residential and commercial & industrial electric sales using 3 econometric modeling. Q. Did the Panel use econometric modeling to forecast all of its electric sales? 4 5 A. No. As will be explained later in this testimony, econometric modeling was used to 6 forecast residential and commercial & industrial electric sales only, which together 7 comprise about 97 percent of LIPA's total annual sales. PSEG LI employs other 8 methodologies to forecast the remaining three percent of electric sales relating to 9 other public authorities, street lighting and electric vehicles. Q. 10 What is econometric modeling? 11 A. Econometric modeling is a technique used to estimate economic relationships based 12 on historical data which are then used to make predictions under a set of assumed economic conditions. Econometric models are empirically derived mathematical 13 14 equations that specify the statistical relationship between independent (or 15 explanatory) variables and the dependent variable. Are econometric models frequently used to forecast electric sales? 16 Q. 17 Yes, all of New York's major electric utilities employ some form of econometric A. modeling to forecast all or a portion of their electric sales. 18 19 0. Did you use computer software to calculate the relationship between electric use and the explanatory variables? 20 21 A. Yes, PSEG LI utilizes Statistical Analysis System ("SAS") software to run its 22 econometric models. SAS is a software suite developed by the SAS Institute for

advanced analytics, business intelligence, data management, and predictive analytics. The SAS software is widely used for advanced analytics.

3

4

III.

1

2

RESIDENTIAL ELECTRIC SALES FORECAST

0. Mr. Irrgang, please discuss the residential model.

5 A. The model development process began with the identification of those explanatory 6 variables considered relevant in explaining the dependent variable, e.g., residential 7 sales per residential customer (use per customer). Next, multiple combinations of the 8 independent variables were tested using regression analysis to arrive at a satisfactory 9 model. As seen in rows 3 through 9 on Exhibit ____ (SRFP-1), the statistical results 10 show that the equation fits the data well. For the independent variables all of the tvalues are at least 1.96, except one, which is only slightly below. A t-value of 1.96 12 indicates that the particular variable is statistically significant with 95% confidence. The residential model specification resulted in an Adjusted R^2 of 98.55%, which 13 14 indicates the percentage of variation in the dependent variable that is explained by the 15 independent variables is considerable.

16 17

0.

11

Why did the Company specify "electric use per customer" instead of sales as the dependent variable for the residential model?

The Company specified "use per customer" because it more accurately accounts for 18 A. 19 growth in the market. A simple example is to consider a regression model that uses 20 residential electricity sales for the past 30 years as the dependent variable and 21 includes annual cooling degree days ("CDD") among the independent variables. 22 Using such a model, one can estimate the impact that an extra 100 CDDs (out of

1		about 1,294 CDDs in an average year) will have on sales and it will be the same for
2		each year modeled. This is an obvious problem since the number of LIPA's
3		residential customers has increased by nearly 20% over the past 30 years, meaning
4		the sales impact should be relatively larger for the more recent years. However, if the
5		dependent variable is electricity use per residential customer, then the estimate of the
6		impact of an extra 100 CDD from the model will again be the same for each year
7		modeled; however this value will be multiplied by the number of customers for each
8		year and so would be 20% greater for the most recent year compared to the earliest
9		year. This approach gives a more accurate estimate of the sales impact for any given
10		year.
11 12	Q.	What is the source of the data used to construct the use per customer variable for the residential model?
11 12 13	Q. A.	What is the source of the data used to construct the use per customer variable for the residential model? The electric sales and customer levels for the residential sector were obtained from
11 12 13 14	Q. A.	What is the source of the data used to construct the use per customer variable for the residential model? The electric sales and customer levels for the residential sector were obtained from the customer billing system.
11 12 13 14 15 16	Q. A. Q.	 What is the source of the data used to construct the use per customer variable for the residential model? The electric sales and customer levels for the residential sector were obtained from the customer billing system. Please describe the explanatory or independent variables the Company used to develop its residential electric sales forecast.
11 12 13 14 15 16 17	Q. A. Q. A.	What is the source of the data used to construct the use per customer variable for the residential model? The electric sales and customer levels for the residential sector were obtained from the customer billing system. Please describe the explanatory or independent variables the Company used to develop its residential electric sales forecast. As shown in rows 3 through 9 on Exhibit (SRFP-1), PSEG LI's current model
11 12 13 14 15 16 17 18	Q. A. Q. A.	What is the source of the data used to construct the use per customer variable for the residential model? The electric sales and customer levels for the residential sector were obtained from the customer billing system. Please describe the explanatory or independent variables the Company used to develop its residential electric sales forecast. As shown in rows 3 through 9 on Exhibit (SRFP-1), PSEG LI's current model specification utilized six independent or explanatory variables to forecast its
11 12 13 14 15 16 17 18 19	Q. A. Q. A.	What is the source of the data used to construct the use per customer variable for the residential model? The electric sales and customer levels for the residential sector were obtained from the customer billing system. Please describe the explanatory or independent variables the Company used to develop its residential electric sales forecast. As shown in rows 3 through 9 on Exhibit (SRFP-1), PSEG LI's current model specification utilized six independent or explanatory variables to forecast its residential electric sales per customer: 1) cooling degree days; 2) the ratio of
11 12 13 14 15 16 17 18 19 20	Q. A. Q.	 What is the source of the data used to construct the use per customer variable for the residential model? The electric sales and customer levels for the residential sector were obtained from the customer billing system. Please describe the explanatory or independent variables the Company used to develop its residential electric sales forecast. As shown in rows 3 through 9 on Exhibit (SRFP-1), PSEG LI's current model specification utilized six independent or explanatory variables to forecast its residential electric sales per customer: 1) cooling degree days; 2) the ratio of employees to residential customers; 3) median real home price; 4) annual average real
11 12 13 14 15 16 17 18 19 20 21	Q. A. Q. A.	 What is the source of the data used to construct the use per customer variable for the residential model? The electric sales and customer levels for the residential sector were obtained from the customer billing system. Please describe the explanatory or independent variables the Company used to develop its residential electric sales forecast. As shown in rows 3 through 9 on Exhibit (SRFP-1), PSEG LI's current model specification utilized six independent or explanatory variables to forecast its residential electric sales per customer: 1) cooling degree days; 2) the ratio of employees to residential customers; 3) median real home price; 4) annual average real price of electricity; 5) real regional income per customer; and 6) real gross metro
 11 12 13 14 15 16 17 18 19 20 21 22 	Q. A. Q. A.	 What is the source of the data used to construct the use per customer variable for the residential model? The electric sales and customer levels for the residential sector were obtained from the customer billing system. Please describe the explanatory or independent variables the Company used to develop its residential electric sales forecast. As shown in rows 3 through 9 on Exhibit (SRFP-1), PSEG LI's current model specification utilized six independent or explanatory variables to forecast its residential electric sales per customer: 1) cooling degree days; 2) the ratio of employees to residential customers; 3) median real home price; 4) annual average real price of electricity; 5) real regional income per customer; and 6) real gross metro product per customer. Again the dependent variable is use per customer.

4

Q. What was the historical data set you used to construct the residential electric sales per customer model?

A. Annual historical data from the past 30 years was used.

Q. Please describe the variable "cooling degree day."

5 A. CDD is a weather variable that is used to measure conditions above a fixed reference 6 level, called the base. For example, the National Weather Service calculates CDDs as 7 the number of degrees (°F) that the average temperature for a day (the average of the 8 daily maximum plus minimum temperatures) exceeds a base of 65°F. However, there 9 are alternative definitions of CDDs that are commonly used in the utility industry. 10 PSEG LI calculates cooling degree days as the number of degrees that the average 11 Temperature-Humidity-Index ("THI") for a day (the average of the 24 hourly THI 12 values) exceeds a base of 60 degrees. CDDs are used during warm weather to estimate the energy needed to cool indoor air to a comfortable temperature. Higher 13 14 values indicate warm weather and the need for higher energy demands for cooling. 15 The residential electric sales forecast is based on normal weather conditions where 16 the normal weather is determined by a 30-year average of annual CDDs.

17

Q. Where did the CDD variable come from?

A. CCDs were prepared internally based on information purchased initially from the
 National Weather Service and more recently from a commercial vendor (Schnieder
 Electric) for the Central Park Weather Station.

1	Q.	Could data from a weather station on Long Island be used?
2	A.	National Weather Service data is currently available for several Long Island airport
3		weather stations but the available history was insufficient to develop 30-year normal
4		weather.
5 6	Q.	Why didn't the Panel also use heating degree days ("HDD") as a variable in the residential model?
7	A.	We tested HDD in the model, but it was determined not to be a significant variable
8		and thus was excluded. There simply are not enough customers with electric heat in
9		our service territory to make HDD a significant variable.
10	Q.	What is the "ratio of employees to residential customers" variable?
11	A.	The ratio of employees to customers variable is the number of people employed on
12		Long Island divided by the number of residential customers served by the Company.
13		What we have found is that as the ratio increases, it indicates fewer people are
14		remaining at home and therefore electricity use in the home decreases.
15	Q.	What is your source for the employment data?
16	A.	We obtain the employment statistics from the U.S. Department of Labor, Bureau of
17		Labor Statistics. The Bureau of Labor Statistics is the principal Federal agency
18		responsible for measuring labor market activity, working conditions, and price
19		changes in the economy. Its mission is to collect, analyze, and disseminate essential
20		economic information to support public and private decision-making. PSEG LI is
21		able to obtain employment information specific to its service territory from the
22		Bureau of Labor Statistics.

1

3

4

5

6 7

8

Q. What is the "median real home price" variable?

A. The "median real home price" variable is the median selling price of existing single family homes in our service territory adjusted for inflation using a local Consumer Price Index ("CPI").

Q. What is your data source for the median home price in the Company's service territory?

A. All of our economic data, including median home price, is provided to us by our consultant, Moody's Analytics.

9 Q. What is Moody's Analytics?

10 A. Through its team of economists, Moody's Analytics is a leading independent provider 11 of data, analysis, modeling and forecasts on national and regional economies, 12 financial markets, and credit risk. Moody's Analytics tracks and analyzes trends in 13 consumer credit and spending, output and income, mortgage activity, population, 14 central bank behavior, and prices. It provides concise and timely reports and one of 15 the largest assembled financial, economic and demographic databases, which 16 supports firms and policymakers in strategic planning, product and sales forecasting, 17 credit risk and sensitivity management, and investment research. Its products are 18 used by more than 800 major corporations worldwide, representing a broad range of 19 industries including banking, government, asset management, real estate, utilities, and 20 retail. Major New York utilities, the NYISO, ISO New England, and numerous 21 federal government bodies all use data from Moody's Analytics.

1	Q.	What is the "real income per customer" variable?
2	А.	This variable refers to the regional income for Long Island divided by the number of
3		our residential customers, as adjusted for inflation using the local CPI. We found that
4		for this variable the two year average value of the current year and one year prior
5		works best in the model. The regional income series is obtained from Moody's
6		Analytics.
7	Q.	What is the "real gross metro product per customer" variable?
8	А.	This variable refers to value of all the goods and services produced on Long Island
9		divided by the number of our residential customers, as adjusted for inflation using the
10		GDP implicit price deflator. The gross metro product series is obtained from
11		Moody's Analytics.
12 13	Q.	What did you mean when you referred to the "annual average real price of electricity" variable?
12 13 14	Q. A.	What did you mean when you referred to the "annual average real price of electricity" variable? This refers to the annual average price of electricity that our customers actually paid,
12 13 14 15	Q. A.	What did you mean when you referred to the "annual average real price of electricity" variable? This refers to the annual average price of electricity that our customers actually paid, adjusted for inflation using the local CPI. We obtain this information directly from
12 13 14 15 16	Q. A.	What did you mean when you referred to the "annual average real price of electricity" variable? This refers to the annual average price of electricity that our customers actually paid, adjusted for inflation using the local CPI. We obtain this information directly from the Company billing system. Again we have found that for this variable the two-year
12 13 14 15 16 17	Q. A.	What did you mean when you referred to the "annual average real price of electricity" variable? This refers to the annual average price of electricity that our customers actually paid, adjusted for inflation using the local CPI. We obtain this information directly from the Company billing system. Again we have found that for this variable the two-year average value of the current year and one year prior works best in the model.
12 13 14 15 16 17	Q. A. Q.	What did you mean when you referred to the "annual average real price of electricity" variable? This refers to the annual average price of electricity that our customers actually paid, adjusted for inflation using the local CPI. We obtain this information directly from the Company billing system. Again we have found that for this variable the two-year average value of the current year and one year prior works best in the model. Why did you use annual data for the residential model?
12 13 14 15 16 17 18 19	Q. A. Q. A.	What did you mean when you referred to the "annual average real price of electricity" variable? This refers to the annual average price of electricity that our customers actually paid, adjusted for inflation using the local CPI. We obtain this information directly from the Company billing system. Again we have found that for this variable the two-year average value of the current year and one year prior works best in the model. Why did you use annual data for the residential model? Simply put, it is to minimize the degree of estimation and to maximize the degree of
12 13 14 15 16 17 18 19 20	Q. A. Q. A.	What did you mean when you referred to the "annual average real price of electricity" variable? This refers to the annual average price of electricity that our customers actually paid, adjusted for inflation using the local CPI. We obtain this information directly from the Company billing system. Again we have found that for this variable the two-year average value of the current year and one year prior works best in the model. Why did you use annual data for the residential model? Simply put, it is to minimize the degree of estimation and to maximize the degree of uniformity in the data used to develop the residential model, which I will explain.
12 13 14 15 16 17 18 19 20 21	Q. A. Q. A.	What did you mean when you referred to the "annual average real price of electricity" variable? This refers to the annual average price of electricity that our customers actually paid, adjusted for inflation using the local CPI. We obtain this information directly from the Company billing system. Again we have found that for this variable the two-year average value of the current year and one year prior works best in the model. Why did you use annual data for the residential model? Simply put, it is to minimize the degree of estimation and to maximize the degree of uniformity in the data used to develop the residential model, which I will explain. The dependent variable, use per customer, could be constructed using the residential
12 13 14 15 16 17 18 19 20 21 22	Q. A. Q. A.	What did you mean when you referred to the "annual average real price of electricity" variable? This refers to the annual average price of electricity that our customers actually paid, adjusted for inflation using the local CPI. We obtain this information directly from the Company billing system. Again we have found that for this variable the two-year average value of the current year and one year prior works best in the model. Why did you use annual data for the residential model? Simply put, it is to minimize the degree of estimation and to maximize the degree of uniformity in the data used to develop the residential model, which I will explain. The dependent variable, use per customer, could be constructed using the residential sales reported in the billing system each month. However, there is some disadvantage

electric consumption calculated from one actual meter read and one estimated meter read, introducing a mean absolute percent error of 0.73% of the total billed sales reported each month. The growth in residential sales has only averaged 0.25% per month for the past decade and so is easily overwhelmed by the 0.73% error introduced through estimated meter reads. Furthermore, of the total customers represented in the billed sales for any given month, 87% are from that half of the customers that are in the current month meter read group while the remaining 13% are from the other half of customers that are in the prior month meter read group and those proportions alternate in subsequent months, meaning the two mutually exclusive customer groups are not uniformly represented in the monthly observations. If the period under observation is increased from monthly to quarterly the error introduced through estimated meter reads is only 0.18%, smaller than the 0.75% average growth for the past forty quarters. However, 63% of the total customers represented in the billed sales reported quarterly have their meters read during the first and third months while the remaining 37% have their meters read during the second month and again those proportions alternate in subsequent quarters so the lack of uniformly represented in the observations remains an issue. Additionally, there are calendar differences that further reduce uniformity in quarterly observations. If the period under observation is increased to annual, the error introduced through estimated meter reads is only 0.06%, which is more than an order of magnitude smaller than the 3.0% average growth for the past ten years. Also, the two mutually exclusive customer groups are equally represented in the billed sales reported

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

annually, establishing uniformity in the observations. Finally, the calendars are the same for annual observations (with the exception of Leap Days which are adjusted manually) so uniformity is maintained.

4 5 0.

1

2

3

Mr. Irrgang, please discuss the sources for the assumptions used in the residential electric sales forecast.

6 A. The assumptions represent the projected values of the independent variables for 2014 7 through 2018 as used in the residential use per customer model. Most of the 8 assumptions were provided by Moody's Analytics with the exception of normal 9 cooling degree days, residential customers and the residential price of electricity which were developed internally. In particular, the electricity price assumptions 10 11 represent preliminary values since the sales forecast is developed at an early stage in 12 the overall process, before sales forecast results are available to establish more 13 refined price values. The use of preliminary price projections in econometric 14 modeling is acceptable because of the relative price inelasticity of electric consumption. All of the variables used to create the assumptions for the residential 15 sales forecast are shown on Exhibit ____ (SRFP-6) except for the residential customer 16 17 forecast which is shown in rows 4 through 8 for column 2 on Exhibit ____ (SRFP-7).

Q. Mr. Irrgang, did you make any out-of-model adjustments to the residential electric sales forecast?

20 A. Yes.

18

19

21 Q. Why are out-of-model adjustments necessary?

A. Out-of-model adjustments are necessary because certain factors or variables will
impact projected sales but cannot be adequately accounted for in the model.

1 2	Q.	What out-of-model adjustment was made to your residential electric sales forecast?
3	A.	We adjusted the residential sales forecast to account for demand side management
4		("DSM") initiatives. Reductions in load due to DSM are not a function of local
5		economic conditions (as sales are) but rather represent PSEG LI's deliberate efforts to
6		constrain load growth for purposes of system reliability, operational efficiency and to
7		further New York State public policy goals. Thus an out-of-model adjustment is
8		needed to account for the anticipated reductions due to DSM.
9	Q.	What is DSM?
10	A.	DSM involves reducing electricity use through activities or programs that promote
11		electric energy efficiency or conservation, or more efficient management of electric
12		energy loads.
13 14	Q.	What programs were considered by PSEG LI when calculating its DSM reduction to the residential sales forecast?
15	А.	The DSM reduction is composed of PSEG LI's existing Energy Efficiency and
16		Renewable Energy programs. These programs are discussed in detail in the direct
17		pre-filed testimony of the Utility 2.0 and Energy Efficiency Panel.
18 19	Q.	What were the overall forecasted reductions to the residential electric sales forecast resulting from DSM?
20	A.	Exhibit (SRFP-4), among other things, summarizes the total DSM reductions to
21		the residential electric sales forecast. As set forth in column 2 of the exhibit, the
22		DSM reductions to the residential electric sales forecast are: 270.0 gigawatt hours
23		
		("GWh") for 2015; 444.4 GWh for 2016; 623.0 GWh for 2017; and 787.4 GWh for
24		("GWh") for 2015; 444.4 GWh for 2016; 623.0 GWh for 2017; and 787.4 GWh for 2018.
24		("GWh") for 2015; 444.4 GWh for 2016; 623.0 GWh for 2017; and 787.4 GWh for 2018.

Q. Mr. Irrgang, please summarize the total residential electric sales forecast.

2 A. Referring to Exhibit ____ (SRFP-2), column 2, the projected customers in rows 4 3 through 8 are multiplied by the model predicted use per customer values in rows 11 4 through 15, resulting in the calculated sales shown in rows 18 through 22. Next, the calculated sales are calibrated to the projected year-end sales for the current year as 5 6 shown in rows 25 through 29. Finally the sales reductions shown in rows 32 through 7 36 are subtracted from the calibrated sales, resulting in the sales forecast shown in 8 rows 39 through 43. In summary, as shown in rows 10 through 13 of columns 2 and 9 6 on Exhibit ____ (SRFP-5), the Panel is forecasting residential electric sales growth 10 rates (after accounting for reductions due to the DSM out-of-model adjustment) of: 11 0.34% (32.8 GWh) for 2015; -0.22% (-21.1 GWh) for 2016; -0.93% (-88.9 GWh) for 12 2017; and -0.38% (-35.9 GWh) for 2018. After adjusting for leap years as shown in 13 rows 16 through 19 of columns 2 and 6 on the exhibit, the growth rates are: 0.34% 14 (32.8 GWh) for 2015; -0.49% (-47.1 GWh) for 2016; -0.66% (-62.8 GWh) for 2017; 15 and -0.38% (-35.9 GWh) for 2018.

16 IV. <u>COMMERCIAL & INDUSTRIAL ELECTRIC SALES FORECAST</u>

17 18 19

Q. Mr. Irrgang, did the Panel use econometric modeling to forecast the Company's commercial & industrial electric sales?

A. Yes. The commercial & industrial electric sales forecast was developed using
 econometric models very similar to the one used to forecast the Company's
 residential electric sales.

4

5

6

7

8

9

0.

Please describe the econometric models used to develop the commercial & industrial electric sales forecast.

A. The Panel modeled the following eight distinct segments or sectors for Long Island to forecast its commercial & industrial electric sales: manufacturing ("MFG"); trade, transportation and utilities ("TTU"); leisure and hospitality ("LEI"); financial activities ("FIN"); information ("INFO"); business services ("SER"); education and health services ("EHS"); and government ("GOV"). The Panel developed econometric models for each of these sectors to produce the overall commercial & industrial electric sales forecast.

10 0.

Please discuss the eight commercial & industrial models.

A. As shown in rows 10 through 46 on Exhibit (SRFP-1), the statistical results show 11 12 that the equations fit the data well. Specifically, except for two intercept terms and two of the independent variables, the t-Values are all at least 1.96 indicating statistical 13 significance with 95% confidence. The model specifications resulted in Adjusted R^2 14 15 that indicate the percentage of variation in the dependent variables explained by the 16 independent variables is again considerable: three models are above 90% and all the 17 rest are at least 85% except one, the FIN which is an acceptable value of 82.65%.

18

19

20

21

0.

Were the variables the same for each sector?

A. The dependent variable for each sector model was electricity use per customer. The explanatory or independent variables, however, tended to differ for each sector model as shown in rows 10 through 46 of the specifications on Exhibit __ (SRFP-1).

1	Q.	Please describe the independent variables for the MFG sector.
2	A.	The independent variables for the MFG sector were MFG employment per MFG
3		customer until 1988 and MFG employment per MFG customer after 1988.
4	Q.	Explain the MFG employment per MFG customer variables used in the model?
5	A.	We found that the change in electricity use in response to changes in the ratio of MFG
6		employment to MFG customers was different for the periods up to 1988 and then
7		after 1988 - it had increased over time. We isolated the response by using two
8		variables. The first, MFG employment per MFG customer until 1988 has a value of 0
9		after 1988 while the second, MFG employment per MFG customer after 1988 has a
10		value of 0 before 1988.
11	Q.	What were the variables for the TTU sector?
12	А.	There were two variables: real regional income per TTU customer until 2005 and real
13		regional income per TTU customer after 2005.
14	Q.	Please describe the explanatory variables for the LEI sector.
15	А.	There were seven explanatory variables for this sector: HDD; CDD; real LEI GMP
16		per LEI employee; a category or "dummy" variable for the years 1984-1985; real
17		electric price; real regional income per LEI customer; and the ratio of households in
18		the service territory to LEI customers.
19	Q.	What is a category or "dummy" variable?
20	А.	In statistics and econometrics, a dummy variable is one that takes the value 0 when
21		the condition is not present and a fixed value when the condition is present. Dummy
22		variables do not represent any underlying trends and are used to account for
	1	

anomalies in the historic data set. Dummy variables therefore accommodate a specific set of data points to reduce model error.

3

O.

1

2

4

5

6

7

8

What is the LEI GMP?

A. GMP is one of several measures of the size of the economy of a metropolitan area. Similar to gross domestic product, GMP is the market value of all final goods and services produced within a metropolitan area in a given period. LEI GMP is simply a further refinement of the GMP for the Long Island metropolitan area that only applies to the LEI sector.

9 **O**.

What were the independent variables for the FIN sector?

10 A. There were five: CDD; real Long Island GMP per FIN customer; a dummy variable
11 for years 1992-1994; another dummy variable for the years 2009-2012 and real
12 income per household (two-year average).

13 Q. Please describe the independent variables for the INFO sector.

- A. The econometric model for the INFO sector included three independent variables:
 INFO employment per INFO customer; real electric price (two-year average) and a
 dummy variable for the years 1986-1991.
- 17

Q. What were the independent variables for the SER category?

18 19 A.

The independent variables for this category were SER employment per SER customer; real electric price (two-year average) and a "before 1992" dummy variable.

1	Q.	Please describe the independent variables for the EHS sector.
2	A.	The EHS sector econometric model included three variables: Real Income per
3		household (two-year average); the difference in rates between the ten-year Treasury
4		Note and the three-month Treasury Bill (two-year average) and a "before 1992"
5		dummy variable.
6	Q.	Finally, what were the explanatory variables for the GOV sector?
7	A.	The independent variables for the GOV sector included: GOV employment per GOV
8		customer until 1998; GOV employment per GOV customer after 1998; real electric
9		price; and a "before 1992" dummy variable.
10 11	Q.	Mr. Irrgang, please discuss the sources of the assumptions used in the commercial & industrial electric sales forecast.
12	A.	Most of the assumptions were provided by Moody's Analytics with the exception of
13		normal cooling and heating degree days, commercial & industrial customers and the
14		commercial & industrial price of electricity which were developed internally. All of
15		the variables used to create the assumptions for the commercial & industrial sales
16		forecast are shown on Exhibit (SRFP-6) except for the commercial & industrial
17		customer forecast which is shown in rows 4 through 8 on Exhibit (SRFP-7).
18 19	Q.	Mr. Irrgang, were any out-of-model adjustments made to the commercial & industrial electric sales forecast?
20	A.	Yes, we reduced the commercial & industrial forecast to account for DSM programs.
21 22	Q.	What programs were considered by PSEG LI when calculating its DSM reduction to its commercial & industrial electric sales forecast?
23	A.	As was the case for the residential forecast, the DSM reduction for the commercial &
24		industrial sales forecast is composed of PSEG LI's existing energy efficiency,

1		renewables and demand response programs. These programs are also discussed in
2		detail in the direct pre-filed testimony of the Utility 2.0 and Energy Efficiency Panel.
3 4	Q.	What were the overall forecasted reductions to the commercial & industrial electric sales forecast resulting from DSM?
5	A.	Please refer to Exhibit (SRFP-4). As set forth therein, the DSM reductions to the
6		commercial & industrial electric sales forecast are: 224.7 GWh for 2015; 359.8 GWh
7		for 2016; 496.0 GWh for 2017; and 625.1 GWh for 2018.
8 9	Q.	Were there any other out-of-model adjustments made to the commercial & industrial electric sales forecast?
10	A.	Yes. We made an adjustment for reductions related to cogeneration (which also
11		includes a small amount of reductions due to fuel cells, energy storage and
12		microturbines). In other words, the forecast was adjusted to reflect the projected loss
13		in delivery for customers who plan to supply a portion, or all, of their existing load
14		using on-site generation.
15 16	Q.	What were the forecasted reductions to the commercial & industrial electric sales forecast resulting from cogeneration?
17	A.	As set forth in column 6 on Exhibit (SRFP-4), the cogeneration reductions to the
18		commercial & industrial electric sales forecast are: 369.2 GWh for 2015; 375.7 GWh
19		for 2016; 382.3 GWh for 2017; and 388.9 GWh for 2018.
20 21	Q.	Mr. Irrgang, please summarize the total commercial & industrial electric sales forecast.
22	A.	Once again referring to Exhibit (SRFP-2), in columns 3 through 10, the projected
23		customers in rows 4 through 8 are multiplied by the model predicted use per customer
24		values in rows 11 through 15, resulting in the calculated sales shown in rows 18

through 22. Next the calculated sales are calibrated to the projected year-end sales for the current year as shown in rows 25 through 29. Finally the sales reductions shown in rows 32 through 36 are subtracted from the calibrated sales, resulting in the sales forecast shown in rows 39 through 43. In summary, as shown in rows 10 through 13 of columns 3 and 7 on Exhibit __ (SRFP-5), the Panel is forecasting commercial & industrial electric sales growth rates (after accounting for reductions due to the DSM and cogeneration out-of-model adjustments) of: 1.62% (158.0 GWh) for 2015; 2.10% (208.9 GWh) for 2016; 0.72% (72.7 GWh) for 2017; and 0.04% (3.8 GWh) for 2018. After adjusting for leap years as shown in rows 16 through 19 of columns 3 and 7 of the exhibit, the growth rates are: 1.62% (158.0 GWh) for 2015; 1.82% (181.2 GWh) for 2016; 0.99% (100.5 GWh) for 2017; and 0.04% (3.8 GWh) for 2018.

13

14

15

16

17

V.

OTHER ELECTRIC SALES FORECAST

Q. Mr. Irrgang, were there other categories of electric sales the Panel forecasted?

A. Yes. In addition to residential and commercial & industrial sales, we also forecasted sales related to other public authorities, street lighting, and electric vehicles. These forecasts are summarized on Exhibit __ (SRFP-3).

18 Q. Were these forecasts developed using econometric modeling? 19 A. No.

20 **Q.** Please describe the forecast related to sales to other public authorities.

A. The forecast for this category relates to two customers: the Brookhaven National
Laboratory ("BNL") and the Long Island Railroad ("LIRR"). For BNL, we are

1

2

3

4

5

6

7

8

9

10

11

projecting that its electric load will essentially be stagnant through 2018. The forecasted load for LIRR came directly from LIRR.

Q. How were the street lighting electric sales forecasted?

A. Since customer growth in this area has been stagnant or on the decline, the street lighting sales forecast was developed by looking at trends for existing connected devices. The Company has seen a decrease in sales per existing connected device as more efficient lamps are replacing older lamps. As a result, the Company is forecasting a slight decrease in its street lighting sales.

9 **O**.

How were electric sales related to electric vehicles forecasted?

10 A. This forecast was based on projected population growth and electric vehicle
11 registration trends.

Q. Were any out-of-model adjustments made to the "other" category?

13 A. No.

14 Q. Mr. Irrgang, please summarize the total "other" electric sales forecast.

A. As shown in rows 10 through 13 of columns 4 and 8 on Exhibit ____ (SRFP-5), the
Panel is forecasting "other" electric sales growth rates of: -1.12% (-6.7 GWh) for
2015; 0.43% (2.5 GWh) for 2016; 0.57% (3.3 GWh) for 2017; and 1.20% (7.1 GWh)
for 2018. After adjusting for leap years as shown in rows 16 through 19 of columns 4
and 8 on the exhibit, the growth rates are: -1.12% (-6.7 GWh) for 2015; 0.16% (0.9
GWh) for 2016; 0.84% (4.9 GWh) for 2017; and 1.20% (7.1 GWh) for 2018.

1

2

3

4

5

6

7

8

1

2

3

4

5

6

7

8

9

Q. Mr. Irrgang, what is the Company's overall electric sales forecast?

A. Exhibit _____ (SRFP-5) provides the Company's overall electric sales forecast. Specifically, as shown in rows 10 through 13 of columns 5 and 9 on the exhibit, the Company is forecasting electric sales growth rates of: 0.93% (184.1 GWh) for 2015; 0.95% (190.4 GWh) for 2016; -0.06% (-12.8 GWh) for 2017; and -0.12% -25.1 GWh) for 2018. After adjusting for leap years as shown in rows 16 through 19 of columns 5 and 6 on the exhibit, the growth rates are: 0.93% (184.1 GWh) for 2015; 0.67% (135.0 GWh) for 2016; 0.21% (42.6 GWh) for 2017; and -0.12% (-25.1 GWh) for 2018.

10

Q. Mr. Irrgang, how was the monthly sales forecast developed?

11 A. Average monthly sales distributions were calculated for the residential sector, for the 12 commercial & industrial sector and for street lighting using the most recently 13 available three years of weather normalized data. Then the annual sales forecasts for 14 the residential, commercial & industrial and street lighting sectors described above 15 were allocated to each month using those average distributions. The monthly 16 distribution for the railroad was derived from recent load research analysis. 17 Forecasted sales to Brookhaven National Labs were allocated using a fixed hourly 18 amount.

19Q.Mr. Irrgang, how did you validate the models used to develop the electric sales
forecast?

A. In addition to the statistical results for the models shown on Exhibit _ (SRFP-1) and
 discussed previously, the Company has determined that its mean absolute percent
 error ("MAPE") of 1.6%, representing the average magnitude of the difference
between forecasted next-year electricity use on Long Island and actual electricity use for the eleven year period from 2000 through 2011, compares favorably to the EIA's MAPE of 1.8% in forecasted versus actual electricity use for the nation over the same period. Furthermore, the Company has found that its MAPE of 1.3% for forecasted electricity use on Long Island versus weather-normalized electricity use over the nine year period from 2005 through 2013 compares favorably with the NYISO's MAPE of 1.9% for forecasted versus weather normalized electricity use in New York State over the same period. Additionally, we conduct ex-post analysis: the residential model prediction was 0.9% below the 2013 actual and the combined prediction for the eight commercial & industrial models was 0.5% below the 2013 actual.

11

12

13

14

15

16

17

18

10

VI. <u>ELECTRIC CUSTOMER FORECAST</u>

Q. Mr. Irrgang, how did the Panel develop PSEG LI's electric customer forecasts?

A. We developed the electric residential customer forecast based on trends in population growth obtained from Moody's Analytics. In our experience, the Company's residential customer growth closely mimics population growth in the service territory. Our commercial & industrial customer forecasts were based on trends in both population growth and employment growth. Again, our data source for this forecast is Moody's Analytics.

19 20

21

Q. What is PSEG LI's projected residential customer growth?

A. As shown in rows 11 through 14 of columns 2 and 4 on Exhibit ____ (SRFP-7), in 2015, the Company is forecasting its residential customer base to increase by 3,000

1

2

3

4

5

6

7

8

customers, followed by customer increases of 2,500 in years 2016, 2017, and 2018. This equates to growth rates of approximately 0.30% in 2015 and approximately 0.25% per year for years 2016-2018.

0. What is PSEG LI's projected commercial & industrial customer growth?

A. The Company's commercial & industrial customer forecast is also set forth in Exhibit ___(SRFP-7). As shown in rows 11 through 14 of columns 3 and 5 on the exhibit, the Company is forecasting its commercial & industrial customer base to increase by 400 customers in 2015, followed by customer increases of 350, 200 and 100 in years 2016, 2017, and 2018, respectively. This equates to growth rates of approximately 0.37% in 2015, 0.32% in 2016, 0.18% in 2017 and 0.09% in 2018.

11 VII. **RISKS TO THE ELECTRIC SALES FORECAST**

12 0. Mr. Irrgang, please identify the risks that could change the sales forecast presented herein.

A. 14 First, weather is the most obvious risk. About half of the time we attribute a change 15 to annual sales (higher or lower) of at least 0.5% due to the occurrence of either 16 hotter- or colder-than-normal variations in weather during summer periods, with 17 winter periods contributing somewhat less variability. A second risk to the sales 18 forecast is due to the economic outlook, which was provided by Moody's Analytics in 19 August 2014 and hence will be 16 months old at the beginning of the three year 20 period covered by this forecast, and which could differ significantly from the eventual 21 economic conditions. Another risk is that further reductions to sales could occur 22 under the Utility 2.0 program described elsewhere in this testimony. The Utility 2.0

1

2

3

4

5

6

7

8

9

10

1		program is discussed in detail in the direct pre-filed testimony of the Utility 2.0 and
2		Energy Efficiency Panel.
3	VIII.	ELECTRIC REVENUE FORECAST
4 5	Q.	Mr. Karol, please describe how you calculated the forecasted electric delivery revenues.
6	А.	Forecast electric delivery revenue is calculated in the Revenue Model. The Revenue
7		Model consists of a series of linked Excel files that are used to forecast the revenue.
8 9	Q.	What are the factors that have the biggest impact on the Revenue Model you support in this case?
10	А.	Sales and growth projections as supported by Mr. Irrgang are the biggest drivers of
11		the Revenue Model. Other influencing factors include projected changes in power
12		supply and other costs.
13	Q.	What are the inputs to the Revenue Model?
14	А.	The first series of files reads in as input to the sales and customer forecast by Sector.
15		Long Island Choice ("LIC") forecast is read in as input from another file and the LIC
16		Sales and Customers are subtracted from the appropriate sector forecast. The
17		Recharge New York sales forecast is also read in and subtracted from the commercial
18		sector forecast. The Street Lighting, BNL and LIRR forecasts are also read in.
19		Exhibit (SRFP-8) shows the incoming sales forecast.
20	Q.	How do you process these inputs?
21	A.	Sales are then broken into Rate Code ("RC") sales and customer forecasts based on
22		historical ratios. The LIC forecast is received at a rate class level. This file then
	1	

feeds a series of files that parse certain of the rate class data further, based on voltage, time of use as necessary.

These inputs then flow into the main module of the Revenue Model, where these sales are priced out at proposed tariff rates and meters are priced out at currently effective tariff rates. Demand for certain commercial rate codes is estimated based on historical ratios of demand to sales multiplied by the forecasted sales. This then gets priced out at currently effective tariff rates. The forecasted sales are multiplied by the forecasted monthly Power Supply Charge and the Efficiency & Renewable Charge. The Shoreham Property Tax Settlement Charge and New York State Assessment Surcharge are applied as percentages. The resulting amounts are then multiplied by the applicable state and local gross revenue tax ("GRT"). All of these components sum to the total revenue by RC by month. These individual rate codes are summed up on a sector basis. In addition, revenue that is not derived from sales is forecast in another Excel file based on historical actuals.

This main module of the Revenue Model then links to a Budget summary file which is typically used for Budget preparation. Exhibit __ (SRFP-9) is output from this file, depicting revenue from sales by rate class by components, including delivery revenue.

19

20

21

0.

How are the forecasted electric sales and customers allocated among the RCs?

A. Generally, the allocation is based on the historical percentage of sales allocation among the RCs. For example, if an RC historically accounts for 33% of the

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

1		Company's sales, the forecast assumes that that RC will continue to represent 33% of
2		the Company's sales.
3	Q.	Are all of the commercial RCs included in the revenue forecast?
4	А.	No, the commercial electric revenue forecast is made up of only the major RCs. If an
5		RC is not included in the forecast, the sales from that excluded RC are allocated to
6		RC 285, the Company's largest commercial RC.
7	Q.	Why is it necessary to breakdown the forecast into sub-RCs?
8	А.	Breaking down the forecast into sub-RCs allows us to account for differences in the
9		rates our customers pay within an RC, for example, due to time-of-use rates, primary
10		versus secondary voltage.
11	Q.	What is the Efficiency & Renewables Charge?
12	А.	This charge includes Efficiency and Renewable Expenditures approved for recovery
13		as outlined in the Tariff.
14	Q.	Please explain the New York State Assessment Surcharge.
15	A.	This surcharge recovers from customers payments mandated by Public Service Law §
16		18-a(6). The New York State Assessment is payable to the State of New York and
17		has a stated intention to encourage conservation of energy and other resources on
18		Long Island. We project annual reductions in the New York State Assessment
19		Charge before the initiation of an annual \$8 million DPS Assessment commencing
20		January 1, 2016. This DPS Assessment is the only component of the New York State
21		Assessment included in revenue projections after December 31, 2017.

1 Q. What is the Shoreham Property Tax Settlement Factor? 2 A. The factor is for the repayment of the Authority bonds with respect to the funding of 3 the Shoreham Property Tax Settlement. It is applied as a surcharge to each 4 customer's billed charges as dictated by the tariff. 5 Q. Please describe the Revenue Tax Charge 6 A. The bill for electric service is increased by surcharges to recover taxes imposed by 7 cities, incorporated villages and New York State. Sales tax, if applicable, is shown 8 separately on each bill and is not included in the revenue forecast. 9 **O**. Please summarize PSEG LI's forecasted revenue from sales. 10 A. PSEG LI's total electric revenue (in \$000s) from sales forecast for 2016 is 11 approximately \$3,697,474 (\$3,528,574 for bundled customers and \$168,900 for LIC 12 customers), broken down by rate category as follows: (\$000)**LIC Customers Rate Category Bundled Customers Total Residential** \$1,937,176 \$288 Total Commercial \$1,514,119 \$168,612 \$24,811 **Total Street Lighting** n/a Total LIRR \$49,232 n/a Total Brookhaven \$3,236 n/a As shown in Exhibit __ (SRFP-9), PSEG LI is forecasting its total electric revenues 13 14 from sales (in \$000s) to increase to \$3,711,708 in 2017 (0.4% increase) and then 15 increase to \$3,716,645 by 2018 (0.1% increase). 16 Q. Does this conclude your direct testimony at this time? A. 17 Yes, it does.

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-00262

REBUTTAL TESTIMONY OF BRYAN IRRGANG ON SALES AND REVENUE FORECASTING

Date: June 4, 2015

TABLE OF CONTENTS

I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY	1
II.	DPS STAFF'S RECOMMENDED SALES FORECAST	2
III.	DPS STAFF'S MODELS	9

1	I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY
2	Q.	Please state your name and title.
3	A.	My name is Bryan Irrgang. I am the Manager of Electric Load Forecasting for PSEG
4		LI.
5	Q.	Have you previously submitted pre-filed testimony in this proceeding?
6	A.	Yes, as a member of the Sales and Revenue Forecast Panel.
7	Q.	What is the purpose of your testimony here?
8	A.	I will discuss my response to the prepared testimony of DPS Staff regarding the
9		electric sales forecast for the rate plan period.
10	Q.	Do you support any exhibits as part of your rebuttal testimony?
11	A.	Yes. I support the following exhibits which were prepared by me or under my
12		supervision:
13		Exhibit(SRFP-REB-1) – Year-To-Date April & Annual Sales
14		Exhibit(SRFP-REB-2) – System Sales Forecast
15		Exhibit(SRFP-REB-3) – Sales Per Customer
16		Exhibit(SRFP-REB-4) – Sales Forecast Check
17	Q.	Do you have any preliminary comments?
18	A.	I would like to begin by expressing my appreciation for Staff's efforts in reviewing
19		the electric sales forecast provided with my direct pre-filed testimony and supporting
20		exhibits. It appears we agree in a number of key areas. For example, Staff did not
21		suggest that my method of developing sales forecasting models with an annual
22		frequency was disadvantageous. Staff also did not suggest that my method of using
23		electricity use per customer as the dependent variable in all of my sales forecasting

1		models was less desirable than using total sales. I also note that Staff's approach was
2		similar to mine in its use of both an annual model frequency and electricity use per
3		customer as the dependent variable, which appears to suggest Staff's agreement with
4		the arguments I made supporting that approach.
5	II.	STAFF'S RECOMMENDED SALES FORECAST
6 7	Q.	Have you reviewed the sales forecast submitted by Staff, covering the years 2015 – 2018, as presented on page 1 of Exhibit_(AL-2) ?
8	A.	Yes. After careful analysis my conclusion is that the sales forecast recommended by
9		Staff is unsupportable and should not be accepted in place of my sales forecast.
10	Q.	Please explain how you reached this conclusion.
11	A.	Examination of Staff's recommended sales forecast revealed an immediate and
12		obvious concern that its projection for 2015 appeared to be significantly higher than
13		could be reasonably supported. That high forecast for 2015 is carried forward
14		through the subsequent years, rendering its entire forecast for the years 2015 through
15		2018 unacceptable.
16 17	Q.	What indication did you find that Staff's recommended system sales forecast for 2015 appeared high?
18	A.	Using the 19,852,246 MWh of weather normalized sales reported for the system for
19		2014 (and as provided in response to DPS-PRELIMINARY-0069) as a reference
20		point, in order to reach Staff's recommended system sales forecast of 20,361,737
21		MWh in 2015 would require 509,491 MWh (2.6%) of annual growth, an amount that
22		has not been approached in ten years.

2

3

4

5

6

7

8

9

11

0.

Did vou investigate further?

A. Yes, I found that Staff's recommended sales forecast for 2015, in comparison to weather normalized experienced sales for 2014, included slight decreases of 8,384 MWh (0.1%) in residential sales and 4,985 MWh (0.8%) in other sales (for street lighting, railroad, Brookhaven National Labs and electric vehicles) but an exceptionally large increase of 524,534 MWh (5.3%) in commercial and industrial sales. From the weather normalized value of 9,730,020 MWh of commercial and industrial sales reported for 2014 (and as provided in response to DPS-SRFP-0402), Staff's forecast of 10,254,554 MWh for 2015 would represent an unprecedented 10 amount of annual growth, one that has never been approached. Therefore, in my review of Staff's forecast, I focused my attention on commercial and industrial sales.

12 Q. How did you confirm your concerns about Staff's commercial and industrial sales forecast for 2015? 13

14 A. By consideration of weather normalized sales experienced during the January through 15 April period and the subsequent full year sales. The 2,970,213 MWh of weather 16 normalized commercial and industrial sales experienced during January through April 17 2015 is 24,816 MWh (0.8%) below the 2,995,029 MWh of sales experienced last year, suggesting that sales are not maintaining the pace of last year. Furthermore, 18 19 weather normalized commercial and industrial sales for January through April 2015 20 are below the amount for the same period in each and every one of the last eleven 21 years; however, not once during those years did the subsequent annual sales reach the 22 amount recommended by Staff for 2015, as shown in Exhibit (SRFP-REB-1).

1	Q.	Did you consider anything else to confirm your concerns?
2	A.	Yes, I also considered that the weather normalized commercial and industrial sales
3		for January through April 2015 are tracking 95,973 MWh below LIPA's approved
4		budget forecast. This year-to-date sales variance indicates projected year-end sales of
5		9,836,799 MWh, which is 417,775 MWh (4.0%) below DPS Staff's forecast.
6 7	Q.	How could the concerns you have raised about DPS Staff's sales forecast been avoided?
8	A.	During an initial check to establish reasonableness, the growth represented by DPS
9		Staff's sales forecast for 2015 over the weather normalized sales reported for 2014
10		should have been thoroughly analyzed. Such an analysis would have revealed that
11		DPS Staff's forecasted growth in commercial and industrial sales for 2015 appeared
12		questionably high by historical standards.
13 14	Q.	Please explain how the concerns about DPS Staff's sales forecast might have been addressed.
15		Year-to-date sales should have been examined in comparison with historical sales
16		during the past ten years. This would have revealed that weather normalized
17		commercial and industrial sales were not keeping pace with the sales for the same
18		period during those prior years. At this point, the review would have revealed
19		considerable evidence that DPS Staff's recommended sales forecast for 2015 is
20		unlikely to be reached and so a more supportable forecast incorporating the year-to-
21		date sales results would have been developed.

Q. How would that be accomplished?

A. There are a couple of ways to accomplish this step. One method would be to combine the weather normalized sales for January through April 2015 with the sales for May through December 2014. Another method would be to adjust the sales forecast in LIPA's Approved 2015 Budget with the year-to-date April sales variance. The latter method is preferred because the approved budget represents the economic outlook for 2015 while the former method relies heavily upon the economic conditions that existed in 2014. In addition, LIPA's Approved 2015 budget forecast was independently examined by the NYISO and found to compare favorably to their own internally developed forecast and thus was accepted by the NYISO for incorporation in its 2015 Load and Capacity Data "Gold Book" report, which is the statewide resource and reliability planning reference.

13 Q. Was LIPA's approved 2015 budget sales forecast available to the DPS Staff?

A. The 2015 sales forecast is included in LIPA's approved 2015 budget document which
is available from the LIPA web site. Also, the associated 2015 budget sales forecast
was submitted by PSEG LI in this proceeding with the direct pre-filed testimony of
the Sales and Revenue Forecasting Panel, Exhibit_(SRFP-REB-5). DPS Staff did
not request any of the monthly 2015 budget variance reports.

Q. What are the projected year-end sales that resulted from the 2015 budget variance analysis?

A. To begin, the projected-year-end ("PYE") values should be developed for all of the
 major components of the sales forecast. LIPA's Approved 2015 Budget sales were
 adjusted as follows: residential sales were adjusted up by the year-to-date variance of

1 43,352 MWh (0.5%) to 9,602,654 MWh; commercial and industrial sales were 2 adjusted down by the YTD variance of -95,973 (-1.0%) MWh, to 9,836,799 MWh; 3 other sales (street lights, railroad, Brookhaven National Labs, electric vehicles) were 4 adjusted up by the YTD variance of 9.272 MWh (1.6%) to 594,718 MWh. Utilizing 5 the Approved 2015 Budget and the sales variance for January through April, the 6 projection for system sales is 20,034,170 MWh, which is 327,567 MWh (1.6%) lower 7 than DPS Staff's recommended sales forecast for 2015. 8 **O**. How could the 2015 projected-year-end sales be used to avoid the concerns with 9 **DPS Staff's recommended sales forecast?** The procedure is referred to by the Company as calibration. First, the reductions 10 A. proposed by DPS Staff would be added back to DPS Staff's recommended sales 11 12 forecast and also to the new PYE forecast for 2015. Next, the PYE 2015 sales would 13 replace DPS Staff's recommended sales forecast for 2015. Then the growth rate 14 (before reductions for DSM and cogeneration) from DPS Staff's forecast for 2016 15 would be applied to this new starting point. Next in turn annual growth rates from 16 DPS Staff's forecast for 2017 and 2018 would be applied in the same manner. 17 Finally, the reductions would be subtracted from the sales to produce the calibrated sales forecast. 18 19 **O**. Is calibration of the sales forecast necessary? A. 20 I believe so. Calibration of the sales forecast accomplishes two important functions: 21 first, calibration aligns the initial sales forecast with calendar month sales. Since the

electricity use models are developed using the billing sales history, the initial salesforecast is more representative of billing month sales rather than calendar month

1		sales. However, it is calendar month booked sales and revenues that are used for
2		budgets and financial reporting. History has shown that the differences between
3		billing month and calendar month sales can be considerable, even on an annual basis.
4		Second, since the electricity use models are developed from annual data, calibration is
5		a technique to incorporate the latest, though not full-year sales results into the
6		process. The Company applied calibration to our own initial sales forecast before
7		filing, as described in the direct pre-filed testimony of the Sales and Revenue
8		Forecasting Panel on page 15 for residential sales and page 21 for commercial and
9		industrial sales. The calibration process was further described in the Company's
10		response to DPS-SRFP-0239.
11 12	Q.	Did DPS Staff provide an explanation as to why they did not calibrate their initial sales forecast?
13	A.	The question was addressed on page 31 in the prepared testimony of DPS witness
14		Liu:
15		Q. Is a recalibration procedure required for your model forecasts?
16 17 18		A. No. Because my forecast models are developed using historical data through 2014 and the model forecast has already reflected the full year sales of 2014.
19 20 21		Q. Without a calibration adjustment, is your annual sales forecast representative of annual calendar month sales for the forecasting period?
22 23 24		A. Yes. Although my models are developed using historical annual data of billing month sales, the forecast should be representative of the annual calendar month sales.
25		The witness goes on to explain that the differentials "for February through December

1		year-to-year differential that may exist in part of the calendar month of December,"
2		which "should be minimized with a normal weather assumption."
3		First, by neglecting to consider calibration, DPS Staff chose to ignore the sales
4		experience for January through April of this year, which temporally represents one
5		third of the year and therefore could have given a fairly reliable indication of whether
6		or not its forecast was on track – as explained above; the evidence suggests that their
7		forecast is not on track. Second, annual billing month and calendar month sales can
8		differ significantly, beyond weather effects and it is unreasonable, in my view, to
9		ignore the risk.
10 11 12	Q.	If DPS Staff had calibrated their initial sales forecast to incorporate the results for January through April of this year as you described above, what would DPS Staff's forecast have shown?
13	A.	DPS Staff's calibrated sales forecast would be significantly lower than PSEG LI's
14		sales forecast filed in this proceeding, in each of the years from 2016 through 2018,
15		which follow from the decrease in the 2015 sales forecast. The results are shown in
16		Exhibit(SRFP-REB-2) which compares DPS Staff's recommended sales forecast,
17		DPS Staff's forecast after calibration by PSEG LI and PSEG LI's filed sales forecast.
18 19 20 21 22 23	Q.	Exhibit_(AL-4), pages 3 and 5 showing DPS Staff's Residential and Commercial Sales Forecast Models, are dated April 2, 2015 - presumably by the software used to generate those models. At that time, obviously, sales for the complete month of April were unknown. Would an analysis using January through March sales suggest an outcome different from the conclusion reached when the calca regults for April were class considered?
		sales results for April were also considered.
24	A.	No, the conclusion would have been the same. The weather normalized year-to-date

26 year and below the approved 2015 budget forecast. Since temporally the three-month

period represents one quarter of the year, this is still a significant indication of the need for calibration. DPS Staff's recommended sales forecast, if calibrated to the 2015 projected year-end sales developed using the weather normalized sales results for January through March only, would not be significantly different from the one described earlier which was calibrated to the PYE sales developed to include the April sales results.

Q. Would an analysis using the ten-year average definition of cooling- and heatingdegree-days recommended by Staff instead of the thirty-year average used by PSEG LI have led to a different conclusion?

- A. No, the conclusion would have been the same because first, the difference in annual sales when weather-normalized by replacing degree day averages for a thirty-year period with averages for a ten-year period is small, less than 0.2% and second, all sales results previously weather-normalized would move in the same (lower) direction so the difference would remain more or less unchanged.
- 15 **III.**

DPS STAFF'S MODELS

16 Q. Please describe DPS Staff's sales forecast modeling.

17 A. DPS Staff developed two sales forecasting models, one for residential sales and the other for commercial and industrial sales. Using a single model for the residential 18 19 sales forecast is appropriate because the residential customers are fairly homogeneous 20 with 85 to 90 percent of electricity use consumed by customers in the General Use There is, however, significant diversity among the commercial and 21 rate class. 22 industrial customers. One indication of the diversity is by rate class: About 47 23 percent of customers are in the Small General Use rate class but consume about 5

1

2

3

4

5

6

7

8

percent of the electricity; about 48 percent of customers are in the Large General Use class and consume about 35 percent of the electricity; and about 5 percent of customers are in the Large, Multiple Rate Period class and consume about 60 percent of the electricity. Another measure of the diversity in electricity use within the commercial and industrial sector is by NAICS sectors. For example, thirty years ago about 18 percent of electricity was consumed in the manufacturing sector, while now it is down to about 8 percent. As another example, electricity use per customer has increased by about 7 percent since the late 1980s for the entire commercial and industrial sector, but it has increased by 37 percent in the trade, transportation and utilities sector while declining by about 20 percent in the manufacturing sector. The point here is that a lot of information is lost when the entire commercial and industrial sector is represented by a single model which is why my preference is to model by NAICS sectors. For these reasons, in my view, using a single model to forecast commercial and industrial electricity sales is a simplified and unsupportable approach.

Q. Briefly describe the advantages of forecasting commercial and industrial electricity use by using eight NAICS sector models over the single model approach used by DPS Staff.

A. When the U.S. Department of Labor releases the Jobs Report each month (which
 usually occurs on the first Friday of the month) media attention properly focuses on
 which sectors are experiencing growth. For example, it examines whether there is
 more growth in the relatively low wage retail sector or in the better quality, more
 highly paid financial services sector, because some jobs are better for the economy

1

2

3

4

5

- 6 7 8 9 10 11 12 13 14
- 15 16 17

1		than others. The major economic series of employment and gross Long Island
2		product are provided by our consultant by NAICS categories and therefore they align
3		well with my models. In summary, since customers have different energy use
4		intensities depending on which sector they are in, utilizing NAICS models that accept
5		NAICS input assumptions is a more comprehensive way to develop the commercial
6		and industrial electricity sales forecast in comparison to DPS Staff's single model
7		approach.
8 9 10	Q.	Please respond to DPS witness Liu's testimony that PSEG LI's forecast should not be adopted because "generally, most of the forecast models are specified incorrectly or failed important econometric tests"?
11	А.	In the context of forecasting energy use for Long Island, the most important test is
12		forecast accuracy. I have been using the same general configuration of one
13		residential and eight NAICS sector regression models for 15 years and can report a
14		mean absolute percent error (MAPE) of 1.1%. In my direct pre-filed testimony for
15		the Sales and Revenue Forecasting panel on pages 23-24 I described how my forecast
16		accuracy compares favorably to that of the EIA and the NYISO during overlapping
17		periods.
18 19	Q.	Please address the concern raised about positive serial correlation in your models?
20	A.	The Durbin Watson test shows that the possibility of the presence of positive serial
21		correlation cannot be rejected for three of my eight NAICS models (at the 5%
22		significance level) indicating the undesirable possibility that adjacent residuals may
23		be tending to cluster by sign (auto-correlated). One method to address
24		autocorrelation is to utilize an adjustment model which predicts the current value of

the dependent variable using adjustments to the previous (or lagged) values of both the dependent and explanatory variables. Such a model estimates a coefficient of adjustment to establish how much of the lagged variables are used to make predictions. If the coefficient of adjustment had a value of zero then there would be no impact from either the lagged dependent or explanatory variables and only the current values of the explanatory variables would be used to predict the dependent variable. A coefficient of adjustment with a value of unity represents the other extreme, and the predicted value of the dependent variable would include the full value of the lagged dependent variable. Staff proposes a residential sales forecasting model with a coefficient of adjustment close to unity at 0.95530 (shown as the AR(1)) autoregressive term on page 3 of Exhibit (AL-4)), which for the intended application leaves relatively little of the prediction to be explained by the explanatory variables. My opinion is that this is not a satisfactory approach to forecasting annual electricity use on Long Island, and for this particular application auto-regression should be reserved for confirmation of the results obtained from more fully specified models, as I'll explain further on.

Q. How do you address the concern raised about multicollinearity in your models?

A. It is well known that much economic data exhibits some degree of linear dependence, known as multicollinearity. One solution would be to remove from the regression model those explanatory variables which exhibit a near-linear dependence. If the relationship between explanatory variables is not perfectly linear, than some information may be lost when variables are dropped. Alternatively, one can usually

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

obtain good forecasts despite the presence of multicollinearity, although it may be difficult to disentangle the influences of the explanatory variables. In my view, in this particular application of forecasting electricity use for Long Island, including more explanatory variables is justified.

Q. How do you ensure that your modeling preferences are not leading to misleading sales predictions?

7 Although it is my preference not to employ auto-regression to address serial A. 8 correlation and not to exclude explanatory variables which are significant but may 9 exhibit some linear dependencies, I typically perform a robustness check to confirm the acceptability of the sales forecast under development. The robustness check 10 11 consists of identifying those models that exhibit the possibility of positive serial 12 correlation in the residuals and/or multicollinearity in the explanatory variables from 13 among the nine regression models that are under consideration for developing the 14 sales forecast. The identified models are then re-specified utilizing a single economic variable to address concerns about multicollinearity and/or by introducing a 15 coefficient of adjustment auto-regressive term to address concerns about positive 16 17 serial correlation. Results for the robustness check results are shown in Note that these re-specified models exhibit low 18 Exhibit (SRFP-REB-3). 19 possibilities of the presence of either serial correlation or multicollinearity but generally have less explanatory capability than the preferred models already 20 21 presented in Exhibit_(SRFP-1). Results from these re-specified models provide a 22 check of the robustness of my recommended sales forecast. For this illustration, I re-

1

2

3

4

5

specified six out of the nine sales forecasting models while three of the preferred models were retained. Among the six re-specified models, five contain an auto-regressive term and economic variables were dropped from three models. The resulting predicted annual growth rates for sales represents what I consider to be acceptable differences, relative to the MAPE described above, when compared to the filed forecast. See Exhibit___(SRFP-REB-4).

7

Q. Please summarize your position on the models.

8 A. Developing sales forecasting models involves a series of preferences. DPS Staff has 9 chosen a simplified approach to modeling electricity use on Long Island. DPS Staff 10 has developed two models, each utilizing a single econometric variable, income (per 11 capita) in the residential model and real gross metro product in the commercial and 12 industrial model, with all other economic impacts on electric sales occurring by 13 proxy. So for example, in 2009 growth in real gross metro product declined by 0.6%, 14 about the same as the decline for the prior year of 0.7%; however, employment 15 declined by 2.9%, much more steeply than the decline of 0.1% in the prior year, and 16 commercial and industrial sales declined by 4.8%, again much more steeply than the 17 decline of 1.1% for the prior year. In this case, the change in sales and employment 18 were similar to each other and dissimilar from real gross metro product. The situation 19 is further exacerbated by DPS Staff's use of a single model for the entire commercial 20 and industrial sector, meaning much information about the dissimilar NAICS sectors 21 does not contribute to the commercial and industrial sales forecast. In comparison to 22 DPS Staff's two simple models, my nine models present a more complete

1

2

3

4

5

representation of electricity use on Long Island, incorporating more economic 2 information of significance, including income, home prices and interest rates, employment, and real gross metro product by NAICS sector. Finally, the sales 3 4 forecasts resulting from my models are checked for robustness against simpler 5 models. For these reasons my sales forecasting models should be accepted over DPS 6 Staff's models. 7 0. Have you reviewed DPS Staff's recommended customer forecast? 8 A. Based on the results through April, while DPS Staff's residential customer forecast 9 appears reasonable, its commercial and industrial customer forecast is not and it is the 10 Company's commercial and industrial customer forecast that is more likely to occur. О. Do you have an opinion on DPS Staff's residential and commercial and 11 12 industrial customer forecasting models? A. The difference is that the DPS Staff's customer forecast models use auto-regressive

13 14 adjustments to the customer level from the previous year with some contribution 15 made by the expected growth in the dependent variable, households for residential 16 customers or employment for commercial and industrial customers. The Company 17 uses a committee to consider customer growth from prior years, expected growth in 18 households, population and employment and also information from the Construction 19 and Marketing departments.

20 0. Did you review DPS Staff's comments regarding the Company's EER forecast?

21 A. Yes. DPS Staff, in their remarks concerning appliance standards and building codes, 22 correctly states that the Company's projections for 2014 - 2015 were developed from 23 a straw proposal for setting goals to reduce energy usage by 15 percent statewide by

1 2015. However, they neglected to state that the Company is using only one third of 2 the proposed reductions, as demonstrated in our response to DPS-SRFP-0329. 3 Although it is reasonable to assume that the curtailment of electricity use due to building codes and appliance standards as reflected in the sales history is captured by 4 5 the sales forecasting models and propagated forward in predictions, it is not prudent to assume that all future effects are captured, since these reductions are taking place 6 7 gradually over time, as noted by DPS Witness Liu on page 35 of his testimony in this 8 proceeding. Therefore the approach of the Company to make continuing, although 9 deeply discounted reductions for building codes and appliance standards in electricity 10 use forecasts is sensible. Furthermore, in contradiction to DPS Witness Liu's 11 statement on page 36 of his testimony in this proceeding, the Company's approach of 12 reducing electricity use forecasts for building standards and appliance codes is not unique in the region. The NYISO, for example, explains in Section I (on pages 9 – 13 14 10) of its 2015 Load and Capacity Data "Gold Book" report: 15 The NYISO employs a two-stage process in developing 16 load forecasts for each of the 11 zones within the NYCA 17 (New York Control Area). In the first stage, zonal load 18 forecasts are based upon regression models that are 19 reflective of annual changes in economic conditions and 20 weather. In the second stage, the NYISO prepares 21 forecasts of energy reductions resulting from statewide 22 energy efficiency programs, new building codes and 23 appliance efficiency standards, and the impact of retail 24 solar PV. These forecasts are based upon new and 25 updated information about the performance of such 26 programs provided by the New York State Department of 27 Public Service (DPS), the New York State Energy 28 Research and Development Authority (NYSERDA), state 29 power authorities, electric utilities, and through NYISO's

1 2		previous participation in the DPS Evaluation Advisory Group.
3 4	Q.	Please discuss DPS Staff's proposed ten percent adjustment to the Company's DSM savings projections.
5	A.	The DPS devised a ten percent reduction to DSM which is described as being specific
6		for their sales forecasting models. I agree with the implication that the DSM savings
7		as adjusted by DPS Staff are not appropriate for my sales forecast.
8	Q.	Please summarize your recommendation for DSM.
9	A.	The assumptions underlying the Company's development of reductions for building
10		codes and appliance standards are reasonable and furthermore reducing forecasted
11		electricity use by those expected reductions is consistent with the approach used by
12		the NYISO for all of the Zones in New York State. Also, the DSM adjustments
13		developed by DPS Staff are not applicable to the Company's sales forecast. For these
14		reasons the reductions for building codes and appliance standards and the remaining
15		components of EER as proposed by the company should be retained.
16 17	Q.	Did you review DPS Staff's remarks concerning normal weather conditions for electric sales forecasting?
18	A.	Yes. On the issue of normal weather I defer to the National Weather Service which
19		continues to define normal weather as the average for a 30-year period. On the issue
20		of normal weather for forecasting electricity use my method is consistent with the
21		Energy Information Administration which used 30-year average weather for their
22		2014 Annual Energy Outlook report. I also found it inconsistent that DPS Witness
23		Liu, on page 28 of his testimony in this proceeding, recommended using ten-year
24		average weather for sales forecasting but using 30-year average weather for peak load
	-	

350		
1		forecasting. For these reasons the Company's use of 30-year average weather should
2		be accepted.
3	Q.	Does this conclude your rebuttal testimony?
4	A.	Yes, it does.

JUDGE PHILLIPS: The next affidavit should be from Staff witness Liu.

3 Thank you, Your Honor. I would like to enter MR. MAZZA: by affidavit the updated testimony and exhibits of Dr. Anping 4 Liu Submitted on June 11, 2015 consisting of Prepared Updated 5 6 Testimony which consists of 45 pages plus a title page and 7 prepared exhibits which include AL-1 consisting of 44 pages, 8 updated exhibit AL-2 consisting of one page, Exhibit AL-3 9 consisting of one page, updated Exhibit AL-4 consisting of five 10 pages and Exhibit AL-5 consisting of five pages plus a cover 11 page and indexes. They are on their way, Your Honors. 12 MR. FORST: (Handing). JUDGE PHILLIPS: We have the affidavits from Witness Liu 13 14 from the Department Staff referring to the Updated Testimony 15 that was provided, and that will be copied into the record as

16 though orally given on the basis of this affidavit which has 17 been marked for identification as Exhibit 111 so 111.

1

2

18

19

20

21

22

23

24

BEFORE THE STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

In the Matter of a

THREE-YEAR RATE PROPOSAL FOR ELECTRIC RATES AND CHARGES SUBMITTED BY THE LONG ISLAND POWER AUTHORITY AND SERVICE PROVIDER, PSEG LONG ISLAND LLC.

Matter Number 15-00262

June 2015

Prepared Updated Testimony of:

Anping Liu Principal Econometrician Office of Market and Regulatory Economics

State of New York Department of Public Service Three Empire State Plaza Albany, New York 12223-1350 Q. Please state your name, employer, and business
 address.

A. My name is Anping Liu. I am employed by the New
York State Department of Public Service, which I
refer to as the "Department." My business
address is Three Empire State Plaza, Albany, New
York.

8 Q. What is your position at the Department?

9 A. I am employed as a Principal Econometrician in
10 the Office of Market and Regulatory Economics.
11 Q. Please describe your educational background and
12 professional experience.

13 Α. I received a Bachelor of Science in Mathematics 14 from Shaanxi Normal University in 1982, a Master 15 of Science from Huazhong University of Science and Technology in 1985, and a Ph.D. in Economics 16 with specialties in Industrial Organization and 17 18 Public Economics from Wayne State University in I joined the Department in 1992. 19 1991.

20 Q. Please briefly describe your current

21 responsibilities with the Department.

A. My current responsibilities include reviewingand developing utility electric sales forecasts

1		and monitoring the wholesale electric market in
2		New York State.
3	Q.	Have you previously testified in any ratemaking
4		proceedings?
5	Α.	Yes. I have testified on electric sales
б		forecasts, wholesale electricity supply costs,
7		and the economic impact of the increasing price
8		of electricity. I provided testimony in Cases
9		14-E-0493, $14-G-0494$, and $10-E-0362$, Orange and
10		Rockland Utilities, Inc.; Cases 13-E-0030, 09-E-
11		0428, 08-E-0539, and 07-E-0523, Consolidated
12		Edison Company of New York, Inc.; Case 05-E-
13		1222, New York State Electric & Gas Corporation;
14		Cases 03-E-0765, 02-E-0198, and 95-E-0673,
15		Rochester Gas and Electric Corporation; and Case
16		02-E-1055, Central Hudson Gas & Electric
17		Corporation. All of these proceedings were
18		before the New York State Public Service
19		Commission.
20	Q.	What is the purpose of your testimony in this
21		proceeding?
22	A.	I will discuss my recommendation regarding the
23		electric sales forecast for Long Island Power
24		Authority, referred to as LIPA, proposed by PSEG

1 Long Island LLC, which I will refer to as PSEG 2 LI or the Company. Specifically, I reviewed and 3 will address the testimony of PSEG LI's Sales and Revenue Forecasting Panel, which I will 4 refer to as the SRF Panel. 5 б In your testimony, will you refer to, or Q. 7 otherwise rely upon, any information produced during the discovery phase of this proceeding? 8 9 Yes. I will refer to, and have relied upon, Α. several responses to Staff Information Requests, 10 11 referred to as IRs. The IRs that I have relied 12 upon are included in Exhibit___(AL-1). 13 Are you sponsoring any other exhibits in support Q. 14 of your testimony? 15 Yes. I am sponsoring four more exhibits, which Α. were prepared by me or under my supervision. 16 Exhibit___(AL-2) is a summary of my forecast 17 18 with a comparison to PSEG LI's forecast. Exhibit____(AL-3) summarizes my forecast 19 assumptions. Exhibit___(AL-4) provides the 20 output and statistics of my forecast models. 21 Exhibit____(AL-5) provides the results of 22 23 statistical tests or analyses of some of PSEG LI's forecast models. 24

1	Q.	Have you developed your own electric sales
2		forecast?
3	Α.	Yes, I have. A summary of my forecast, with a
4		comparison to that of PSEG LI, is provided in
5		Exhibit(AL-2).
6	Q.	Please summarize your recommendation.
7	A.	I forecast total electric sales to be 20,419
8		Gigawatt hours (GWhs) for 2016, and 20,306 and
9		20,226 GWhs, respectively, for 2017 and 2018.
10	Q.	Please describe PSEG LI's electric sales
11		forecast.
12	A.	PSEG LI forecasts total electric sales to be
13		20,268, 20,255, and 20,230 GWhs, respectively,
14		for 2016-2018.
15	Q.	To what degree does your forecast differ from
16		that of PSEG LI?
17	A.	My forecast is 151 GWhs or 0.7 percent above
18		PSEG LI's forecast for 2016. The difference
19		decreases to 51 and 4 GWhs for 2017 and 2018,
20		respectively.
21	Q.	What methodology did you use to develop your
22		forecast?
23	A.	I used econometric time series models to develop
24		my sales forecast. My econometric time series

1 models consist of sales forecast models and customer forecast models. 2 3 Q. What is an econometric time series model? An econometric time series model combines 4 Α. 5 regression analysis with time series analysis, which consists of a structural component and a 6 7 time series component. The structural component 8 is similar to a regression model, which relates 9 electric sales or number of customers to a set of explanatory variables. An energy forecast 10 model typically includes weather and economic 11 12 variables, such as cooling degree days, or CDDs, 13 heating degree days, or HDDs, price of 14 electricity, and an economic "driver." Widely used economic drivers are various statistical 15 factors derived from the service area such as, 16 17 personal income, population, number of household, 18 employment, and gross product. An economic 19 driver is chosen by economic principles, depending on forecasting model and customer 20 21 sector. 22 What is the time series component? Ο. 23 Α. Electric sales and number of customers are time

24 series data, which may have variances that

1 cannot be structurally explained by a regression The time series component is a 2 analysis. 3 process that accounts for these variances through a time series analysis of the regression 4 residuals. This component is included in some 5 of my forecasting models to recognize the 6 7 presence of the relationship among residuals in 8 different periods that often appear in time 9 series data. The time series component of each model has its own structure that is 10 11 statistically determined by the data pattern of 12 the modeled time series. 13 What are the advantages of using econometric Q. 14 time series models for electric sales forecast?

15 A regression model incorporating time series Α. analysis is likely to provide much better 16 forecasts than the regression model alone 17 18 because variances in the electric sales that cannot be explained structurally by the 19 20 regression equation have been accounted by the time series analysis. Through the time series 21 component, information in the residuals of the 22 econometric model is utilized and the forecast 23 24 errors are reduced.

1 How is an econometric time series model Ο. 2 estimated? 3 Α. An econometric time series model is estimated 4 using historical data. The historical data I used are 31 years of data for electric sales, 5 number of customers, average electricity prices, б 7 weather, and other economic variables in LIPA's 8 service territory from 1984 through 2014. 9 What is the source of your data? Q. Historical data was provided by PSEG LI in its 10 Α. 11 responses to DPS-Preliminary-68, DPS-SRFP-255, 12 DPS-SRFP-325, and DPS-SRFP-297, which are 13 included in Exhibit___(AL-1). 14 Please describe the PSEG LI's forecasting Q. 15 methodology. PSEG LI used a hybrid methodology combining 16 Α. regression models, trend analysis, and a 17 18 calibration procedure to develop its sales forecast. Its customer forecast is based on a 19 20 trend analysis. It developed regression models for sales forecasts using 30 year historical 21 data from 1984 through 2013. At the time when 22 23 the forecast was developed, only nine months of data for 2014 sales was available. PSEG LI 24

1 projected the full year 2014 sales using its on-2 going booked sales process based on the nine 3 month of experienced sales. Its final forecast 4 was obtained through a calibration process by 5 applying the annual growth rates of the model 6 forecasted sales to the projected booked sales 7 for 2014.

8 Q. Please explain why PSEG LI's forecast should not9 be adopted.

10 A. Generally, most of the forecast models either
11 are specified incorrectly or failed important
12 econometric tests.

13 Residential Sales Model

14 Please discuss PSEG LI's residential model. Q. 15 As shown in the Company's Exhibit ___(SRFP-1), Α. PSEG LI's residential model assumes use per 16 17 customer as a regression function of price of 18 electricity, CDDs, and four economic variables. These four economic variables are personal 19 20 income, employment, gross metropolitan product 21 or GMP, and median home price in the LIPA 22 service territory.

Q. What concerns do you have with PSEG LI'sresidential model?
1 First, the residential model does not comply Α. 2 with economic principles. The relationship 3 between energy demand and personal income is fundamental to the theory of consumer choices 4 constrained by income or budget. It is commonly 5 recognized by economic principles that a 6 7 consumer's energy use is directly related to income and inversely related to price of energy. 8 9 Residential customers use electricity indirectly from electric appliances and electronic devices 10 11 they own in their residences. Home ownership 12 and appliance purchases are largely dependent on 13 household income. As such, personal income by 14 economic principle is a preferred economic driver in a residential energy demand model. 15 Including other highly related economic 16 variables in a residential model leads to over-17 18 specification and does not comply with economic 19 principles.

20 Q. What is your second concern with PSEG LI's21 residential model?

A. Some of the four economic variables of the
residential model are likely highly correlated.
High correlation among explanatory variables,

1		known as multicollinearity, causes highly
2		inflated variances of the estimated model
3		parameters.
4	Q.	Which economic variables of the residential
5		models are correlated?
6	Α.	Both employment and GMP are likely to be
7		positively correlated with personal income. On
8		the one hand, when regional employment grows,
9		total wages and compensations grows and so does
10		total regional personal income. On the other
11		hand, GMP moves hand in hand with personal
12		income, because regional personal income is a
13		major component of GMP by definition.
14	Q.	Have you prepared an exhibit to demonstrate that
15		PSEG LI's residential model has this
16		multicollinearity problem?
17	Α.	Yes. I have performed a coefficient diagnostics
18		called Variance Inflation Factor, or VIF, for
19		PSEG's residential model. As the test result on
20		page 1 of Exhibit(AL-5) shows, the "Uncentered
21		VIF" column shows the variances of the income,
22		employment, and GMP variables are inflated by
23		more than 1800 to 3600 times and the "Centered
24		VIF" column shows that the variance of for

1 income and GMP variables are inflated by 24 to This indicates that the variances of 2 48 times. 3 the coefficients for the three variables are significantly inflated as result of 4 multicollinearity. 5 б What implications does the multicollinearity Q. 7 problem have for a regression model? 8 Α. The reported regression results are unreliable 9 because the assumption of zero collinearity among explanatory variables is violated. 10 11 Intuitively, the regression analysis is 12 distorted by the high correlation among the 13 independent variables, leaving very little 14 information available to estimate the individual impact of these variables. As a result, 15 individual coefficients of these economic 16 variables cannot be estimated correctly and 17 18 accurately. A model with high multicollinearity is neither robust nor reliable because of 19 20 significantly inflated sampling variance and great sensitivity to small data changes. 21 22 What other concerns do you have with PSEG LI's Ο. residential sales model? 23 The Company's residential sales model does not 24 Α.

1 have a HDD variable. This is in contradiction to LIPA's experience of electric usage in winter 2 3 and it is inconsistent with PSEG LI's practice for weather normalization. As explained in its 4 response to DPS-Preliminary-69, included in 5 Exhibit____(AL-1), electric sales in LIPA's 6 7 service area do vary with HDDs. Exclusion of a 8 HDD variable is incompatible with its methods 9 used to project the 2014 full year sales, which form the base level of its residential sales 10 11 forecast. Also, the lack of a HDD variable is not consistent with residential sale forecast 12 models used by other electric utilities in New 13 14 York.

15 Q. On lines 5 through 9 of page 9, PSEG LI stated 16 that HDD was not a significant variable and 17 there are not enough customers with electric 18 heat to make HDD a significant variable. How do 19 you respond to this statement?

A. First, the insignificance of HDD may be a result
of model over-specification that causes
multicollinearity problem. As I will discuss
below, my residential model does not have a
multicollinearity problem and HDD is a

1 significant variable. Second, attributing the insignificance of HDD to not enough customers 2 3 with electric heat cannot be justified. During the winter, use of electricity varies not only 4 for customers with electric heat but also for 5 customers with gas heat. The most common б 7 residential gas heat furnace is a forced-air 8 central heating system with a blower run on 9 electricity. More than 440,000 of LIPA's residential customers are also natural gas 10 11 The significantly large number of customers. 12 combined electric and gas space heat customers 13 should have made HDD a significant variable. 14 Have you developed your residential sales model? Q. 15 Yes, I have. My residential sales model is a Α. per customer use model in transfer functional 16 17 form. The model's explanatory variables include 18 real price of electricity, per capital real personal income, CDDs, and HDDs. My residential 19 20 sales model also includes a leap year adjustment 21 variable and an autoregressive term. My model does not have the shortcomings of PSEG LI's 22 23 model, because it uses personal income as the only economic driver. 24

1 What is the leap year adjustment variable? Ο. 2 The leap year variable assumes value of 365/366 Α. 3 for leap year and 1 otherwise. The purpose of this variable is to normalize historical sales 4 data by removing the variation in electric sales 5 6 due to the extra day in a leap year. 7 What is the autoregressive term? Ο. 8 Α. First, order autocorrelation, or a phenomenon 9 where a current error term is related to previous error term, was detected during the 10 11 regression analysis. The autoregressive term is 12 included to account for this serial relationship. 13 With the inclusion of an autoregressive term, a 14 generalized, instead of ordinary, least square regression method is used by an iterative 15 process to estimate the model. 16 What format is your residential regression 17 Q. 18 equation component? Both the dependent variable and the explanatory 19 Α. 20 variables are transformed into logarithms to recognize the existence of the non-linear 21 relationship between price and use per customer. 22 23 Such a log-linear regression equation has been widely used for analyzing energy demand. A 24

1 logarithmic transformation reduces regression errors since the residuals now represent 2 3 difference in logarithms. Another advantage is that an estimated coefficient is the average 4 5 ratio of percentage changes between sales and the explanatory variables. The coefficient for 6 7 price of electricity is the well-known price 8 elasticity of demand for electricity, which 9 represents percentage change in electric use in 10 response to one percent change in electricity 11 price. 12 Have you prepared an exhibit to show your Ο. 13 estimated residential model? 14 Yes, I have. The output and statistics of my Α. 15 residential sales model, along with the model forecast, are provided on page 3 of 16 Exhibit___(AL-4). All included explanatory 17 18 variables are statistically significant. The model has an adjusted R-square of 0.98 and a 19 Durbin-Watson statistic of 2.3. 20 What is the Durbin-Watson statistic? 21 0. 22 The Durbin-Watson statistic is provided by a Α. 23 regression analysis to test whether the first 24 order autocorrelation is present in the model.

1 First order autocorrelation exists when regression residuals in adjacent periods are 2 3 correlated. How is the Durbin-Watson statistic used to test 4 0. 5 the existence of first order autocorrelation? 6 The Durbin-Watson statistic ranges from zero to Α. 7 In general, first order autocorrelation four. 8 can be ruled out if the Durbin-Watson statistic is close to two. First order autocorrelation 9 cannot be ruled out if the Durbin-Watson 10 11 statistic is too low or too high. How low or 12 how high depends on a pair of two critical 13 values, which are determined by the number of observations of the historical data and the 14 15 freedom of the model. How are the critical values used to perform a 16 Q. Durbin-Watson test? 17 18 Α. Positive autocorrelation is present if the 19 Durbin-Watson statistic is below the low 20 critical value. Autocorrelation can be ruled out if the Durbin-Watson statistic is above the 21 22 high critical value, but below four minus the 23 high critical value. It is inconclusive if the

24 Durbin-Watson statistic falls in between the two

1		critical values.
2	Q.	Did you look for a value of two for the Durbin-
3		Watson statistic when developing you models?
4	Α.	Yes.
5	Q.	Does your residential sales forecast model past
6		the Durbin-Watson test?
7	Α.	Yes.
8	Q.	Have you applied this same analysis with the
9		Durbin-Watson Statistic in your other models?
10	Α.	Yes. I have utilized the Durbin-Watson statistic
11		in my other models, which I will discuss later
12		on.
13	Com	mercial and Industrial Sales Model
13 14	<u>Comm</u> Q.	mercial and Industrial Sales Model Please discuss PSEG LI's commercial and
13 14 15	<u>Comm</u> Q.	mercial and Industrial Sales Model Please discuss PSEG LI's commercial and industrial models.
13 14 15 16	<u>Comm</u> Q. A.	mercial and Industrial Sales Model Please discuss PSEG LI's commercial and industrial models. PSEG LI divided the commercial and industrial,
13 14 15 16 17	Q.	mercial and Industrial Sales Model Please discuss PSEG LI's commercial and industrial models. PSEG LI divided the commercial and industrial, or C&I, customers into nine subsectors by the
13 14 15 16 17 18	Q.	<pre>mercial and Industrial Sales Model Please discuss PSEG LI's commercial and industrial models. PSEG LI divided the commercial and industrial, or C&I, customers into nine subsectors by the North American Industrial Classification System,</pre>
13 14 15 16 17 18 19	Q.	<pre>mercial and Industrial Sales Model Please discuss PSEG LI's commercial and industrial models. PSEG LI divided the commercial and industrial, or C&I, customers into nine subsectors by the North American Industrial Classification System, referred to as NAICS. PSEG LI developed a</pre>
13 14 15 16 17 18 19 20	Q.	<pre>mercial and Industrial Sales Model Please discuss PSEG LI's commercial and industrial models. PSEG LI divided the commercial and industrial, or C&I, customers into nine subsectors by the North American Industrial Classification System, referred to as NAICS. PSEG LI developed a regression model for each of the first eight</pre>
13 14 15 16 17 18 19 20 21	Q.	<pre>mercial and Industrial Sales Model Please discuss PSEG LI's commercial and industrial models. PSEG LI divided the commercial and industrial, or C&I, customers into nine subsectors by the North American Industrial Classification System, referred to as NAICS. PSEG LI developed a regression model for each of the first eight subsectors for (1) manufacturing, (2) trade,</pre>
13 14 15 16 17 18 19 20 21 22	Q.	<pre>mercial and Industrial Sales Model Please discuss PSEG LI's commercial and industrial models. PSEG LI divided the commercial and industrial, or C&I, customers into nine subsectors by the North American Industrial Classification System, referred to as NAICS. PSEG LI developed a regression model for each of the first eight subsectors for (1) manufacturing, (2) trade, transportation, and utilities, (3) leisure and</pre>
13 14 15 16 17 18 19 20 21 22 22 23	Q.	<pre>mercial and Industrial Sales Model Please discuss PSEG LI's commercial and industrial models. PSEG LI divided the commercial and industrial, or C&I, customers into nine subsectors by the North American Industrial Classification System, referred to as NAICS. PSEG LI developed a regression model for each of the first eight subsectors for (1) manufacturing, (2) trade, transportation, and utilities, (3) leisure and hospitality, (4) financial activities, (5)</pre>

1		health services, and (8) government. The
2		forecast for the ninth subsector "miscellaneous"
3		and is based on a trend and ratio analysis.
4	Q.	What concerns do you have with the Company's C&I
5		models?
6	Α.	The Company's C&I regression models have first
7		order autocorrelation problems as they do not
8		pass the Durbin-Watson test.
9	Q.	Have you performed the Durbin-Watson test for
10		PSEG LI's C&I models?
11	A.	Yes. My Durbin-Watson test results are shown on
12		page 2 of Exhibit(AL-5). The test shows that
13		first order autocorrelation cannot be ruled out
14		for six of PSEG LI's C&I models. Three of PSEG
15		LI's C&I models are tested positive for
16		autocorrelation and five are tested inconclusive.
17		Of the five that are inconclusive, three of them
18		have Durbin-Watson statistics closer to the
19		failure boundaries. The fourth one is confirmed
20		positive by a Q-statistic test, an alternative
21		statistic test for autocorrelation. The result
22		for the Q-statistic test is provided on page 3
23		of Exhibit(AL-5).

24 Q. What are the consequences of autocorrelation

1 with a regression model?

2	Α.	The ordinary least square, or OLS, method in the
3		regression analysis rests on the assumption of
4		zero autocorrelation. When this assumption is
5		violated, the reliability of the reported
6		regression results is overstated. The standard
7		errors of the estimates of the regression
8		parameters are significantly underestimated.
9	Q.	What implications does first order
10		autocorrelation have with using a regression
11		model for forecast?
12	Α.	The regression model is not suitable to best
13		predict electric sales. Because of
14		significantly underestimated standard errors of
15		the regression parameters, the confidence in the
16		model is significantly reduced.
17	Q.	Could autocorrelation of residuals of a model be
18		remedied?
19	Α.	Yes. Autocorrelation can be removed by a
20		generalized least square method. An
21		autocorrelation parameter, or the estimated
22		relationship of the residuals, is introduced to
23		the model and estimated simultaneously with
24		other model parameters. Such a model would have

1		much better predictive power because, in
2		addition to correcting underestimates of
3		standard errors, the estimated relationship
4		between residuals may be used to reduce
5		forecasting errors.
6	Q.	To what extent did the Company apply these
7		remedies?
8	A.	The Company's forecast models are estimated by
9		an OLS method, which does apply autocorrelation
10		remedies.
11	Q.	Do you have other concerns with PSEG LI's C&I
12		models?
13	Α.	Yes. Another concern is that some of PSEG LI's
14		C&I models failed the multicollinearity test.
15	Q.	Which of PSEG LI's C&I models have a
16		multicollinearity problem?
17	Α.	PSEG LI's leisure and hospitality model includes
18		three economic variables that are highly
19		correlated, GMP, personal income, and number of
20		households. The financial activities model
21		includes GMP and personal income that are highly
22		correlated. As I discussed earlier for the
23		residential sector, regional personal income is
24		a major component of GMP and the two move in the

1 same direction.

2	Q.	Did you perform a multicollinearity test for
3		these two models?
4	Α.	Yes. The results of a VIP test for
5		multicollinearity are provided on pages 4 and 5
6		of Exhibit(AL-5). For the leisure and
7		hospitality model, the variances for the GMP per
8		employment and income per customer variables are
9		highly inflated. For the financial activities
10		model, the GMP per customer and income per
11		household variables have highly inflated
12		variances.
13	Q.	What consequences does multicollinearity have
14		for a regression model?
15	Α.	As I discussed earlier, a model with high
16		multicollinearity is not reliable because of
17		inflated sampling variance and greater
18		sensitivity to small data changes. The
19		regression analysis is distorted by the high
20		correlation among the explanatory variables,
21		leaving little variations in electric sales to
22		be explained by these included economic
23		variables. As a result, individual coefficients
24		of these economic variables cannot be estimated

1		correctly and accurately. Ultimately, this
2		reveals that the forecast model unreliable.
3	Q.	Have you developed your commercial and
4		industrial model?
5	A.	Yes, I have. Similar to my residential model,
6		my C&I model is a use per customer model and
7		assumed in a log-linear regression functional
8		form.
9	Q.	Please describe your C&I sales model.
10	A.	The dependent variable of my C&I sales model is
11		sales per customer adjusted for a leap year
12		factor. The explanatory variables include real
13		electricity price, real GMP for Long Island,
14		CDDs, and a dummy variable to capture the effect
15		of Super Storm Sandy of 2012. The model has an
16		overall high level of goodness of fit with an
17		adjusted R-squared of 82 percent and a Durbin-
18		Watson statistic of 1.66. The output of my C&I
19		model and associated statistics along with the
20		model forecasts are provided on page 5 of
21		Exhibit(AL-4).
22	Q.	Why did you keep the price variable in the model

24 coefficient is below a commonly accepted level

when the statistical significance of the

1 of 95 to 90 percent?

2	Α.	The price variable is very important in the
3		model so it is included even though the
4		statistical significance of the coefficient is a
5		little lower than a commonly accepted level.
6		The inclusion of electricity price is to
7		preserve the model's compliance with economic
8		principles that the demand for a commodity is
9		inversely related to the price of the commodity.
10		Additionally, the coefficient of the price
11		variable represents price elasticity of
12		electricity demand, which can be used to
13		estimate electric sales response to price
14		changes. Furthermore, the statistical
15		significance of the coefficient is still high
16		with an acceptable level of more than 86 percent.
17	Q.	Is autocorrelation accounted for in your
18		regression analysis?
19	Α.	Yes. An autoregressive term was included during
20		the analysis to account for the presence of
21		first order autocorrelation in error terms. The
22		Durbin-Watson test result was switched to
23		negative after the remedy. More importantly,
24		the included autoregressive term is utilized

1 during the forecasting process, thereby reducing forecasting errors. As such, my C&I sales model 2 3 is should be adopted because it is superior to PSEG LI's C&I models for reliability and 4 5 accuracy. б You have one forecast model for the entire C&I Q. 7 sector, while PSEG LI has nine models by NAICS 8 sector. Does PSEG LI's revenue price model 9 require C&I sales to be forecast by NAICS sector? No. Only total C&I sales are needed as an input 10 Α. 11 to the Company's revenue price out model. PSEG 12 LI's forecasts by NAICS sector are aggregated 13 into a forecast for one C&I sector for revenue 14 price out, which was allocated to service 15 classifications using historical ratios. 16 Customer Forecast Models 17 Q. Did PSEG LI develop regression models to 18 forecast customer growth? It developed its customer forecast based on 19 Α. No. 20 trends in population and employment, as explained on page 24 of SRF Panel's testimony. 21 22 What is the PSEG LI's projected residential Ο. 23 customer growth? The Company projects residential customer will 24 Α.

1		grow at 0.25 percent annually for 2016-2018.
2	Q.	What is PSEG LI's forecast for commercial and
3		industrial customer growth?
4	Α.	The Company forecasts commercial and industrial
5		customers will grow at 0.3 percent for 2016, 0.2
б		percent for 2017, and 0.1 percent for 2018.
7	Q.	Do you agree with the Company's customer
8		forecasts?
9	Α.	No. An econometric methodology is a preferred
10		approach for forecasting number of customers.
11		Using an econometric methodology, the
12		relationships between customer growth and an
13		economic demographic variable, such as
14		population or employment, can be estimated
15		objectively. An econometric methodology is also
16		a transparent and verifiable process for
17		customer forecasting.
18	Q.	Have you developed an econometric model to
19		forecast customer growth?
20	Α.	Yes. I again used the transfer function
21		methodology that I discussed earlier to develop
22		my customer forecast. The residential customer
23		model includes the number of households as the
24		economic variable. The commercial and

industrial customer model has employment as the economic driver. Data for both economic variables were provided by the Company. The results of the estimated models and forecasts are provided on pages 2 and 4 of Exhibit___(AL-4).
Q. Why did you use the number of households instead

8 of population as the economic variable in your 9 residential customer model?

Population was tested in the residential 10 Α. 11 customer model, but was determined statistically 12 insignificant because of a small t-statistic. 13 The number of households is statistically 14 significant variable when it included in the model. As shown on page 2 of Exhibit ___ (AL-4), 15 the model fits the historical data with very 16 17 high adjusted R-squared of 0.999. The result 18 shows that household formation in a service area has a direct impact on additions to residential 19 20 electric customers.

Q. What is your forecast for residential customergrowth?

A. As shown in Exhibit (AL-3), residential
customers are expected to grow by 0.4 percent in

1		2016 and 0.3 percent per year in the following
2		two years. Commercial and Industrial customers
3		are expected to grow by 0.4 percent in 2016, 0.2
4		percent in 2017, and 0.1 percent in 2018.
5	Q.	To what degree does your customer forecast
6		differ from that of PSEG LI?
7	Α.	My customer forecast is slightly above the
8		Company's customer forecast, by less than a 0.1
9		percent.
10	Fore	cast Assumptions and Post-Model Calculations
11	Q.	What is your data source of the predicted values
12		and assumptions for the explanatory variables?
13	Α.	The predicted values of the electricity price
14		and economic variables were provided by the
15		Company through its response to IRs DPS-
16		Preliminary-68 and DPS-SRFP-297, included in
17		Exhibit(AL-1). The electric price forecast
18		was developed by PSEG LI. The original source
19		for the economic variables is Moody's Analytics.
20		The weather conditions are assumed normal, which
21		are based on the latest 10-year averages of CDDs
22		and HDDs.
23	Q.	Have you prepared an exhibit to show your

24 forecast assumptions?

My forecast assumptions are summarized in 1 Α. Yes. Exhibit___(AL-3). 2 3 Q. Why did you use a 10-year average methodology to 4 determine normal weather conditions for electric sales forecast? 5 The 10-year average method puts more weight on 6 Α. 7 recent weather data, which better captures the 8 weather trend and continued climate changes. My 9 method is consistent with previous decisions concerning sales forecast in recent electric and 10 11 gas rate cases (Case 10-E-0362, Order 12 Establishing Rates for Electric Services, issued 13 June 17, 2011, page 14; Case 08-G-0888, Order 14 Adopting Recommended Decision with Modifications, issued June 22, 2009, page 15.) 15 Do you suggest that a 10-year based weather 16 Q. normalization method should also be used for 17 18 peak load forecast? The process and purpose of forecasting peak 19 Α. No. 20 load are different from those of forecasting In general, the peak forecast involves 21 sales. the use of a designed weather conditions, not 22 23 normalized weather conditions. The design weather condition is determined from the 24

1 historical data for peak producing weather conditions. For reliability purposes, uses of 2 3 weather data for a 30-year historical period should continue. It is not difficult to 4 5 distinguish the use of weather data for revenue 6 forecasting purposes from reliability purposes. 7 Ο. What method did PSEG LI use for weather 8 assumptions? 9 PSEG LI's normal weather conditions are based on Α. a 30-year average of CDDs and HDDs. 10 11 How different are your 10-year based normal Ο. 12 weather conditions from the Company's 30-year based weather conditions? 13 14 The number of the 10-year average annual CDDs is Α. 15 slightly lower than the number of the 30-year average by 0.6 percent. For HDDs, the number of 16 10-year average is 1.3 percent lower than the 17 18 30-year average. The assumption of smaller numbers of CDDs and HDDs leads to a lower sales 19 20 forecast. 21 Your sales forecast models are developed on an Q. 22 use per customer basis. Did you do any post-23 model calculations to come up with total sales for residential customers and total sales for

381

1		commercial and industrial customers?
2	Α.	No. The econometric software I use provides
3		total sales forecast directly.
4	Q.	Did you make a post-model adjustment for 2016,
5		which is a leap year?
6	Α.	No. A leap year adjustment is not required for
7		the model forecast because an adjustment has
8		been made in the forecasting process. As
9		explained earlier in my testimony, a leap year
10		variable was included in my forecast models and
11		the assumed values of leap year variable for
12		2015-2018 are utilized in the forecasting
13		process.
14	Q.	PSEG LI used a calibration process to adjust its
15		model forecasts to 2014 projected year end 2014
16		sales. What is the adjustment associated with
17		the calibration process?
18	Α.	PSEG LI used a calibration process to align the
19		model forecasted sales for 2014, which are on a
20		basis of aggregated billing month sales, with
21		booked sales for 2014, and a sum of estimated
22		calendar month sales for 2014. In its response
23		to DPS-SRFP-239, included in Exhibit(AL-1),
24		the Company explained that the 2014 calendar

1		month sales are estimated with nine months of
2		experienced sales for 2014.
3	Q.	Is a recalibration procedure required for your
4		model forecast?
5	Α.	No. Because my forecast models are developed
б		using historical data through 2014 and the model
7		forecast has already reflected the full year
8		sales of 2014.
9	Q.	Without a calibration adjustment, is your annual
10		sales forecast representative of annual calendar
11		month sales for the forecasting period?
12	Α.	Yes. Although my models are developed using
13		historical annual data of billing month sales,
14		the forecast should be representative of the
15		annual calendar month sales. The differentials
16		between billing month sales and calendar month
17		sales for February through November would be
18		eliminated when they are summed to the annual
19		total. The differential will remain for
20		December because sales of the current billing
21		month do not include sales of the full calendar
22		month. However, the shortfall has been
23		compensated by sales of the previous December
24		partially included in the current billing month

1 of January, thereby leaving only a small yearto-year differential that may exist in part of 2 3 calendar month of December. This year-to-year differential in December sales should be 4 5 minimized with a weather normal assumption, expected minor increases in the number of 6 7 customers, and flat sales for the forecasting 8 period. 9 Adjustments for DSM Savings How was the impact of energy efficiency and 10 Ο. 11 renewable, referred to as EER, programs treated 12 in your sales forecast? 13 I manually adjusted the model forecasts by Α. 14 deducting the incremental demand side 15 management, or DSM, savings as result of EER

16 programs and sales lost to cogeneration. They

17 include DSM savings from anticipated EER

18 programs and those that have not been reflected 19 in my model forecast.

Q. What is the source of your DSM saving estimates?
A. I used PSEG's provided EER data to derive my DSM
saving estimates for 2015-2018.

Q. What magnitude is your estimated DSM savings for2015-2018?

1 My estimated incremental DSM savings for the Α. 2 LIPA system is 508 GWhs for 2016, 773 GWhs for 2017, and 1,019 GWhs for 2018. The estimates by 3 sector for 2015-2018 are provided in 4 Exhibit___(AL-2), in rows 13-16 and columns 2-3. 5 б Please describe PSEG LI's DSM saving Q. 7 projections. 8 Α. PSEG LI's DSM savings are estimated based on 9 evaluation reports and the targets of LIPA's 10 existing EER programs. PSEG LI's DSM estimates 11 also include a sales reduction they attribute to 12 changes in building codes and appliance 13 standards. As shown in Exhibit (SRFP-4), PSEG 14 LI estimates that the system wide DSM savings are 804 GWhs for 2016, 1,119 GWhs for 2017, and 15 1,412 GWhs for 2018. 16 17 How did you use the Company's provided data to Q. 18 derive your DSM saving estimate? 19 Α. The Company provided DSM savings by customer 20 classifications for 2014-2018. Since my model forecast has already reflected the actual sales 21 for 2014, 171 GWhs, or a half of the DSM savings 22 23 estimated for 2014, is subtracted from those estimated for 2015. The same calculation is 24

1		applied for each year of 2016-2018. After these
2		calculations, the incremental DSM savings are
3		rebased to start in 2015.
4	Q.	What DSM savings does your rebased projection
5		for 2015 include?
6	A.	It includes half of the annualized DSM savings
7		estimated for each of 2014 and 2015.
8	Q.	Why did you include one half of the DSM savings
9		estimated for 2014 and 2015 for your 2015 DSM
10		saving projection?
11	A.	The Company's DSM savings for the full year 2014
12		are estimated based on evaluation reports,
13		converted from the MW load reduced as result
14		from energy efficiency equipment or appliances
15		that are installed throughout the year. After
16		one energy efficient appliance is installed, it
17		takes 12 months to realize the full impact on
18		electric sales. For simplicity, it can be
19		assumed that EER equipment and appliances are
20		installed evenly throughout the year and as
21		result, one half of the annualized total impact
22		would be realized by the end of current year and
23		the other half would be realized in the
24		following year. This assumption is consistent

1		with the Company's DSM saving estimate
2		methodology, as shown in its response to DPS-
3		UEE-237, included in Exhibit(AL-1). As such,
4		my estimated DSM savings include one half of the
5		DSM savings associated with the 2014
6		installations that will be realized by the end
7		of 2015.
8	Q.	Did you make any adjustment other than rebasing
9		the DSM savings for 2015-2018?
10	A.	Yes, I made two adjustments to the rebased DSM
11		saving estimate. One adjustment is to exclude a
12		portion of the DSM savings that the Company said
13		is attributed to improvements in building codes
14		and appliance standards. I also propose that
15		the remaining DSM saving estimate be reduced by
16		10 percent before applying it to my model
17		forecast.
18	Q.	Why did you exclude the Company's estimated
19		sales reduction for improvements in appliance
20		standards and building codes?
21	Α.	Building codes and appliance standards are
22		determined by national and state governments and
23		changes are taking place gradually over time.
24		The compliance to codes and standard is a slow

1 process and requires workforce as well as 2 product development. The gradual and slow 3 impact should have been captured in actual electric sales as well as in the forecast. 4 5 Do other New York utilities include codes and Q. 6 standards in their projections for DSM savings? 7 Α. Utilities project their DSM savings based No. 8 on EEPS program targets and performance. The 9 EEPS programs administered by NYSERDA and utilities can be evaluated and reports are 10 11 provided on a regular basis.

Q. Please describe the Company's estimated sales
reductions due to changes in building codes and
appliance standards.

A. PSEG LI includes an estimate of sales reductions
that it attributes to changes in building codes
and appliance standards. According to its
response to IRs DPS-SRFP-238 and DPS-SRFP-329,
these estimates contribute to sales reductions
of 103 GWhs for 2016, 123 GWhs for 2017, and 143
GWhs for 2018.

Q. Do you agree with the Company's estimated salesreductions for codes and standards?

24 A. No. The targets that the Company used to

1 calculate its DSM savings for codes and standards for 2014-2015 were included in a straw 2 3 proposal for setting goals to reducing electricity usage by 15 percent statewide by 4 2015. These DSM savings targets are no longer 5 part of the EEPS targets. 6 7 How did PSEG LI develop its sales reductions for Ο. 8 codes and standards for 2016-2018? 9 According to its response to DPS-SRFP-407, Α. included in Exhibit___(AL-1), PSEG LI's 10 11 assumptions for codes and standards are based on 12 "informal discussions among peers within the 13 energy industry" and information from the 14 NYSERDA website, and the incremental growth in 15 associated sales reductions was set internally. Does NYSERDA have a budget for advanced codes 16 Q. 17 and standards programs? 18 Α. Yes. NYSERDA has a SBC-funded program for statewide workforce development on improving 19 codes and standards, but the program does not 20 21 result in separately counted direct energy Rather, energy savings resulting from 22 savings. 23 training efforts would be examined through evaluations conducted on the associated end-use 24

1 In addition, the budget for this programs. program is relatively insignificant and 2 3 decreasing. The program's funding accounts for a 3.3 percent of the NYSERDA's annual budget for 4 2014-2015 and 1.5 percent for 2016. 5 б Please discuss your 10 percent adjustment to the Q. 7 Company's DSM saving projections. 8 Α. The 10 percent adjustment is made based on a 9 trend analysis of my forecasts before DSM reductions. It indicates that the DSM-induced 10 11 slower trend in electric sales has been 12 partially captured by my forecast models. 13 What does the trend analysis of your forecasts Q. 14 before DSM reductions show? 15 My forecasted sales growth before DSM reductions Α. is an average 1.7 percent per year for 2014-16 This rate is below the 1.9 percent annual 17 2018. 18 growth registered in the 10-year period ending 2007 during which there were no DSM programs of 19 the scale matching existing EER efforts. 20 The annual DSM savings from LIPA's existing programs 21 range from 250 MWhs to over 300 MWhs for the 22 23 past three years, which reduced total system 24 sales by about 1.3 to 1.5 percent per year.

1 Apparently, my model forecast has reflected 2 lower sales growth in recent years resulting 3 from large scale of EER programs. As such, my model forecasts should not be reduced by the 4 full amount of DSM savings as estimated by PSEG 5 б LI. 7 How does PSEG LI's forecasted sales growth Q. 8 before DSM compare with the historical growth 9 trend in LIPA's system? PSEG LI's forecasted sales growth is close to 10 Α. 11 the annual rate for the ten years ending in 12 2007. PSEG LI forecasts an average 1.9 percent 13 annual growth in system sales before DSM savings 14 for 2014-2018 with an adjustment factor of 0.06 percent. This factor was "to overcome the 15 growth-reducing effects of embedded DSM," as 16 explained in its response to DPS-SRFP-239, 17 included in Exhibit ___ (AL-1). 18 In GWhs for the LIPA system, how does your model 19 Q. 20 forecast differ from the Company's model 21 forecast? 22 My model forecast is below the Company's Α.

24 1,020 GWhs or 4.6 percent for 2017, and by 1,122

forecast by 824 GWhs or 3.8 percent for 2016,

1 GWhs or 5.0 percent for 2018.

2	Q.	Did you adjust your model forecasted growth
3		rates to compensate for the slower growth rates
4		induced by the embedded DSM savings?
5	A.	No, I did not. It is difficult to obtain
6		accurate DSM saving estimates for the historical
7		period. Adding inaccurate DSM saving estimates
8		back to billed sales data would introduce
9		significant errors and make it difficult to
10		develop sales forecast models. In addition,
11		another study would be required to estimate such
12		an impact even if accurate historical data were
13		available. I choose to adjust the projected DSM
14		savings to compensate the already low sales
15		growth rates predicted by my forecast models.
16	Q.	What is your adjustment to the projected DSM
17		savings?
18	Α.	My adjustment is 56 GWhs for 2016, 86 GWhs for
19		2017, and 113 GWhs for 2018. They account for
20		less than one tenth of the model forecast
21		difference between the Company's and mine.
22	Q.	How was cogeneration treated in your sales
23		forecast?
24	Α.	Sales lost to cogeneration are treated in the

1 same manner in my sales forecast as in the Company's forecast. That is, estimated 2 3 historical sales lost to cogeneration were added back to billed sales for model development and 4 5 then subtracted from the model forecast. My 6 sales forecast also reflect the Company's 7 estimated incremental sales reduction due to 8 cogeneration. 9 Other Sales, Overview, and Risk to Forecast 10 Have you developed a forecast model for other 0. 11 sales? 12 I accepted PSEG LI's provided forecast for Α. No. 13 other sales and updated to reflect the 2014 actual sales data. Other sales, including sales 14 15 to Brookhaven National Labs, Long Island Railroad, and street lighting customers, counts 16 for about 3 percent of total sales in LIPA 17 18 service area. What is your general assessment of sales 19 Q. 20 forecast in LIPA's service territory? 21 Slow population and economic growth in Long Α. 22 Island supports a forecast of moderate growth in 23 electric sales in LIPA's service territory. 24 However, aggressive energy efficiency and

renewable programs will dampen and even more
 than offset the forecasted growth. As such,
 under my forecast LIPA electric sales are
 expected to grow 1.4 percent annually in 2015
 and 2016 and decline 0.5 percent annually in
 2017 and 2018.

7 How does your sales forecast compare with the Q. 8 economic growth anticipated in Long Island? 9 The economy of the LIPA service territory is Α. expected to grow at significantly higher rates 10 11 in the next two years compared with the previous 12 three years. For example, real per capital 13 personal income will grow at 3.7 percent 14 compared to 0.6 percent over the past three years, and employment will grow at 2.0 percent 15 compared with 1.2 percent over the past three 16 My sales forecast is consistent with the 17 years. 18 relatively optimistic outlook of the Long Island economy as forecasted by Moody's Analytics. 19 How does your sales forecast compare to that of 20 Q. 21 PSEG LI for the next two years? 22 My forecast is 151 GWhs or 0.7 percent above Α. 23 PSEGLI's forecast for 2016. This highlights that my forecast is more reflective of the 24

1 relatively optimistic outlook of the Long Island 2 economy for 2015-2016 than PSEG LI's forecast. 3 Q. How does the economic outlook for the next two 4 years compare with that for the following two 5 years?

б A slowdown of the economic expansion in the Α. 7 following two years is expected, but Moody's 8 Analytics does not forecast a recession. As shown in Exhibit___(AL-3), the average growth of 9 personal income is expected to decrease to 1.9 10 11 percent in 2017-2018 from 3.7 percent in 2015-12 2016 and growth in regional GDP will decline 13 from 3 percent per year for the next two years 14 to 1.9 percent for the following two years. The average growth rate in employment has a similar 15 pattern, at 2 percent in 2015-2016 and less than 16 17 1 percent in 2017-2018. Personal income and 18 Regional GDP are the two economic drivers of my forecasting models. 19

20 Q. What is your assessment of the risks to your 21 forecast?

A. My forecast is subject to the risks of the
economic forecasts provided by Moody's
Analytics. As always, there are uncertainties

1 in an economic forecast, which are affected by many factors. My sales forecast is also subject 2 3 to the uncertainty that actual weather conditions are different from assumed normal 4 weather conditions. For example, a warmer or 5 colder than normal summer by 10 percent, as б 7 measured in total annual CDDs, may swing 8 residential sales by 2 percent. A third factor 9 is the uncertainty in the projections for DSM savings based on existing energy efficiency and 10 11 renewable programs and new initiatives. 12 Please summarize your recommendation. Ο. 13 Α. I recommend that PSEG LI's sales forecast be 14 rejected because some of its models do not 15 comply with economic principles or pass basic econometric tests. Further, PSEG LI's estimates 16 of sales reductions for DSM savings should also 17 18 be adjusted. On the other hand, my forecasts for both sales and number of customers are based 19 20 on econometric models. My forecast models 21 follow economic principles and meet basic econometric standards. My forecast is based on 22 23 a superior methodology, a weather forecast more reflective of the current trend, and appropriate 24
1		treatment of DSM savings. I recommend that my
2		electric sales forecast be adopted in this
3		proceeding.
4	Q.	Does this conclude your testimony at this time?
5	Α.	Yes, it does.

JUDGE PHILLIPS: Next up, I believe we have the PSEG 1 2 Ratemaking/Revenue Requirement Panel that was on the schedule. 3 MR. WEISSMAN: Your Honor, the direct testimony will be entered by affidavit. Believe it or not, in the time we have 4 5 been working on this case one of the members has retired. We 6 are still hoping to get ahold of that affidavit to submit by 7 tomorrow. We apologize for that. JUDGE PHILLIPS: Are we doing just the original or are we 8 9 waiting until tomorrow? 10 MR. WEISSMAN: We can provide the Ratemaking Revenue 11 Requirement Rebuttal Testimony at this time, which we reserve 12 the first number for the direct testimony of that panel by 13 request. 14 JUDGE PHILLIPS: For the rebuttal panel or the direct? MR. WEISSMAN: The direct we reserve and for the rebuttal I 15 16 can provide. JUDGE PHILLIPS: We are reserving number 112 for the 17 direct, and you will give me an affidavit now for the rebuttal 18 that will be marked as 113; is that correct? 19 20 MR. WEISSMAN: Your Honor, with respect to the Ratemaking and Revenue Requirement Rebuttal Panel, I would like to present 21 22 the affidavit of Gary Ahern, Joseph Trainor, Fritz Ferdinand, 23 Louis DeBrino and Lisa Figliozzi who are submitting by this affidavit their Ratemaking and Revenue Requirement Rebuttal 24 25 Testimony. That testimony consists of 23 pages plus the cover

1	sheet. There are also three exhibits that are attached to that
2	testimony identified on the exhibit list as Exhibit RR-REB-1
3	which is Exhibit 46, Exhibit RR-REB-2 which is Exhibit 47 and
4	Exhibit RR-REB-3 which is Exhibit 48 (handing).
5	JUDGE PHILLIPS: On the basis of the affidavit that has
6	been marked for identification as Exhibit 113, we would like to
7	have copied into the record the Rebuttal Testimony of the
8	Ratemaking and Revenue Requirement Panel submitted on June 10,
9	2015.
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-____

DIRECT PRE-FILED TESTIMONY OF RATEMAKING AND REVENUE REQUIREMENTS PANEL

Date: January 30, 2015

TABLE OF CONTENTS

I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY	1
II.	CONSOLIDATED BUDGETS AND THE RATE PLAN	8
III.	RATEMAKING MODEL AND PLAN	10
IV.	CONSOLIDATED BUDGETS AND RATES	18
V.	REVENUE REQUIREMENT	21
VI.	AUTOMATIC ADJUSTMENT CLAUSES	22
VII.	REVENUE DECOUPLING MECHANISM ("RDM")	23
VIII.	DELIVERY SERVICE ADJUSTMENT ("DSA")	25

I. 1 WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY 2 0. Please state the names of the members of this Ratemaking and Revenue **Requirements Panel (the "Panel").** 3 4 We are Gary S. Ahern, Joseph Trainor and Lisa Figliozzi. A. 5 Mr. Ahern, please state your employer and business address. Q. 6 A. I am employed by PSEG Long Island LLC ("PSEG LI" or the "Company") and my 7 business address is 333 Earle Ovington Blvd, Uniondale NY 11553. Q. 8 In what capacity are you employed by the Company? 9 A. I am employed by the Company as Director of Finance at PSEG LI. In this position I 10 am responsible for, among other things, regulatory filings on behalf of Long Island 11 Lighting Company ("LIPA"), maintaining LIPA's Tariff, Electric Customer Rates & 12 Pricing, PSEG LI Financial Statements, PSEG LI Accounting, PSEG LI Budgeting & 13 Forecasting, billing and collections from LIPA, and non-utility billing on behalf of 14 LIPA. 15 0. Please summarize your educational background and professional experience. A. Prior to assuming my position with PSEG LI, I was Vice President, U.S. Regulation 16 17 and Pricing -- Gas Distribution for National Grid Corporate Services, LLC which 18 provides engineering, financial, administrative and other technical support to direct and indirect subsidiary companies of National Grid USA. My duties included 19 20 revenue requirements and pricing oversight for the U.S. gas distribution subsidiaries 21 of National Grid USA, including National Grid's New York gas utilities The 22 Brooklyn Union Gas Company, Keyspan Gas East Corporation and the gas operations

of Niagara Mohawk Power Corporation, as well as Boston Gas Company, Colonial

Gas Company, and Essex Gas Company. I joined Brooklyn Union Gas Company (a predecessor company of National Grid KeySpan Corporation) in 1975 where I held a number of financial positions within Brooklyn Union, KeySpan Corporation and, most recently, National Grid. I worked in the Corporate Planning Department for Brooklyn Union as a financial analyst and was appointed to oversee Brooklyn Union's regulatory filings with the New York State Public Service Commission ("Commission" or "PSC"). From 1993 through 2001, I served as the Corporate Budget Director of Brooklyn Union and (beginning in 1998) for KeySpan Corporation. In 2001, I was appointed the Director of Finance for the Electric Business Unit, where I was responsible for providing financial services, controls and analysis to support the electric operating companies, including the LIPA contract, among other responsibilities.

In 1982, I earned a Bachelor of Arts degree in Business Management/Accounting from Saint Francis College. In 1986, I earned a Masters of Business Administration from Adelphi University.

16

Q. Mr. Trainor, please state your employer and business address.

17 A. I am employed by PSEG LI and my business address is One Hundred East Old
18 Country Road, Hicksville, New York 11801.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Q. In what capacity are you employed by the Company?

A. I am employed by the Company as Senior Manager in Regulation and Pricing. My current responsibilities include rate case management, tariff management, customer pricing, and revenue reporting. I have held this position since September 2014.

Q. Please summarize your educational background and professional experience?

A. Prior to assuming my position at PSEG LI, I was employed by Black & Veatch from 1998 to 2014, most recently as a Principal – Management Consultant Division. While at Black & Veatch I provided consulting services to a host of investor-owned utilities in the areas of class cost-of-service analyses and modeling, statistical and comparative cost and operating analysis, revenue requirements modeling, load and sales forecasting, rate design, demand-side management ("DSM") and financial modeling. I am the architect of many DSM and cost-of-service models, having performed electric and gas cost-of-service and marginal cost-of-service projects for a variety of clients. I have performed minimum system and zero intercept studies in numerous states, as well as load research, weather normalization and load forecast studies. I have created models to calculate test year revenue requirements and to perform economic, rate and financial valuations of multi-jurisdictional utilities for the purpose of investment.

In addition to my utility and energy industry analytical skills, I also possess broader IT expertise including application programming and database management.

In the area of governmental entities, most recently, I was retained by the Guam Power Authority for their 2013 rate filing, which included managing internal

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

1		and external legal counsel, reviewing and editing all testimony and data requests. I
2		was also responsible for testifying in the 2013 Guam rate case on the subjects of
3		revenue requirements, load research, cost of service and rate design. I have also
4		provided consulting services for ratemaking and other proceedings and projects to the
5		Kauai Island Utility Cooperative, the Philadelphia Gas Works, the Indiana Water
6		Authority, and the Villages of Freeport and Rockville Centre on Long Island.
7		I hold a BS degree in Electrical Engineering from Manhattan College, New
8		York (1993) and an MBA from Long Island University, New York (2003).
9	Q.	Ms. Figliozzi, please state your name and business address.
10	A.	My name is Lisa Figliozzi. My business address is One Hundred East Old Country
11		Road, Hicksville, New York 11801.
12	Q.	By whom are you employed and in what capacity?
13	A.	I am Manager, Regulation and Pricing – PSEG LI. My current duties include revenue
14		requirements oversight for PSEG LI and for LIPA.
15	Q.	Please summarize your educational and professional background.
16	A.	I joined Long Island Lighting Company (a predecessor company of KeySpan
17		Corporation) in 1990. Since that time, I have held a number of financial and
18		accounting positions within Long Island Lighting Company, KeySpan Corporation
19		and, most recently, National Grid. I worked in the Corporate Budget and Planning
20		Department for Long Island Lighting Company as a financial analyst and was
21		promoted to Manager, LIPA Reporting in 1998 when Brooklyn Union merged with
22		the Long Island Lighting Company. I supported regulatory filings and developed

financial exhibits that were presented to the New York PSC, FERC, NYSERDA, and LIPA. From 2004 through 2005, I served as the Budget Manager of the Ravenswood generation power plant, which supplied twenty percent of New York City's power. In 2006, I was a functional team leader for Keyspan's Property Records software implementation project, and subsequently during the integration period with National Grid I was appointed the Manager of Plant Accounting. Plant Accounting was headquartered in Massachusetts, with offices in Buffalo, Syracuse, Glens Falls, Rhode Island and Long Island. I was responsible for centralizing Plant Accounting Operations on Long Island and providing asset accounting functions, including closing, financial and regulatory reporting, services, controls and analysis to support the US Operations, including the LIPA contract. In 2010 I assumed the role of Principal Analyst for Revenue Requirements of the New York gas companies for National Grid. In October 2012 I was selected as Manager of Regulation and Pricing supporting LIPA, which is my current role.

I hold a Bachelor of Science degree in Business Management/Finance from Long Island University (1989) and a Masters of Business Administration/Finance from Long Island University (1995).

1

Q. What is the overall purpose of the Panel's testimony in this proceeding?

A. We are presenting the revenue requirement in this case. We have developed that revenue requirement using the Public Power Model and based on Consolidated Budgets of PSEG LI and LIPA for the three years, 2016, 2017 and 2018 as required by the Amended And Restated Operations Services Agreement between Long Island Lighting Company d/b/a LIPA and PSEG Long Island LLC, dated as of December 31, 2013 ("OSA"). The process of developing and consolidating the budgets is explained by the Budget Panel. This testimony will explain how the PSEG LI and LIPA budgets were consolidated to develop the revenue requirement for each year of the Rate Plan, using the Public Power Model. Finally, we will discuss various automatic adjustment clauses that we recommend for approval by the LIPA Board of Trustees. The precise mechanics of those clauses will be presented in the testimony of Mr. Trainor on cost of service, rate design, and tariff issues.

Q. 15

What is the revenue requirement for LIPA that the Panel has developed for the three years of the Rate Plan?

A. The proposed changes in LIPA's rates and charges, to become effective on January 1, 2016, are intended to support LIPA's financial stability, as discussed in the testimony of LIPA witness Falcone, and reflect PSEG LI's efforts to enhance and improve customer service and electric reliability, replace aging electric infrastructure, and create a more resilient, modern, and customer-responsive electric utility on Long Island while minimizing the rate impact on customers.

The annual increases in revenues for electric delivery that LIPA and PSEG LI are proposing are as modest as possible and in keeping with the requirement that rates

1		be set "at the lowest level consistent with sound fiscal and operating practices and			
2		which provide for safe and adequate service." The increases: approximately			
3		\$72,748,000 effective January 1, 2016; \$74,253,000 effective January 1, 2017; and			
4		\$74,256,000 effective January 1, 2018, will result in a 2.0% increase effective on			
5		January 1, 2016; a 2.0% increase effective on January 1, 2017; and a 2.0% increase			
6		effective on January 1, 2018. ¹ The proposed bill increase over the three-year period			
7		is roughly equivalent to the projected rate of inflation during this same period. The			
8		increases also follow a three-year delivery rate freeze. These increases are separate			
9		from the charges for fuel, purchased power, and some generation-related costs, which			
10		fluctuate and are collected through the Fuel and Purchased Power Cost Adjustment			
11		("FPPCA").			
12	Q.	Is the Panel sponsoring any exhibits in support of its testimony?			
12 13	Q. A.	Is the Panel sponsoring any exhibits in support of its testimony? Yes, we are sponsoring the following exhibit, which was prepared by or under the			
12 13 14	Q. A.	Is the Panel sponsoring any exhibits in support of its testimony? Yes, we are sponsoring the following exhibit, which was prepared by or under the supervision of the Panel or one of the Panel's members that provide the details			
12 13 14 15	Q. A.	Is the Panel sponsoring any exhibits in support of its testimony? Yes, we are sponsoring the following exhibit, which was prepared by or under the supervision of the Panel or one of the Panel's members that provide the details underlying the revenue requirement in each year of the Rate Plan:			
12 13 14 15 16	Q. A.	 Is the Panel sponsoring any exhibits in support of its testimony? Yes, we are sponsoring the following exhibit, which was prepared by or under the supervision of the Panel or one of the Panel's members that provide the details underlying the revenue requirement in each year of the Rate Plan: 1. Exhibit (RRP-1) entitled "2016-2018 Projected Operating and Capital 			
12 13 14 15 16 17	Q. A.	 Is the Panel sponsoring any exhibits in support of its testimony? Yes, we are sponsoring the following exhibit, which was prepared by or under the supervision of the Panel or one of the Panel's members that provide the details underlying the revenue requirement in each year of the Rate Plan: 1. Exhibit (RRP-1) entitled "2016-2018 Projected Operating and Capital Budgets" and supporting schedules for the projected rate years ending 			
12 13 14 15 16 17 18	Q. A.	 Is the Panel sponsoring any exhibits in support of its testimony? Yes, we are sponsoring the following exhibit, which was prepared by or under the supervision of the Panel or one of the Panel's members that provide the details underlying the revenue requirement in each year of the Rate Plan: 1. Exhibit (RRP-1) entitled "2016-2018 Projected Operating and Capital Budgets" and supporting schedules for the projected rate years ending December 31, 2016, December 31, 2017, and December 31, 2018. 			
12 13 14 15 16 17 18	Q. A.	 Is the Panel sponsoring any exhibits in support of its testimony? Yes, we are sponsoring the following exhibit, which was prepared by or under the supervision of the Panel or one of the Panel's members that provide the details underlying the revenue requirement in each year of the Rate Plan: 1. Exhibit (RRP-1) entitled "2016-2018 Projected Operating and Capital Budgets" and supporting schedules for the projected rate years ending December 31, 2016, December 31, 2017, and December 31, 2018. 			

The percentage increases are measured as a percentage of the total customer bill consistent with the LIPA Reform Act. If applied only to delivery charges, the percentage increases would be 3.8%, 3.9%, and 3.9%, respectively.

1

2

3 4

5

6

7

8

9

10

11

II.

CONSOLIDATED BUDGETS AND THE RATE PLAN

Q. How did you begin your development of the Rate Plan for the three years, 2016, 2017 and 2018?

A. We began our development of the revenue requirement for those three years with the budgets for PSEG LI and LIPA. These budgets contained all the incoming revenue and outgoing expenses, and we adjusted these costs for additional cash income and deductions, necessary to derive an adjustment to the revenue requirement. An additional element to be considered was that PSEG LI's budgets were developed using GAAP accounting. As will be explained, because the Public Power Ratemaking Model is a cash-based model, adjustments to those figures were necessary to produce a Public Power revenue requirement.

Q. What adjustments were made to the consolidated budgeted income statement to derive the 2016-2018 revenue requirements?

As noted above, the Public Power Model requires adjusting the income statement to 14 A. 15 arrive at cash requirements that equal the revenue requirement, plus the desired 16 coverage level after cash outlays have been met. The following adjustments were 17 made to derive the cash approach: Non-Cash Expenses such as depreciation, amortization of acquisition adjustment, transition costs, asset retirement obligation, 18 19 OPEBs and pensions, and rate case expenses were all eliminated from the revenue 20 requirement and subsumed in the debt coverage requirement provided by LIPA. Cash 21 Requirements such as the Nine Mile Point II decommissioning costs and the 22 contribution to the pension trust were added back to the revenue requirement. The principal of and interest on LIPA's debt, bank fees and amounts for coverage all were discretely recognized in the revenue requirement.

Q. Please provide an example of how the Public Power Model would require an adjustment of an expense in the revenue requirement.

Consider the level of pension and OPEB expenses. PSEG LI, for example, receives A. an actuarial estimate of its pension and OPEB expenses on a GAAP basis. PSEG LI, however, is funding the pension based on the ERISA minimum amount, and this is the amount that LIPA will remit to PSEG LI under the terms of the OSA. Therefore, for the Public Power Model, pension expense in rates is the ERISA minimum funding amount and not the GAAP amount reflected on PSEG LI's books. A similar approach is used for OPEBs. Because OPEBs do not carry a minimum funding obligation in the same way that pensions do, OPEBs are recovered in rates on a "pay as you go" basis, and not the GAAP amount estimated by the actuary. LIPA recognizes that it will ultimately incur higher OPEB "pay as you go" expense in the future and has chosen to establish an OPEB Account to prefund these costs within its existing Operating Expense Fund. That prefunding, however, will be made out of funds available for debt coverage, as defined in the LIPA Board Resolution adopting the OPEB account and can be explained in more detail by LIPA witness Thomas Falcone.

20 21

22

23

Q. Have you incorporated the effect of Utility 2.0 on the revenue requirement in this case?

A. No. At this juncture, there is not a fully approved Utility 2.0 plan in place for LIPA.PSEG LI made two proposals for a Utility 2.0 plan, one in July 2014 and a

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

1		subsequent one in October 2014. The first proposal called for PSEG LI to fund the			
2		Utility 2.0 programs and to earn a utility rate of return on them. That plan was			
3		rejected by LIPA. The second proposal called for essentially the same projects and			
4		funding levels but, instead, proposed that LIPA would pay for the plan. That filing			
5		has not been approved by LIPA either. Because the funding proposals made by			
6		PSEG LI have not been adopted, this filing excludes the effects of Utility 2.0.			
7 8	Q.	Does the exclusion of Utility 2.0 effects from this filing indicate that PSEG LI no longer supports the Utility 2.0 programs?			
9	A.	No, it does not. The LIPA Board has approved \$2 million for additional program			
10		development for Utility 2.0 in 2015, and the operating and capital budgets also			
11		include projections for \$13.3 million and \$3.9 million, respectively, of Utility 2.0			
12		program implementation expenditures during 2015. The 2015 budgets approved by			
13		the LIPA Board state that Utility 2.0 implementation expenditures will be brought to			
14		the Board for separate approval upon receipt of a recommendation by the Department			
15		of Public Service ("DPS"). PSEG LI strongly supports Utility 2.0 and will continue			
16		to make the case that the DPS should be encouraged to recommend the Utility 2.0			
17		solutions to the LIPA Board in the ongoing Utility 2.0 proceeding.			
18	III.	RATEMAKING MODEL AND PLAN			

19 20

Q. Please describe the ratemaking model that has been employed in developing the Rate Plan.

A. We have adopted the Public Power Model as the basis for setting rates in this case.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

0.

Why have you chosen the Public Power Model?

A. We chose that approach for several reasons. First, LIPA's executives expressed a strong preference for using the Public Power Model and requested its use in this proceeding. Based on that expressed preference, we discussed with counsel whether that approach would be consistent with the applicable ratemaking standard imposed under the LIPA Reform Act. Under the Public Authorities Law (Section 1020-f(u) rates must be set "at the lowest level consistent with sound fiscal and operating practices of the authority and which provide for safe and adequate service." In addition to that general standard, Section 1020-k, subdivision 6 states that LIPA's "rates, fees or charges [must be] sufficient to pay, the costs of operation and maintenance of the facilities owned or operated by the authority, payments in lieu of taxes, renewals, replacements and capital additions, the principal of and interest on any [of LIPA's debt] obligations . . . as the same severally become due and payable, and to establish or maintain any reserves or other funds or accounts required or established by or pursuant to the terms of [LIPA's debt]." Under Section 3-b of the Public Service Law, the DPS must review any rate request by LIPA to "ensure that the authority and the service provider provide safe and adequate transmission and distribution service at rates set at the lowest level consistent with sound fiscal operating practices" and "[t]he department's recommendations shall be designed to be consistent with ensuring that the revenue requirements related to such rate review are sufficient to satisfy the authority's obligations with respect to its bonds, notes and all other contracts." We concluded that the use of the Public Power Model was

1	consistent with the law; indeed it seemed to us that the law counseled its use. We
2	then examined the OSA for guidance on the applicable ratemaking standard. It states
3	(Section 6.2(B)) that:
4 5 6 7 8 9 10 11 12 13	The preliminary Three Year Rate Plan shall be designed in a manner to ensure that, if adopted by LIPA and subject to the forecast assumptions specified therein, LIPA and the Service Provider are able to provide safe and adequate transmission and distribution service in the Service Area at rates which are (i) at the lowest level consistent with sound fiscal operating practices and (ii) sufficient to generate revenues necessary to satisfy LIPA's obligations to its LIPA's bondholders, lenders and other creditors and contract counterparties including the Service Provider.
14	Again, the Public Power Model appeared best suited to the ratemaking standard set
15	forth in the OSA. Based on our review of these sources and discussions with counsel,
16	we determined that the use of the Public Power Model would appropriately satisfy the
17	requirements of the law and the OSA.
18	Second, LIPA presented us with a report by its financial advisor that also
19	recommended and supported the use of the Public Power Model for ratemaking in
20	this case. We reviewed that report and independently verified that the rates of many
21	large publicly owned utilities were set using the Public Power Model.
22	Third, we independently examined that model and concluded that it was
23	appropriate to use. Mr. Trainor, in his experience as a consultant, has dealt
24	extensively with public power utilities that used the model to set their rates, and we
25	concluded that the Public Power Model is appropriate for setting rates in this case.

I

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

Q. Please explain the public power approach to rate-setting.

A. LIPA is offering its own testimony in this case and will also demonstrate why the Public Power Model is superior from a ratemaking perspective for use in setting LIPA's rates. Briefly, the Public Power Model differs from the traditional rate base/rate of return model used for investor owned utilities ("IOUs") in the following, significant ways. First and foremost, IOUs' rates are based on the concept of a rate of return on rate base. Public power utilities' rates typically do not employ a rate base/rate of return calculus. Instead, public power utilities' rates reflect the requirement that a public authority like LIPA is generally required to recover through rates the principal and interest on its debt after expenses and other contractual obligations have been satisfied. Another significant difference between the Public Power Model and the traditional IOU model is that rates are set on a "cash" basis for the public power utility. For example, for IOUs, depreciation expense is specifically allowable in rates. For public power utilities depreciation expense, as a non-cash item, is not explicitly recovered in rates. Instead the return of capital represented by depreciation expense for an IOU is recovered by a public power utility through the amortization of its debt. For an IOU, pension and OPEB costs are calculated on an accrual basis according to GAAP and are collected in rates. In New York, such costs are specifically collected under the Commission's Policy Statement on Pensions and OPEBs. Under the Public Power Model being used in this filing, the GAAP level of those costs are subsumed under LIPA's bond coverage and only a minimum ERISA pension funding level is explicitly reflected in rates. Another significant difference,

of course, is that there are no private equity holders in a public power utility; the customers, i.e., the public, are the owners of a public power utility. Consequently there is no return on equity required. Moreover any "equity" that is on the books of a public power utility is actually ratepayer contributed funds that support capital additions. There is no balancing of interests between investors and customers required because the only investors are bond investors, whose returns on investment are fixed. There are no equity holders to assume investment risk. For these and many other reasons, the Public Power Model differs significantly from the model used to set rates for an entity that is "for profit." Again, where utility service is provided by a public power entity, the customers are, essentially, the owners.

Q. Is there a way to encapsulate the Public Power Model?

A. Yes, the fundamental ratemaking philosophy for public power utilities is to provide safe and reliable service at rates that recover all costs, including the cost of servicing its debt which includes payments of interest and payments for amortizing the debt's principal amount. If there is a margin in excess of current costs, this margin, or "coverage," may be used to fund a portion of the utility's infrastructure investments in lieu of relying exclusively on debt to fund capital projects, and may also be used to provide a "cushion" of safety to fund unexpected expenses, capital additions, accrued expenses or a diminution of revenue.

Q. Is this a common ratemaking methodology for public power utilities?

A. Yes. Public power utilities serve many small and rural communities. There are also
several major metropolitan areas like Long Island that are totally or partially served

1		by locally-controlled municipal utilities, including: Austin, TX, Jacksonville, FL, Los
2		Angeles, CA, Memphis, TN, Omaha, NE, Orlando, FL, Phoenix, AZ, Sacramento,
3		CA, San Antonio, TX and Seattle, WA. It is Mr. Trainor's experience that the public
4		utility model is typically used to set rates for these entities.
5 6	Q.	Are you aware of the model that the Commission in New York uses to set rates for the utilities that it regulates?
7	A.	Yes. The PSC's 1977 Statement of Policy on Test Periods in Major Rate Proceedings
8		(17 NYPSC 25-R) provides that rates are set based on a normalized, historical test
9		period that is then adjusted to reflect operations in the first year that rates are to be in
10		effect.
11	Q.	Is it appropriate to use that policy to set rates here?
12	A.	We do not believe so. Under the 1977 Policy Statement, the historic test period must
13		reflect "operating results, with normalizing adjustments, for a twelve-month period
14		expiring at the end of a calendar quarter no earlier in time than 150 days before the
15		date of filing." There are several reasons why it is not possible to present such a
16		historic period. First, the LIPA Reform Act mandates that this rate filing be made no
17		later than February 1, 2015. Consequently, information for Calendar Year 2014
18		would not have been available in time to make this filing, let alone examine that data
19		in order to "normalize" various expenses and activity levels. Second, reaching back
20		to a period earlier than January 1, 2014 for historical information would have been
21		futile. In this case, PSEG LI only began operating the LIPA system on January 1,
22		2014 subject to the OSA. Prior to that date, National Grid ran the system under a
23		Management Services Agreement ("MSA") which was a very different structural

arrangement than the OSA. Consequently, the operations and functions performed by PSEG LI differ in significant ways from the operations of the previous operator, National Grid, rendering historical information relating to National Grid's operations largely inapplicable. Third, even if information prior to January 1, 2014 were relevant, the books and records of National Grid for that historical period, although the property of LIPA, were not reasonably accessible for preparation of this case. Furthermore, LIPA's records do not reflect the necessary level of detail to prepare a test year because virtually all O&M costs were recorded under the management fee. Consequently, it is neither possible nor practicable to attempt to construct a historic test year upon which to base a fully forecasted rate year. In this case, we use budgets to project LIPA's revenue requirement three years into the future for the Rate Plan envisioned by the LIPA Reform Act and the OSA.

Q. Was it possible to use a mixture of actual and projected 2014 costs to set rates?

A. No. Given the statutory obligation to file this case on February 1, 2015, it was not possible to collect 2014 costs, examine and audit them and then normalize them to remove or adjust abnormalities in time to file this case and then make projections for the remaining months. Moreover, those costs would not have been appropriate for a variety of reasons. Calendar year 2014 was a transition year for PSEG LI and LIPA in which operations were still being transformed from operations under the MSA to the new operating model under the OSA. Although our T&D function is the closest to the organization that existed prior to January 1, 2014, it still has significant differences from 2013, which will continue being realized in 2014 and beyond. The

1 Customer Services function is very different from that in existence prior to January 1, 2 2014, as the gas and electric businesses were separated and additional functions were added and continued to be added and reorganized in 2014 and beyond. The Business 3 and Shared Services segment of the business is nothing at all like it was in 2013, or 4 5 even 2014, as the Transition Services Agreement ("TSA") function provided by National Grid continued throughout 2014. Examples of these differences abound in 6 7 the testimony of the various PSEG LI panels. Operations in 2014 are therefore not 8 representative of a full year of normal operations. Rather than using unrepresentative 9 historical operating data, the Rate Plan filed in this case is based on comprehensive, 10 consolidated budgets which are described by the Budget Panel as well as by 11 testimony on behalf of the three major operating divisions of PSEG LI. 12 0. Does the law or the OSA contain any standard by which LIPA's rates should be set? 13 14 A. Yes. Section 6.2(B) of the OSA provides that "[t]he preliminary Three Year Rate 15 Plan shall be designed in a manner to ensure that, if adopted by LIPA and subject to 16 the forecast assumptions specified therein, LIPA and the Service Provider are able to 17 provide safe and adequate transmission and distribution service in the Service Area at 18 rates which are (i) at the lowest level consistent with sound fiscal operating practices 19 and (ii) sufficient to generate revenues necessary to satisfy LIPA's obligations to its 20 LIPA's [sic] bondholders, lenders and other creditors and contract counterparties 21 including the Service Provider." Section 5.2(B)(8) of the OSA further requires that "[t]he Operating Budget and the Capital Budget and the related ServCo staffing levels 22

for each Contract Year shall be designed to be adequate in both scope and amounts to reasonably assure that the Service Provider is able to carry out the related Operations Services in accordance with the Contract Standards and have a reasonable opportunity to earn Incentive Compensation under the Performance Metrics." In developing our revenue requirement, including PSEG LI's budgets, we have been cognizant of those requirements.

Q. Do budgets form the basis of the three-year Rate Plan referred to in the OSA?

A. Yes, they do. As the Budget Panel explains, they first developed budgets for the
operation and maintenance of the LIPA system by PSEG LI. Next, LIPA presented
its budgets to PSEG LI for the three years of the Rate Plan, and we consolidated the
PSEG LI budgets with the LIPA budgets to produce the Revenue Requirement which
is based on and produces the "Consolidated Budgets" required by the OSA.

13

IV. <u>CONSOLIDATED BUDGETS AND RATES</u>

 Q. Previously the Panel mentioned that the revenue requirement was developed using consolidated budgets, which include PSEG LI budgets, "PSEG LI managed expenses," and LIPA expenses. Are the consolidated budgets subject to long-term contracts now managed by PSEG LI that were entered into before PSEG LI became the manager?

A. Yes, a major portion of the consolidated budgets that make up the Revenue
Requirement is subject to the terms of long-term contracts entered into well before
January 1, 2014. For example, PSEG LI is now managing LIPA's power supply and
fuel contracts, and is administering the PILOTs (these are "payments in lieu of taxes"
which were property and revenue tax payments previously made by LIPA's
predecessor, LILCO).

1

2

3

4

5

6

1	Q.	Are increases in PILOT payments constrained by law?	
2	A.	Yes. PILOT payments on T&D property have been projected to reflect increases of	
3		2% over 2014 PILOT payments, in accordance with the provision of Public	
4		Authorities Law §1020-q limiting such increases to no more than that amount. Were	
5		it not for that provision of the law, we would be seeking an adjustment mechanism to	
6		account for PILOT increases (or decreases). We note, however, that some 2015	
7		property tax bills appear to contain increases greater than the 2% limitation and	
8		discussions are ongoing as to the appropriate response to such property tax bills.	
9 10	Q.	Did PSEG LI participate in the development of LIPA's budgeted costs, especially assumptions regarding LIPA's debt?	
11	A.	No. Although we had extensive and ongoing discussions with LIPA officials, the	
12		essential elements of cost in the LIPA budgets, such as debt cost assumptions, bond	
13		coverage assumptions and LIPA's own cost levels were developed and prepared by	
14		LIPA. They were then provided to PSEG LI for consolidation with our budgets	
15		pursuant to the requirements of the OSA. We then worked with LIPA officials to	
16		ensure that the revenue requirement prepared for this case properly reflected the costs	
17		and assumptions provided by LIPA. Witnesses on behalf of LIPA will provide the	
18		rationale for the decisions made with respect to the LIPA budgets.	
19 20	Q.	Are there other factors besides long term contractual costs that drive the revenue requirement in this case?	
21	A.	Yes. LIPA received grant income in 2014 and 2015 which in large measure, was	
22		composed of federal grants to LIPA for disaster recovery related to Superstorm	

Sandy, Hurricane Irene and other declared weather events. These costs, however,

Q. Do capital additions affect LIPA's revenue requirement?

A. Yes, but not directly as they do in an IOU's rate case.

Q. Please explain.

A. In an IOU's rate case, capital additions are translated directly into rate base additions 6 7 and then to the revenue requirement associated with a larger rate base. Here, however, capital additions to LIPA's system might initially be funded by short term 8 9 lines of credit which are then replaced by long term debt. The costs associated with 10 that debt, both as to the timing of the financing and the terms, including interest rates 11 (which, because LIPA debt is tax-exempt, are lower than IOU-issued debt) and 12 amortization periods, as well as refinancing decisions and efforts to securitize a 13 portion of the debt, are within the discretion of the LIPA Board of Trustees and, in the 14 case of securitized debt, actions of the State Legislature. Consequently, we are 15 guided in the revenue requirement we develop by the assumptions provided by LIPA 16 as to its debt related costs over the three-year Rate Plan period.

17 18 Q.

Do the LIPA budgets also reflect LIPA's decisions to levelize certain costs, charges and revenue requirement issues?

A. Yes, they do. For example, LIPA has expressed a position on the appropriate amount
of debt services coverage on its bonds which, in LIPA's opinion should be at a level
of 1.15 times in 2016; 1.20 times in 2017; and 1.25 times in 2018 on LIPA's debt.
LIPA's witness, Mr. Falcone, will support this coverage amount, what expenses are
properly subsumed under coverage and why LIPA believes the investment

1

2

3

4

1		community requires such coverage levels. LIPA is also responsible for the timing			
2		and refunding of its debt issuances and can address the effect that activity has on the			
3		annual revenue requirement.			
4	Q.	Did this Panel review those decisions by LIPA?			
5	A.	We did not, as those decisions by LIPA are based on matters that are uniquely within			
6		LIPA's knowledge and control. Consequently, they are presented by the witnesses			
7		LIPA is presenting in this filing on those subjects.			
8	v.	<u>REVENUE REQUIREMENT</u>			
9 10	Q.	Have you developed an Exhibit that sets forth the Revenue Requirement for the three years of the Rate Plan?			
11	A.	Yes. Exhibit (RRP-1) presents the electric delivery base rate revenue requirement			
12		with supporting Schedules for the Rate Years ending December 31, 2016, 2017 and			
13		2018, as well as presenting the approved budget for 2015.			
14 15	Q.	Please describe the information shown on Schedule A of Exhibit (RRP-1) entitled "Revenue Requirements."			
16	A.	Schedule A describes LIPA's projected revenues at current rates and the expenses and			
17		adjustments made to obtain the revenue requirement using the Public Power Model			
18		previously discussed.			
19	Q.	Please describe Schedule A-1 to Schedule C-1 of Exhibit (RRP-1).			
20	A.	These Schedules contain the revenues, expenses, and supporting information for the			
21		Revenue Requirement presented in Schedule A.			

I

VI. 1 AUTOMATIC ADJUSTMENT CLAUSES 2 О. Is the use of automatic adjustment clauses a common feature of ratemaking in **New York?** 3 4 A. Yes, it is. In its recent Order approving the Consolidated Edison rate settlement, the 5 Commission noted that such 6 reconciliation provisions... are designed to hedge the risk that 7 actual costs and expenses can vary from the levels forecast to establish revenue requirements. Such provisions are typical 8 9 components of multi-year rate plans where the required period 10 of forecast introduces risk that cost can vary materially from 11 expected levels. Reconciliation provisions are appropriate for 12 property taxes, interference, material costs such as 13 pensions/OPEBs and environmental remediation cost that are 14 difficult to forecast with certainty and are largely beyond the direct control of utility management. 15 Case 13-E-0030, et al, Consolidated Edison Company of New York, Inc., Order 16 17 Approving Electric, Gas and Steam Rate Plans In Accord With Joint Proposal, issued 18 February 21, 2014, pp. 43-44. 19 **O**. Is the use of automatic adjustment clauses appropriate in this case? 20 A. Yes it is. We note in particular the Commission's view that the employment of such 21 adjustment clauses "protects both ratepayers and utility investors' interests by ensuring that neither cost over-recovery nor under-recovery occurs." Here, of course, 22 there is no balancing of ratepayers' and investors' interests because LIPA has no 23 24 investors in the sense that IOUs have equity holders. If anything, the need for LIPA 25 to recover unanticipated costs is even greater than that of IOUs, which are required and able to bear some element of risk in light of their opportunity to earn a return. 26

1 2 3	Q.	What automatic adjustment clauses are you proposing should be implemented for LIPA, in addition to the existing Fuel and Purchased Power Cost Adjustment and other adjustment mechanisms currently in LIPA's tariff?	
4	A.	We propose a Delivery Service Adjustment. In addition, we support continuation of	
5		the Revenue Decoupling Mechanism ("RDM") that has been noticed to the LIPA	
6		Board of Trustees for approval in 2015.	
7	VII.	REVENUE DECOUPLING MECHANISM ("RDM")	
8	Q.	Please explain why LIPA's rates should include an RDM.	
9	A.	We note that adoption of an RDM has been noticed to the LIPA Board for 2015. If	
10		that RDM is approved by the LIPA Board, we support its continuation for the	
11		duration of the Rate Plan. Utility rates are designed to produce a revenue requirement	
12		based upon an assumption of revenue for the year or years for which rates are being	
13		set. Achieved revenue, however, can vary from that forecast for a variety of reasons,	
14		such as weather, economic conditions and conservation efforts.	
15	Q.	How does weather affect electric sales?	
16	A.	For a summer peaking utility such as LIPA, which has a significant air-conditioning	
17		load, a warmer, muggier summer than normal can inflate revenue above forecasted	
18		amounts, while a cooler, drier summer can result in lower-than-anticipated revenue	
19		collection.	
20	Q.	Can economic conditions affect revenue?	
21	A.	Events such as recessions, economic downturns and other economic conditions that	
22		reduce disposable income in its service territory can affect a utility's sales.	

I

3

4

6

7

8

9

10

Q. How does conservation adversely affect revenue?

A. Conservation by its very nature results in fewer kilowatts sold. For example, every incandescent bulb that is replaced by an energy efficient light bulb reduces electric sales.

5

Q.

Does LIPA promote energy efficiency?

A. Yes. LIPA has a considerable array of energy efficiency programs and is considering implementing the Utility 2.0 program proposed by PSEG LI that will further drive energy efficiency. These programs, however, are designed to reduce consumption. Unless LIPA is made whole for its sales lost to conservation by some other direct payment, it is actually penalized for promoting conservation.

11

Q. Is there another reason for employing an RDM?

12 Fundamental ratemaking equity requires that rates be based on the sales A. Yes. 13 achieved. If LIPA fails to achieve the sales anticipated it will fall short of meeting its 14 required debt service coverage and perhaps even fall short of meeting its expenses. 15 This is particularly problematic for a public entity like LIPA, where there are no 16 shareholders to absorb the business or regulatory risk of variable revenue; any 17 shortfall in anticipated revenues can only be made up by future customers, that is, 18 exactly those customers who will make up for a revenue shortfall under the proposed 19 RDM.

20 21

22

Q. Are RDMs common in New York for investor-owned electric companies?

A. Yes, they are quite common. In April 2007, all major electric and gas utilities in New York State were directed by the Public Service Commission to file proposals for true-

1 up-based revenue decoupling mechanisms, so as to eliminate barriers to utility 2 promotion of energy efficiency, renewables technology, and distributed generation. 3 Cases 03-E-0640 and 06-G-0746, Potential Electric and Gas Delivery Rate 4 Disincentives, Order Requiring Proposals for Revenue Decoupling Mechanisms 5 (issued April 20, 2007). To the best of our knowledge, since that time most if not all 6 of the major New York electric utilities have employed an RDM in their rate 7 structure. 8 **O**. Are you presenting the mechanics and proposed tariff language for an RDM? 9 A. No, we assume that the mechanics of the RDM that we expect to be adopted in early 10 2015 by the LIPA Board of Trustees will continue to govern this adjustment 11 mechanism. 12 VIII. DELIVERY SERVICE ADJUSTMENT ("DSA") 13 Q. Are you also proposing a change to the recovery of certain costs under the new 14 DSA? 15 A. Yes, we are. We are proposing that the DSA permit an annual reconciliation to the 16 following cost categories: (a) power supply costs; (b) major storm costs; and (c) debt 17 service costs. 0. 18 Please describe the power supply costs that would be subject to the DSA. 19 A. We are proposing that the costs related to the National Grid power plants, including 20 certain peaking plants (Far Rockaway, Glenwood and Port Jefferson) and Nine Mile 21 Point II be recovered based on a true up with the levels of expense currently

forecasted in rates. The mechanics of the clause itself are discussed by Mr. Trainor in his testimony.

Q. Are you also proposing to recover variations in major storm costs in the DSA?

A. Yes, we are. As with weather, storm costs are difficult to forecast with any degree of accuracy. The Rate Plan includes a set level of storm restoration costs. There is, consequently, a significant likelihood that LIPA will over- or under-collect storm cost expense in any given year. The storm cost reconciliation element of the DSA will assure that ratepayers pay LIPA's actual storm costs in a given year, no more, no less. Again, Mr. Trainor will discuss the mechanics of storm cost reconciliation in his testimony.

Q. Finally, the proposed DSA also includes a mechanism to track debt costs. Please explain why LIPA requires such an adjustment mechanism.

A. We are proposing this adjustment mechanism because the amounts and timing of
LIPA's debt offerings cannot be forecasted precisely. Furthermore, LIPA has built
significant projected refinancing savings into its projected debt service costs for 2016,
2017, and 2018, which may or may not be realized as budgeted. Consequently, it
would be preferable for LIPA to recover its actual cost of debt when it becomes
known.

Q. Is this clause appropriate in this case?

A. Yes. Because LIPA's rates are not being set on a rate base/rate of return method, the
 DSA permits LIPA a current recovery on debt costs (interest cost and principal

Q. Why is it necessary to implement a debt cost recovery mechanism if capital budgets have been generated for 2016, 2017 and 2018?

A. While it is true that capital budgets have been generated for those years, the translation of those budgets into debt, including the precise terms and cost rates and amortization provisions of that debt, is more difficult to forecast. That is especially true in this case where LIPA has made assumptions about debt cost savings in the form of additional issues of securitized bonds to replace existing bond issues and other bond refunding savings. The DSA permits LIPA to calculate and recover or refund any deviations from the forecasted debt service costs in a given rate year.

12 Q. If LIPA is permitted to securitize additional amounts of its existing debt; would 13 those savings be captured by the DSA?

A. Yes, they would be, as the DSA is intended to capture differences in LIPA's total
debt service costs in any given rate year from the levels forecasted in the case.
Consequently, if debt costs are reduced by a securitization of existing debt, those
savings would be captured by the DSA. As with the other adjustment mechanisms,
the mechanics of the debt cost recovery portion of the DSA are discussed by Mr.
Trainor in his testimony.

Q. Does this conclude the Panel's direct testimony at this time?

A. Yes, it does.

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-00262

REBUTTAL TESTIMONY OF RATEMAKING AND REVENUE REQUIREMENTS PANEL

Date: June 10, 2015

TABLE OF CONTENTS

I.	WITNESS QUALIFICATIONS	1
II.	PURPOSE OF TESTIMONY	3
III.	OVERALL REVENUE REQUIREMENT	3
IV.	CORRECTIONS AND UPDATED COST INFORMATION	5
V.	SECOND STAGE COMPLIANCE FILING	7
VI.	INFLATION ADJUSTMENT	10
VII.	PRODUCTIVITY ADJUSTMENT	14
VIII.	STRAIGHT TIME LABOR CHARGED TO STORMS	17

1 I. <u>WITNESS QUALIFICATIONS</u>

2 3	Q.	Please state the names of the members of this Ratemaking and Revenue Requirements Rebuttal Panel (the "Panel").
4	A.	We are Gary S. Ahern, Joseph Trainor, Fritz Ferdinand, Louis M. DeBrino and Lisa
5		Figliozzi.
6	Q.	Have you previously submitted pre-filed testimony in this proceeding?
7	A.	Yes, except for Fritz Ferdinand, as members of the Ratemaking and Revenue
8		Requirements Panel, and as a member of the Storm Response Panel (Mr. DeBrino),
9		and our witness qualifications are set forth in those testimonies.
10	Q.	Mr. Ferdinand, please state your employer and business address.
11	A.	I am employed by PSEG LI and my business address is 175 E. Old Country Road,
12		Hicksville, New York 11801.
13	Q.	In what capacity are you employed by the Company?
14	A.	I am employed by the Company as a Senior Analyst in Regulation and Pricing. My
15		current responsibilities focus on all aspects of the revenue requirements model and
16		assisting in the budget process. I have held this position since August 2014.
17	Q.	Please summarize your educational and professional background.
18	A.	I joined KeySpan Corporation (a predecessor company of National Grid) in 2005. From
19		2005 to 2014, I held several accounting/finance positions. My first position in the utility
20		industry was at KeySpan Energy Trading Services department. I was responsible for the
21		preparation of Premium Accounting remittances and invoicing on option contracts. Also,
22		I was in charge of the disbursals and reversals journal entries related to margin calls and
23		settlements.

At the end of 2006, I assumed a role in the Fixed Assets department. I have developed and assisted in the preparation of policies and procedures on Asset Retirement Obligations (AROs), work order life cycle, unitization, and retirements. I have interfaced with engineering, project management and operation organizations regarding a variety of topics in the areas of accounting for capital construction for LIPA and National Grid. Furthermore, I provided support as needed for regulatory rate proceedings for Brooklyn Union Gas, Keyspan Energy Delivery Long Island, Boston Gas Company (including the former Essex Gas Company) and Colonial Gas Company. In 2011, I joined the Cash Accounting department at National Grid. I was actively involved in the implementation of the new Cash processes in SAP. I have worked with different groups within Finance/Accounting and IT departments to prepare policies and procedures for the Cash group. I handled the tasks of cash clearing accounts, and prepared schedules for year-end audits. I proposed and reviewed monthly adjusting entries to record interest, bank fees, recurring ACH credits, outgoing wire transfers, and returned checks.

In addition to my experience in utility and energy industry, I have had Accounting/Finance functions in other industries encompassing auditing, taxation, compensation, general ledger, Accounts Payable (A/P), and Accounts Receivable (A/R). I hold a BS degree in Accounting from Molloy College, New York (2005) and an MBA from Dowling College, New York (2015).

1
2

II. <u>PURPOSE OF TESTIMONY</u>

Q. What is the purpose of your testimony?

3 A. We will present the consolidated revenue requirement after considering the recommendations of the Staff of the Department of Public Service ("DPS Staff") and 4 5 other parties. We will further demonstrate that certain forecasts in the filing will become known and measurable at points in 2015 and again in 2016. We are, 6 7 therefore, proposing a late 2015 update, and a "second stage" update submission to the LIPA Board of Trustees in late 2016 so that known and measurable numbers can 8 9 be incorporated into the rate changes that become effective on January 1, 2017 and 10 January 1, 2018, respectively. Finally, we will present rebuttal testimony on the 11 inflation forecast, productivity adjustment, and the issue of straight time labor billed 12 to storms.

13

III. OVERALL REVENUE REQUIREMENT

Q. 14 Have you developed an exhibit to explain the differences between the revenue requirement contained in the initial filing on January 29, 2015 and the revenue 15 16 requirement currently being sought by PSEG LI and LIPA? Yes. Exhibit RR-REB-1 shows the projected revenues and overall rate requests 17 A. 18 for the three years of the rate plan, 2016, 2017 and 2018. As can be seen, the overall 19 revenue requirement has changed from increases of 2% per year on total revenue to 20 increases of 1.6%, 1.7% and 1.8% in the years 2016, 2017, and 2018, respectively, as 21 will be explained. Exhibit _____RR-REB-2 provides the detailed adjustments required 22 to determine the revenue surplus or shortfall. It supplements Exhibit _____ RR-REB-1.

Q. Have you developed an exhibit to explain the differences between the revenue requirement that was presented by PSEG LI on January 29, 2015 and that presented by the DPS Staff in its revised filing on June 8, 2015, which replaced its filing of May 14, 2015?

5 A. Yes. DPS Staff's Policy, Overview and Revenue Requirement Panel has presented an 6 overall revenue requirement exhibit in its revised Exhibit___PORR-3, with 7 explanatory notes for various adjustments they made. We have used Staff's exhibit, 8 as corrected in its submission of June 8, 2015, as our starting point for an exhibit that 9 presents our revised revenue requirement for the three years of the rate plan. Our 10 exhibit points out corrections to the DPS filing, adjustments for updated cost 11 information, adjustments by DPS Staff, in both its original and revised submissions, 12 with which LIPA and PSEG LI agree, and adjustments made by the DPS Staff with which PSEG LI and/or LIPA disagree. This information is presented in our 13 14 Exhibit RR-REB-3.

Q. Based on the corrections and updates of LIPA and PSEG LI, what is the current revenue requirement?

A. Exhibits __ (RR-REB-1, RR-REB-2, and RR REB-3) present the electric delivery
base rate revenue requirement with supporting Schedules for the Rate Years ending
December 31, 2016, 2017 and 2018. The cumulative rate request for each rate year
is: approximately \$60.0 million, effective January 1, 2016; \$123.8 million, effective
January 1, 2017; and \$191.2 million effective January 1, 2018. This equates to
annual increases of \$60.0 million on January 1, 2016, \$63.8 million on January 1,
2017, and \$67.4 million on January 1, 2018, respectively.

1 2

3

0.

Do you have an overall observation about the revenue requirement developed by the DPS Staff?

3 Α. Yes. In its revised submission of June 8, 2015, DPS Staff proposes rate increases of 4 \$20.5 million on January 1, 2016, \$67.2 million on January 1, 2017, and \$79.7 5 million on January 1, 2018, respectively, subject to updates that will be addressed in our discussion below on a second stage submission. We note that the DPS Staff's 6 7 revenue requirement in 2016 is lower than PSEG LI's revenue requirement by \$17.9 8 million to reflect a higher level of sales than we believe is reasonable. The rate 9 increase is also reduced by DPS Staff's lower capital budgets, which reduce LIPA's 10 debt service costs. As a general matter, we think it should be obvious that rates 11 should be set in this three-year rate plan proceeding based on the forecasts that are 12 most consistent with the evidence. Setting rates based on, for example, overly 13 optimistic sales forecasts increases the probability that rate resets on January 1, 2017, 14 2018, and 2019 will be positive. The remainder of the DPS Staff's reduction in 2016 15 relates to adjustment of approximately \$20 million to PSEG LI operating expenses. 16 PSEG LI strongly disagrees with these adjustments, as explained by the various panel 17 testimonies that were filed on June 4 and 5, 2015.

18

IV.

CORRECTIONS AND UPDATED COST INFORMATION

19

Are there any corrections that need to be made to the PSEG LI filing? **Q**.

20 A. Yes. There are two corrections. As the DPS Staff correctly noted, PSEG LI double-21 counted Nine-Mile Point 2 decommissioning costs in its original rate plan filing.

1		PSEG LI is accepting the correction of approximately \$-1.1 million for each year
2		2016, 2017, and 2018.
3		Another item is also associated with Nine-Mile Point 2. Since the date of the
4		rate filing, a decommissioning study by Exelon Energy resulted in a lower Asset
5		Retirement Obligation (ARO) caused by lower inflation rates and different
6		assumptions. The forecasted accretion levels should be adjusted downward by
7		approximately \$-1.3 million for 2016, \$-1.3 million for 2017, and \$-1.4 for 2018.
8 9	Q.	Is there other cost information that should be updated prior to the decision in this case by the LIPA Board of Trustees?
10	A.	Yes. The Power Supply Agreement and Property Tax Payments in Lieu of Taxes
11		("PILOTs") should be updated in late 2015 to take into account known changes.
12		PSEG LI filed property tax PILOTs in rates, assuming that they would grow by 2%
13		per year, as indicated in the LIPA Reform Act. The latest property tax bills received
14		from certain municipalities indicate increases higher than the 2% cap. PSEG LI and
15		LIPA are reviewing these greater-than-expected increases, and the overall impact is
16		unknown at this time, so LIPA is requesting that any increases above the two percent
17		property tax cap over the prior calendar year be updated later this year. The second
18		update being proposed in mid-2015 affects the National Grid Power Supply
19		Agreement, which contains personnel costs for operating and maintaining the Long
20		Island generation plants. Under this long-term contract, LIPA's responsibility for
21		pensions and other post-employment benefits ("OPEBs") is under scrutiny at the
22		Federal Energy Regulatory Commission ("FERC"), which has jurisdiction over the

1

Power Supply Agreement. As the outcome of that discussion is not known and has not been incorporated into our rate plan submission, it, too, would be an appropriate item to be updated if possible prior to the determination of this matter by the LIPA Board of Trustees.

5

6

7

8

9

10

V.

SECOND STAGE COMPLIANCE FILING

О. Are you proposing a second stage submission of costs in this rebuttal testimony?

A. Yes, we are. LIPA's witness Mr. Falcone has identified several cost categories that will become known and measurable by the end of 2016, and which should be recognized and incorporated in the delivery rates for implementation with the rate change slated to take effect on January 1, 2017 and January 1, 2018. PSEG LI agrees.

11 Q. Are second stage filings common in multi-year rate plans?

12 A. Yes, they have often been used by the New York Commission and other regulatory commissions to capture future cost estimates when they become known and 13 14 measurable. The sole purpose of the second stage procedure envisioned here is to replace forecasted costs with actual costs when known. 15

O. 16 What cost categories are appropriate to include in the second stage compliance 17 filing?

18 A. It would be appropriate to include known changes to LIPA debt costs; T&D property 19 tax and PILOT payments; and union wage increases.

20 The first is meant to capture the cost rate on the USDA debt (securitized debt) 21 that LIPA plans to issue in the summer of 2016, changing interest rate assumptions on 22 LIPA's fixed debt issued in 2016 and variable interest rate assumptions for LIPA's

variable rate debt. The actual schedule of debt service and corresponding savings resulting from the expected 2016 UDSA offering will be known and measurable later in 2016 and can be substituted for the estimated amounts that were used to set rates for calendar years 2017 and 2018. Also, any new fixed rate debt issued to support capital expenditures will be known and measurable by mid-to-late 2016. Lastly, as recommended by the Department, LIPA would update it variable rate debt assumptions and future fixed rate debt assumptions to the latest available actual information.

The second category of costs proposed for the second stage update is up-todate information regarding T&D property tax and PILOTs. To the extent they are known and predictable, the actual property tax and PILOT bills and escalation rates should be substituted for the estimated bills and be incorporated in the 2017 and 2018 delivery rates.

PSEG LI's contract with its union workers will expire in November 2016. At this time a placeholder using PSEG LI's estimate of inflation of 2.5% was used to forecast the new union contract rate. DPS Staff improperly employed a lower rate of 1.9% for union wages in 2016 and then forecasted a lower rate of inflation of 2.1% in 2017 and 2018, which they applied as a proxy for the new union contract rate. Given that the actual union labor rates will be known and measureable in November 2016, those union labor rates should be incorporated in the base rates to be effective on January 1, 2017 and January 1, 2018.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1	Q.	Does DPS Staff appear to agree with this proposal?
2	A.	Yes. In their recent filing of June 8, 2015 the DPS Staff notes in the testimony of the
3		Policy Overview and Revenue Requirement Panel (at pp. 37 and 38) that, although
4		LIPA debt costs, the union contract and property taxes were forecasted in the rate
5		plan filing, "it is preferable to have base delivery rates reflect the most accurate cost
6		forecast available" and, therefore, these costs could be updated with actual costs for
7		rate years two and three when they become known in late 2016.
8 9 10	Q.	Please explain how such an update of known costs should be implemented for inclusion in base rates that become effective on January 1, 2017 and January 1, 2018.
11	A.	The update procedure should be a ministerial matter. The actual cost of the LIPA
12		debt is a matter of record and is calculable by LIPA's finance organization. The
13		current collective bargaining agreement will run through November 12, 2016. Any
14		increases attendant to re-negotiation of that agreement will be known upon its
15		expiration. Finally, actual property tax PILOT bills for 2016 will be known at that
16		time. It is proposed that these costs be provided to the LIPA Board of Trustees, with
17		the tariff leaves necessary to implement the requisite base rate changes resulting from
18		the costs, in sufficient time so that they can be adopted at the Board's December
19		meeting.

2

3

4

5

6

7

8

9

10 11 12

13

14

15

16

19

20

21 22

23

24

25

26

27

VI. <u>INFLATION ADJUSTMENT</u>

Q. Did PSEG LI's budgets for 2016, 2017 and 2018 include an inflation adjustment?

A. Yes, they did. As explained in the testimony of the Budget Panel (p. 13):

The 2016, 2017 and 2018 budgets were escalated for specific factors such as inflation, wage, salary and benefit increases and known activity level changes such as placing the tree-trim and maintenance on optimal cycles, adding employees where necessary and reflecting additional known increases or decreases to costs and projects

The general escalation rates used for union labor were 2.5%, for management salaries

3.0%, for fringe benefits 6%, for insurance 7%, and for non-labor and affiliate

transactions 3% for 2015 through 2018. As explained above, however, discrete

activity level changes were forecasted, along with known or reasonably forecasted

changes.

17 **Q.** Did DPS Staff agree with this methodology?

18 A. No. The Panel (at page 7) used a different measure of inflation and applied it to the

2015 budget levels of O&M expense, as follows:

Using 2015 as the base year, the forecast GDP IPD inflation rate is 1.94% for 2016 and 2.1% for 2017 and 2018, respectively. We then applied these factors to PSEG LI's 2015 expenses to arrive at the forecasted 2016, 2017, and 2018 rate year expense levels. The escalating factors were applied to the inflation adjusted expenses which were also adjusted for Staff's operation and maintenance adjustments.

According to DPS Staff, this resulted in "a reduction of operations and maintenance expense of \$6.95 million in 2016, \$4.93 million in 2017 and \$5.73 million in 2018."

440<u></u>

1 2	Q.	Do you agree that it is appropriate to apply an inflation factor to all elements of O&M expense such as DPS Staff has done?
3	A.	No. The DPS Staff applies a 1.9% limit on union wages in 2016 and 2.1% in 2017
4		and 2018, and then applies an additional productivity adjustment on top of that. We
5		have additional concern with the DPS Staff's blanket inflation approach. For union
6		benefits, the PSEG LI Panel stated that:
7 8 9 10 11		the cost increases that were used for the administrative fees associated with benefits programs were escalated based on vendor contracts and fee agreements in place. With regard to medical and dental claims, we used a 6.6% increase for medical and a 6.7% increase for dental.
12 13		Where cost increases are known, or reasonably capable of projection, such as here,
14		there is no need to resort entirely to an index, as DPS Staff has done, especially one
15		as low as Staff's. This is especially true for medical costs, since it is well known that
16		those costs have increased at many times the overall rate of inflation in the past, and
17		PricewaterhouseCoopers' Health Research Institute projected that medical costs
18		would rise 6.5% in 2014 and projects an increase of 6.8% in 2015. Given the
19		historical rate of medical inflation, DPS's Staff's application of the 1.9% inflation
20		rate to medical benefits is unreasonable, and inconsistent with the cost recovery
21		procedures under the Amended and Restated Operations Services Agreement between
22		Long Island Lighting Company d/b/a LIPA and PSEG Long Island LLC, dated as of
23		December 31, 2013 (the "OSA").

0. Were PSEG LI's management, administrative, supervisory and technical 1 ("MAST") employees' salaries escalated at the rate of inflation? 2 3 Α. No, they were escalated by the Wages, Salary and Benefits Panel at an annual rate of 4 three percent for each year of the three-year rate plan as explained by the Wages, 5 Salary and Benefits Panel on page 14. As the Wages, Salary and Benefits Panel explained (at page 12): 6 7 PSEG LI's compensation philosophy is to measure and set a competitive total cash compensation opportunity (base salary 8 plus variable pay) to levels found at other companies for 9 10 similar roles and responsibilities. The variable portion of total 11 compensation is considered pay at risk, in that it must be reearned each year based on meeting pre-determined goals and 12 13 operating targets. 14 15 In fact, the variable pay component of a MAST employee's salary is 16 determined, in large part, by the metrics under the OSA. As the Wages, Salary and 17 Benefits Panel pointed out (p. 13), PSEG LI's Performance Incentive Plan ("PIP") for 18 MAST employees is designed with 60% of the award determination linked to 19 performance against the PSEG LI Balanced Scorecard, 30% attributed to the PSEG 20 LI business plan operating earnings, and 10% to the PSEG-wide strategic goal known 21 as "People Strong." The Balanced Scorecard is based on reliability, safety, operational measures, and adherence to budgets, which are the primary metrics 22 23 applicable to PSEG LI under the OSA. This is also in line with performance incentive 24 plans that the NY Public Service Commission has endorsed in the past because they 25 are aligned with ratepayer benefits. Here, again, however, DPS Staff would constrain 26 the recovery of cost forecasts that are reasonable, restrained and wholly in keeping 27 with the parameters of the OSA.

0. Did the DPS take issue with PSEG LI's compensation plan or suggest another 1 measure of compensation? 2 3 A. No, they did not. The Staff simply applied its forecasted inflation rate across the 4 board to MAST salaries. 5 Q. Did the Staff also apply its forecasted inflation rate to MAST employees' benefits? 6 7 A. Yes. 8 Q. Do you agree with that approach? 9 Α No, we do not. MAST employees' medical and prescription drug plans were 10 projected by the Wages, Salary and Benefits Panel to increases for 2016 – 2018 at an 11 annual cost increase of 6.6%, assuming no changes to employee contributions or plan 12 design based on actual costs. Dental costs were projected for 2016, following the expiration of the existing vendor contract and based on the actual six months of 13 14 claims experience presented, assuming increase of 15% based on an existing 15 agreement for 2016, and increases for 2017-2018 projected at an annual rate of 6.7%. 16 These increases are three times the inflation rate used by Staff and are in line with the 17 actual increases experienced to date. 18 **O**. Are there reasons to assume that the increases projected in the Company's filing 19 were conservative? 20 A. Yes, as the Wages, Salary and Benefits Panel points out, the Affordable Health Care 21 Act ("AHCA"), in 2018, may impose a 40% excise tax on our health plans. The 22 projections that were contained in the Company's filing do not factor in this tax or the 23 impact of the AHCA on our benefit program.

1 2 3 4	Q.	Based on the above, is the DPS Staff's application of the GNP Implicit Price Deflator forecast of inflation to the Company's O&M to project increases during the Rate Plan likely to provide for rate recovery of the actual costs that PSEG LI will pass through to LIPA under the OSA?
5	A.	No, it is not. Even if it is determined to use the Staff's forecast of inflation, it should
6		only be applied to the union wage forecast in 2017 and 2018 and to other elements of
7		cost that are not discretely forecasted. It should neither be applied to union benefits
8		forecasts nor to the MAST salaries or benefits forecasts, nor to any cost element that
9		has been separately forecasted and justified.
10	VII.	PRODUCTIVITY ADJUSTMENT
11 12	Q.	Did PSEG LI make a productivity adjustment to its proposed budgets for 2016, 2017 and 2018?
13	А.	Yes we did. The productivity adjustment was a cap imposed by PSEG LI
14		management on the totality of labor and non-labor increases forecasted in our
15		budgets. PSEG LI applied an overall general productivity adjustment of \$ 626,774 to
16		2016, \$1.9 million to 2017 and \$4.7 million to 2018, although organizations such as
17		Transmission & Distribution embedded productivity within their base budgets, as
18		explained in T&D Operations Panel Rebuttal Testimony for Bulk Electric Power.
19 20	Q.	Did the DPS propose to impose a different productivity adjustment on PSEG LI's budgets?
21	A.	Yes. The Staff Inflation, Productivity and Management Audit Panel ("Panel")
22		proposed to impute the Commission's so-called "standard" productivity adjustment of
23		one percent of the sum of labor and benefits expenses, applied to offset total O&M
24		expense for each of the three rate years. As the Panel notes, the result of the

productivity adjustment is to reduce the revenue requirement by \$1.7 million in 2016 and \$455,000 in 2017. IPMA Panel, p. 9. DPS Staff states that "'[i]n rate year 2018 the Company exceeded the standard and therefore no adjustment is warranted."

Q. Is the standard productivity adjustment warranted in this case?

A. We do not believe so. As noted above, PSEG LI did present discrete productivity savings in the case and DPS Staff has recognized this. Additionally, there are other productivity savings imputed to the case that DPS Staff has not recognized. For example, the T&D Operations Rebuttal Panel noted well over \$600,000 of annual savings relating to an under-representation of the staffing needs for the new definition of the Bulk Electric System. This, alone, would obviate 1/3 of DPS's productivity reduction in 2016 and all of it in 2017. Furthermore, DPS Staff conceded that PSEG LI's productivity adjustment exceeded DPS's in 2018 but the DPS Staff did not give credit to PSEG LI in its methodology. In fact the productivity savings level filed by PSEG LI in 2018 was \$-4.7 million, which is more than DPS proposed figures for 2016 and 2017 combined. PSEG LI believes that 2018 should be adjusted upward to be consistent with the approach used by the DPS in 2016 and 2017, to \$2.7 million. This adjustment is reflected in DPS Staff's workpaper but not flowed into its summary of adjustments.

Q.

Are there other reasons why the productivity adjustment is inappropriate here?

A. Yes. Since shortly after the adoption of the forecasted rate year in its 1977 Policy Statement on Test Years in Major Rate Proceedings, the Commission has made an imputed productivity adjustment to the projected O&M expenses of investor-owned

1		utilities in New York. The explicit purpose of this adjustment is to impute
2		productivity gains to an investor-owned utility in order to drive efficiencies. See
3		Consolidated Edison Company of New York, Inc., Order Setting Electric Rates, Case
4		08-E-0539, 2009 WL 2448034 (April 21, 2009) (explaining that, if there were
5		additional productivity gains over the 1% level, the Company would have the
6		incentive to capture them in the short run, which would benefit ratepayers for the long
7		term, and noting that "limiting the productivity imputation to 1% would leave the
8		Company with some minimal upside earnings potential."). The Commission has
9		realized that, for an investor-owned utility, any productivity savings would be
10		retained by its shareholders. LIPA, however, is not an investor-owned utility. It has
11		no shareholders and its owners are the public - essentially its customers.
12		Consequently, the efficiency incentive behind the productivity adjustment, i.e., the
13		ability of shareholders to retain any efficiency savings, is not present in LIPA's case.
14 15	Q.	Isn't it true, however, that LIPA is operated by PSEG LI, which does have shareholders?
16	A.	Yes, PSEG LI has shareholders, but its operation is governed by the OSA, which
17		contains a complex set of operating requirements, along with strict operating metrics
18		and punishments and incentives applicable to PSEG LI's operation of the LIPA
19		system.
20 21	Q.	In your view, does the OSA negate and obviate any need to impute an artificial disallowance of one percent of labor and benefits as an efficiency incentive?
22	A.	Yes. The 1% so-called "productivity" adjustment is really nothing more than a
23		disallowance of PSEG LI's projected labor, benefit, OPEB and pension costs. Here,

1		however, the only basis on which costs may be disallowed lies in the OSA. The OSA
2		contains a complex set of metrics, containing incentives and penalties that are
3		described in the testimony filed earlier in this proceeding by the Metrics and Safety
4		Panel. Those metrics drive, among other things, the incentive payments described in
5		OSA section 5.1 C. The so-called "productivity adjustment" should not be injected
6		into the carefully structured arrangement of the OSA which, itself, governs the
7		entirety of PSEG LI's performance incentives and disincentives.
8 9	Q.	Do you agree with the DPS Staff's calculated revenue requirement impact of the inflation and productivity adjustment?
10	A.	No. Even if one were to agree with these DPS Staff adjustments, they are calculated
11		incorrectly because they fail to take account of the different treatment of pensions and
12		OPEBS under the Public Power Model. DPS Staff's adjustments were applied to the
13		GAAP costs calculated for PSEG LI's labor and benefits but fail to take into account
14		the fact that LIPA's rates use ERISA funding for Pensions and cash accounting for
15		OPEBS, thereby overstating the adjustment. At the very least, then, the productivity
16		adjustment, if it were to be adopted, should only be applied to the pension and OPEB
17		expense actually used to set rates under the Public Power approach.
18	VIII.	STRAIGHT TIME LABOR CHARGED TO STORMS
19 20 21 22	Q.	Are you also addressing the recommendations of the DPS Staff Delivery Service Adjustment and Storm Reserve Panel ("DSP Panel") regarding charging straight time labor to storms and the recognition of certain expenses incurred in preparing for storms that fail to materialize?
23	A.	Yes. The DPS Staff Panel (at p. 23) states that "LIPA and PSEG LI failed to
24		distinguish whether they made adjustments for straight time labor costs that are

already being recovered in base rates" [and] "recommend[s] that only incremental costs be charged to the storm reserve account." We understand these concerns but will show that the practice by which LIPA is charged for storm related work is consistent with the OSA and charges costs appropriately for storm expenses. We also acknowledge the DPS Panel's concern that preparation work for anticipated storms that fail to achieve the expected storm threshold should be billed to the storm account in appropriate circumstances, and will explain why we agree with the DPS Panel's proposed solution.

9

10

11

12

13

14

15

16

17

18

19

20

21

22

Q. In order to frame the issue, is the definition of "storms" important?

A. Yes. There are two different storm event definitions – the one governed by the terms of the OSA, which dictates when storm events become chargeable to the LIPA storm budget; and second, the "PSC major storm" definition, which sets forth criteria that are used by all IOUs in New York (and PSEG LI) to identify outage data that is to be excluded from a utility's calculation of reliability statistics.

There is a clear distinction between these two definitions. While each defines particular storm events, there is no direct correlation between the two, as they are being used for very different purposes. The definition set forth in the OSA is a contractual, financial arrangement between LIPA and PSEG LI. The DPS Staff Panel recognizes that the definition of a storm event used by LIPA and PSEG LI under the OSA differs from the definition of a major storm used by the DPS in calculating reliability statistics. The DPS Panel acknowledges on page 22 that the treatment of storms recognizes that "PSEG LI and LIPA … follow the definition of a "Storm

1

2

3

4

5

6

7

1		Event' defined in the OSA as an event where at least 15,400 customers are
2		interrupted or at least 150 jobs are logged in each case within a 24 hour period."
3 4	Q.	Does the DPS Staff Panel acknowledge that the categories of costs that are chargeable to storms are contained in the OSA?
5	A.	Yes. DPS Staff recognizes (p.23) that "[c]hargeable costs [to the storm reserve]
6		specified in the OSA include, but are not limited to, straight time labor, non-
7		capitalized costs, etc., which the Panel believes to be reasonable."
8 9 10 11 12 13	Q.	Although the DPS Staff Panel concedes that straight time is appropriately charged to the storm reserve and that the costs are reasonable, the Panel states (p. 23) that it is "concerned with the treatment of straight time labor costs and the manner in which storm event costs are reconciled with respect to straight time and recommend that only incremental costs be charged to the storm reserve account." Do you agree with this recommendation?
14	A.	No, although we understand the DPS Staff's concerns, we believe that the ratemaking
15		treatment of straight time storm expense proposed in this rate plan properly takes into
16		account the operation of the OSA with respect to storms and is entirely appropriate
17	Q.	How is straight time storm labor addressed in the rate plan?
18	А.	In developing the OSA, PSEG LI and LIPA recognized that storm response is a
19		common occurrence on Long Island and, consequently, an appropriate part of PSEG
20		LI's normal, straight time labor expense would be spent responding to storms. The
21		PSEG LI budget process allocates straight time labor and benefits into the following
22		categories: O&M Capital; Storms; FEMA; and assessments that clear to O&M and
23		capital. Only T&D personnel are permitted to bill straight time labor costs to LIPA
24		during a "storm event," since all other personnel's straight time is fully contained
25		within base O&M budgets. All labor and associated fringe benefits and taxes have

1		been accounted for in LIPA's revenue requirement, including the straight time labor
2		amount that is budgeted to Storms in a normal year.
3 4 5	Q.	As noted, in its testimony at page 23, the DPS Staff Panel recommends that only incremental costs be charged to the storm reserve. Is this a reasonable limitation?
6	A.	No. If straight time is not properly charged to storms, the OSA is not being followed
7		and time actually spent responding to storms will not be recovered.
8 9 10	Q.	If straight time labor expense has already been allocated in rates between storms and O&M, won't charging additional straight time expense to the storm reserve result in an over recovery?
11	A.	No. In a year where there are significantly more major storms than usual, T&D
12		employees are required to spend a larger portion of their straight time addressing
13		storm-related work, and their base work, normally done in those straight time hours,
14		will not be completed. Therefore, the allocation of straight time to storms when the
15		storm work is being done prevents the storm work from eating into the original base
16		budget. This feature of the OSA allows PSEG LI to collect the cost of both the
17		additional storm work and original base budget work that was delayed due to the
18		storm. The only way that LIPA can be made whole and complete the original
19		budgeted amount of base work is to charge additional straight time to the storm
20		reserve. The base work on the T&D system can then be covered by overtime and
21		contractors because the straight time work was being charged to storms.
	1	

Q. The DPS Staff Panel has "recommend[ed] that PSEG LI file a report with DPS within 30 days after a storm event where costs were charged to the storm reserve... reconcile[ing] labor costs recovered in base rates to the labor costs charged to the storm reserve." The DPS Staff Panel claims that "[t]his will preclude double counting." Is that a reasonable recommendation?

6 A. A reporting system might have merit if several facts were taken into account. First, if 7 such a report were deemed desirable, PSEG LI will need 90 days following a storm to provide the DPS with a reconciliation of storm related labor. In order to provide the 8 9 DPS with accurate and verifiable data, we will need to allow for time to close our 10 books. If, for any reason, there were delays in processing work orders/timesheets, the 11 data may flow into the next reporting period. In addition, we need time to review, analyze and investigate charges that may need clarification. 12 Providing a 13 reconciliation of all storm related labor and overheads will require a 90 day period in 14 order to ensure for the completeness of the report. Second, any such reports should 15 not "morph" into a systemic reporting system. A few spot reports, randomly selected, 16 should be both sufficient to inform DPS Staff that storm accounting is being properly 17 managed and that no storm-related costs are being reflected twice in rates.

Q. Does the DPS Staff Panel recognize that PSEG LI may incur costs in anticipation of a storm event that does not materialize?

A. Yes. PSEG LI appreciates DPS Staff's recognition that PSEG LI has sole
 responsibility for emergency preparedness and more importantly, that there are
 significant challenges in forecasting weather and balancing the proper level of
 preparation from a risk perspective. Oftentimes with the prediction of significant
 storm activity, there is a potential for storm preparedness activities to incur significant
 costs for storms that do not qualify as reimbursable storm events when actual weather

1

2

3

4 5

18

is less severe than predicted. PSEG LI goes to great lengths to make appropriate decisions related to the level of pre-storm preparation activities based on the predicted weather event. While such decisions are based on sound judgment and years of experience, there still exists the potential for actual storm activity to be less than anticipated, potentially leaving PSEG LI with significant costs that it cannot recover from the LIPA Storm Reserve because they do not qualify as storm events under the OSA. In that case, PSEG LI must charge the costs to O&M expense, placing undue pressure and associated risk on PSEG LI's ability to meet the OSA metrics targets of attaining the O&M budget when it is forced to absorb significant storm preparation costs that cannot be billed to the Storms account.

0. Did the DPS Staff Panel recommend a protocol that might address this problem? A. Yes. The DPS Staff Panel states (at page 26) that they will examine all preparatory storm costs incurred by PSEG LI for storm events that do not materialize as predicted. The Panel goes on to state that "[f]ollowing this examination, DPS may, if necessary, make formal recommendations to the LIPA Board of Trustees as to the reasonableness of those costs prior to authorization for payment given by the LIPA Board." PSEG LI appreciates the DPS Staff Panel's recommendation and agrees that such a review mechanism would help to mitigate some of the risks PSEG LI incurs when planning for storm events that ultimately do not materialize as predicted. Under the OSA, in a year of significant non-qualifying events (or a large non-event that occurs late in the fiscal year), the Company's ability to meet its O&M budget metric targets will be severely compromised because costs that should be charged

incrementally to storms, but cannot be when the storm does not ensue, put strains on the budget and, as described above, on PSEG LI's ability to perform its normal workload within contractual limits. Accordingly, PSEG LI supports the DPS Staff Panel's suggestion to review future non-qualifying events and the reasonableness of the costs incurred, and to make recommendations to the LIPA Board of Trustees for potential recovery as storm expenses. PSEG LI will work with the DPS Staff and LIPA Staff to implement this recommendation.

- Q. Does this conclude your rebuttal testimony?
- A. Yes, at this time.

1

2

3

4

5

6

7

8

JUDGE PHILLIPS: The next panel by affidavit is PSEG Storm; 1 2 is that correct. 3 JUDGE VAN ORT: Is that your Storm Response Panel? MR. WEISSMAN: Correct, Your Honor. There was only Direct 4 5 Testimony from the Storm Response Panel of Mr. DeBrino and Mr. Massaro filed on January 30, 2015. It is consisting of 17 pages 6 7 and a single exhibit. I am checking the list for where that 8 exhibit falls. It is Exhibit SRP-1-ERP Redacted. It's Exhibit 9 64 consisting of 415 pages. That was submitted, again, on 10 January 30, 2015. I would like to approach the bench with the 11 affidavit supporting that testimony and exhibit. 12 JUDGE PHILLIPS: Approach. 13 MR. WEISSMAN: (Handing). 14 JUDGE PHILLIPS: The affidavit of the Storm Response Panel 15 has been marked for identification as Exhibit 114. On that 16 basis, the Pre-filed Direct Testimony of the Storm Response 17 Panel will be copied into the record as though given orally. 18 19 20 21 22 23 24 25

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-____

DIRECT PRE-FILED TESTIMONY OF THE STORM RESPONSE PANEL

Date: January 30, 2015

TABLE OF CONTENTS

I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY	1
II.	FACTORS AFFECTING STORM RESPONSE	6
III.	MEASURING STORM RESPONSES	8
IV.	KEY DRIVERS OF THE ERP	10
V.	EMPLOYEES ROLES IN EMERGENCY RESPONSE	12
VI.	NEW PROGRAMS TO ENHANCE THE EMERGENCY RESPONSE	13
VII.	ENHANCED COMMUNICATIONS	14

1

2

3 4

I.

WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY

Please state the names of the members of this Storm Response Panel (the 0. "Panel").

- We are Louis M. DeBrino and Robert J. Massaro, Jr. A.
- 5 0. Mr. DeBrino, please state your employer and business address. 6 A. I am employed by PSEG Long Island ("PSEG LI," or "Company") and my business 7 address is 175 E. Old Country Road, Hicksville, NY 11801.

0. 8 In what capacity are you employed by the Company?

9 A. I am Manager, Emergency Preparedness of PSEG LI, a position I have held since January 2014. 10 In this position, I oversee the development, maintenance and 11 execution of PSEG LI's emergency preparedness which provides for a coordinated 12 response during major storms and other system emergencies. I am charged with 13 maintaining a constant readiness of our company-wide Emergency Response 14 Organization ("ERO"), including assigning and training personnel for restoration 15 assignments; creating and conducting storm preparedness drills and exercises; 16 interfacing with New York State Department of Public Service ("DPS") personnel on 17 emergency preparedness regulatory matters; coordinating and communicating 18 emergency response planning activities with local and state government officials, 19 emergency operations centers (Nassau County, Suffolk County, New York City and 20 New York State), first responders and other emergency response organizations; 21 representing PSEG LI within the North Atlantic Mutual Assistance Group 22 ("NAMAG"); participating in calls related to the request and provision of mutual 23 assistance resources; developing storm reports and conducting "After Action Reviews"/critiques for major events; and directing delivery of high level technical expertise and functional support for the Outage Management System ("OMS") and core applications across Electric Operations.

Q. Please state your professional experience and educational qualifications.

A. From August 2012 to December 2013, I served as Executive Advisor to the President, Long Island Power Authority ("LIPA") Jurisdiction at National Grid, where, among other tasks, I provided input and consultation to key organizational business strategies and decisions, worked with the Long Island Transmission & Distribution leadership team to execute and deliver on annual business plan objectives and performance metrics and coordinated/led various special projects and represented National Grid on various task forces and at other meetings.

From April 2010 to July 2012, I was Director, Strategic Initiatives at National Grid where I actively supported LIPA's Request for Proposal ("RFP") process for the new Operations Services Agreement to replace the Management Services Agreement, providing required input, leadership, and guidance from RFP response through award phase. I layed a lead role in developing employee communications regarding the RFP process, providing ongoing visibility of RFP efforts and ensuring timely employee engagement. I also assumed a lead role in preparing post-storm communications including Tropical Storm Irene "After-Action Review," Report to the Public Service Commission, LIPA Board of Trustee presentations, Senate testimony and responses to numerous data and information requests from elected officials, towns, and other municipalities. Prior to that time, I held positions of increasing responsibility at

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

1		National Grid and its predecessor companies KeySpan and Long Island Lighting
2		Company ("LILCO") in both the Operations and Customer Service organizations. I
3		began my career at Grumman Corporation, Bethpage, New York in 1988 as an
4		Engineer, Electronic Counter Measures.
5		I hold a Bachelor of Science, Electrical Engineering (1987) and a Master of
6		Business Administration with a concentration in Marketing & Finance (1990) from
7		Rensselaer Polytechnic Institute, and a National Incident Management System
8		("NIMS"), ICS-100 & ICS-200 Certification from the Federal Emergency
9		Management Agency ("FEMA") (September 2014).
10 11 12	Q. A.	Mr. Massaro, please state your employer and business address. I am employed by PSEG LI and my business address is 15 Park Drive, Melville, NY 11747.
13 14	Q. A.	In what capacity are you employed by the Company? Since January 2014, I have been employed as Project Manager in the Customer
15		Service Group. My responsibilities include implementing and developing projects
16		associated with Emergency Response Preparedness and Communications. In this
17		position, I have researched, developed, and tested to create an Emergency Response
18		Escalation Tracker. I am also responsible for organizing, preparing, presenting, and
10		training PSEG LI employees and municipalities on the Emergency Response
1)		
20		Escalation Tracker. In addition to project management responsibilities, I manage the
20 21		Escalation Tracker. In addition to project management responsibilities, I manage the On Bill Recovery Loan program, assisting with billing inquiries and requests from the

New York State Energy Research and Development Authority along with weekly, monthly, and quarterly reporting.

0. Please state your professional and educational experience.

4 A. From November 2012 to December 2013, I was a Program Manager for National 5 Grid where I was responsible for implementing and developing the trade ally and business market program for LIPA. From January 2010 to November 2012 I was a 6 7 Program Manager responsible for implementing and developing energy efficiency 8 programs for LIPA in the LIPA service territory for residential new construction and 9 multifamily buildings. In addition to program management responsibilities, I was 10 responsible for developing financial documents, compiling information regarding 11 financials and assisting in implementing programs to achieve and surpass various 12 goals of the organization. I started work for National Grid as a Project Manager in 13 April 2008 working on energy efficiency projects. Prior to that time I held various 14 positions with other companies upon graduation from college.

15 16

17

18

19

21

22

I hold degrees in Marketing from Providence College (2007) and a Master of Business Administration from Dowling College (2011).

0. What is the overall purpose of the Panel's testimony in this proceeding?

A. All Long Islanders are interested in how we respond to large scale storms. That awareness and sensitivity to the need for a robust response to storms has been 20 incorporated into our mission statement, which expresses our commitment: "[t]o build an industry leading electric company dedicated to providing our Long Island and Rockaways customers with exceptional customer service, *best-in-class reliability*

1

2

and storm response, as well as a strong level of involvement in the communities in which we live and work" (emphasis supplied). In fact, "Enhancing the Storm Response Process" is one of the four overall Strategic Objectives of PSEG LI. The purpose of this Panel's testimony is to outline and explain the plans and protocols that have been put in place to respond to the storms that affect Long Island, as well as our ability to stand ready to respond to other catastrophes. Additionally, we will share information on some of the enhancements that have been adopted as a means of improving the overall customer experience during storm response events. Because our Emergency Response Plan ("Plan," or "ERP") is required by regulatory mandates, and our Plan is part of a separate process before the DPS, this testimony is being provided only for informational purposes. Nevertheless, because this information is of concern to LIPA, our customers and other stakeholders, we believe it is important in this case to provide the Plan and describe its major elements. We want LIPA, our regulators, customers, elected officials, first responder partners and other key stakeholders to know that our Plan not only meets those regulatory mandates but that it is a "living document" that is being constantly revised and improved to go beyond those regulatory requirements. We will demonstrate that PSEG LI is focused on effective emergency management principles that not only enhance our ability to provide best in class reliability and storm response but enable us to do so in a safe and efficient manner, while providing timely and accurate information to our customers and stakeholders. Additionally, we will show that the Plan involves virtually every member of our organization, where in the event of an

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

impending storm or other disaster, each employee knows his or her designated storm role and assignment – whether it involves actual restoration work, coordinating with responders or providing officials and customers with accurate, up-to-the-minute information. Finally, we will demonstrate that, through regular drills and exercises and "after action reports," the Plan is constantly refined and improved to offer the best service we can provide to our customers.

- 7 Q. Is the Panel sponsoring any exhibits in support of its testimony?
- 8 A. Yes, we are providing the ERP as an Exhibit ____ (SRP-1). The Plan is described in our testimony. We note further that LIPA reviewed and provided input for that Plan.
- 10 II. FACTORS AFFECTING STORM RESPONSE
- Q. In your earlier description of your testimony you mentioned the Company's Mission Statement and objectives that focus on enhancing storm response.
- A. Yes, we did. A first in class storm response program is one of our four core
 objectives along with safety, reliability, and customer satisfaction.
- 15
16Q.Are there other indications of the emphasis that PSEG LI places on storm
response?
- A. Yes there are. For example the Amended and Restated Operations Services
 Agreement Between Long Island Lighting Company d/b/a LIPA and PSEG Long
 Island LLC, dated as of December 31, 2013 ("OSA"), contains metrics that PSEG LI
 must satisfy as part of its contractual commitments. Among the metrics that track
 how PSEG LI performs in responding to storms are (1) Storm CAIDI, which
 measures our performance during LIPA storm events as defined in the OSA, and (2)

1

2

3

4

5

1 a default metric for failure to achieve 410 points on the DPS Scorecard for large scale 2 events. Further, as another indication of the importance and attention we assign to storm response, the Emergency Preparedness organization now directly reports to Mr. 3 4 John O'Connell, the Vice President of Transmission & Distribution, emphasizing the 5 importance placed on this function, which in the past had been embedded further 6 down in Operations. We will also describe in more detail, how additional resources 7 have been added to the existing group in order to further strengthen our storm 8 response efforts consistent with our goal to incorporate the best practices and lessons 9 learned from Long Island, Public Service Electric and Gas Company ("PSE&G") in 10 New Jersey, and the electric industry generally. Q. Is PSEG LI subject to any regulatory or other requirements governing its 11 12 response to storms? 13 A. Yes, there are several requirements. First, under the Public Service Law ("PSL"), the 14 DPS is required to annually review our ERP for consistency with the Public Service Law and make recommendations to LIPA regarding its completeness in addition to 15 our performance in restoring service during an emergency event. 16 17 The PSL also requires electric corporations subject to the jurisdiction of the 18 Public Service Commission ("Commission") to make a filing, on or before December 15th of every year, of an emergency response plan for review and approval. Although 19 20 LIPA is not subject to the Commission's review and approval, it is required under 21 Section 3-b to make such a filing for DPS's review and recommendations to the LIPA 22 Board.

Q. Did PSEG LI file its Plan with the DPS? 1 2 A. Yes, we did. The initial Plan was filed with the DPS in February 2014, with a revised 3 filing provided in June 2014. Q. Is that PSEG LI's most recent filing? 4 No. The DPS asked PSEG LI to make a filing as of December 15th to bring us into 5 A. line with the timing for the filings made by the large, investor-owned utilities in New 6 7 York which were required to make their filings on that date. PSEG LI agreed to 8 make a new filing and that Plan is presented in Exhibit ____ (SRP-1). The 9 consideration of that Plan by DPS and any recommendations it might make to the 10 LIPA Board are being considered separate and apart from this Rate Plan filing. 11 Q. Are there other regulatory requirements in addition to PSL Section 66(21) that PSEG LI has taken into consideration in developing its Plan? 12 13 A. Yes. The Commission has promulgated regulations at 16 NYCRR Part 105 that also 14 address and amplify the requirements in Section 66 of the PSL and PSEG LI's Plan 15 takes those regulations into consideration. III. **MEASURING STORM RESPONSES** 16 Q. Is there anything else that governs PSEG LI's planning for, and response to, 17 18 storms? 19 Yes there is. The OSA provides a specific metric covering storm performance which A. 20 is tied to the NYS Public Service Commission Storm Performance Scorecard. 21 Although the Metrics Panel's testimony extensively discusses the OSA metrics, we 22 will briefly discuss this provision. OSA Section 8.4 and Appendix 13 of the OSA

1		provide a metric to measure PSEG LI's performance in storms. The metric provides,
2		in relevant part, that:
3 4 5 6 7 8 9 10 11 12 13		The Service Provider will be deemed to have failed the Major Storm Performance Metric under Section 8.4(C) of the Agreement if, commencing in the third Contract Year of the Term, the Service Provider, in the then-current Contract Year and any one of the preceding two (2) Contract Years, fails to achieve at least 410 points out of a maximum of 1000 points as calculated pursuant to the modified version, as agreed upon by LIPA and the Service Provider in the letter agreement dated as of the date of the Agreement, of the NYPSC Emergency Performance Measures issued on April 24, 2013 in "CASE 13-E-0140—Proceeding on Motion of the Commission to Consider Utility Emergency Performance Measures."
13 14		Consider Utility Emergency Performance Metrics."
15	Q.	From where is the 1000 point system derived?
16	A.	The explanation of the point system can be found in the Commission's "Order
17		Approving The Scorecard For Use by The Commission as a Guidance Document to
18		Assess Electric Utility Response to Significant Outages" which was issued in Case
19		13-E-0140 on December 23, 2013. The 1000 points that comprise the scorecard are
20		divided into three categories:
21		1. Preparation 150 points
22		2. Operational Response 550 points
23		3. Communication 300 points
24		4. Maximum Available Points 1000
25		The full scorecard including the categories and descriptions and definitions were
26		attached to the Commission's order in that case.

VI. <u>KEY DRIVERS OF THE ERP</u>

2 3	Q.	You mentioned that PSEG LI filed a new ERP. What are some of the key drivers for changes made to the new Plan?
4	A.	We filed a new plan because our ERP is constantly being reviewed and revised in
5		order to meet the following:
6		• evolving customer expectations
7		• regulatory requirements
8		• alignment and coordination of activities with municipalities and governmental
9		agencies
10		• advances in technology
11		• severity of recent storm events
12		Overall, the focus of such efforts is to improve the customer experience during storms
13		and improve overall customer satisfaction with the service provided by PSEG LI.
14	Q.	How has PSEG LI's Plan evolved to meet the factors you just described?
15	А.	Our approach to enhancing the ERP involves continuous improvement that results
16		from several processes. First we engage on a regular basis in Lessons Learned/After
17		Action Reviews. These reviews permit us to ascertain what worked well, what did
18		not go so well and what opportunities exist to improve. Second, we are in
19		communication with PSE&G, and work to share the best practices learned between
20		Long Island and New Jersey. Third, working through groups and study, we keep up
21		to date on industry best practices, especially to see if a practice followed at one utility
22		has relevance to our situation. Fourth, we play an active role in industry
23		organizations such as the Edison Electric Institute ("EEI") and NAMAG. In fact, in
24		many cases, PSEG LI employees play leadership roles on various industry

committees that help to shape and drive discussion around emergency response efforts.

Q. Although you have submitted the entire Plan as an exhibit, would you please briefly describe the major aspects of PSEG LI's Plan?

A. Yes. In sum, the Plan represents a joint collaboration among all elements of the Company, including the T&D, Business Services and Customer Services Departments, to ensure that we are working together to restore the system to full operation as quickly and safely as possible while providing accurate and timely communications to our customers and to state and local officials, while coordinating responses to the event. Together these departments provide for the operations, communications and logistics aspects necessary for a comprehensive and well executed storm restoration effort.

Key elements include: (1) conducting effective business and operational risk assessments; (2) developing appropriate prevention and/or mitigation strategies; (3) developing and implementing comprehensive preparedness programs, processes and procedures; (4) making appropriate resources available for the emergency response; (5) communicating timely, accurate and relevant information to customers and stakeholders; (6) responding and recovering from events quickly; and, (7) assessing performance and continuously improving. An overarching element of the Plan is preparing all of our employees and resources to respond appropriately. This involves taking action to ensure the readiness of our personnel and making certain that all required support is available.

467

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

V. <u>EMPLOYEES ROLES IN EMERGENCY RESPONSE</u>

Q. Please describe how you prepare your employees and resources to respond.

A. A critical element of the ERP is making sure that all of our employees know where they need to be and that they know their assigned role. In fact, all of our employees are assigned a storm role upon hiring. Our focus is on executing a robust and comprehensive training, drill and exercise plan that prepares our employees for their storm roles. We conduct a combination of field, classroom and on-line sessions to ensure proper training is provided on a timely basis. One such example is our Annual Hurricane Tabletop Exercise which not only exercises our employees but includes participation of many key external stakeholder groups (e.g., DPS, OEMs, cable, telecommunications and gas providers, first responders).

12 **Q.** Are employees provided training with respect to these tasks?

A. Yes, they are. Each year a comprehensive training plan is developed to guide the
delivery of the appropriate training to ensure the readiness of employees to effectively
perform their assigned storm roles.

16Q.Do you take steps to ensure that resources outside of PSEG LI can be drawn17upon?

A. Yes, we do. On a regular basis, we discuss how to approach resource sharing with
PSE&G to ensure that personnel can be transferred as needed between the two
operations and that any required materials (e.g., transformers) can be moved to where
the need is greatest. We also actively participate in activities with the NAMAG and
meet periodically with other utilities, both regionally and nationwide, to ensure that
our mutual aid protocols are up to date, workable and flexible.

1

2

3

4

5

6

7

8

9

10
VI. <u>NEW PROGRAMS TO ENHANCE THE EMERGENCY RESPONSE</u>

Q. You mentioned that PSEG LI's approach to storm response is constantly evolving. Can you provide some examples of the new programs or initiatives PSEG LI has introduced?

5 A. Yes, for example the new Outage Management System ("OMS"), which provides for 6 enhanced damage assessment and data collection, is one such change. The OMS, 7 together with other new processes, has improved storm response and outage 8 restoration. The new OMS has replaced an older system and brings new features that 9 enhance the restoration process. It uses technology to enable access to more real-time 10 information on outages and work completed, and it provides for more timely status 11 information for customers and increased crew efficiencies due to effective dispatch 12 tools, including outage maps and job closure information.

13

0.

Are there other changes being made?

14 A. Yes, we are currently engaged in a pilot program to assess the use of tablet 15 technology to collect data associated with damage assessment. This entails a 16 transition from data collection forms to electronic data capture utilizing GIS and GPS 17 coordinate technology. Ideally, this will provide more timely collection, reporting 18 and communication of information to key stakeholder groups. In the future our 19 efforts will examine expansion of tablets and/or use of smartphones and direct feed of 20 data to OMS. Additionally, we plan to execute on opportunities to work with local 21 municipalities and other utility service providers (i.e., teleco/cable providers) to 22 openly share information across the GIS platform to enhance situational awareness 23 and improve restoration response. The completion of the OMS in August 2014 was a

1

2

3

1		prerequisite to any expanded use of this data collection and presentment
2		methodology.
3	Q.	Are there any other new initiatives being pursued?
4	А.	Yes. We introduced a formalized Flood Protocol in 2014 and introduced an enhanced
5		Municipal/Roadway Clearance Assistance process to further enhance our responses
6		during storms.
7	VII.	ENHANCED COMMUNICATIONS
8	Q.	Has the Customer Services organization also instituted new practices?
9	А.	Yes, they have initiated a new, enhanced Customer Services - Communications
10		Organization Storm Restoration Plan ("Communications Plan").
11	Q.	Please briefly describe that Communications Plan.
12	А.	PSEG LI's enhanced storm Communications Plan was developed to meet the
13		expectations of our customers and stakeholders during storm restoration efforts and to
14		
		support the DPS's Storm Scorecard targets and achieve high scores on utility
15		support the DPS's Storm Scorecard targets and achieve high scores on utility performance with respect to our ability to receive and disseminate information related
15 16		support the DPS's Storm Scorecard targets and achieve high scores on utility performance with respect to our ability to receive and disseminate information related to the impact of storm/outage and restoration activities. The ERP includes a
15 16 17		support the DPS's Storm Scorecard targets and achieve high scores on utility performance with respect to our ability to receive and disseminate information related to the impact of storm/outage and restoration activities. The ERP includes a comprehensive communications process with a commitment to improving access to
15 16 17 18		support the DPS's Storm Scorecard targets and achieve high scores on utility performance with respect to our ability to receive and disseminate information related to the impact of storm/outage and restoration activities. The ERP includes a comprehensive communications process with a commitment to improving access to timely and accurate information, using expanded tools to meet customer
15 16 17 18 19		support the DPS's Storm Scorecard targets and achieve high scores on utility performance with respect to our ability to receive and disseminate information related to the impact of storm/outage and restoration activities. The ERP includes a comprehensive communications process with a commitment to improving access to timely and accurate information, using expanded tools to meet customer communication preferences.
 15 16 17 18 19 20 	Q.	support the DPS's Storm Scorecard targets and achieve high scores on utility performance with respect to our ability to receive and disseminate information related to the impact of storm/outage and restoration activities. The ERP includes a comprehensive communications process with a commitment to improving access to timely and accurate information, using expanded tools to meet customer communication preferences. What are the major elements of the Communications Plan.
 15 16 17 18 19 20 21 	Q. A.	support the DPS's Storm Scorecard targets and achieve high scores on utility performance with respect to our ability to receive and disseminate information related to the impact of storm/outage and restoration activities. The ERP includes a comprehensive communications process with a commitment to improving access to timely and accurate information, using expanded tools to meet customer communication preferences. What are the major elements of the Communications Plan. The OSA gives PSEG LI full responsibility for communicating important information

not the case under the old MSA. The OSA emphasizes the importance of communication with our stakeholders which PSEG LI is addressing with the Communications Plan that incorporates the following elements:

471

1

2

3

4 press releases and briefings website with storm center 5 • YouTube storm preparation videos 6 • 7 municipal conference calls • 8 assignment of municipal liaisons and use of an escalation tracker • 9 community outreach centers 10 social media team 11 e-mail blasts • 12 contact center with high volume call application • 13 large customer support • 14 PSEG LI's Communications Plan is intended to ensure that our customers and key 15 stakeholders receive the storm preparation and restoration information necessary to 16 coordinate local emergency response and permit us and our customers to recover 17 from an emergency safely, quickly and with minimal disruption. During an extended 18 power outage, it is important that consistent and useful information be provided as 19 widely as possible to overcome any local communication limitations related to the 20 emergency (cellular or internet outages, for example). Our new protocols ensure that 21 accurate and timely reports will be shared across a broad range of platforms to reach 22 customers and the general public, human service agencies, the media, the DPS, the 23 State Emergency Management Office and other state agencies, county and local

governments, emergency response services, law enforcement agencies, and other public service or public safety authorities.

Q. Has Customer Services implemented any other new initiatives?

A. Yes one of the new elements of our emergency response is Scheduling and Interactive Voice Response ("IVR") Messaging. The Scheduling and IVR Messaging Team is responsible for assigning staff schedules to cover expected inbound calls. At times of high caller demand due to storms, the High Volume Call Application ("HVCA") Messaging will provide a recorded message providing callers with outage information that is updated every two hours during normal business hours and every six hours outside normal business hours and is conveyed via IVR and other systems. The message will contain, at a minimum: the geographic area(s) affected; the estimated number of customers affected; and the estimated time of restoration per operational guidelines.

14 Q. Have other enhancements been made to the Company's storm response efforts?

A. Yes, we also have an Emergency Response Escalation Tracker ("ERET"). This is an internal system that has been developed to capture, record, track and respond to escalated issues and priorities reported by municipalities through the municipal liaisons, the municipal hotline, or the large customer account teams. In addition, a web portal has been established to allow designated municipal staff members to input issues directly into the ERET. The ERET was created as a tool to provide clear and timely information to government officials during PSEG LI's response to a major

1 storm or other electrical emergency. Information input to the tool will help PSEG LI prioritize work in an effective and expeditious manner. 2 3 Are the elements you've mentioned all described with much greater particularity Q. 4 in the ERP? Yes, they are and we would direct anyone interested in a particular element of our 5 A. 6 ERP to direct their attention to that detailed document. The ERP shows our 7 commitment to continuous improvement and refining our response to storms and 8 other natural and man-made disasters.

9 Q. Does this conclude the Panel's direct testimony at this time?

10 A. Yes, it does.

1	JUDGE PHILLIPS: The next affidavit would be from Staff.
2	MR. MAZZA: Thank you, Your Honor. I would like to submit
3	by affidavit the testimony and exhibit of the Staff Delivery
4	Service Adjustment Panel consisting of Patrick Piscitelli, Gina
5	Critelli, Paul J. Darmetko, Jr., Laurie Cornelius, and Mark
6	Tintera. The documents consist of prepared testimony consisting
7	of 38 pages plus a title page and prepared exhibits including
8	Exhibit SDSA-1 consisting of 56 pages plus a cover page and
9	indexes originally pre-filed on May 14, 2015 (handing).
10	JUDGE PHILLIPS: On the basis of the affidavit for the
11	Staff DSA and Storm Response Panel that has been marked for
12	identification as Exhibit 115, that is 115, the testimony of
13	that panel will be copied into the record as though given
14	orally.
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

BEFORE THE STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

In the Matter of a

THREE-YEAR RATE PROPOSAL FOR ELECTRIC RATES AND CHARGES SUBMITTED BY THE LONG ISLAND POWER AUTHORITY AND SERVICE PROVIDER, PSEG LONG ISLAND LLC.

Matter Number 15-00262

May 2015

Prepared Testimony of: Staff Delivery Service Adjustment and Storm Reserve Panel

Patrick Piscitelli Principal Utility Financial Analyst Office of Accounting, Audits & Finance

Gina Critelli Chief, Utility Accounting, Audits & Finance

Paul J. Darmetko, Jr. Utility Engineer 3 Office of Electric, Gas, & Water

Laurie Cornelius Emergency Preparedness Analyst Office of Electric, Gas, & Water

Mark Tintera Utility Engineer 1 Office of Electric, Gas & Water

Matter 15-00262 Staff Delivery Service Adjustment and Storm Reserve Panel 1 Please state your names, employer, and business Ο. 2 addresses. Patrick Piscitelli, Gina Critelli, Paul J. 3 Α. 4 Darmetko, Jr., Laurie Cornelius, and Mark 5 Tintera. We are employed by the New York State Department of Public Service, which we will 6 7 refer as the Department, or DPS. Mr. Piscitelli, Mr. Darmetko and Ms. Cornelius are 8 9 located at Three Empire State Plaza, Albany, New 10 York 12223, and Ms. Critelli and Mr. Tintera are located at 125 East Bethpage Road, Plainview, 11 12 New York 11803. Mr. Piscitelli, what is your position at the 13 Q. 14 Department? 15 I am employed as a Principal Utility Financial Α. Analyst in the Office of Accounting, Audits, and 16 17 Finance. Please provide a summary of your educational and 18 Q. professional experience. 19 20 Α. A description of my educational and professional 21 experience is contained in the testimony of 22 staff's Finance and Public Power Panel, of which 23 I am a member. 24 Have you previously testified in utility rate Q.

476

1 proceedings?

2	Α.	Yes, I have testified in numerous ratemakings
3		proceeding before the New York State Public
4		Service Commission regarding financial,
5		accounting, utility expenditure prudence, and
6		other ratemaking issues.
7	Q.	Ms. Critelli, by whom are you employed and what
8		is your business address?
9	A.	I am employed by the New York State Department
10		of Public Service, referred to as the Department
11		or DPS, 125 East Bethpage Road, Plainview, NY
12		11803.
13	Q.	Ms. Critelli, what is your position in the
14		Department?
15	Α.	I am employed as Chief, Utility Accounting &
16		Finance in the Office of Accounting, Audits, and
17		Finance.
18	Q.	Please describe your educational background and
19		professional experience.
20	Α.	A description of my educational and professional
21		experience is contained in the testimony of
22		Staff's Policy, Overview, and Revenue
23		Requirement Panel, of which I am a member.
24	Q.	Have you previously testified in any utility

477

	Matte	er 15-00262 Staff Delivery Service Adjustment and Storm Reserve Panel
1		rate proceedings or other ratemaking
2		proceedings?
3	Α.	No.
4	Q.	Mr. Darmetko, what is your position at the
5		Department?
6	Α.	I am employed as a Utility Engineer 3 in the
7		Electric Rates and Tariff Section of the Office
8		of Electric, Gas, and Water.
9	Q.	Please provide a summary of your educational and
10		professional experience.
11	Α.	I graduated from the State University of New
12		York Institute of Technology at Utica/Rome with
13		a Bachelor of Science Degree in Civil
14		Engineering Technology in 2003. I have been
15		employed the Department since October 2005 in
16		the Office of Electric, Gas, and Water, mainly
17		in the Electric Rates and Tariff Section. While
18		with the Department I have analyzed, reviewed,
19		and prepared reports and studies involving
20		operating revenues, operation and maintenance
21		expense, capital budgets, depreciation, cost of
22		service, revenue allocation, rate design, and
23		sales forecasts.

24 Q. Mr. Darmetko, please describe your

1		responsibilities with the Department.
2	Α.	My current responsibilities include, providing
3		engineering analysis and recommendations in rate
4		proceedings, reviewing and making
5		recommendations to the Commission on filed
6		petitions, and examining utility processes and
7		operations to ensure compliance with the Public
8		Service Law and the policies of the Department.
9	Q.	Have you previously testified in utility rate
10		proceedings?
11	A.	Yes, I have testified in Cases 05-E-1222, 08-E-
12		0539, 08-G-0609, 09-E-0715, 09-E-0717, 10-E-
13		0362, 10-E-0050, and 14-E-0318 regarding cost of
14		service, capital budgets, rate base,
15		depreciation, rate design, and other revenue
16		requirement issues. All of these proceedings
17		were before the New York State Public Service
18		Commission.
19	Q.	Ms. Cornelius, what is your position at the
20		Department?
21	Α.	I am an Emergency Preparedness Analyst in the
22		Office of Electric, Gas and Water.
23	Q.	Please provide a summary of your educational and
24		professional experience.

1	Α.	I graduated from the University at Albany in
2		2010 with a Bachelor of Arts degree in History.
3		I have been employed by the Department of Public
4		Service since 2004 where I have held positions
5		of increasing responsibility and currently work
6		in the Electric Distribution Systems section.
7	Q.	Ms. Cornelius, please describe your
8		responsibilities with the Department.
9	Α.	My current responsibilities include reviewing
10		Emergency Response Plans, assisting in emergency
11		response activities, reviewing annual capital
12		and operations expenditures and maintenance
13		programs, monitoring storm hardening efforts,
14		and monitoring PSEG Long Island LLC, or PSEG
15		LI's, and the Long Island Power Authority, or
16		LIPA's compliance with the LIPA Reform Act, New
17		York State Public Service Law and New York
18		Codes, Rules and Regulations.
19	Q.	Have you previously testified in utility rate
20		proceedings?
21	A.	Yes, I have testified in Case 10-E-0050,
22		National Grid, d/b/a Niagara Mohawk Power
23		Corporation rate proceeding before the New York
24		State Public Service Commission.

Q. Mr. Tintera, what is your position at the
 Department?

3 A. I am employed as a Utility Engineer I in the4 Office of Electric, Gas and Water.

5 Q. Please provide a summary of your educational and6 professional experience.

7 Α. I graduated from the State University of New York at Farmingdale in 2008 with a Bachelor of 8 9 Science degree in Mechanical Engineering 10 Technology. I have been employed by the Department since 2014. Prior to joining the 11 12 Department, my professional experience included 13 9 years at two Mechanical Engineering and Design 14 firms and two local government positions. I 15 worked for six years designing drive components at Designatronics Inc., one year designing 16 17 mechanical systems at Genesys Engineering, and a total of two years at the Town of Huntington as 18 a Building Permit Examiner, and Suffolk County 19 20 as a Public Health Sanitarian.

Q. Briefly describe your responsibilities with theDepartment.

A. My responsibilities include reviewing PSEG LI'stransmission and distribution capital

481

1		improvements and emergency response plans for
2		conformance with New York State and industry-
3		wide best practices.
4	Q.	Have you previously testified in utility rate
5		proceedings?
6	Α.	No.
7	Q.	What is the purpose of the Panel's testimony?
8	Α.	The purpose of our testimony is to: i) provide
9		our recommendations regarding the Delivery
10		Service Adjustment, referred to as the DSA, that
11		has been proposed in this filing by witnesses of
12		LIPA and PSEG LI, and, and ii) provide a summary
13		of our review of the proposed storm reserve
14		account and our recommendation regarding the
15		treatment of storm reserve levels. We will
16		provide a summary of our understanding of the
17		proposed DSA mechanism, describe the various
18		components of the DSA mechanism, and finally

19 describe our recommended changes regarding the 20 operation of the storm reserve. The changes we 21 are recommending will allow LIPA to utilize the 22 excess storm reserve balance to offset other DSA 23 cost components, or to pay down debt if the 24 balance grows beyond acceptable levels. We also

482

1		recommend the establishment of a process for the
2		DPS to review and if needed, provide
3		recommendations to the LIPA Board of Trustees
4		prior to the DSA becoming effective each year.
5	Q.	In your testimony, will you refer to, or
6		otherwise rely upon, any information obtained
7		during the discovery phase of this proceeding?
8	Α.	Yes. We relied on several responses provided by
9		LIPA and PSEG LI. These are attached as
10		Exhibit(SDSA-1).
11	Q.	Please generally describe the DSA mechanism?
12	A.	The DSA mechanism is a cost true-up instrument
13		that will annually reconcile certain costs
14		included in LIPA's base delivery rates to actual
15		costs incurred by LIPA. The DSA, as proposed,
16		has three cost true-up categories:
17		i) Debt service costs
18		ii) Power Supply costs, and
19		iii) Storm costs.
20	Q.	Could you please generally describe why LIPA and
21		PSEG LI have proposed to establish the DSA
22		mechanism in this case and describe the intended
23		outcome?
24	Α.	LIPA witness Thomas Falcone discusses in detail

1 the reasons why the mechanism is being proposed. 2 In summary, the primary goal of the proposed DSA 3 mechanism is to reduce the risk profile of the LIPA and allow it to achieve a higher credit 4 5 rating at the recommended revenue levels. This should reduce the long term costs for its 6 7 customers through lower costs of debt. The use 8 of the DSA ensures current recovery of the 9 actual costs within the three cost categories which gives greater certainty to bondholders and 10 banks that the costs will be recovered. 11 This 12 allows LIPA to achieve comparable bond ratings 13 with lower financial metrics than would be 14 required without the DSA and will reduce the 15 rate increases necessary over the years of the 16 rate plan. Another reason cited for the 17 establishment of the DSA is that there are several cost savings possibilities that will be 18 19 returned to customers through the DSA in the 20 event that favorable outcomes are achieved. For 21 example, a more favorable, property tax 22 settlement between taxing jurisdictions and 23 LIPA, and the potential for lower cost refinancing available from the UDSA refunding of 24

484

1 LIPA's bonds than is being forecasted. 2 Does the Panel agree that the establishment of Q. 3 the DSA mechanism should increase the credit rating of LIPA, and thereby reduce costs to its 4 5 customers over time? Yes. The DSA will reduce investment volatility 6 Α. 7 and should translate into lower debt costs for customers. This should occur since the DSA will 8 9 provide assurance that LIPA will meet its debt service payments by truing up actual costs with 10 11 the costs included in approved rates. The 12 resulting lower volatility will translate into 13 lower investment risk and should result in lower debt service costs. 14

15 Debt Service Costs

Q. Please describe LIPA and PSEG LI's proposal to
recover the variation in debt service costs
through the DSA.

A. LIPA and PSEG LI have proposed to recover, or
pass back to customers, the variation in
interest rates, issuance amounts, and the debt
service coverage requirements through the DSA.
LIPA and PSEG LI propose to include the yearly
variation in debt service related costs in the

485

1 year following their occurrence.

2	Q.	Why may debt service related costs vary from
3		those allowed in rates?
4	Α.	Debt service costs may vary from those allowed
5		in rates for three reasons. First, the interest
6		rate of newly issued debt has been estimated
7		based upon existing market conditions and
8		maturity schedules. The actual market interest
9		rates and maturity schedules may differ from
10		those approved in rates. Second, the cost of a
11		portion of LIPA's various outstanding debt
12		instruments fluctuate throughout the rate period
13		based upon existing market conditions. Finally,
14		the actual amount of debt issued may vary from
15		the forecast.
16	Q.	Are true-ups of interest rates, debt coverage
17		requirements, and issuance amounts typically
18		allowed for other New York State utilities?
19	Α.	In certain rate proceedings, recovery for
20		variations in interest rates for variable rate
21		securities has been allowed. However, typically
22		true ups for issuance amounts, interest rates

486

23

24

11

for newly issued debt, or debt service coverage

requirements are not allowed. We believe that

1 the reduction of customer costs outweighs the 2 uniqueness of the DSA mechanism. 3 Why is LIPA requesting that the DSA allow Ο. 4 recovery for all debt service costs? 5 As stated in the testimony of the Ratemaking and Α. Revenue Requirements Panel on page 26, line 11 6 7 through page 27, line 2, LIPA is requesting the 8 true up for two reasons. First, it states that 9 the size and maturity of issuances cannot be 10 forecasted precisely. Second, LIPA also believes that the use of the public power model 11 12 necessitates the recovery of all debt service 13 related costs.

14 Q. Does the use of the public power model
15 necessitate the inclusion of the debt service
16 costs true up being requested?

17 A. No, it does not. The use of the public power
18 model does not require the debt service true up
19 mechanism. That is, the public power model can
20 be implemented with, or without, the debt cost
21 true up mechanism.

22 Q. Do you agree that the DSA should allow recovery 23 of the debt service cost components as requested 24 by LIPA?

487

1	A.	Yes. We believe that the financial structure of
2		LIPA is sufficiently different than that of
3		investor owned utilities, or IOUs, and justifies
4		a true up for all the requested debt cost
5		elements being requested.
6	Q.	How does LIPA's financial structure impact your
7		recommendation to include the debt costs being
8		requested in the DSA?
9	Α.	As detailed in the Staff Finance and Public
10		Power Panel testimony, IOUs are generally
11		financed with a combination of debt and common
12		equity. Within parameters, the risk associated
13		with the variation of IOUs' non-variable rate
14		debt costs are borne by equity investors. Since
15		LIPA does not have equity investors, potential
16		variations in debt related costs will be borne
17		by debt holders. These variations can have a
18		significant impact upon LIPA's cost of
19		borrowing.
20	Q.	Have you considered LIPA's overall financial
21		condition in formulating your recommendation?

A. Yes. LIPA's relatively weak financial condition
does not allow for significant variation in debt
service costs before its financial condition

488

1 would be negatively impacted. As discussed in 2 the testimony of the Staff Finance and Public 3 Power Panel, LIPA's financial metrics are among the lowest in the industry with projected debt 4 5 coverage ratios between 1.20 and 1.40. The debt coverage ratio represents the ratio of cash 6 available for debt service to the actual 7 8 interest, principle, and lease payments. This 9 compares to the expected A rated IOU debt 10 coverage ratio of between 4.5 and 6.0. 11 Ο. Why should the debt service coverage 12 requirements also be included in the DSA? 13 Including the debt service coverage requirements Α. 14 in the DSA allows the debt interest coverage to 15 be unaffected by potential changes in interest 16 costs. As discussed in the testimony of the 17 Staff Finance and Public Power Panel, LIPA's 18 financial metrics are below its industry peers. 19 Without including debt service coverage 20 protection in the DSA, the already weak debt service coverage metrics may deteriorate even 21 2.2 further.

Q. What is the impact upon future rates if revenuesare increased to sustain the debt service

489

1 coverages?

2	Α.	There are two potential benefits to customers.
3		First, providing debt service coverage
4		protection reduces risks and should lower LIPA's
5		future debt service costs. Second, the
6		additional revenues will offset LIPA's future
7		financing requirements. Both benefits will
8		serve to lower LIPA's future revenue
9		requirements.
10	Powe	r Supply Costs

11 Q. Could you please describe the Power Supply costs12 included in the DSA mechanism?

13 The power supply costs that are proposed to be Α. 14 included in the DSA mechanism are: 1) the costs 15 incurred under the Power Supply Agreement, or 16 PSA, between National Grid Generation LLC, 17 referred to as National Grid, and LIPA, and 2) Operation and Maintenance expenses associated 18 with LIPA's share of the Nine Mile Point II, 19 referred to as NM2. These costs are shown in 20 21 the PSEG LI Ratemaking and Revenue Requirement 22 Panel, Exhibit RRP-1 on Schedule A-4, next to 23 the headings "National Grid Power Supply Agreement" and "Nine Mile Point 2 O&M". 24

Does the Panel agree that these costs should be Q. 1 2 included in the DSA mechanism? 3 The PSA contract costs can generally be Α. Yes. 4 described as capacity costs that the LIPA pays 5 to National Grid to satisfy a significant portion of LIPA's On-Island capacity 6 7 requirements. All other electric utilities in 8 New York State flow through capacity costs to 9 customers monthly, based on actual costs. 10 Therefore, allowing LIPA to reconcile these 11 costs is consistent with Departmental policy to 12 allow for full recovery of power supply related costs. One could argue that these costs could 13 14 or should flow through LIPA's Fuel and Purchase 15 Power Cost Adjustment charge monthly instead of 16 being included in base delivery rates, however, 17 because of the impact this would have on Long 18 Island Choice program participating Energy 19 Service Companies, we recommend that the topic 20 of removing the PSA cost from base delivery 21 rates be included in a separate proceeding. The 22 PSEG LI Power Supply Panel, as well as PSEG LI 23 witness Joseph Trainor, have proposed that a 24 separate proceeding be established to

491

1 investigate steps to improve the Long Island 2 Choice program. We believe the topic of 3 potentially removing the PSA from base rates should be examined in that proceeding. We also 4 5 recommend that the separate proceeding be initiated no later than the conclusion of the 6 7 existing rate case filing. In the meantime, it is reasonable to recover the differences in 8 9 budgeted and actual costs of the PSA on an 10 annual basis through the DSA mechanism. Moving on to the O&M costs associated with 11 Q. 12 LIPA's share of NM2, do any utilities in New 13 York State recover retained generation cost 14 through base delivery rates and reconcile them? 15 Α. Yes, Consolidated Edison Company of New York, 16 Inc. includes the costs of its own generation in 17 base delivery rates and reconciles differences 18 in O&M expenses from rate plan allowances through its Monthly Adjustment Clause. 19 20 Does the Panel agree that these costs should be Q. 21 included in the DSA mechanism? 2.2 Α. Yes. These costs are difficult for LIPA to 23 predict and have historically varied by as much 24 as 10 percent from projections. This degree of

492

1 uncertainty, especially because of the multiyear rate setting in this proceeding, will 2 3 appear unfavorable to rating agencies if left un-reconciled. For this reason, we recommend 4 5 these costs be included in the DSA. 6 Storm Reserve 7 Ο. Has LIPA and PSEG LI proposed establishing a 8 storm reserve as part of the DSA? 9 Α. Yes. LIPA and PSEG LI propose to create a storm 10 reserve to cover major storm costs funded through base rates over each of the three rate 11 12 years. The storm reserve would be used to 13 reconcile the amounts included in base delivery rates and the actual amount of storm costs 14 15 incurred by LIPA. 16 How does the DPS view storm reserves? Ο. 17 Α. Storm reserve accounts are supported by the 18 Department. The potential for a utility to incur substantial costs in the circumstances of 19 20 severe weather provide proper justification for 21 the use of reserve accounting to cover the costs 22 that cannot be adequately forecast in advance 23 and must be incurred for service reliability and 24 continuity. Storm reserve accounts collect a

1 fixed amount through base rates as established 2 in rate plans, to cover major storm costs. The reserve can have a debit balance, or be 3 underfunded, or a credit balance, and hence be 4 5 overfunded, depending on actual storm activity. Funds collected in base rates are credited to 6 7 the reserve when received and storm costs are debited to the reserve account as incurred. 8 9 Ο. What are the benefits of storm reserves? There are several positive outcomes of having a 10 Α. 11 storm reserve. They include: greater company 12 focus on repairs, reliability, and restoration; more stable and predictable rates for customers; 13 14 more stable and predictable funding for costs 15 for utilities; excess money collected is held as 16 a regulatory liability for future storm events; and, the lowering of the risk profile of the 17 18 utility. A storm reserve account provides more 19 stable and predictable rates for ratepayers and 20 more stable and predictable funding of costs incurred by PSEG LI. Lastly, it calls for the 21 22 costs charged to the reserve to be periodically 23 reviewed to ensure they are appropriate. 24 Please explain generally how PSEG LI currently Ο.

494

1 recovers its expenses related to major storms. 2 Α. Currently, the Operations Services Agreement, or 3 OSA, allows storm costs to be recovered in base LIPA and PSEG LI have proposed following 4 rates. 5 the specific criteria in the OSA that must be met on a per storm event basis, to determine 6 7 which storm costs would qualify as chargeable to 8 the storm reserve.

Q. Does a storm reserve currently exist? 10 Yes. Section 5.3(B) of the OSA details the Α. 11 obligation of LIPA to fund a storm reserve 12 account in the amount of \$15 million, and also 13 sets forth the mechanism for replenishing the storm reserve should the balance fall below \$3 14 15 million due to withdrawals by PSEG LI. The OSA 16 allows PSEG LI to withdraw funds from the storm 17 reserve which is not part of its budget for storm events, not limited to "major storm" 18 19 costs, to pay for costs it incurs in connection 20 with a storm event. Section 5.3(B) also provides the opportunity for PSEG LI to request 21 22 that LIPA replenish or temporarily fund the 23 Storm Reserve in an amount exceeding \$15 million 24 if PSEG LI anticipates that storm costs may

20

495

exceed the available balance in the Storm
 Reserve.

Q. Does the \$15 million storm reserve required by
the OSA impact the storm reserve proposed by
LIPA and PSEG LI?

6 Α. No. The existing storm reserve serves as a 7 vehicle for PSEG LI to readily access funds to 8 pay for costs incurred in anticipation of a 9 storm event. Once the storm meets the OSA storm 10 event criteria, a work order number is assigned 11 by LIPA and all storm event costs for that event 12 are then charged directly to the event's work 13 order number for tracking and billing purposes. 14 It is our understanding that maintaining the \$15 15 million storm reserve balance is a contractual 16 obligation of LIPA under the OSA and is separate 17 from the proposed storm reserve in this 18 proceeding.

19 Reserve Accounting for Storm Event Costs

20 Q. Does the definition of a storm event used by 21 LIPA and PSEG LI differ from the definition of a 22 major storm used by DPS?

A. Yes. The DPS uses the definition of a majorstorm found in 16 NYCRR Part 97 characterized as

496

1		"a period of adverse weather during which
2		service interruptions affect at least ten
3		percent of a utility's customers within an
4		operating area and/or results in customers being
5		without electric service for the duration of at
6		least twenty-four hours." PSEG LI and LIPA,
7		however, do not use the term "major storm," but
8		rather follow the definition of a "Storm Event"
9		defined in the OSA as an event where at least
10		15,400 customers are interrupted or at least 150
11		jobs are logged in each case within a 24 hour
12		period.
13	Q.	Is LIPA and PSEG LI's criteria for qualifying
14		storm events acceptable?
15	Α.	Yes. Although it is different than the DPS
16		definition of a major storm, LIPA and PSEG LI
17		are bound by the definition of a storm event
18		under the terms of the OSA. Additionally, the
19		OSA provides specific language detailing
20		allowable and disallowable costs. Appendix 10
21		of the OSA lists chargeable cost codes which
22		PSEG LI must use when billing LIPA for storm
23		event costs.

24 Q. What specific costs are considered chargeable to

1 the storm reserve? 2 Α. Chargeable costs specified in the OSA include, 3 but are not limited to, straight time labor, non-capitalized costs, etc., which the Panel 4 5 believes to be reasonable. Does the Panel have concerns with the treatment 6 Ο. 7 of chargeable costs by LIPA and PSEG LI? Yes. We are concerned with the treatment of 8 Α. 9 straight time labor costs and the manner in 10 which storm event costs are reconciled with respect to straight time, as well as how PSEG LI 11 12 and LIPA are tracking actual storm event costs 13 charged to and paid by LIPA. 14 Q. Please explain these concerns. 15 During our review of the testimony and DPS-KK-Α. 16 354, LIPA and PSEG LI failed to distinguish 17 whether they made adjustments for straight time 18 labor costs that are already being recovered in 19 base rates. 20 Does the Panel recommend any modifications Q. 21 regarding the proposal regarding this concern?

A. Yes. We recommend that only incremental costs
be charged to the storm reserve account. Costs
that should not be charged to the storm reserve

498

1 include all capitalized costs and proceeds or 2 reimbursements from insurance, FEMA, New York State or any other reimbursement or proceeds 3 received by third parties to cover such costs. 4 5 We are also recommending that LIPA and PSEG LI modify the manner in which storm event costs are 6 7 tracked and reported going forward. In the case 8 of straight time labor, we recommend that PSEG 9 LI file a report with DPS within 30 days after a storm event where costs were charged to the 10 storm reserve. This report should reconcile 11 12 labor costs recovered in base rates to the labor 13 costs charged to the storm reserve. This will 14 preclude double counting. In the case of 15 tracking actual storm event costs i.e., amounts billed to LIPA, and the time it takes to pay 16 those costs in full, we recommend that PSEG LI 17 18 file with DPS an annual report beginning on 19 January 1, 2016 detailing by storm event the 20 actual costs incurred to date, the amount billed to LIPA with an explanation for any variance 21 22 between the two figures, and the amount paid by 23 LIPA to PSEG LI to date with an explanation why 24 any outstanding billed amount has not been paid.

499

1	Q.	Have you taken into consideration costs that
2		PSEG LI may incur in anticipation of a storm
3		event that does not materialize?
4	Α.	Yes. Over the past few years, qualifying storm
5		events have occurred more frequently and thus
6		recovery has become increasingly more costly.
7		Under the terms of the OSA, PSEG LI has been
8		given the sole responsibility for emergency
9		preparedness and full decision making authority
10		to prepare for and respond to predicted storm
11		events. To that end, PSEG LI must balance
12		forecasted weather with its experience in
13		responding to events that correspond with the
14		anticipated impact of predicted weather. As
15		with PSEG LI, we have seen other New York
16		utilities make informed decisions in advance of
17		an event concerning storm support resources,
18		including securing mutual assistance. New York
19		utilities have moved towards an increased time
20		period in which they prepare for a storm, often
21		by as much as four days in advance of a storm
22		event. With these anticipatory actions, there
23		is the potential for costs to be incurred for
24		events that do not fully materialize or when

1		actual weather is less severe than predicted.
2		These unrealized events do not meet the criteria
3		under the OSA definition of a storm event, and
4		therefore, the associated costs would not
5		normally be charged to a storm reserve.
6	Q	Does the Panel have any recommendation for DPS
7		review in these instances?
8	Α.	Yes. Currently, under the LIPA Reform Act DPS
9		is obligated to monitor PSEG LI's emergency
10		preparedness and storm response. In fulfilling
11		this obligation, DPS reviews PSEG LI's
12		performance both prior to, during and after a
13		storm event. Going forward, to the extent
14		necessary, DPS will examine all preparatory
15		storm costs incurred by PSEG LI for events that
16		do not materialize. Following this examination,
17		DPS may, if necessary, make formal
18		recommendations to the LIPA Board of Trustees as
19		to the reasonableness of those costs prior to
20		authorization for payment given by the LIPA
21		Board.
22	Q.	Please continue.
23	Α.	As part of the DPS review and analysis of such

24 preparatory costs, the Panel recommends that

1	when asked by DPS to do so, PSEG LI file a
2	report with DPS that includes, but is not
3	limited to, a full accounting of all storm event
4	costs and the total amounts billed to LIPA that
5	will be charged to the storm reserve. The
6	report should justify that there was reasonable
7	anticipation that the forecasted event would
8	have been consistent with the definition of a
9	storm event as defined in the OSA had it
10	materialized.

11 Storm Reserve Funding Level

Q. Please explain how LIPA calculated the reserve
account allowance that is recommended to be
included in base delivery rates.

15 In response to DPS-SRP-0197, LIPA identified all Α. 16 storm events with their total associated cost 17 for the four year period ending December 31, 2014. LIPA then summed each year's storm event 18 expenses, after appropriately excluding four 19 20 extraordinary storms the costs of which LIPA 21 indicated were reimbursed by FEMA. LIPA then 22 calculated a four year average of \$53,248,082.17 23 and applied a 5.7%-9.5% annual inflation 24 adjusted reduction based on a strengthened and

502

Matter 15-00262 Staff Delivery Service Adjustment and Storm Reserve Panel 1 storm hardened system for a 2015-2018 projected 2 storm budget of \$48,597,000, \$48,169,000, \$49,077,000, and \$50,199,000, respectively. 3 According to the data provided, do all the 4 Ο. 5 storms identified in DPS-SRP-0197 meet the definition of a storm event as defined by the 6 7 OSA? 8 Yes, all of the qualifying storms listed in DPS-Α. 9 SRP-0197 were shown in DPS-KK-354 to meet the criteria of a storm event as defined in the OSA. 10 Based on your review, does the Panel believe the 11 Q. 12 most recent four year period of storm event activity is a reasonable amount of time to 13 14 determine average storm event levels? 15 Ideally, a longer period of time, typically 10 Α. 16 years, is used to calculate an average major 17 storm level. In this instance 10 years was not 18 used because of a storm cost accounting 19 methodology change made by the previous service 20 provider, National Grid, in 2006. According to 21 PSEG LI's response to DPS-CBP-0290, prior to 2006, LIPA's T&D budget for operations included 22 23 \$4.2 million for storm costs under the terms of 24 the Management Service Agreement, or MSA,

28

1 between LIPA and National Grid. With respect to 2 in-house labor, prior to 2006, National Grid 3 only billed LIPA for overtime for gualifying storm events as defined in the MSA. Beginning 4 5 in 2006, however, the \$4.2 million was excluded from the operating budget and all related storm 6 7 costs, straight time, overtime, payroll burdens 8 and fringe benefits were thereafter billed to 9 LIPA in toto.

10 Q. Did Staff do any calculations as part of its 11 analysis to determine the reasonableness of LIPA 12 and PSEG's storm cost averages used to establish 13 the storm reserve collections for 2016, 2017, 14 and 2018?

15 Yes. Staff prepared calculations using the Α. 16 previous service provider's historical storm 17 data back to 2006 provided in DPS-CBP-0290. 18 Using the longer period produced only negligible 19 differences to the four year storm average 20 provided by LIPA and PSEG LI. Therefore, Staff 21 believes that in this case departure from the 22 ten year historical period generally used in 23 other rate proceedings is reasonable. Staff 24 supports LIPA and PSEG LI's 2015 through 2018
1		projected storm reserve collections of								
2		\$48,597,000, \$48,169,000, \$49,077,000, and								
3		\$50,199,000, respectively, and is making no								
4		recommendation for any changes to these amounts.								
5	Q.	Staff mentioned earlier its testimony that LIPA								
6		and PSEG LI used an annual inflation adjusted								
7		reduction each year in the calculation of the								
8		annual storm reserve collections. Do you agree								
9		with PSEG LI's 5.7%-9.5% annual inflation								
10		adjusted reduction based off of a strengthened								
11		and storm hardened system?								
12	A.	We believe that it is reasonable to add an								
13		annual inflation adjusted reduction to the storm								
14		event averages based on a storm hardened system.								
15		However, we cannot support or refute the numbers								
16		provided PSEG LI because no supporting								
17		documentation was provided as requested in DPS-								
18		SRP-197.								
19	Q.	Does Staff have any recommendation regarding								
20		future calculations of storm reserve								
21		collections?								
22	A.	Yes. Going forward, Staff recommends that a								
23		longer time period be used to calculate the								
24		storm event average as more data becomes								

1		available. Staff recommends that once 10 years									
2		of data is available that 10 years of data									
3		become the measure to calculate storm event									
4		averages in further rate filings.									
5	Q.	Does the Panel agree that major storm costs									
6		recovered through base rates should be included									
7		in the DSA mechanism?									
8	Α.	Yes. Major storm costs are very difficult to									
9		estimate accurately and differ significantly									
10		from year to year. Including them in the DSA									
11		mechanism will provide rating agencies greater									
12		assurance that the actual costs of storms will									
13		be recovered over a reasonable period, which									
14		should reduce customer costs over time.									
15	Q.	What will happen if the annual storm reserve									
16		collections proposed by LIPA and PSEG LI prove									
17		to be either too high or too low?									
18	Α.	The DSA mechanism will reconcile the differences									
19		in a subsequent rate year as described later in									
20		this testimony.									
21	Opera	ation of the DSA									
22	Q.	Does the Panel agree with the proposed operation									

24 testimony of PSEG LI witness Joseph Trainor?

31

of the DSA mechanism, as discussed in the direct

1 Α. Yes, but with a modification to the operation of 2 the storm reserve component of the DSA. 3 Please explain how the DSA mechanism will Q. 4 operate and discuss your proposed modification? 5 Each year LIPA will compare the actual costs it Α. 6 incurs in each tracking period to the levels 7 used to establish base delivery rates in this 8 proceeding for each of the three cost 9 categories. The sum of the differences of the 10 three DSA components will be translated to a 11 LIPA wide percentage, based on forecast 12 applicable delivery revenues. This DSA factor 13 will be multiplied by applicable customers' 14 delivery charges each month of the true-up 15 period, which will reset each January 1. The 16 DSA charge or credit will be recovered or passed 17 back to customers on a separate line on customers' bills. Any over or under collection 18 19 or crediting of the DSA will be tracked and 20 reconciled in a subsequent recovery period 21 through next year's DSA charge or credit. The 22 first tracking period will commence with the 23 beginning of the first year of the rate plan, 24 January 1, 2016 and end September 30, 2016. All

507

Matter 15-00262 Staff Delivery Service Adjustment and Storm Reserve Panel 1 subsequent tracking periods will begin October 1 2 and end on September 30. Each year, a new DSA charge or credit will go into effect on 3 4 January 1. 5 Will all components of the DSA be calculated Ο. 6 using the same methodology? 7 Α. No. The Power Supply and Debt Service Cost 8 components of the DSA will be calculated in the 9 same manner. The difference in the amounts 10 actually expended by LIPA in each tracking 11 period will be compared to the amount reflected 12 in base delivery rates. The differences will be 13 divided by the forecast applicable delivery 14 revenues in the following calendar year, or 15 "reconciliation year", to establish these two 16 components of the DSA recovery charge or credit. 17 Differences in Storm Cost will be treated somewhat differently, with three possible 18 19 scenarios: 1) in the event actual costs 20 expended on Storms are less than the amount 21 included in rates, the excess recovery will be 22 retained in the reserve account for future 23 offset of storm costs; 2) if actual expenses are 24 more than the amount included in rates, but less

508

1		than the amount include in rates plus the
2		current balance in the reserve account, the
3		reserve account will be drawn upon to meet the
4		expense; 3) finally, if the actual expense is
5		greater than the amount included in rates plus
6		the current balance in the reserve account, one
7		third of the shortfall will be included in the
8		calculation of the DSA Storm component. This
9		shortfall will be divided by the applicable
10		delivery revenues in the same manner as the Debt
11		Service and Power Supply components.
12	Q.	Why are Storm Costs being treated differently?
13	Α.	In Mr. Trainor's testimony, he explains that
14		Storm Costs can vary significantly from year to
15		year, and by spreading high cost years that
16		exceed the base rate allowance and the reserve
17		balance over a three year period, there is a
18		good chance that a low cost year will offset a
19		high cost year, thus smoothing the impacts.
20	Q.	Does the Panel agree with the operation of the
21		DSA's Storm cost component?
22	Α.	Yes, but we recommend a modification to the
23		operation of the storm reserve.
24	Q.	Please describe the proposed modification?

Α. We recommend that a cap and ratchet mechanism be 1 2 established for the storm reserve. We recommend 3 that the maximum amount the reserve can build be capped at no more than 1.5 times the expense 4 5 amount included in base delivery rates each year. As discussed above, we support a base 6 7 rate allowance of \$48.2 million in 2016, \$49.1 million in 2017, and \$50.2 million in 2018, be 8 9 included for storm expense. Therefore, we 10 recommend a reserve cap of \$73.65 million in 2017, and \$75.3 million in 2018. We have 11 12 intentionally excluded a cap in 2016 because it 13 is not possible for the cap to be triggered in 14 that year. In the event either of these caps 15 are triggered, we recommend the reserve balance be reset to the base rate allowance level in 16 that rate year and that the difference between 17 18 rate year allowance and the cap be utilized by LIPA to pay down LIPA's debt, or offset other 19 20 DSA cost components in the tracking period that 21 the caps are reached. Once the reserve balance 22 is reset to the base rate allowance level, it 23 would resume building back up to the cap. Ιf 24 the balance again reaches the cap, the process

510

1 would repeat.

2 Why is the Panel proposing a cap and ratchet? Ο. 3 We recommend the cap and ratchet be utilized to Α. 4 prevent the possible excessive buildup of 5 customers' money in the storm reserve. We believe that reserve amounts above the base rate 6 7 allowance each year should be utilized to the 8 benefit of customers as soon as possible, but do 9 not wish to undermine the rational for

10 establishing a storm reserve.

11 Q. How did you arrive at the cap of 1.5 times the 12 base rate allowance?

13 From our review of the historic spending on Α. 14 storms, we observed that since 2006, the highest 15 single year storm expenses that would have been 16 charged to the storm reserve was approximately 17 \$75 million, which is approximately 1.5 times the rate allowance for storm costs that we are 18 19 recommending in this testimony. We recommend 20 that the highest storm year be used as the basis 21 for the cap, or trigger for the ratchet. We 22 believe that the proposed cap of 1.5 times the 23 base rate allowance each year gives LIPA a 24 reasonable mechanism to mitigate storm costs in

1		excess of a "normal" year and that in the
2		unlikely event that a cap is reached, ratcheting
3		back the reserve balance to the rate year
4		allowance level will provide a reasonable storm
5		reserve balance in the event the reserve is
6		needed to pay for storm costs in excess of the
7		annual rate base allowance.
8	Q.	Do you have any other recommendations regarding
9		the DSA mechanism?
10	Α.	Yes. We recommend an annual filing be submitted
11		to DPS Staff for review and comment. The filing
12		should be submitted to the DPS no more than 30
13		days following the conclusion of each tracking
14		period. DPS Staff will review the calculation
15		of the DSA charge or credit prior to the
16		January 1st effective date. In the event DPS
17		Staff finds it necessary to recommend changes or
18		finds errors in the calculation, Department
19		Staff will report their findings and
20		recommendations to LIPA's Board of Trustees for
21		its consideration one week prior to the annual
22		December meeting of the LIPA Board.

23 Summary of Recommendations

24 Q. Please summarize your testimony and

1 recommendations?

2 Α. We agree with the LIPA and PSEG LI that the establishment of the DSA mechanism will benefit 3 4 customers in both the short and long run. 5 However, we recommend that certain customer 6 protections be established such as limiting the 7 amount of storm costs that can be retained by LIPA in the Storm reserve account. We also 8 9 recommend a formal DPS review process be 10 established, prior to the annual change in the DSA charge or credit. With these changes we 11 12 recommend the DSA be implemented by LIPA so that customers will benefit from lower future debt 13 14 costs through lower borrowing rates. 15 Does this conclude the Panel's testimony at this Q. 16 time?

- 17 A. Yes, it does.

JUDGE PHILLIPS: I believe the next panel is Staff Policy 1 2 Overview and Revenue Requirement Panel. 3 MR. MAZZA: Yes. Thank you, Your Honor. I would like to enter into the record by affidavit Staff Policy Overview Revenue 4 5 Requirement Panel consisting of Gina Critelli, Michael Twergo 6 and Christian Bonvin. 7 The documents consist of prepared revised testimony which consists of 44 pages plus a title page and prepared revised 8 9 exhibits including Exhibit PORR-1 consisting of three pages, 10 Exhibit PORR-2 consisting of one page, Exhibit PORR-3 consisting 11 of one page, Exhibit PORR-4 consisting of one page, Exhibit 12 PORR-5 consisting of one page, Exhibit PORR-6 consisting of five 13 pages plus a cover page and indexes submitted on June 8, 2015 14 (handing). 15 JUDGE PHILLIPS: On the basis of the affidavit just 16 described and marked for identification as Exhibit 116, the Revised Testimony of the Staff Policy Overview and Revenue 17 18 Requirement Panel should be copied into the record as though 19 given orally today. 20 21 22 23 24 25

BEFORE THE STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

In the Matter of a

THREE YEAR RATE PROPOSAL FOR ELECTRIC RATES AND CHARGES SUBMITTED BY THE LONG ISLAND POWER AUTHORITY AND SERVICE PROVIDER, PSEG LONG ISLAND LLC

Matter Number 15-00262

June 2015

Prepared Revised Testimony of: Staff Policy, Overview and Revenue Requirement Panel Gina Critelli

Chief, Utility Accounting, Audits & Finance

State of New York Department of Public Service 125 East Bethpage Road Plainview, NY 11803

Michael Twergo Chief, Electric Rates & Tariffs

Christian Bonvin Utility Supervisor

State of New York Department of Public Service 3 Empire State Plaza Albany, NY 12223

1 Introduction and Qualifications

2	Q.	Please state the names of the members of the								
3		Policy, Overview and Revenue Requirement Panel.								
4	Α.	The panel is comprised of Gina Critelli, Michael								
5		Twergo, and Christian Bonvin.								
6	Q.	Ms. Critelli, by whom are you employed and what								
7		is your business address?								
8	A.	I am employed by the New York State Department								
9		of Public Service, referred to as the Department								
10		or DPS, 125 East Bethpage Road, Plainview, NY								
11		11803.								
12	Q.	Ms. Critelli, what is your position in the								
13		Department?								
14	A.	I am employed as Chief, Utility Accounting &								
15		Finance in the Office of Accounting, Audits, and								
16		Finance.								
17	Q.	Please describe your educational background and								
18		professional experience.								
19	A.	I graduated from Adelphi University in 1989 and								
20		have a Bachelor's degree in Accounting. I also								
21		received a Master's degree in Business								
22		Administration with a specialization in								
23		Enterprise Resource Planning Systems from the								
24		University of Scranton in 2012. I am a								

1 Certified Public Accountant and a Certified 2 Internal Auditor in the State of New York. I have been employed by the Department since May 3 4 2014. Prior to joining the Department, I worked 5 in various financial and accounting positions in Fixed Assets, Internal Audit, Payroll, and 6 Finance Operations within National Grid and its 7 8 predecessor companies for the past 22 years. 9 Ο. Please describe your responsibilities with the

10 Department.

My responsibilities include examination of 11 Α. 12 accounts, records, documentation, policies and procedures for the Long Island Power Authority 13 14 or LIPA and its service provider, PSEG Long 15 Island LLC., or PSEG LI, and the development from that information of various analyses and 16 17 recommendations. I am currently managing the Department's review of the PSEG LI rate 18 I am also responsible for reviewing 19 proceeding. 20 PSEG LI's performance in relation to the metrics 21 outlined in the Amended and Restated Operations 22 Service Agreement, or OSA, between LIPA and PSEG 23 LI, in accordance with the Department's 24 responsibilities pursuant to the LIPA Reform

1 Act, or LRA.

2 Ο. Have you previously testified in any utility 3 rate proceedings or other ratemaking 4 proceedings? 5 Α. No. Mr. Twergo, what is your position in the 6 Ο. 7 Department? I am employed as the Chief of the Electric Rates 8 Α. 9 & Tariffs Section in the Office of Electric, Gas 10 and Water. Please summarize your educational background and 11 Ο. 12 professional experience. 13 In December 1981, I graduated from Rensselaer Α. Polytechnic Institute with a Bachelor of Science 14 15 degree in Electrical Engineering. Since joining 16 the Department of Public Service in April 1982, 17 I have held progressive engineering positions within the Office of Electric, Gas and Water and 18 19 its predecessors. In February 2012, I was 20 promoted to Chief of the Tariffs, Electric 21 Supply and Small Utility Rates Section, and in 22 October 2013, I was appointed to my current 23 position. My responsibilities include the 24 management and supervision of the Electric Rates

& Tariffs Section, which is comprised of 1 2 eighteen engineers and analysts. The Electric Rates & Tariffs Section responsibilities include 3 4 the analysis of electric rate case submittals; 5 analysis of petitions related to changes in rates, charges, rules and regulations, sale of 6 7 utility property, franchise extensions and waiver of rules; providing advice on local, 8 9 state and federal policies and legislative proposals; review of major utility electric 10 supply portfolios; responding to complex rate-11 12 related inquiries; oversight of utility implementation of New York Power Authority and 13 certain other statewide economic development 14 15 programs; implementation of net metering 16 programs and tariffs; and processing of all 17 electric, gas, water and steam tariff filings. 18 Ο. Have you previously testified in any utility 19 rate proceedings or other proceedings? 20 Α. Yes, I have testified in numerous proceedings 21 before the New York State Public Service 2.2 Commission. 23 Mr. Bonvin, by whom are you employed? Ο.

24 A. I am employed by the New York State Department

1		of Public Service. My business address is Three										
2		Empire State Plaza, Albany, New York 12223.										
3	Q.	Mr. Bonvin, what is your position in the										
4		Department?										
5	Α.	I am employed as a Utility Supervisor in the										
6		Office of Electric, Gas, and Water.										
7	Q.	Please summarize your educational background and										
8		professional experience.										
9	Α.	I graduated from the Worcester Polytechnic										
10		Institute in 1992 with a Bachelor of Engineering										
11		Degrees in Mechanical Engineering and Civil										
12		Engineering. I accepted employment with the										
13		Department of Public Service in August 1993 and										
14		currently work in the Department's Electric										
15		Distribution Systems section. My duties include										
16		the technical analysis of capital projects,										
17		reviewing operations and maintenance programs,										
18		and monitoring the provision of safe and										
19		reliable service. I am also responsible for										
20		emergency planning and response.										
21	Q.	Have you previously testified in any utility										
22		rate proceedings or other ratemaking										
23		proceedings?										
24	Α.	Yes. I have testified in several proceedings,										

- 1 most recently in Case 10-E-0050 that established 2 rates for National Grid.
- 3 Q. What is the purpose of the Panel's testimony in4 this proceeding?

5 Our testimony provides background and Α. perspective to the rate proposal made by PSEG 6 7 LI, and addresses accounting and ratemaking aspects of the rate filing. We will summarize 8 9 the rate filing from a revenue requirements 10 perspective, and explain by cost category the increases contributing to the requested rate 11 12 increase. We will discuss (1) the criteria used by Department Staff, or Staff, in the evaluation 13 of the filing, (2) a summary of Staff's 14 15 adjustments to budgeted costs, and (3) a summary 16 of Staff's revenue requirement recommendations. 17 We will also discuss LIPA's cost structure and 18 explain how financial data prepared using 19 generally accepted accounting principles, or 20 GAAP, has been translated into the Public Power 21 model used for the rate filing. 22 Q. Will any other items be discussed? 23 Yes, a number of other areas will be discussed, Α. 24 including a significant proposed accounting

1 change to the Shoreham Acquisition Adjustment, 2 changes to the ratemaking treatment of pension and other post employment benefits, the latter 3 4 is commonly referred to as OPEBs, the 5 Department's review of the performance metrics contained in the OSA, and several other 6 7 recommended adjustments. 8 Are you sponsoring any exhibits in this Ο. 9 proceeding? Yes. Revised Exhibit (PORR-1), Schedules 1 10 Α. 11 through 3, is Staff's revenue requirement 12 schedule for the three-year rate plan beginning January 1, 2016 through December 31, 2018. 13 Revised Exhibit___(PORR-2) is a summary of the 14 15 revenue requirements as adjusted by Staff and Revised Exhibit (PORR-3) is an explanation of 16 Staff's adjustments. 17 Exhibit___(PORR-4) is a description of LIPA's 18 cost structure. Exhibit___(PORR-5) is a 19 20 calculation explaining why a rate increase is warranted in this proceeding. 21 22 Ο. In your testimony, will you refer to, or 23 otherwise rely upon, any information produced during the discovery phase of this proceeding? 24

1	A.	Yes. We relied upon LIPA's response to
2		Information Request DPS-RRP-133. This is
3		attached as Exhibit(PORR-6).
4	Q.	Why has your testimony been revised?
5	Α.	We incorporated three changes into our
6		testimony, each of which affects the revenue
7		requirement. The first change is to correct a
8		mechanical miscalculation identified in the
9		model used to calculate the revenue requirement.
10		The second change is to revise the amounts
11		included in the revenue requirement for swap
12		payments, other income, and debt service. The
13		third change is to eliminate our proposal
14		regarding Pensions and OPEBs.
15	Q.	How do these changes affect the revenue
16		requirements?
17	Α.	The mechanical miscalculation which excluded, in
18		Staff's second and third year calculations, the
19		prior year rate increases requested by PSEG LI,
20		along with Staff's two additional revisions,
21		caused an understatement of \$124.3 million in
22		the incremental revenue requirement. Staff's
23		original proposal relating to swap payments,
24		other income, and debt service understated the

revenue requirement. The revision will be
 discussed by the Staff Finance and Public Power
 Panel in its revised testimony. Staff's
 revision regarding Pensions and OPEBs reduces
 the total revenue requirement.

6 Background and Perspective

7 Ο. What is the purpose of the background and 8 perspective section of the Panel's testimony? 9 Α. The purpose of the background and perspective 10 section is to reacquaint the public with the provision of electric utility service on Long 11 12 Island, and to highlight several issues which may be helpful in understanding rate and other 13 matters facing LIPA, PSEG LI and their 14 15 customers. LIPA has not been subject to a DPS 16 rate proceeding since prior to approval of the merger between the Long Island Lighting Company 17 18 and LIPA in 1998. Consequently, public knowledge of its operations may be somewhat limited and at 19 20 times incomplete.

21 Pre Hurricane Irene and Super Storm Sandy

Q. Can you discuss LIPA's situation in the period
prior to Hurricane Irene and Super Storm Sandy?
A. LIPA was created by the Long Island Power

1 Authority Act of 1985, which made it the retail 2 electric provider for most of Nassau and Suffolk Counties and part of the Rockaway peninsula in 3 4 1998. From the beginning, LIPA, and its 5 customers, carried the burden of dealing with the financial consequences associated with the 6 7 abandonment of the Shoreham Nuclear plant project. The cost of carrying this unproductive 8 9 asset on LIPA's books continues to be considerable, and it currently generates \$112 10 11 million in yearly amortization expense. The 12 unrecovered balance of \$2 billion continues to require financing until it is fully amortized in 13 14 2032 under the current plan, or 2025 as proposed 15 in this rate proceeding and discussed below. Assuming a 4% cost of debt, which is 16 approximately the long term cost of debt Staff 17 18 has determined to be appropriate in this 19 proceeding, the Shoreham regulatory asset 20 contributes \$120 million annually to the revenue 21 requirement in this proceeding, and 22 approximately \$360 million for the 2016-18 rate 23 period.

24 Q. Are there any other issues that significantly

affect Long Island electric rates? 1 2 Α. As most Long Island residents are aware, 3 property taxes are high on Long Island. LIPA 4 makes payments in lieu of taxes, referred to as PILOTS, in the amount of \$298 million, and of 5 the \$458 million charged by National Grid under 6 7 its Power Supply Agreement or PSA with LIPA, 8 \$193 million is attributable to property taxes. 9 Property taxes account for approximately \$490 million or 13% of the total revenue requirement, 10 that is, base delivery plus fuel and purchased 11 12 power in this proceeding. This amount assumes limited relief of \$16 million by 2016. If there 13 is no property tax relief, the \$16 million would 14 15 be charged to customers under the Power Supply Adjustment, or PSA, component of the Delivery 16 Service Adjustment, referred to as the DSA, 17 18 proposed in this proceeding. The DSA is 19 discussed by the Staff DSA and Storm Reserve 20 Panel. Please describe LIPA's capital structure. 21 Ο. 22 Α. LIPA is approximately 97% debt financed, with

only 3%, or \$435 million, of capital coming from

internally generated funds. This high degree of

526

23

1		leverage is one of the primary factors that make
2		LIPA a relatively higher credit risk compared to
3		other large public power utilities.
4	Q.	Why does LIPA have such a high degree of
5		leverage?
6	Α.	Having only increased rates twice since 1985,
7		LIPA's reluctance to increase delivery rates to
8		recover the true cost of providing service has
9		required it to raise capital through debt
10		financing, as opposed to internally financing a
11		portion of its construction budget. While the
12		securitizations available to LIPA under the
13		Utility Debt Securitization Authority, or UDSA,
14		will continue to assist in keeping interest
15		costs lower than they would be otherwise,
16		interest expense is still a major component in
17		the revenue requirement, amounting to \$365
18		million in the 2015 budget alone.
19	Q.	Are there any other issues that impact LIPA's
20		total debt?
21	Α.	In January 2000, LIPA reached an agreement with
22		Nassau and Suffolk Counties along with several
23		other parties regarding over assessment of the
24		Shoreham Nuclear Power Station, which we will

1 refer to as the Shoreham Tax Settlement. Under 2 the agreement, LIPA was required to issue \$457.5 3 million of credits to customers over a five year 4 period beginning in 1998. In order to fund the 5 credits, LIPA incurred additional debt. Beginning in June 2003, Suffolk County 6 7 customers' bills include a surcharge to be 8 collected over a 25-year period to repay the 9 debt service. Currently, LIPA has over \$500 10 million in debt service on its books as a 11 regulatory asset associated with this 12 settlement. This surcharge does not directly affect the revenue requirement because it is 13 14 collected as a separate line item on customers' 15 bills, and therefore is not included in delivery 16 rates. What is the relevance of pointing out these 17 Ο.

18 factors?

19 A. LIPA's financial condition is fairly intractable 20 and is difficult to materially change in the 21 short run. Moreover, confronting the underlying 22 basis for LIPA's existing financial reality will 23 begin to provide a framework for developing a 24 longer term strategy to improve LIPA's financial

situation and to benefit its customers. 1 2 Ο. Do you have a more complete breakdown of LIPA's 3 cost structure? Yes, it is included as Exhibit___(PORR-4). A 4 Α. 5 large percentage of LIPA's costs are difficult, at least in the near term, for LIPA to 6 7 materially influence. They are considered semi-8 fixed costs. For example, fuel and purchased 9 power costs are based on a mix of long-term contracts and market-based prices over which 10 LIPA has little direct control over. Fuel and 11 12 purchased power costs constitute approximately 43% of a customer's total bill and are included 13 14 in the Fuel & Purchased Power Cost Adjustment, 15 In addition to the fuel and purchased or FPPCA. power costs in the FPPCA, LIPA has a contract 16 with National Grid to purchase power from the 17 18 legacy Long Island Lighting Company power plants 19 (i.e., Northport, Port Jefferson, E.F. Barrett). 20 LIPA also has an 18.2% ownership share in the Nine Mile Point 2 nuclear power plant, and has 21 22 contracted to buy that share of power from this 23 Together with these additional costs, plant. 24 which are included in the delivery portion of

1		customers' bills, approximately 51% of a									
2		customer's total bill is dedicated to fuel and									
3		purchased power.									
4	Q.	Are there any other costs that should be									
5		considered semi-fixed costs?									
б	A.	Yes, Exhibit(PORR-4) includes a detailed list									
7		of LIPA's expenses that are estimated to be									
8		semi-fixed costs. Approximately 85% of LIPA's									
9		expenses are considered semi-fixed costs.									
10	Post	Hurricane Irene and Super Storm Sandy									
11	Q.	What happened to LIPA in the post-Irene and									
12		Super Storm Sandy period?									
13	Α.	Customer dissatisfaction with LIPA has been a									
14		long standing issue. After two successive years									
1 -											
15		of damaging hurricanes, the Governor convened a									
16		of damaging hurricanes, the Governor convened a Moreland Commission and ultimately the LRA was									
16 17		Moreland Commission and ultimately the LRA was enacted. In 2014, PSEG LI was chosen to take									
16 17 18		Moreland Commission and ultimately the LRA was enacted. In 2014, PSEG LI was chosen to take over for National Grid in running the Long									
15 16 17 18 19		of damaging hurricanes, the Governor convened a Moreland Commission and ultimately the LRA was enacted. In 2014, PSEG LI was chosen to take over for National Grid in running the Long Island electric system. Among its provisions,									
15 16 17 18 19 20		of damaging hurricanes, the Governor convened a Moreland Commission and ultimately the LRA was enacted. In 2014, PSEG LI was chosen to take over for National Grid in running the Long Island electric system. Among its provisions, the LRA increased PSEG LI's role over day-to-day									
15 16 17 18 19 20 21		of damaging hurricanes, the Governor convened a Moreland Commission and ultimately the LRA was enacted. In 2014, PSEG LI was chosen to take over for National Grid in running the Long Island electric system. Among its provisions, the LRA increased PSEG LI's role over day-to-day operations and planning for the electric system									
15 16 17 18 19 20 21 22		of damaging hurricanes, the Governor convened a Moreland Commission and ultimately the LRA was enacted. In 2014, PSEG LI was chosen to take over for National Grid in running the Long Island electric system. Among its provisions, the LRA increased PSEG LI's role over day-to-day operations and planning for the electric system and expanded State oversight of electric service									
15 16 17 18 19 20 21 22 23		of damaging hurricanes, the Governor convened a Moreland Commission and ultimately the LRA was enacted. In 2014, PSEG LI was chosen to take over for National Grid in running the Long Island electric system. Among its provisions, the LRA increased PSEG LI's role over day-to-day operations and planning for the electric system and expanded State oversight of electric service on Long Island.									

```
1 take over the day to day operations of the
2 electric system?
```

Transitioning control of a large scale operation 3 Α. 4 increases the likelihood of problems occurring, 5 while significant productivity enhancements may be difficult to achieve until later in the 6 7 transition. This was particularly true in 2014, which was the first year that the operation of 8 9 the electric system shifted from National Grid 10 to PSEG LI. The transition will continue, granted on a smaller basis in 2015, with the 11 12 movement of the power supply function from Con Edison Energy to PSEG LI that occurred on 13 14 January 1, 2015.

15 Q. How has PSEG LI performed during this transition 16 period?

17 Progress was made in satisfying almost all Α. metrics set forth in the OSA, which are key 18 measures of PSEG LI's performance. Also, several 19 20 major systems were put in place such as a new 21 interactive voice response system, outage 22 management system, and an SAP enterprise 23 resource planning system for financial purposes. 24 SAP is the acronym for Systems, Applications,

1 and Products in Data Processing. These major 2 changes were accomplished with customers hardly appearing to be aware they were taking place. 3 4 With respect to one of the metrics, Customer 5 Service, PSEG LI generally performed well, but there were inadequacies in Customer Outreach, 6 7 for example, related to public dissatisfaction 8 relating to the placement of electric poles. 9 Ο. What is the additional relevance of the LRA 10 during this time period? The statute's provisions created a DPS Long 11 Α. 12 Island office and empowered it with certain responsibilities. The LRA enables the 13 14 Department to review and make recommendations 15 concerning the operations, terms and conditions 16 of service, and rates and budgets of LIPA and PSEG LI in a similar fashion to other New York 17 utilities, but also allows DPS to take into 18 account the institutional differences on Long 19 20 Island. 21 What are some of the benefits that have been, or Ο. 22 will be, provided as a result of this DPS review 23 of LIPA and PSEG LI's operations?

24 A. In accordance with the LRA, DPS reviewed and

1 commented on two revenue neutral tariff changes 2 proposed by LIPA in 2014 and early 2015, reviewed PSEG LI's Emergency Plan and related 3 4 drills, and pursued an aggressive schedule of 5 outreach with the general public, community groups, and elected officials. DPS also resolves 6 7 customer complaints, performs informal hearings, 8 and recommends decisions on appeals. The DPS 9 will also provide recommendations to LIPA's Board of Trustees on the appropriate level of 10 11 revenue requirements in this proceeding, along 12 with a corresponding reconciliation of the factors underlying the need for rates. 13 14 Ο. What criteria did Staff employ in its evaluation 15 of PSEG LI's requested rate increase? 16 Α. In accordance with the LRA, the purpose of the 17 Department's review is to ensure that LIPA and PSEG LI, the service provider, provide safe and 18 19 adequate service at rates set at the lowest 20 level consistent with sound fiscal practices. Further, the Department's recommendations are 21 22 designed to ensure that the revenue requirements 23 are sufficient to satisfy LIPA's obligations 24 with respect to its bonds, notes and all other

1 contracts. We evaluated the rate increase in 2 the context of its consistency with the practices followed by other New York utilities 3 4 and examined ways to improve LIPA's financial 5 soundness and minimize the impact on customers' Lastly, we evaluated LIPA's and PSEG 6 rates. 7 LI's operational parameters in comparison to its 8 historical performance and those of other New 9 York utilities. Have you performed a calculation explaining why 10 Ο. 11 a rate increase was requested in this 12 proceeding? 13 Yes, Exhibit (PORR-5) details the total change Α. 14 in budgeted costs from the 2015 base year 15 through 2018. The rate proposal is based on a 16 cumulative operating shortfall of \$148.9 million 17 by the end of 2018 without a rate increase In addition, the request identified an additional 18 \$72.3 million that will be needed to cover debt 19 20 service. In total, \$221.2 million of rate increases is being requested over the three year 21 22 rate period which equates to \$441 million in new 23 revenues.

24 Q. Are LIPA and PSEG LI anticipating significant

1 cost increases during the rate period? 2 Α. Transmission and distribution costs are budgeted 3 to increase by approximately \$91.8 million. 4 Included in this amount is an increase of \$9.7 5 million for property taxes related to the Power Supply Agreement and an increase of \$24.2 6 7 million for PSEG LI's management fee. Taxes are budgeted to increase by approximately \$18.9 8 9 million in addition to the \$9.7 million noted 10 above. Grants and other income are budgeted to decrease by approximately \$21.7 million. Debt 11 12 service costs are budgeted to increase by approximately \$88.7 million, which includes an 13 14 increase in coverage which will be discussed by 15 the Staff's Finance and Public Power Panel testimony. This includes an increase of \$49.5 16 17 million in new debt service costs to support new 18 infrastructure and technology investments. 19 Overview of the Rate Filing and Need for Rate

Q. Please summarize the January 30, 2015 electric rate filing from a revenue requirements perspective.

24 A. The rate filing contained the request for a rate

535

20

Increase

1 increase of \$72.7 million for 2016, \$74.3 2 million for 2017, and \$74.3 million for 2018. This increase would result in an overall 3 4 electric revenue increase, inclusive of projected electric supply costs of 2.0%, 2.0%, 5 and 2.0% for 2016, 2017, and 2018, respectively, 6 7 or 3.9%, 4.0%, and 4.0% for 2016, 2017, and 2018, respectively, on a delivery only revenue 8 9 basis. Overview of Staff's Revenue Requirement Calculation 10 11 Ο. Please summarize the Department's projected 12 revenue requirements for the three-year rate 13 plan ending December 31, 2018. Revised Exhibit___(PORR-1), Schedules 1 through 14 Α. 15 3, show Staff's forecasted electric revenue increase of \$20.5 million, \$67.2 million, and 16 \$79.7 million for 2016, 2017, and 2018, 17 respectively, or a total of \$167.4 million in 18 19 increases which equates to \$275.8 million in 20 total revenue requirements over the rate period. Please describe the format of Revised 21 Ο. 22 Exhibit___(PORR-1). 23 Column 1 contains the GAAP income statement. Α. 24 Column 2 through column 10 contain the

1 modifications to convert the GAAP income 2 statement into the public power model. Column 14 is the modified income statement under the 3 4 public power model excluding the rate increase. 5 Column 15 contains references to the supporting schedules that present Staff's adjustments set 6 forth in column 16. Column 17 presents Staff's 7 projected rate year figures before any required 8 9 revenue increase. Column 18 contains Staff's proposed changes in revenues, and Column 19 is 10 Staff's forecasted rate year income. 11 12 Ο. What is the effect of Staff's adjustments on the 13 revenue requirements? 14 Α. Staff's recommended change in the electric 15 revenue increase requested by PSEG LI is a \$52.2 million decrease for 2016, \$7.0 million decrease 16 for 2017, and a \$5.4 million increase for 2018 17 18 as compared to the original filing. 19 Ο. Why is Staff recommending a revenue requirement 20 for 2018 that is higher than PSEG LI requested? 21 Staff proposed adjustments to the annual Α. 22 operating budget each year, however, because 23 Staff significantly reduced PSEG LI's revenue 24 requirement in 2016 and 2017, an increase in

1 2018 was necessary for LIPA to achieve its 2 operating budget targets. It should be noted that PSEG LI requested a total revenue increase 3 4 over the three rate years of \$441.0 million 5 which Staff reduced to \$275.8 million. What are the major cost categories Staff 6 Ο. 7 recommends be adjusted? The adjustments fall into seven major 8 Α. 9 categories: (1) forecasted revenues being addressed by Staff's Sales Forecast Witness 10 Anping Liu, (2) outreach being addressed by 11 12 Staff's Customer Service Panel, (3) infrastructure improvements being addressed by 13 14 Staff's Energy Efficiency and REV Panel, (4) 15 transmission and distribution spending being addressed by Staff's T&D Capital Expenditures 16 17 Panel and the Transmission and Distribution Operations Panel, (5) inflation and productivity 18 being addressed by Staff's Inflation, 19 20 Productivity and Management Audit Panel (6) Nine 21 Mile Point 2 decommissioning expenses which we 22 will also address, and (7) debt service and 23 coverage being addressed by Staff's Finance and 24 Public Power Panel.

1 Public Power Model

2	Q.	What	fina	ancial	. data	did	PSEG	LI	provide	for	its
3		histo	oric	test	year?						

4 Α. PSEG LI used the 2015 budget approved by LIPA's 5 Board of Trustees as the test year for its three year rate proposal. It adjusted this budget for 6 7 inflation, activity changes, and productivity adjustments to develop the budgets for 2016, 8 9 2017, and 2018. These annual budgets were 10 prepared using GAAP and show an operating deficiency of \$58.5 million in 2016 and \$16.3 11 12 million in 2017, and an operating profit of 13 \$18.4 million in 2018. These amounts have been 14 modified under the public power framework to 15 calculate the rate increase needed to ensure 16 adequate cash flow and improve its financial 17 structure and credit rating. These calculations can be seen in Revised Exhibit___(PORR-1). 18 The approach taken in the Public Power model is 19 20 expected to enable LIPA to recover its current 21 operating costs from customers, meet its debt 22 obligations, and generate an adequate amount of 23 coverage which is similar to retained earnings 24 in an investor owned utility.

1 Q. Why is it important for LIPA to maintain

2 adequate cash coverage?

3 Cash coverage can be used to fund future capital Α. 4 expenditures. This coverage also assures 5 bondholders and other lenders that LIPA has the ability to meet its future debt obligations. 6 7 This assurance indirectly translates into lower borrowing costs over time, which will be 8 9 discussed in Staff's Finance and Public Power Panel testimony. 10

What changes or adjustments to the budget data 11 Ο. 12 are necessary to use the Public Power framework? 13 The Public Power Ratemaking model is Α. 14 distinguishable from the traditional investor 15 owned utility revenue requirements model in that it is a cash-based model. Public power entities 16 recover current operating costs, debt service 17 18 and coverage from their customers. It is not 19 necessary to collect depreciation of capital 20 assets or amortization of regulatory assets 21 because cash flows associated with these amounts 22 have already been included in the debt service 23 calculations. Therefore, depreciation and 24 amortization is added back to the GAAP operating
1 In other words, non cash depreciation results. 2 expense and amortizations are eliminated as 3 operating expenses. The other large adjustment 4 is for accrued interest expense. Actual 5 interest expense is included in the debt service calculation; therefore, accrued interest expense 6 7 is also added back to the GAAP operating 8 results. How are depreciation, amortization, and accrued 9 Ο. 10 interest expense already included in the debt service amounts? 11 12 Α. The cost of debt service includes all of the 13 debt supporting past cash flows, that is, past 14 capital additions and regulatory assets, as well 15 as prospective cash flows for the three year 16 rate period and is included in the revenue 17 requirement. Instead of providing recovery of these non-cash expenses, that is, depreciation 18 and amortization, the Public Power model 19 20 provides for the recovery of the capital 21 necessary to support the underlying asset or 22 deferred expense. 23 Are there any other modifications to the GAAP Ο.

24 operating results that result from use of the

1 Public Power model?

2 Α. Yes, there are an additional five adjustments 3 that are made to the GAAP operating results due 4 to the use of the Public Power model. 5 • Pension and Other Post Employment Benefits (OPEBs) - LIPA recognizes the cash 6 7 contribution to the pension fund rather than 8 the GAAP actuarial expense in its revenue 9 requirements. In addition, approximately \$50 10 million per year is designated to be funded 11 into the OPEB plan, although these amounts 12 are not included in the revenue requirement, rather they are reflected as a reduction in 13 14 coverage. 15 • Shoreham Tax Settlement - this regulatory asset was established when LIPA incurred debt 16 17 to refund customers for over-collection of 18 property taxes by Suffolk County related to 19 Shoreham. A separate surcharge is included 20 on bills to customers in Suffolk County, 21 where Shoreham is located, and the amount collected from this surcharge is being used 22 23 to repay the initial debt incurred. An

24 adjustment is made to remove this from

1 revenue requirements because it is already 2 included in total debt service. This was discussed earlier in our testimony. 3 4 • Southampton Visual Benefit Assessment (VBA) -5 this adjustment is similar to the Shoreham Tax Settlement Adjustment. LIPA incurred 6 7 debt to bury a portion of a transmission cable in the Town of Southampton and is 8 9 surcharging the customers in that town over a 10 20 year period beginning in 2009. The amount collected from this surcharge is being used 11 12 to repay the initial debt incurred. An 13 adjustment is made to remove this from 14 revenue requirements because it is already 15 included in total debt service. • Nine Mile Point 2- Each year LIPA is required 16 17 to fund a portion of the future 18 decommissioning expenses related to its ownership interest in the Nine Mile Point 2 19 20 nuclear power plant. A modification totaling 21 \$1.1 million each year was included in the 2.2 rate proposal for this expense. 23 • Deferred FEMA Grant Income - Each year LIPA 24 recognizes FEMA grant income related to storm

1 hardening as an offset to the depreciation 2 expense for the assets constructed using FEMA 3 funds. The FEMA grant income is considered a 4 reimbursement from FEMA rather than income. In 2016, \$2.2 million in FEMA grant income is 5 projected to be recognized, \$6.7 million in 6 7 2017, and \$11.2 million in 2018. FEMA is contributing 90% of the cost towards these 8 9 capital assets; and LIPA's contribution is These assets are being depreciated over 10 10%. the life of the plant which is approximately 11 12 57 years. When the assets are depreciated, 90% of the expense is offset by the 13 recognition of the FEMA grant income 14 15 resulting in a net effect of zero for that 90% on the income statement. 16 The other 10% of the expense is included in total 17 18 depreciation expense. All depreciation expense is eliminated under the Public Power 19 20 model; therefore, the offsetting grant 21 income, which also may be considered 22 reimbursement, of 90% is also eliminated. 23 What is the effect of all of these Ο.

24 modifications?

Α. After modifications are made to GAAP accounting 1 2 data for use in the Public Power model, there are excess revenues over expenses of \$552.9 3 4 million, \$608.9 million, and \$669.9 million for 2016, 2017, and 2018, respectively. This excess 5 is then used to cover expenses for debt service 6 and enable LIPA to maintain an adequate amount 7 of coverage. Absent a rate increase, this 8 9 results in a shortfall, inclusive of revenue related taxes, of \$72.7 million, \$74.3 million, 10 and \$74.3 million for 2016, 2017, and 2018 11 12 respectively according to the rate filing. Do you agree with these five modifications? 13 Ο. 14 We agree with the modification for the Shoreham Α. 15 tax settlement, the deferred FEMA grant, and the 16 Pensions and OPEBs. We disagree with the 17 treatment of the Nine Mile Point 2 decommissioning expense. 18 19 Acquisition Adjustment Accounting Change 20 Ο. Please describe the Acquisition Adjustment. 21 The Acquisition Adjustment, a regulatory asset, Α. 22 represents the difference between the purchase 23 price paid and the net value of the assets 24 acquired from LILCO, primarily the

1		decommissioned Shoreham nuclear plant. The
2		Acquisition Adjustment is currently being
3		amortized on a straight-line basis over 35 years
4		through 2033.
5	Q.	What is the proposed accounting change related
6		to the Acquisition Adjustment?
7	Α.	Foster and Associates completed a depreciation
8		study during 2014 and concluded that there was a
9		reserve imbalance (surplus) of \$815 million.
10		This balance is currently being amortized over
11		the average remaining life of utility plant;
12		however, LIPA is considering offsetting the
13		remaining amount against the unamortized balance
14		of the Acquisition Adjustment beginning in 2016.
15		The surplus balance at that time is projected to
16		be \$775 million. A balance sheet offset of the
17		remaining reserve surplus against the
18		Acquisition Adjustment would reduce the
19		amortization period of the Acquisition
20		Adjustment by 7 years.
21	Q.	Do you agree with this accounting change?
22	Α.	Yes.
23	Q.	What impact does this accounting change have on
24		the revenue requirements in this case?

1 Α. As previously noted, the Public Power model does 2 not include depreciation or amortizations as 3 part of its revenue requirements because the 4 costs are recovered through the debt service 5 portion of the calculation; therefore, this adjustment will have no impact on revenue 6 7 requirements. However, the acceleration of amortization will enable LIPA to remove this 8 9 regulatory asset from its books on a shorter 10 timescale, thus improving its financial profile 11 over time.

12 OSA Performance Metrics

13 Q. Do the proposed revenue requirements include the 14 potential incentive payment to PSEG LI for its 15 performance related to the metrics outlined in 16 the OSA?

17 Yes, \$9.5 million, \$9.8 million, and \$10.0 Α. million for 2016, 2017, and 2018 respectively 18 were included and allocated approximately 22% to 19 20 capital and 78% to operating and maintenance 21 expenses, sometimes referred to as O&M expenses. Are these amounts in accordance with those 22 Ο. 23 specified in the OSA?

24 A. Yes, the OSA specifies the total incentive

1		payment as up to \$8.7 million per year expressed
2		in 2011 dollars. PSEG LI used an estimated
3		inflation factor to convert this amount into
4		2016, 2017, and 2018 dollars.
5	Q.	What will happen if PSEG LI does not meet the
6		metrics and qualify for the total incentive
7		amount already included in rates for years 2016,
8		2017, and 2018?
9	Α.	LIPA will not be required to pay incentives to
10		PSEG LI if PSEG LI fails to meet the metrics
11		outlined in the OSA. If this occurs during any
12		of the rate years, we recommend that LIPA pay
13		down debt with these funds by passing a credit
14		through the DSA mechanism to customers.
15	Q.	PSEG LI submitted testimony indicating that it
16		had met all of the 2014 metrics except for one.
17		Have you reviewed and verified this statement?
18	Α.	The Department is in the process of reviewing
19		PSEG LI's performance with respect to the 2014
20		metrics and has not yet determined the amount of
21		incentive compensation due to PSEG LI, if any.
22		This will be the subject of an independent
23		review by DPS to be completed in accordance with
24		the timeframe set forth in the LRA.

Ο. When will the review process be complete? 1 2 Α. In accordance with the OSA, PSEG LI is required 3 to submit supporting performance data to LIPA by 4 March 31, 2015. LIPA will then perform its own 5 evaluation of the data. The LRA requires the Department to review PSEG LI's performance data 6 7 and LIPA's evaluation of such data, and to make recommendations to LIPA's Board of Trustees with 8 9 respect to PSEG LI's incentive compensation within 30 days of receipt of such evaluation and 10 information. While we have received some 11 12 preliminary information, we have not yet received PSEG LI's calculation of its incentive 13 14 payment or LIPA's evaluation of the data. Upon 15 receipt of the information, the Department will 16 proceed in completing its review. In accordance with the OSA, LIPA must notify PSEG LI no later 17 than June 30, 2015 of the acceptance or 18 19 disagreement of PSEG LI's incentive compensation 20 calculation.

21 Other Adjustments

Q. Have any other adjustments been identified?
A. Yes, there is one adjustment that was caused by
a mechanical error in the Public Power model.

1 The model includes a cash expense related to 2 Nine Mile Point 2 decommissioning in the amount 3 of \$1.1 million for each of the three rate years. This expense was already included in the 4 5 expense line item for the Asset Retirement Obligation and adding it as an additional 6 7 expense in the Public Power model would 8 incorrectly allow recovery of the same expense 9 twice. In response to Information Request DPS-10 RRP-133, LIPA indicated that this amount was incorrectly reflected in revenue requirements 11 12 and should be removed. This adjustment is 13 reflected in Staff adjustment #3 and reduces the 14 revenue requirement by \$1.1 million for each 15 rate year. 16 Did you receive any information pertaining to Ο. 17 other adjustments that may or may not be 18 contested? 19 Α. Yes, in response to Information Request DPS-TF-20 433, LIPA provided a list of adjustments that 21 should have been included in the original 22 filing. In addition, PSEG LI submitted an 23 update to the filing on May 1, 2015 related to corrected exhibits for the Capital Budget Panel 24

1 testimo	y and Metrics	and Safety Panel
-----------	---------------	------------------

2 testimony.

3 Q. Have you incorporated these adjustments into the4 revenue requirements calculation?

5 A. No, not at this time. These updates were 6 received too late to properly and satisfactorily 7 review and incorporate into our analyses; 8 however, we reserve the right to review them 9 during the course of this proceeding and 10 supplement or revise any testimony, as 11 appropriate.

12 Q. Do you have any concerns with respect to the 13 magnitude of cost changes over the three rate 14 years?

15 Yes, there is a significant amount of Α. 16 uncertainty because Staff relied on forecasts 17 provided by PSEG LI for all three rate years. DPS typically uses a historic test year which 18 enables comparisons to be made to actual data. 19 20 PSEG LI asserted that it was unable to provide 21 historic cost data due to the transition of 22 financial data from National Grid which did not 23 occur until early 2015. In addition, some costs 24 that are components of the revenue requirement

are beyond the control of PSEG LI and/or LIPA 1 2 andcan significantly vary over the three rate years. During 2016, several of these costs are 3 4 expected to be known with more certainty for 5 rate years two and three. Although we have incorporated in our revised testimony, revenue 6 7 requirement recommendations for all three rate years, Staff will be better able to more 8 9 accurately determine revenue requirements for 10 rate years two and three with information on 11 actual costs and expenses expected to become available towards the end of 2016. 12

Q. What are some of the key drivers included in
rates that are beyond the control of PSEG LI
and/or LIPA?

16 A large proportion of personnel employed by PSEG Α. 17 LI are working under a labor union contract that expires in November 2016. At this time, the 18 increased costs associated with the upcoming 19 20 contract are unknown. Similarly, debt service costs associated with the planned refinancing of 21 22 a substantial portion of LIPA's debt are 23 dependent on the economic environment and level 24 of interest rates. At this time, these costs

can be estimated, but actual costs which will
 become known within the next year, may vary
 significantly. Lastly, property tax obligations
 may not be reasonably forecasted due to on-going
 challenges with local taxing jurisdictions.
 How can this risk be mitigated if costs can vary

7 significantly from the forecasts provided in the 8 filing?

9 Α. While PSEG LI could recover actual costs through 10 an adjustment mechanism, it is preferable to have base delivery rates reflect the most 11 12 accurate cost forecast available, therefore, it would be appropriate for Staff to review and 13 14 audit these actual costs for rate years two and 15 three when they become known beginning late in Staff will then be in a better position 16 2016. to recommend changes to the forecasts for the 17 18 second and third rate years at that time. How would the forecasts be reconciled with 19 Ο. 20 actual numbers for the purpose of refining the 21 revenue requirement for rate years one and two? 22 Α. We have not yet determined the specific method 23 by which we may recommend this be done, however, 24 second and/or third stage filings on these

1		discrete issues or a reconciliation mechanism
2		with Staff review would be among the
3		possibilities.
4	Empl	oyee Pensions and Other Post-Employment Benefits
5	(OPE	Bs)
6	Q.	What is the Department policy regarding the
7		appropriate accounting and rate making treatment
8		for employee pensions and OPEBs?
9	A.	In accordance with the decision in Case 91-M-
10		0890, the amount allowed in rates for pensions
11		and OPEBs is based on the amounts of those
12		benefits that employees earn during the rate
13		year based on actuarial estimates rather than on
14		the cash payments made by the utility for the
15		benefits during the rate year.
16	Q.	Does the rate filing adhere to Department
17		policy?
18	A.	No, purportedly based on the principles
19		underlying the Public Power model, the testimony
20		advocates setting rates based on the cash
21		payments it projects it will make for pension
22		and OPEBs during the three rate years as
23		operating expenses plus the debt service costs
24		on prefunded OPEB costs for the 2,188 employees

covered by the OSA. LIPA contends it is
 appropriate to only include the debt service
 costs for OPEBs because unlike pensions that are
 governed by federal requirements, any funding it
 opts to do for OPEBs is completely discretionary
 and does not have to be made.

7 Q. What is the impact on O&M and Capital expenses8 on a GAAP basis?

9 Α. The full GAAP amount of pension and OPEBs was 10 applied to both the O&M and Capital budgets. However, for ratemaking purposes, the GAAP 11 12 amount was excluded for O&M. Only the minimum 13 required funding was included for O&M. Ιt should also be noted that the GAAP amount was 14 15 also excluded in 2015 from O&M because it was 16 deferred as a regulatory asset. This is why 17 there appears to be a significant increase in labor and benefits between 2015 and 2016 for 18 19 О&М.

20 Q. What is the impact on revenue requirements if21 this proposal is accepted?

A. Projected cash payments for pensions and OPEBs
are based on the minimum amounts estimated to be
required to fund for employee pension costs

1 under federal regulations. The proposal for 2 ratemaking treatment of pensions and OPEBs would result in a significantly lower rate increase 3 4 than if the rate allowance were based on the 5 accrual method in accordance with Department 6 policy. 7 Ο. Do you agree with this proposal? 8 Yes. Although the rates current customers will Α. 9 be paying for pensions and OPEBs will not 10 reflect the true cost of the services they are receiving, to mitigate the impact of the 11 12 requested rate increase on customers, 13 implementation of Department policy to Pensions and OPEBs will not be recommended at this time. 14 15 Rate Case and Beyond 16 What future developments are likely to influence Ο. 17 the Company's fiscal situation? As noted above, continuing DPS review will 18 Α. benefit Long Island electric customers and 19 20 assist LIPA in improving its financial 21 condition. We will strive to ensure that LIPA's 22 financial strategy will benefit customers in 23 terms of improved credit ratings. The use of the 24 Public Power model is one step along this path.

1 Also, accelerating the amortization of the 2 Shoreham asset, while it does not directly impact the revenue requirement, will aid in more 3 4 quickly removing this vestige of the past from 5 LIPA's books. We believe as well that transparency when implementing practices 6 7 reviewed or recommended in the rate case process will establish a better performance history for 8 9 LIPA and PSEG LI and generate additional 10 confidence in Long Island operations. How do PSEG LI's operational practices compare 11 Ο. 12 to those of other New York utilities? 13 PSEG LI is proposing capital investments that Α. 14 support its daily operations as well as enhance 15 the system to mitigate reliability concerns. 16 From an operations and maintenance perspective, PSEG LI is proposing programs that are more 17 18 stringent than LIPA's previous practices and 19 similar to the practices employed by other major New York electric utilities. 20 In limited circumstances, Staff panels - the Transmission & 21 22 Distribution Operations Panel, the Energy 23 Efficiency and REV Panel, and the T&D Capital Expenditures Panel - have identified practices 24

1		utilized by other New York utilities that PSEG
2		LI should seek to integrate into its own
3		policies and procedures.
4	Q.	What other future developments may impact the
5		Company?
6	A.	The Integrated Resource Plan or IRP, will
7		provide a comprehensive analysis of Long
8		Island's resource needs, while the
9		implementation of Utility 2.0, or Reforming the
10		Energy Vision, referred to as REV, in the rest
11		of the state, will afford the opportunity for
12		additional grid improvements. For example, a
13		more distributed underlying network architecture
14		can assist in recovering after a storm which was
15		one reason for the enactment of the LRA. Also,
16		non-traditional means of underwriting the cost
17		of the network and operations by utilizing third
18		party vendors may mitigate the pressure on
19		LIPA's debt and lead to lower costs for
20		customers.
21	Q.	What does the LRA require concerning energy
22		efficiency, distributed generation or advanced
23		grid technology programs?
24	Α.	The LRA requires that LIPA and PSEG LI, on or

1 before July 1, 2014, and annually thereafter, 2 submit to the Department for review, any 3 proposed plan related to implementing energy 4 efficiency measures, distributed generation or 5 advanced grid technology programs with the intent of providing customers with the means to 6 7 more efficiently and effectively manage their energy usage and utility bills and to improve 8 9 system reliability and power quality. 10 Explain the relationship between this yearly Ο. filing, which is considered the "Utility 2.0" 11 12 filing and the State-wide REV proceeding. 13 Although the Utility 2.0 requirements in the LRA Α. 14 are distinct from the REV proceeding, PSEG LI 15 has committed to aligning the Utility 2.0 goals with those of REV. 16 17 Are there other benefits from Utility 2.0 to Ο. 18 customers? 19 Α. Yes, they are addressed by the Energy Efficiency 20 and REV Panel. 21 Does this conclude your testimony at this time? Ο. 22 Α. Yes. 23

JUDGE PHILLIPS: Let's go off the record. 1 2 (Whereupon, an off the record discussion was held.) 3 JUDGE PHILLIPS: Staff is going to continue to with the entries by affidavit with the Capital Expenditures Panel and 4 5 then the Customer Service Panel. I will let you go in order. 6 MR. MAZZA: Thank you, Your Honor. I would like to submit 7 the testimony and exhibits of the Staff Capital Expenditures 8 Panel via affidavit. The panel consists of Christian Bonvin, 9 Vijay Puran, John Cary and Sean Walters. The documents consist 10 of prepared testimony consisting of 52 pages plus a title page, 11 prepared exhibits including Exhibit CEP-1 consisting of 33 12 pages, Exhibit CEP-2 consisting of one page plus a cover page 13 and indexes. These were originally prepared May 14, 2015. 14 JUDGE PHILLIPS: The affidavit for the testimony of the 15 Staff Capital Expenditures Panel has been marked for identification as Exhibit 117. This serves as the basis of 16 17 copying into the record as though orally given. That testimony 18 of that panel consisting of 52 pages plus a title page. 19 20 21 22 23 24 25

BEFORE THE STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

In the Matter of a

THREE-YEAR RATE PROPOSAL FOR ELECTRIC RATES AND CHARGES SUBMITTED BY THE LONG ISLAND POWER AUTHORITY AND SERVICE PROVIDER, PSEG LONG ISLAND LLC.

Matter Number 15-00262

May 2015

Prepared Testimony of: Staff T&D Capital Expenditures Panel Christian Bonvin Utility Supervisor Office of Electric, Gas, and Water Vijay Puran Utility Engineer 3 Office of Electric, Gas, and Water John Cary Utility Engineer 1 Office of Electric, Gas, and Water Sean Walters Junior Engineer Office of Electric, Gas, and Water State of New York Department of Public Service 125 East Bethpage Road Plainview, New York 11803

1 Introduction and Qualifications

2	Q.	Please state your names, employer, and business
3		address.
4	Α.	Christian Bonvin, Vijay Puran, John Cary and Sean
5		Walters. We are all employed by the New York
6		State Department of Public Service, or
7		Department. Messrs. Bonvin, Puran and Cary are
8		located at Three Empire State Plaza, Albany, New
9		York 12223. Mr. Walters is located at 125 East
10		Bethpage Road, Plainview, New York 11803.
11	Q.	Mr. Bonvin, what is your current position?
12	Α.	I am a Utility Supervisor in the Office of
13		Electric, Gas and Water.
14	Q.	Please summarize your educational background and
15		professional experience.
16	Α.	I graduated from the Worcester Polytechnic
17		Institute in 1992 with a Bachelor of Engineering
18		Degrees in Mechanical Engineering and Civil
19		Engineering. I accepted employment with the
20		Department of Public Service in August 1993 and
21		currently work in the Department's Electric
22		Distribution Systems section. My duties include
23		the technical analysis of capital projects,
24		reviewing operations and maintenance programs,

Staff T&D Capital Expenditures Panel

1		and monitoring the provision of safe and reliable
2		service.
3	Q.	Have you previously testified in utility rate
4		proceedings or other ratemaking proceedings?
5	Α.	Yes. I have testified in several proceedings,
6		most recently in Case 10-E-0050 that established
7		rates for National Grid.
8	Q.	Mr. Puran, what is your position with the
9		Department?
10	Α.	I am employed as a Utility Engineer 3 in the Bulk
11		Electric System Section of the Office of
12		Electric, Gas and Water.
13	Q.	Please summarize your educational background and
14		professional experience.
15	Α.	I graduated from the University of Guyana in
16		October 1987 with a Bachelor of Engineering
17		Degree in Electrical Engineering. In February
18		1993, I graduated from the City College of New
19		York with a Master of Engineering Degree in
20		Electrical Engineering. I also received a Master
21		of Public Administration Degree from the Nelson
22		A. Rockefeller College, University at Albany, in
23		December 2001. I accepted employment with the
27		Department of Public Service in November 1994.

Staff T&D Capital Expenditures Panel

1		My duties include and have included the technical
2		analyses of utility rate filings, focusing on
3		revenue allocation, rate design, examination of
4		capital infrastructure projects and budgets,
5		examination of operating and maintenance
6		expenses, and the review and analysis of electric
7		transmission lines under Public Service Law
8		Article VII.
9	Q.	Have you previously testified in utility rate
10		proceedings or other ratemaking proceedings?
11	Α.	Yes, I have testified in several proceedings
12		before the New York State Public Service
13		Commission on revenue allocation, rate design and
14		capital infrastructure budgets.
15	Q.	Mr. Cary, what is your position at the
16		Department?
17	Α.	I am employed as a Utility Engineer 1 in the Bulk
18		Electric Section in the Office of Electric, Gas
19		and Water.
20	Q.	Please summarize your educational background and
21		professional experience.
22	Α.	I graduated from Western New England College with
23		a Bachelor of Science degree in Electrical

564

Matter 15-00262

Staff T&D Capital Expenditures Panel

1 USFILTER Corporation as a systems control 2 engineer from May 1999 to April 2000. I worked for the Department of Defense (US ARMY ARDEC) as 3 an electrical engineer in the Precision Munitions 4 5 Division from May 2000 to April 2004. I also worked as a project manager for a residential 6 7 homebuilder from April 2004 to March 2012. I have been employed by the Department since March 8 9 2012. My current duties include the review and 10 evaluation of electric utility Capital and Operations and Maintenance, or O&M, budgets and 11 12 expenditures, review and evaluation of 13 Article VII Certificate Applications and 14 production cost modeling using GE MAPS software. 15 Have you previously testified in utility rate Ο. 16 proceedings or other ratemaking proceedings? 17 No, I have not previously testified in utility Α. rate proceedings or other ratemaking proceedings. 18 Mr. Walters, what is your position at the 19 Ο. 20 Department? 21 I am employed as a Junior Engineer in the Long Α. 22 Island Office. 23 Please summarize your educational background and Ο. 24 professional experience.

4

Staff T&D Capital Expenditures Panel

1	Α.	I graduated from Stony Brook University with a
2		Bachelor of Engineering Degree in Mechanical
3		Engineering in 2008. I joined the Department in
4		2014. My responsibilities include review of
5		electric emergency response plans for conformance
6		with best practices, review of electric utility
7		performance metrics to insure system reliability
8		and service quality, review of capital and O&M
9		expense budgets for adequacy in maintaining
10		reliability and increasing resilience in a cost
11		effective manner, as well as reviewing forecasts
12		and long range system planning.
13	Q.	Have you previously testified in utility rate
14		proceedings or other ratemaking proceedings?
15	A.	No, I have not previously testified in utility
16		rate proceedings or other ratemaking proceedings.
17	Q.	What is the purpose of the T&D Capital
18		Expenditures Panel's testimony?
19	Α.	The purpose of our testimony is to address PSEG
20		LI's transmission and distribution, referred to
21		as T&D, capital projects and expenditures as
22		presented by PSEG LI's Capital Budget Panel.
23	Q.	Are you presenting any exhibits in this
24		proceeding?

5

566

Matter 15-00262

1	Α.	Yes. We relied upon a number of PSEG LI's
2		responses to our Information Requests, or IRs,
3		which are presented as Exhibit(CEP-1). We
4		also present a summary of our adjustments in
5		Exhibit(CEP-2).
6	Q.	Please explain the scope of the Panel's review of
7		the proposed capital expenditures.
8	A.	PSEG LI's Capital Budget Panel testimony
9		presented projected T&D capital expenditures for
10		the years 2016 through 2018. The focus of our
11		review was to understand PSEG LI's process for
12		developing its capital budget and to review
13		documentation provided by PSEG LI to support the
14		projects and programs contained in its proposed
15		budget. Where appropriate, we provide specific
16		adjustments to the capital budgets to be
17		incorporated into the revenue requirement
18		calculations. Additionally, we reviewed certain
19		information technology based capital projects
20		that support the operation of the T&D system and
21		recommended adjustments where appropriate.
22	Q.	Are there any projects PSEG LI is undertaking in
23		response to the damage caused by Superstorm
24		Sandy?

Staff T&D Capital Expenditures Panel

1	Α.	Yes, PSEG LI will be undertaking storm hardening
2		projects to make the electric system more
3		resilient. LIPA was awarded a grant from the
4		Federal Emergency Management Agency, or FEMA,
5		which will cover the expenditures for projects
6		provided they meet specified criteria.
7	Q.	Are the storm hardening efforts covered by FEMA
8		included in PSEG LI's T&D capital budgets?
9	Α.	PSEG LI's capital budget testimony stated it
10		excluded costs for projects contemplated under
11		the FEMA grant. As a result, we will not address
12		the projects or costs to be recovered by FEMA
13		grants or other insurances, other than to verify
14		that those projects are not represented in the
15		general T&D capital expenditure budget. PSEG LI
16		also stated certain capital projects were reduced
17		to reflect the storm hardening efforts that would
18		be recovered under the FEMA grant.
19	Q.	If the storm hardening efforts covered by FEMA
20		are not part of this Panel, how are they being
21		captured?
22	Α.	The recognition of costs to be covered by FEMA is
23		included in the revenue requirement. The capital
24		costs are stated in specific line items to

7

Staff T&D Capital Expenditures Panel

569

Matter 15-00262

1 clearly separate costs that should be included in 2 base rates and those that should not. Therefore, we will be focused on only the costs that will be 3 recovered through base rates. 4 5 As part of the review, did the Panel identify any Q. 6 projects in the PSEG LI's T&D capital budget that 7 should be covered by FEMA? We identified five projects in the 2016-2018 8 Α. 9 budgets that are related to the impacts of 10 Superstorm Sandy. The projects are the Rockaway Beach - Replace 4 kV Banks and switchgear at 11 12 \$3.6 million in 2016, Long Beach - Replace first 13 and second half switchgears and control cables at \$6.7 million in 2016, Far Rockaway - Replace 14 15 33 kV Switchgear, Control Wiring, and Control 16 Panels at \$5.5 million in 2016, Far Rockaway -17 Replace 69 kV inter-panel wiring & Control Cables at \$600,000 in 2017, and Far Rockaway - Replace 18 Distribution Switchgear at \$5.7 million in 2016. 19 20 The funding requests for some of these projects 21 clearly identify that the costs may be eligible 22 for recovery under the FEMA grant or insurances. 23 How did the Panel treat these costs? Ο. We determined that the projects were needed and 24 Α.

Staff T&D Capital Expenditures Panel

1		that the funding should remain in the T&D capital
2		budget until it is clear that the FEMA
3		requirements are met and costs recovery assured.
4		We do recommend that PSEG LI make all efforts to
5		meet the FEMA requirements because it will
6		provide the best storm hardening with respect to
7		flooding. Should any of the costs be recoverable
8		from sources other than the ratepayers, we
9		recommend the over funding in the budget be used
10		for customer benefit under Staff's proposed
11		Delivery Service Adjustment mechanism, discussed
12		in the Delivery Service Adjustment and Storm
13		Reserve Panel.
14	Q.	Are there other capital projects being proposed

15 that focused on reliability, but not considered 16 storm hardening?

17 A. Yes, PSEG LI has proposed several projects
18 related to reliability. These projects are
19 designed to replace aging infrastructure, provide
20 a level of redundancy to minimize service
21 interruptions, and ensure that the system
22 operates within design limits.
23 Q. How is PSEG LI's reliability performance

Q. How is PSEG LI's reliability performancemeasured?

9

23

Staff T&D Capital Expenditures Panel

1	Α.	Appendix 9 of the Amended and Restated Operating
2		Services Agreement, or OSA, contains 21
3		performance metrics, three of which directly
4		relate to system reliability. These are: (1) the
5		System Average Interruption Frequency Index, or
6		SAIFI, (2) the Customer Average Interruption
7		Duration Index, or CAIDI, and (3) the System
8		Average Interruption Duration Index, or SAIDI.
9		All three metrics above are computed in
10		accordance with IEEE standard 1366 and consistent
11		with New York practices, but exclude outages due
12		to Major Storms consistent with the Department's
13		definition that is used by other New York
14		utilities. The OSA also sets performance targets
15		to measure whether PSEG LI's performance is
16		acceptable.
17	Q.	Please elaborate on how these measures relate to
18		the capital program.
19	Α.	SAIFI is a measure of frequency, or the number of
20		times a customer's service is interrupted for an
21		extended period. Infrastructure investments and
22		changes to the capital budget have the largest

24 duration, or how long an interruption lasts.

10

impact on this measure. CAIDI is a measure of

Staff T&D Capital Expenditures Panel

1		SAIDI is a combination of the two. Workforce
2		management practices influence duration the most;
3		however, SAIDI shows positive results if
4		interruptions are kept low due to the nature of
5		its calculation.
6	Q.	Where capital investments and frequency
7		performances are related, what is PESG LI's
8		performance for SAIFI in 2014?
9	Α.	As of December 31, 2014, PESG LI's frequency
10		performance was 0.72; better than the target
11		performance of 0.90. PSEG LI's frequency
12		performance is better than most upstate electric
13		utilities, which average between 1.0 and 1.15
14		over the past five years. Only Consolidated
15		Edison Company of New York has a lower
16		performance average.
17	Q.	Will the Department be tracking PSEG LI's
18		performance each year?
19	Α.	Yes, one of our oversight activities will be to
20		monitor PSEG LI's performance and determine if it
21		is implementing the capital program in an
22		appropriate manner that is responsive to its
23		frequency and duration performances.

24 PSEG LI Budget Process

Staff T&D Capital Expenditures Panel

1	Q.	As part of your analysis did you review the PSEG
2		LI process for developing its capital budget?
3	Α.	Yes, we reviewed the budget development process,
4		including the timing of the budget cycle,
5		prioritization of projects, and the approval
6		process conducted prior to finalizing the
7		budgets.
8	Q.	What is your overall impression of the budget
9		process?
10	Α.	We found that PSEG LI's process to identify and
11		prioritize projects to be included in the budget
12		is reasonable and similar to other utilities in
13		the state. Projects are proposed based on
14		mandates, loading forecasts, or reliability
15		concerns, and prioritized based on need and risk
16		analysis to help identify which projects would be
17		best to undertake and at what overall cost. Once
18		all projects are ranked, PSEG LI develops a list
19		of projects to be undertaken, beginning with the
20		higher priority ones, while balancing the overall
21		funding requirement. The budget process starts
22		early in the year resulting in a preliminary
23		project listing and budget by the end of June.
24		The budget is reviewed and modified, as needed,

573

Matter 15-00262

574

Staff T&D Capital Expenditures Panel

1		by a Utility Review Board, or URB, before it is
2		presented to the LIPA Board of Trustees for final
3		approval in December.
4	Q.	How does PSEG LI prioritize projects?
5	Α.	PSEG LI stated it uses a Project Prioritization
6		and Risk Assessment protocol to identify the
7		importance of a project and scores the project on
8		a scale of 1-100. The protocol is based on four
9		factors: Regulatory Compliance, Customer
10		Satisfaction, Financial Performance, and
11		Technical Performance. Within each category are
12		risk drivers that are scored separately before
13		being aggregated into a final project
14		prioritization score.
15	Q.	What is the Panel's opinion concerning the role
16		of the Utility Review Board in the budget
17		process?
18	Α.	The concept of a Utility Review Board for
19		approving projects is valid. The scope of what
20		is presented to it, however, needs reform. Our
21		review of the information provided to the URB
22		identified that for most projects, little data on
23		actual spending to date within the budget year is
24		presented to the URB when a change of funding is

Staff T&D Capital Expenditures Panel

1 requested for a project. There is also a lack of 2 visibility with respect to certain high cost 3 blanket projects. Simple variance reporting for each project is not presented to the URB although 4 5 the information was available for our review during discovery. However, the variance reports 6 7 we reviewed were not readily comparative to the information in the URB reports. For example, a 8 9 single line item in the URB may be comprised of 10 several line items in the corresponding variance report. Further, without historic spending and 11 variance information at hand, it is difficult to 12 understand how mid-year requests for funding 13 14 changes are processed for approval by the URB. 15 Are there any other concerns with the information Ο. 16 presented to the URB? 17 Yes. Major investment projects, such as new Α. substations and transmission lines over 18 \$1 million in cost, do not include any 19 20 engineering drawings, detailed estimates, or work 21 schedules to understand the activities to be 22 taken in the near-term and how it relates to the

24 generally provided as substation work, conversion

funding forecasts. Total project costs are

14

575

Matter 15-00262

Staff T&D Capital Expenditures Panel

1		and reinforcement work, or transmission work
2		only. The expenditures presented to the URB by
3		year are lumped together into a "base" and only
4		broken apart as being distribution or
5		transmission in nature. More visibility into
6		what the funds will be spent on for these large
7		projects is recommended.
8	Q.	Do you identify any other area of concern with
9		regard to the capital budget process?
10	Α.	Yes, our review found that PSEG LI's treatment of
11		blanket accounts is inconsistent with other New
12		York utilities in New York State.
13	Q.	Please describe what is meant by a "blanket
14		account".
15	Α.	Blanket accounts are used to capture and
16		summarize numerous, small routine capital
17		expenditures such as new customer services,
18		street lighting, and repairing minor damage or
19		equipment failures.
20	Q.	Does PSEG LI have blanket accounts and are they
21		in line with the concept you described?
22	Α.	Yes. PSEG LI has identified several blanket
23		accounts within their capital budget. One of our
24		major concerns, however, is that PSEG LI
1		considers blanket projects to be an aggregate of
----	----	--
2		multiple projects with costs less than \$1 million
3		each. The \$1 million level per project is
4		inordinately high when compared to other large
5		utilities in New York that limit an individual
6		project to \$100,000 or less to be chargeable
7		against a blanket account.
8	Q.	Why is this difference in levels such a concern?
9	A.	The defined levels for blankets generally align
10		with the approval process necessary prior to
11		expending funds for a project. PSEG LI
12		incorrectly used the term blanket when
13		summarizing a small number of higher cost
14		projects associated with a program or an
15		overarching objective. By doing so, it
16		constrains the ability of the URB, or other
17		parties, to clearly identify what work is being
18		considered to be performed. The \$1 million
19		threshold value is so high that it may also
20		impact the tracking of the actual expenditures
21		and variances for individual projects, as the
22		blanket in total may appear in line with the
23		budget.
24	Q.	What do you recommend to resolve this concern?

577

Matter 15-00262

Staff T&D Capital Expenditures Panel

1	Α.	We recommend that PSEG LI reduce the blanket
2		threshold to \$100,000 and provide more visibility
3		to projects between \$100,000 and \$1,000,000.
4		This would result in a capital budget where
5		projects over \$100,000 would be treated similarly
6		to how PSEG LI lists specific projects.
7	Revi	ew of Capital Expenditures
8	Q.	Please summarize PSEG LI's proposed capital
9		budget with regard to T&D infrastructure and its
10		operation.
11	Α.	PSEG LI's Capital Budget Panel filed testimony
12		with proposed T&D budgets of \$350 million,
13		\$371 million, and \$370 million for the years 2016
14		through 2018, respectively, as shown in PSEG LI's
15		Exhibit CBP-2. The forecast includes funding for
16		projects related to reliability, load growth, and
17		mandatory requirements.
18	Q.	Please explain the review process used by the
19		Panel to assess PSEG LI's proposed capital
20		budgets.
21	Α.	We reviewed the internal documentation and
22		studies used to develop and justify a project or
23		program merits. We focus on items such as the
24		scope of work and how it would improve the

1		system, whether alternatives were evaluated,
2		historic spending trends for similar activities,
3		and the development of project cost estimates.
4		We also analyzed whether a project may not be
5		required to be constructed within the timeframe
6		in which rates are being set and made adjustments
7		accordingly, thereby mitigating the impact to
8		ratepayers.
9	Q.	Did PSEG LI identify any changes to the budget

10 forecast?

11 Yes. In its response to IR DPS-CBP-0372, PSEG LI Α. 12 provided budget forecasts of approximately \$361 million, \$337 million, and \$382 million for 13 14 2016-2018, respectively. PSEG LI stated that the 15 amounts shown on Exhibit CBP-2 needed to be 16 increased by approximately 14.3% to reflect the 17 Administrative and General, or A&G, costs and the Pensions/OPEB costs used in the Ratemaking and 18 Revenue Requirement Panel's Exhibit RRP-1. In 19 20 the response, PSEG LI also made significant 21 budget changes to a limited number of projects 22 when compared to Exhibit CBP-2. Many of these 23 limited budget changes, mostly reductions, 24 aligned with questions that were raised in our

Staff T&D Capital Expenditures Panel

1 information requests.

2 Q. Do capital projects normally account for A&G and3 Pensions/OPEBs?

Yes. When capital expenditures for projects are 4 Α. 5 determined, loaders for A&G and Pensions/OPEB are embedded in the initial labor estimates. 6 We do not have a clear understanding, however, as to 7 8 why PSEG LI proposes to load the base T&D capital 9 expenditures for A&G and Pensions/OPEB. By doing 10 this, PSEG LI would be applying a loader for A&G and Pensions/OPEB to non-labor components of a 11 12 project's expenditure, such as materials, which 13 is inconsistent with our understanding on how 14 capital budgets are developed. PSEG LI has not 15 provided any detailed project cost estimates or 16 other information that would clearly demonstrate 17 that the costs proposed in PSEG LI's Exhibit CBP-2 do not already account for A&G and 18 19 Pensions/OPEB.

Q. What does the Panel recommend with regard to the
information provided in IR DPS-CBP-0372?
A. Our review of IR DPS-CBP-0372 determined that the
loading factors were actually 14.3%, 15.6% and
16.5% for 2016, 2017 and 2018, respectively.

1		Because of our inability to determine how the
2		loaders were developed and the unusual method of
3		how it was applied, we recommend that the amount
4		presented in PSEG LI response to IR DPS-CBP-0372
5		should be "unloaded" for A&G and Pensions/OPEB,
6		using the percentages we just stated. We believe
7		that this should produce an apples-to-apples
8		comparison with Exhibit CBP-2?
9	Blan	ket Accounts Forecasts
10	Q.	How are blanket accounts generally forecasted and
11		how did you review them?
12	Α.	The exact work activity is unknown at the time
13		the budget is approved for many of the accounts,
14		such as new business, therefore historic trending
15		is used to set the capital expenditure level for
16		the blanket accounts. The exact forecast may be
17		slightly modified to reflect new circumstance,
18		such as reducing the new business account to more
19		appropriately reflect a decline in growth. To
20		ensure appropriate funding levels for these
21		accounts, we typically review a five year history
22		and reasons for deviating from the historic
23		trends. In many instances PSEG LI forecasted a
24		low percent change between budget years, so our

20

581

Matter 15-00262

Staff T&D Capital Expenditures Panel

key analysis focused on whether the initial 2016
 budget request was reasonable.

3 Were you able to perform such an analysis? Q. 4 PSEG LI could only produce actual spending Α. 5 information for 2013 and 2014 in response to our request for five years of historic data. The URB 6 7 reports and some of the Project Justification Documents, or PJDs, for the blanket accounts 8 9 contained additional historical budgets and 10 actual expenditures. Our analysis was based on the maximum amount of data available to determine 11 12 trends and deviations from prior spending 13 patterns.

14 Q. What was the result of your review of the blanket 15 accounts?

16 We determined that many of the programs budgets Α. 17 were reasonable and consistent with historic practices. We did, however, identify 18 inconsistencies with the forecasted expenditures 19 20 for New Business, Electric System Planning, 21 Accidents, Multiple Interruptions, the Substation 22 Reliability Enhancement Program and the 23 Substation Control and Protection Improvements 24 Program.

21

Staff T&D Capital Expenditures Panel

Q. Please describe the New Business blanket and your
 concern.

The New Business blanket accounts for new 3 Α. 4 customers being added to the system and 5 modifications to the system to enable service installations. Response to IR DPS-CBP-0318 6 7 indicated that the 2015 budget was prepared by considering historical spending from 2011 through 8 9 2013 together with the 2014 spending forecast as 10 of September 2014. The budget for years 2016 through 2018 are escalated by 3% from the 2015 11 12 budget. 13 Do you agree with this forecast? Ο. 14 No, we disagree with the calculation used to Α. 15 establish the forecast. The response to IR DPS-

16 CBP-0318 and the URB reports state that 2013 17 spending was higher as a result of post Hurricane Sandy customer rebuilding activities. 18 This increased level of spending is not expected to 19 continue. In addition, we believe actual 20 21 expenditures for 2014 should be considered 22 atypical because it was nearly double the 23 forecasted expenditures.

24 Q. What does the panel recommend?

1	Α.	We recommend not using 2013 data and 2014 actual
2		expenditures in the calculation. Therefore, we
3		recommend averaging actual expenditures from 2010
4		through 2012 and the 2014 budget, which results
5		in a forecast of \$13.26 million. Escalating this
6		average by 3% percent annually results in
7		forecasts of \$13.66 million, \$14.07 million and
8		\$14.49 million for 2016 through 2018,
9		respectively. This represents downward
10		adjustments of \$1.83 million, \$1.88 million, and
11		\$1.94 million for 2016-2018, respectively.
12	Q.	Please describe the Electric System Planning Jobs
13		blanket and your review.
14	A.	Prior to 2015, a blanket account was not
15		specified to fund small conversion and
16		reinforcement work. Going forward, PSEG LI has
17		appropriately established the Electric System
18		Planning Jobs blanket to track this activity.
19		The initial budget level is set at \$3.6 million
20		per year and appears reasonable relative to the
21		level of expenditures for accounts such as Public
22		Works and Distribution Station Equipment
22 23		Works and Distribution Station Equipment Failures. Ultimately, we recommend that future

584

Matter 15-00262

Staff T&D Capital Expenditures Panel

actual expenditures charged to the blanket
 account.

3 Q. Please describe the Accident blankets and your4 review.

5 Where nearly all roadways are lined with overhead Α. and underground facilities, the assets are 6 7 subject to damage by third parties from vehicular accidents or other incidents. The accident 8 9 program is set up to track charges associated 10 with the repair of these facilities. A historical review of this account showed that the 11 12 forecasted expenditures are approximately a third 13 of previous forecasts.

14 Q. What was the reason for this decline?

15 In certain cases, reimbursement of these costs Α. 16 may be obtained through the efforts of the claims 17 organizations. In recent years, the amounts collected from third parties were not posted 18 directly to the accidents blanket. PSEG LI 19 20 currently post the reimbursements to the 21 accidents blanket. As a result, it has to 22 estimate potential credits and uses the 23 projection to offset the expenditures for this 24 program within the capital budget. This change

586

Matter 15-00262

Staff T&D Capital Expenditures Panel

1		in accounting methodology resulted in the
2		appearance of a large decrease in the current
3		request for funding.
4	Q.	Does the Panel support this new methodology?
5	Α.	Yes, any reimbursements by third parties for
6		accidents should be directly applied to this
7		blanket and forecasts should recognize this, as
8		proposed by PSEG LI.
9	Q.	Please describe the Multiple Interruptions
10		account.
11	Α.	The Multiple Interruption program addresses
12		pockets of customers which experience an above
13		average number of electrical interruptions each
14		year. The program is broken into five separate
15		sub-programs, which include (1) Multiple
16		Interruptions, (2) Momentary Interruption
17		Reductions, (3) Airport Industrial Park, (4)
18		Hauppauge Industrial Park, and (5) Targeted
19		Overhead Enhancements. In total, PSEG LI
20		requests \$4.84 million for rate year 2016,
21		\$8.54 million for rate year 2017, and
22		\$10.91 million for rate year 2018.
23	Q.	What is the result of the Panel's review of this
24		program?

Staff T&D Capital Expenditures Panel

1	Α.	The first sub-program, Multiple Interruptions,
2		has an unexpected increase, resulting in a total
3		budget of \$7.3 million in 2018 for this sub-
4		program. According to PJD Reference B30.1 the
5		historical spending average for years 2009-2013
6		is \$5.1 million. We believe this level is more
7		appropriate because PSEG LI was not able to
8		support the requested increase. Therefore, we
9		recommend funding of \$5.1 million be used for
10		2018, which results in a downward adjustment of
11		\$2.2 million.
12	Q.	Please describe the other programs included under
13		this account.
14	Α.	The other programs under this account include
15		work to install electromechanical timers to
16		reduce momentary interruptions, programs which
17		target specific high load areas like industrial
18		parks, and a program specifically aimed at
19		villages identified as experiencing widespread
20		reliability problems.
21	Q.	Does the Panel agree with the proposed funding
22		for these programs?
23	Α.	Yes. We noticed, however, that the Hauppauge
24		Industrial Area program has changed from being a

26

Staff T&D Capital Expenditures Panel

1		10 year improvement program designed to reduce
2		outages to more of an underground cable
3		replacement program for industrial parks.
4	Q.	Please elaborate.
5	Α.	PJD 30.4 states that 2012 represented the sixth
6		out of 10 years of funding commitments to improve
7		the area. Therefore, 2016 would represent the
8		final year of the program and funding should be
9		discontinued afterwards. IR DPS-CBP-446
10		requested justification for the 2017 and 2018
11		funding levels. PSEG LI's response to this IR
12		stated the goal of the 10 year program was
13		completed; however, aging cables were still in
14		need of replacement not only in the Hauppauge
15		Industrial Area, but in other areas, such as the
16		Heartland Industrial.
17	Q.	What does the Panel recommend?
18	A.	We recommend organizing this targeted cable
19		replacement work as a new blanket program to be
20		listed as a separate line item in the capital
21		budget. The program description should be
22		altered to explain that the purpose is the
23		general replacement of aging and deteriorated
24		cable within various industrial parks on Long

27

Staff T&D Capital Expenditures Panel

1		Island as opposed to work focused on reducing
2		higher than desired outage rates.
3	Q.	Please provide a brief description of the
4		Substation Reliability Enhancement Program.
5	Α.	The Substation Reliability Enhancement Program is
6		a blanket program consisting of twelve sub-
7		programs geared towards reducing the likelihood
8		of equipment failures. Examples of the sub-
9		programs include a program designed to extend the
10		life of certain transformers and a program to
11		replace tap changers.
12	Q.	What did the Panel find in its review of this
13		program?
14	Α.	We identified two large scale projects with
15		individual project costs of more than \$1 million
16		in the 2018 budget that should be categorized as
17		specific projects.
18	Q.	What are these projects?
19	Α.	The first project is the Substation Transformer
20		Replacement Program, which addresses aging
21		equipment and establishes parameters for
22		transformers to be replaced on a scheduled basis
23		prior to failure. The Substation Transformer
24		Replacement Program is funded at \$1.64 million

28

Staff T&D Capital Expenditures Panel

1 for 2018, which is significantly higher than a 2 majority of the funding for other sub-projects 3 within the Substation Reliability Enhancement Program. In response to IR DPS-CBP-303, PSEG LI 4 5 stated that the Substation Transformer Replacement Program "should have been categorized 6 7 as a specific project since it is estimated at greater than \$1 million." We agree with this 8 9 rationale and recommend that this program be re-10 categorized as a Specific Program. The second project is the Redesign and Rebuild Load Tap 11 12 Changers project, which is funded at 13 \$2.88 million for 2018. Similar to the 14 Substation Transformer Replacement Program, this 15 sub-program is significantly higher than a 16 majority of the funding for other sub-programs 17 within the Substation Reliability Enhancement Program because it is a single project that 18 exceeds the \$1 million threshold for what PSEG LI 19 20 considers a blanket project. 21 What is the Panel's recommendation for the Q. 22 Substation Reliability Enhancement Program. 23 We recommend that the Substation Transformer Α.

24 Replacement Program and the Redesign and Rebuild

1		Load Tap Changers project, \$4.52 million
2		combined, be removed from the Substation
3		Reliability Enhancement Program and be added to
4		the "specifics" portion of the budget.
5	Q.	How will this change impact the funding proposed
6		by PSEG LI for the Substation Reliability
7		Enhancement Program.
8	A.	As shown in PSEG LI's Exhibit CBP-2, the proposed
9		capital expenditures for the Substation
10		Reliability Enhancement Program are \$1.92 million
11		for year 2016, \$1.43 million for year 2017 and
12		\$6.93 million for year 2018. Relocating the two
13		mentioned projects would reduce the forecast for
14		2018 to \$2.4 million, which is more in line with
15		the other year's forecasts for projects within
16		this blanket program.
17	Q.	Please describe the Substation Control and
18		Protection Program and the discrepancies
19		identified.
20	Α.	The Substation Control and Protection Program is
21		a blanket program consisting of 18 sub-programs
22		geared towards improving Substation Control and
23		Protection equipment to reduce the likelihood of
24		equipment failures. As shown in Company Exhibit

Staff T&D Capital Expenditures Panel

1	CBP-2, PSEG LI proposes funding of \$4.64 million
2	for year 2016, \$4.30 million for year 2017, and
3	\$10.72 million for year 2018.

4 Q. What did the Panel find in its review of this 5 program?

6 According to PSEG LI's response to IR DPS-CBP-Α. 7 443, all sub-program costs were within the range of \$15,000 to \$595,340, except for the Relay 8 9 Upgrades to Microprocessor Program, which had 10 significantly higher funding in 2018 compared to any other sub-program. In response to IR DPS-11 12 CBP-443, PGEG LI states, "[t]he 2018 proposed 13 budget contains a \$7 million entry for a Relay 14 Upgrades to Microprocessor Program. This is a 15 placeholder for additional relay upgrades." We 16 determined that five other Microprocessor Relay 17 Upgrade projects were budgeted for in 2018 under the same PJD B32.15 as the Relay Upgrades to 18 Microprocessor Program placeholder. The average 19 20 budget for these five projects was \$200,000. 21 Is this placeholder of concern? Ο.

A. Yes. There is no clear reason why this
placeholder funding is needed given that other
similar projects are funded under the same

1		blanket program. We believe that if blanket
2		funds are more than doubled due to a single
3		program, that program should be given its own
4		line in the budget to provide clear visibility as
5		to what the expenditures are. In addition,
6		because this account has so many sub-components,
7		it is important to maintain the historic
8		integrity of the funding levels for future
9		budgeting purposes.
10	Q.	What is the Panel's recommendation for the
11		Substation Control and Protection Program?
12	Α.	Due to the fact that this blanket account already
13		includes Control and Protection Relay Upgrades to
14		Microprocessor programs in 2018 and a lack of
15		support for the \$7 million placeholder, we
16		recommend that the Relay Upgrades to
17		Microprocessor Program cost of \$7 million be
18		removed from the Substation Control and
19		Protection Program budget, resulting in a
20		downward adjustment of \$7 million for year 2018.
21	Q.	How will this change impact the proposed funding
22		for the Substation Control and Protection
23		Program?
24	Α.	Removing the Relay Upgrades to Microprocessor

593

Matter 15-00262

1		Program placeholder would reduce the budget for
2		2018 to \$3.72 million, which is more in line with
3		the other year's forecasts.
4	Q.	What information was provided that impacted the
5		review of the Distribution Automation program?
6	Α.	In response to IR DPS-CBP-0372, PSEG LI removed
7		all funding associated with this program. As a
8		result, we have reflected this reduction by PSEG-
9		LI in Exhibit(CEP-2).
10	Spec	ific Accounts Forecasts
11	Q.	How did you typically review projects with major
12		spending forecasts?
13	Α.	We review projects with major spending forecasts
14		in multiple ways. First, we review any
15		overarching program that drives a project or
16		several projects. Next, we review the individual
17		projects to determine how it fits in with the
18		overarching program and if the costs estimates
19		are reasonable. For projects that are not
20		related to an overarching program we evaluate the
21		need, timing and cost for the project on a case-
22		specific basis.
23	Q.	Are there times when individual projects under a

24 program may not be fully developed?

Staff T&D Capital Expenditures Panel

1	Α.	Yes, we expect projects in the future years to be
2		less developed than work being performed in 2016.
3		Placeholders would allow appropriate funding to
4		be set while allowing time to fully develop the
5		scope and prioritization of the project.
6	Q.	Did PSEG LI have any placeholders?
7	A.	Yes, PSEG LI utilized a placeholder for the
8		Conversion and Reinforcement and New Exits
9		Program. This program was individually valued at
10		greater than \$1 million. The overall budget was
11		based on an expenditure level of \$20.10 million
12		in 2015; \$3.6 million of which was allocated to a
13		blanket account. As part of PSEG LI's filing,
14		they identified two projects that are chargeable
15		against this placeholder account. These projects
16		are the Mitchell Gardens new exit feeder with a
17		budget of \$3.64 million in 2016 and the Bayport -
18		New feeder, Serota, projects with a budget of
19		\$2.15 million in 2016 and \$2.16 million in 2017.
20		As a result, the placeholder account forecasts
21		\$10.80 million in 2016, \$14.44 million in 2017,
22		and \$16.60 million in 2018.
23	Q.	What is the Panel's view of this placeholder?
24	Α.	While the overall spending level seems

34

1	appropriate based on historic spending, more
2	detail related to work activities to be
3	undertaken is necessary to ensure these costs are
4	adequate, particularly for work to be performed
5	in 2016.

Q. Please describe the challenges you faced when
reviewing the proposed capital budget for the
specific accounts.

9 Α. Although PSEG LI's testimony described a few 10 projects, the filing, including its work papers, contained little detailed scope and support for 11 12 the proposed expenditures for most of the larger 13 T&D projects and programs being contemplated. 14 This information is necessary for proper review 15 of PSEG LI plans and is vital to the Department's 16 mission which is to provide New York rate payers 17 with safe, reliable electric service at just and reasonable rates. 18

19 Q. What were you able to determine, given these20 challenges?

A. Information contained in the PJDs and responses
to some IRs, allowed us to verify that PSEG LI
had determined the need for several projects and
had considered various alternatives to the

596

Staff T&D Capital Expenditures Panel

1		recommended projects. Some examples include the
2		Shelter Island substation and work related to
3		Fire Island substation.
4	Q.	Please describe the Shelter Island project.
5	Α.	PSEG LI is seeking to construct a substation to
6		better serve the customers on Shelter Island,
7		following an initial cable failure and
8		unsuccessful attempt to replace the underwater
9		cable with a new submersible cable. PSEG LI
10		included a project cost of \$25.4 million for 2016
11		in Exhibit CBP-2, which was later modified to
12		\$10.5 million in 2016 and \$6.9 million in 2017.
13		These revised numbers do not reflect loadings for
14		A&G and Pension/OPEB.
15	Q.	Are you satisfied with the need and timing of the
16		projects?
17	A.	Yes. We are satisfied with the need for the
18		proposed project because the substation will
19		connect to an existing transmission line and
20		restore PSEG LI's ability to serve customers if
21		loss of service on an existing cable occurs.
22	Q.	Please describe the Fire Island Upgrades.
23	A.	PSEG LI proposes five projects to solve three
24		problems or contingencies on Fire Island that

36

Staff T&D Capital Expenditures Panel

1		would restrict the system's ability to transfer
2		load between substations on Fire Island if the
3		loss of certain transmission lines occur. These
4		projects, shown on PSEG LI's Exhibit CBP-2 are:
5		1) Captree-Robert Moses Trans Cable Circuit 23-
6		738, 2) Ocean Beach-Fire Island Pines
7		Transmission Cable Life extension & N-1-1,
8		3)Ocean Beach Fair Harbor & Robert Moses-Fair
9		Harbor Cables 23-749 & 23-742, 4) Bayport-Fire
10		Island Pines and Other Circuits Splices
11		Improvements, and 5) Fire Island-Brightwater-
12		Captree Upgrade OH 23-747 Transmission Supply.
13		Together, the proposed capital expenditures for
14		these projects are \$18.3 million in 2016,
15		\$20 million in 2017, and \$13 million in 2018.
16	Q.	Are you satisfied with the need and timing of the
17		projects?
18	Α.	Yes. In PSEG LI's response to DPS-CBP-0335, it
19		provided a matrix to show the interrelationship
20		between the projects and the contingencies they
21		would solve. Four projects will help solve two
22		immediate contingencies and one project, the Fire
23		Island-Brightwater-Captree Upgrade, will help
24		solve a contingency in 2024. While delaying the

37

Staff T&D Capital Expenditures Panel

1		Fire Island -Brightwater-Captree Upgrade is
2		possible, it is also reasonable to have this
3		project completed in 2018, as proposed, because
4		in addition to helping to solve the contingency
5		in 2024 it will help improve the reliability of
6		the area once the upgrade comes into service.
7	Q.	Has PSEG LI evaluated the use of REV type
8		solutions, or Non-wires alternatives to the Fire
9		Island Upgrades?
10	Α.	Yes. In its response to DPS-CBP-0335, PSEG LI
11		states that:
12		The necessary load relief required for
13		alleviating these risks through utilizing a
14		REV like project would require a range of 2
15		- 6.5 MW load relief at each of a multiple
16		number of Fire Island substations. This
17		REV type of solution was not considered
18		practical due to the varying amount of load
19		relief that must be combined with the
20		number of locations requiring relief in
21		order to effectively address all the
22		contingencies.
23		We believe that this explanation is reasonable
24		given that the overarching project is very

38

Staff T&D Capital Expenditures Panel

complicated and is geared to solve multiple
 contingencies.

3 Q. What are the capital expenditures for the Fire4 Island Upgrade projects?

5 In response to IR DPS-CBP-0372, PSEG LI increased Α. 6 the proposed spending on the Ocean Beach-Fire Island Pines Transmission Cable Life extension & 7 N-1-1 project in 2016 and reduced it in 2017 by 8 9 an equivalent amount. The new proposed capital 10 expenditures, without loadings for A&G and pension/OPEB, for the five projects are: 11 12 \$19.9 million in 2016, \$18.4 million in 2017, and 13 \$13 million in 2018, for a total of \$51.3 million 14 over the three rate years.

Q. Please describe the Ruland-Plainview New
Transmission Circuit and the Old Bethpage
substation projects.

A. PSEG LI Capital Budget Panel, at page 26, stated
that the Plainview to Ruland Road - New 69 kV
Transmission Line is needed because the existing
69 kV circuit between the Ruland Road and
Plainview substation experiences post contingency
overloads for the loss of the Syosset Breaker 630
or for the loss of Syosset to Woodbury 69 kV

600

transmission line. The Panel also claimed that 1 2 several major load additions totaling about 3 30 MVA are proposed for the Plainview area in the next 2 to 5 years and this would further 4 5 exacerbate the loading on the existing Ruland to Plainview 69 kV line. Consequently, the Panel 6 7 opined that a new Old Bethpage substation could be required. This new substation would be fed by 8 9 tapping into to the new Plainview to Ruland Road 10 mentioned above.

11 Q. Discuss your assessment of the need and timing 12 for the Ruland-Plainview New Transmission Circuit 13 project.

14 Our review of the PJD S1.1 indicates that a Α. 15 contingency that causes the existing Ruland to 16 Plainview 69 kV line to overload could require 17 shedding approximately 18 MVA of load during peak 18 usage hours. To solve this problem, it is reasonable to build the proposed 69 kV 19 20 transmission circuit between Ruland and 21 Plainview, which would improve reliability in the 22 area and also serve a new Old Bethpage substation 23 if or when it is built. We note, however, at the 24 Technical Conference on March 3, 2015, PSEG LI

601

Matter 15-00262

```
40
```

1 indicated that it intends to issue a Request for 2 Information, or RFI, to seek approximately 20 MW of capacity relief through REV type projects, 3 which could defer this project. This was 4 5 confirmed in response to IR DPS-CBP-0372 where it indicated that the project is currently on hold. 6 7 Ο. What do you recommend for the Ruland-Plainview 8 New Transmission Circuit project? 9 Α. Given the importance of this project, if a 10 favorable outcome is not obtained from the proposed RFI to defer this project, we recommend 11 12 that PSEG LI proceed with construction of the new 13 Ruland-Plainview 69 kV transmission circuit. The 14 recommended cost treatment for this project is 15 discussed in the Staff Energy Efficiency and REV 16 Panel testimony. This project is one of the five load pocket projects discussed in that testimony. 17 18 Q. Discuss your assessment of the need and timing 19 for the Old Bethpage substation project. 20 Α. We do not recommend that PSEG LI proceed with the 21 construction of the Old Bethpage substation at 22 this time. According to its response to IR DPS-23 CBP-0420, acquiring suitable land for the 24 substation is still in progress. In addition,

602

Matter 15-00262

1		need for the substation is dependent on future
2		load additions which have been contemplated for
3		years, but have so far failed to materialize as
4		evidenced in PSEG LI response to DPS-CBP-0420.
5		Moreover, the substation is contingent upon the
6		construction of the new Plainview to Ruland Road
7		69 kV transmission line which is currently on
8		hold pending the outcome of an RFI, as we
9		discussed above.
10	Q.	What capital expenditures do you recommend for
11		the Old Bethpage substation project?
12	Α.	We recommend that PSEG LI's proposed capital
13		expenditures of \$300,000 in 2016 and \$2.4 million
14		in 2017 be approved to facilitate purchase of
15		land and engineering for a potential future
16		substation. We further recommend that the 2018
17		proposed budget be reduced by \$13 million, given
18		the uncertainty surrounding this project. Should
19		the situation develop where the substation needs
20		to be built, PSEG LI should re-prioritize its
21		2018 budget to accommodate this project.
22	Q.	Has PSEG LI identified any project that is needed
23		to meet North American Electric Reliability
24		Corporation, or NERC, Bulk Electric System

603

Matter 15-00262

1		reliability requirements?
2	Α.	Yes, PSEG LI has identified two capital projects;
3		the East Garden City to Valley Stream and the
4		Syosset to Shore Road projects to address N-1-1
5		criteria violations.
6	Q.	What is an N-1-1 violation?
7	Α.	An N-1-1 violation occurs when specific
8		performance criteria required under NERC's
9		Transmission Planning are not met after a Bulk
10		Electric System, or BES, transmission element
11		fails, system adjustments are made, and loss of
12		another BES element occurs. Simply put, the BES
13		should be able to withstand loss to two major
14		transmission elements without negatively
15		impacting reliability.
16	Q.	Please describe the East Garden City to Valley
17		Stream 138 kV project.
18	Α.	PSEG LI Capital Budget Panel, at pages 32-33,
19		states that based on internal studies of the
20		Barrett area, N-1-1 criteria violations are
21		observed on the existing East Garden City to
22		Valley Stream 138 kV circuit 138-262 for loss of
23		Barrett to Valley Stream 138 kV circuit 138-291
24		followed by loss of Barrett to Valley Stream

43

1 138 kV circuit 138-292.

2 The Capital Budget Panel further noted that a second N-1-1 criteria violation is observed on 3 the existing East Garden City to Valley Stream 4 5 138 kV circuit 138-262 for loss of one Barrett steam generating unit followed by loss of 6 7 Freeport to Newbridge Road 138 kV circuit 138-The Panel states that the addition of a new 8 461. 9 138 kV circuit from East Garden City to Valley 10 Stream substations will eliminate all N-1-1 11 violations in the Barrett area and also provide 12 flexibility for uncertainties in system load growth and impact from generation/renewable RFPs. 13 According to PJD S49.1, the need date for this 14 15 project is 2020 in order to be in strict 16 compliance with NERC's requirements. What is your assessment of the need and timing of 17 Q. 18 the East Garden City to Valley Stream 138 kV 19 project? 20 Α. Based on our review of PJD S49.1 and responses to 21 IRs DPS-CBP-0247, DPS-CBP-0425, and DPS-CBP-0426 22 we agree with the need assessment and timing 23 proposed by PSEG LI. 24 As indicated in response to IR DPS-CBP-0426, PSEG

605

1 LI plans to issue a Request for Proposal to 2 solicit REV solutions in the area. PSEG LI also 3 noted that load relief in the range of 100 MW to 4 200 MW would be needed in order to defer this 5 project.

Given the long lead time necessary for a project 6 7 of this magnitude and the fact that compliance 8 with NERC's requirements is needed by 2020, PSEG 9 LI must make a timely decision based on the 10 responses to the RFP on whether to defer the project, use a combination of load relief and 11 12 possibly other smaller capital projects or to go 13 with this project in order to be in compliance with NERC's requirements by 2020. The 14 15 recommended cost treatment for this project is 16 discussed in the Staff Energy Efficiency and REV 17 Panel testimony.

18 Q. Please describe the Syosset to Shore Road 138 kV19 project.

A. PSEG LI's Capital Budget Panel, at page 32,
states that based on internal studies of the
Glenwood area, N-1-1 criteria violations are
observed on the existing East Garden City to
Carle Place circuit for loss of transmission line

606

Matter 15-00262

```
45
```

1		Y50 followed by loss of Glenwood GT - Glenwood
2		North Bus circuit. There are also other N-1-1
3		combinations involving loss of Y50 that result in
4		criteria violations. The Panel states that
5		addition of a new 138 kV circuit from Syosset to
6		Shore Road substations will eliminate all N-1-1
7		violations in the Glenwood area. According to
8		response to IR DPS-CBP-0428, the need date for
9		this project is 2020 absent REV type solutions to
10		provide about 100 MW to 200 MW load relief.
11	Q.	What is your assessment of the need and timing of
12		the Syosset to Shore Road 138 kV project?
13	Α.	Based on our review of PJD S50.1 and responses to
14		IRs DPS-CBP-0246 and DPS-CBP-0428 we agree with
15		PSEG LI's assessment on the need for this
16		project. However, as noted in response to IR
17		DPS-CBP-0428, this project is not driven by a
18		generator contingency followed by another single
19		contingency. If this were the case, a solution
20		would have had to be in place by 2020 in order to
21		be in strict compliance with NERC's requirements.
22		Since there is no strict due date for this
23		project, there is more time to analyze and decide
24		if there are viable REV alternatives to this

46

Matter 15-00262

1 project.

2 It its response to IR DPS-CBP-0428, PSEG LI 3 stated that it plans to issue a Request for Proposal to solicit REV solutions in the area. 4 А 5 decision on the timing of the project will be based on the outcome of the RFP combined with the 6 7 reliability and cost effectiveness of the potential REV solutions. We recommend that PSEG 8 9 LI's proposal on evaluating the outcome of the 10 RFP be accepted. The recommended cost treatment for the Syosset to Shore Road project is also 11 12 discussed in the Staff Energy Efficiency and REV 13 Panel testimony.

14 Q. Please provide a brief description of the System
15 Operation Control Room Modification/Upgrade
16 project.

17 PSEG LI proposed to replace the existing control Α. room in Hicksville with a new Primary Control 18 Center. It claimed that the big board in the 19 20 existing control room is grossly undersized to 21 operate the system in a safe and efficient manner. The new control room would add new 22 23 technology such as video display walls, situational displays and video charts. In 24

608

1		addition, the new control room would improve the
2		system operator's ability to quickly identify
3		lines and equipment during emergency situations
4		and help to minimize the chance of switching
5		errors, which could lead to financial penalties
6		as explained in the response to IR DPS-CBP-0348.
7		PSEG LI further proposed that the project be
8		completed in two phases. The first phase would
9		hire a design contractor and the second phase
10		would involve construction and commissioning
11		activities based upon the contractor's
12		recommendations.
13	Q.	What level of capital expenditure does the PSEG
14		LI propose for the System Operation Control Room
15		Modification/Upgrade project?
16	Α.	In Exhibit CBP-2, PESG-LI proposes to spend
17		\$5 million in 2016, \$25 million in 2017, and
18		\$20 million in 2018. However, in its response to
19		DPS-CBP-0372, these costs were significantly
20		reduced to approximately \$5 million in 2017 and
21		\$10 million in 2018, without loadings for A&G and
22		pension/OPEB.
23	Q.	What is your assessment of the need for the new

Matter 15-00262

24

609

48

System Operation Control Room?

1 Α. Based on our review of PJD S48.1 and responses to 2 IRs DPS-CBP-0348, DPS-CBP-0349, and DPS-CBP-0349 3 Supplemental, we agree with the reasons provided by PSEG LI for a new control room. Staff of the 4 5 Department also visited the control room to visually inspect and verify that the existing big 6 7 board lacks space to accommodate addition of new transmission elements on the board. Staff also 8 9 verified that the current control room cannot 10 accommodate a larger board. As a result, we are satisfied that a new control room should be built 11 12 at another site.

Q. What is your assessment of the timing for the newSystem Operation Control Room?

15 The timing for the new System Operation Control Α. 16 Room cannot be determined at present. No site 17 for the new control room has been identified so far. Furthermore, in its response to DPS-CBP-18 19 0349 PSEG LI stated that the first phase of the 20 study to firm up project details, timing and 21 costs, has not yet been approved to proceed by 22 the Utility Review Board for 2015.

Q. What level of capital expenditures do yourecommend for the new System Operation Control

610

Matter 15-00262

1	Room?

2	Α.	Given the importance of this project, we believe
3		that some funding must be allowed even though the
4		timing cannot be established at present. We also
5		believe that the levels proposed by PSEG LI in
6		its response to DPS-CBP-372 are reasonable.
7		Therefore, we recommend PSEG LI be allowed
8		\$5 million in 2017 and \$10 million in 2018.
9		These numbers do not reflect loadings for A&G and
10		Pension/OPEB.

11 **T&D Capital Budget Recommendations**

12 Q. Given the difficulties expressed in verifying 13 that the costs are reasonable, how does the Panel 14 recommend the three-year budget be set? 15 We recommend using a macro level approach to Α. 16 setting the capital budget, as opposed to our 17 individual project adjustments. We believe this approach is appropriate because our review found 18 that the projects identified have merit and are 19 20 being implemented at a reasonable time. 21 Would the Panel please walk us through how your Q. 22 recommended budget was determined?

A. Yes. We started with the budget filed in PSEGLI's Exhibit CBP-2. We then recognized the

Matter 15-00262 Staff T

Staff T&D Capital Expenditures Panel

1		budget adjustments filed in IR DPS-CBP-0372 that
2		were not associated with A&G and Pension/OPEB, as
3		previously discussed. Blanket accounts were
4		further reduced by our recommend project
5		adjustments. A summary of the recommended budget
6		for blankets is provided in Exhibit(CEP-2).
7		For specific projects we did not make individual
8		project adjustments other than to remove
9		\$13 million of the proposed cost for 2018
10		associated with the Old Bethpage substation
11		project.
12	Q.	What was the result?
13	Α.	Using our approach, we recommend total capital
14		budgets of approximately \$314 million,
15		\$289 million, and \$304 million for 2016-2018,
16		respectively. This equates to total negative
17		adjustments of \$36.4 million, \$81.9 million, and
18		\$66.7 million for 2016-2018, respectively, when
19		compared to the original budget levels in PSEG
20		LI's Exhibit CBP-2.
21	Q.	Why does the Panel believe this is fair?
22	A.	The levels set are in line with historical
23		budgets and actual investment levels provided in
24		IRs DPS-Preliminary-0048 Supplemental and DPS-

51
Matter 15-00262

- 1 CBP-0448 after removing projects reimbursed by
- 2 FEMA from 2014.
- 3 Q. Does this conclude your testimony at this time?
- 4 A. Yes, it does.

JUDGE VAN ORT: What are we up to next? 1 2 JUDGE PHILLIPS: Customer Service, I think. 3 MR. MAZZA: Yes. Thank you, Your Honor. I would like to submit the testimony and exhibits of the Staff Customer Service 4 5 Panel via affidavit. The panel consists of Irene Luft and 6 Daniel Malesardi. The documents consist of prepared testimony 7 consisting of 23 pages plus a title page and prepared exhibits 8 including Exhibit SCSP-1 consisting of 233 pages, Exhibit SCSP-2 9 consisting of one page, Exhibit SCSP-3 consisting of three 10 pages, Exhibit SCSP-4 consisting of one page and Exhibit SCSP-5 11 consisting of one page plus the cover page and indexes. This 12 was pre-filed on May 14, 2015 (handing). JUDGE PHILLIPS: The affidavit provided for the Staff 13 14 Customer Service Panel has been marked for identification as 15 Exhibit 118. On that basis, we will ask that the court reporter 16 copy into the record as though orally given the Staff Customer 17 Service Panel testimony consisting of 23 pages plus a title 18 page. 19 20 21 22 23 24 25

BEFORE THE STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

In the Matter of a

THREE-YEAR RATE PROPOSAL FOR ELECTRIC RATES AND CHARGES SUBMITTED BY THE LONG ISLAND POWER AUTHORITY AND SERVICE PROVIDER, PSEG LONG ISLAND LLC.

Matter Number 15-00262

May 2015

Prepared Testimony of Staff Customer Service Panel:

Irene Luft Utility Consumer Assistance Specialist 4 Office of Consumer Services

Daniel Malesardi Utility Consumer Program Specialist 3 Office of Consumer Services

State of New York Department of Public Service 125 East Bethpage Road Plainview, New York 11803

- Q. Please state your names, employer, and business
 address.
- A. My name is Irene Luft and my co-panel member is
 Daniel Malesardi. I am employed by the New York
 State Department of Public Service, the
 Department. My business address is 125 East
 Bethpage Road, Plainview, NY 11803.

8 Q. What is your position at the Department?

- 9 A. I am employed as a Utility Consumer Assistance
 10 Specialist 4 in the Office of Consumer Services.
 11 Q. Please describe your educational background and
 12 professional experience.
- 13 Α. I hold a Bachelor's Degree in Electronics and 14 Communications Engineering from the University 15 of Santo Tomas. I joined the Office of Consumer 16 Services, OCS, for the Department in 2001 as a 17 Utility Consumer Assistance Specialist. I was 18 responsible for responding to and processing utility consumer issues. In 2003, I worked in 19 20 the Analysis Section of OCS investigating 21 various customer complaints. I also worked as a 22 Call Center Supervisor in the same office. In 23 2007, I was promoted to manager of the Call 24 Center in the Office of Consumer Services in NYC

1 where my responsibilities included supervising 2 the call center team leaders as well as call 3 center representatives. As manager, I was responsible for developing, updating, and 4 5 maintaining training materials for staff; resolving complex customer concerns; and 6 7 monitoring staff for quality assurance and 8 training purposes. In June 2013, I was promoted 9 to my current title as a Utility Consumer 10 Assistance Specialist 4 and subsequently moved to the Department of Public Service - Long 11 12 Island, or DPS-LI, in January 2014. My current 13 responsibilities include supervising the 14 Informal Hearing and Outreach and Education 15 Units of the Office of Consumer Services at DPS-16 LI. In order to ensure customer protections and 17 resolve customer complaints, OCS reviews and 18 males recommendations changes to Long Island Power Authority, LIPA or the Authority, and PSEG 19 20 Long Island LLC., PSEG LI or the Company's, 21 Outreach and Education Plans as well as their 22 Low Income Customers Programs and their 23 Emergency Storm Response Plan as it relates to 24 customer service. As a tool to fulfill its

1		responsibilities, OCS conducts outreach to
2		inform the public of its electric utility
3		service oversight in Long Island.
4	Q.	Have you previously testified in any utility
5		rate making proceeding?
6	Α.	No, I have not.
7	Q.	Mr. Malesardi please state your employer, and
8		business address.
9	Α.	I am also employed by the Department, and my
10		business address is 125 East Bethpage Road,
11		Plainview, NY 11803.
12	Q.	What is your position at the Department?
13	Α.	I am employed as a Utility Consumer Program
14		Specialist 3 in the Office of Consumer Services.
15	Q.	Please describe your educational background and
16		professional experience.
17	Α.	I hold a Bachelor's Degree in Political Science
18		from Sacred Heart University. In 2007, I began
19		my career working as a Legislative Assistant to
20		NYS Senator Craig Johnson. My responsibilities
21		in this position focused on constituent and
22		community relations, helping citizens challenged
23		by medical expenses, workplace and housing
24		discrimination, veteran's benefits, and other

societal issues. I also established an outreach 1 2 program. The program focused on creating working 3 relationships with local community organizations. In 2011, I was hired as 4 5 Assistant to the Supervisor of the Town of North Hempstead. I served in the Office of Inter-6 7 Municipal Coordination, acting as lead liaison among various levels of government and Town 8 9 constituents to determine accountability for 10 public action. In April 2014, I was hired by 11 the Department to work at the DPS-LI office. 12 Ο. Please briefly describe your current 13 responsibilities with the Department. 14 Α. My current position focuses on the development 15 of the outreach and education program in the 16 Long Island Office. These programs focus on 17 initiatives including: energy efficiency, energy 18 cost management, and environmental awareness, as well as reviewing utility programs and 19 educational initiatives for consumers. 20 DPS-LT 21 implements grassroots outreach in the Long Island area for DPS-LI, as well as, LIPA and 22 23 PSEG LI programs, policies and initiatives. Ι am also responsible for issues relating to 24

619

Matter 15-00262 Staff Customer Service Panel 1 Energy Service Companies. 2 Q. Have you previously testified in a utility ratemaking proceeding? 3 No, I have not. 4 Α. 5 What is the scope of this Panel's testimony in Ο. 6 this proceeding? 7 Α. We will address PSEG LI's proposals regarding 8 full time employee increases, customer service 9 outreach budget, low income customer needs, and a new customer charge called the "Removal 10 11 Charge". 12 Q. Does the Panel have any exhibits? 13 Yes. We are sponsoring five exhibits. Α. Exhibit (SCSP-1) presents the Information 14 15 Requests we relied on as part of our testimony. 16 Exhibit (SCSP-2) shows Staff's worksheet on 17 the proposed budget for institutional advertising. Exhibit (SCSP-3) shows staff's 18 19 worksheet on Low Income programs. 20 Exhibit (SCSP-4) shows the enrollment between 21 HAR and HEAP. Exhibit (SCSP-5) shows the HEAP 22 enrollment by county. 23 Customer Service Full Time Employees 24 Please summarize PSEG LI's proposals regarding Ο.

1 the increases in the Full Time Employees, or 2 FTEs.

PSEG LI has forecast the need for additional 3 Α. 4 FTEs in its three year rate proposal. It has 5 proposed an additional five FTEs in 2016, five in 2017, and six in 2018. This is a total of 6 7 sixteen new FTEs over the three year rate plan, and would bring the FTE headcount from 724 to 8 740 in PSEG LI's entire Customer Service 9 10 Organization by 2018. PSEG LI has stated that this increase would keep it within an industry 11 12 top quartile benchmark range of 707-735 13 employees per million customers, and that the 14 new employees are needed to achieve the customer 15 service metrics targets established by the 16 Amended and Restated Operations Services 17 Agreement, or OSA. These metric targets have been benchmarked to ensure that PSEG LI meets 1st 18 quartile performance in JD Power Surveys by the 19 20 end of the fifth contract year in 2018. The end 21 result of encouraging PSEG LI's compliance with 22 the metrics is improved customer service for 23 LIPA and PSEG LI customers.

Please describe the purpose or functions of 24 0.

these additional employees as proposed by PSEG
 LI.

PSEG LI indicated in response to DPS-CSP-0198 3 Α. 4 that seven FTEs will be utilized in the Call 5 Center to support the achievement of the Average Speed of Answer (ASA) first quartile target of 6 7 26 seconds; two FTEs will be utilized to support 8 the back office billing work associated with AMI 9 implementation; four FTEs will be utilized for 10 the increase AMI metering workload; and three 11 FTEs will be utilized as Customer Experience 12 Analysts to support the achievement of the JD 13 Power Residential and Business Surveys first 14 quartile targets of 634 points and 654 points 15 respectively. See Exhibit (SCSP-1). 16 Do you support PSEG LI's request for the seven Ο. 17 FTEs in the Call Center?

18 A. Yes. PSEG LI justified the need for additional
19 seven FTEs in the Call Center; two in 2016, one
20 in 2017, and four in 2018.

- Q. How did Staff make this assessment to supportthe seven FTEs in the Call Center?
- A. The Company utilized modeling software thatincorporates Erlang Calculations to determine

1 staffing levels in the Call Center. The Erlang 2 Calculations are an industry accepted standard 3 for forecasting staffing levels in a call The model determined that PSEG LI will 4 center. 5 need 146 call center representatives (CSRs) in 2016, 150 CSRs in 2017, and 152 CSRs in 2018 to 6 7 achieve the metrics of an ASA of 26 seconds by 2018 as required in the OSA. PSEG LI currently 8 9 has 129 CSRs in the Call Center. PSEG LI's 10 request would allocate 131 CSRs in 2016, 132 CSRs in 2017, and 136 CSRs in 2018 instead of 11 12 the model's forecast. Due to staff increases 13 coupled with efficiency changes that PSEG LI continues to implement, PSEG LI believes the 14 15 request of an additional seven FTEs in the Call 16 Center is sufficient to meet its goal of an ASA 17 of 26 seconds by 2018. We do not see any reason 18 to dispute the model's results and in view of 19 the Company's efficiency projections, we support 20 PSEG LI's request for an additional seven FTEs 21 in the Call Center for the next three years. 22 Ο. Do you support PSEG LI's request for additional 23 three FTEs as Customer Experience Analysts; one 24 in 2017, and two in 2018?

8

1	Α.	Yes. We recognize the need for PSEG LI to meet
2		the OSA metrics as an indication of improved
3		customer service. Due to the complexity of the
4		information being provided by JD Power; we
5		concur with PSEG LI's need for the additional
6		three FTEs in this area to review and implement
7		results from the JD power surveys.
8	Q.	What are the JD Power Residential and Business
9		Surveys?
10	Α.	JD Power and Associates is a firm that conducts
11		surveys of customer satisfaction, product
12		quality, and buyer behavior for various
13		industries including utility companies. By
14		analyzing the many aspects of customer
15		experience, JD Power can identify the multiple
16		drivers of that experience, measure and
17		understand the impact of those drivers, and help
18		drive business results by monitoring and
19		improving performance. As indicated earlier,
20		PSEG LI must achieve scores on JD Power
21		Residential and Business Surveys of 634 and 654
22		points respectively in its first quartile
23		performance by the end of 2018 as an indication
24		of improved customer service.

1	Q.	Do you support PSEG LI's request for six
2		additional FTEs, two in Back Office Billing and
3		four in Metering Services, associated with AMI
4		implementation?
5	Α.	Staff's Energy Efficiency and REV Panel will
6		address this issue.
7	Q.	Do you have any recommendations regarding future
8		proposals for additional FTEs for PSEG LI's
9		Customer Service Organization?
10	Α.	Yes. PSEG LI justified the need for the 16
11		additional FTEs using a benchmarking study and
12		this study was cited numerous times as
13		justification to Staff. See Exhibit(SCSP-1).
14		However, the demographics information on the
15		participating utilities was kept strictly
16		confidential. Staff was unable to determine
17		whether the utilities used were comparable to
18		PSEG LI. Therefore, Staff could not fully
19		utilize the benchmarking study to justify the
20		need for additional FTEs. While Staff was able
21		to justify the new FTE's using the staffing
22		calculations described above, it would be
23		beneficial in the future to improve PSEG LI's
24		benchmarking efforts to clearly demonstrate

1		need. We recommend that PSEG LI develop
2		transparency as to the peer group utilized and
3		provide justification for future benchmarking
4		studies as they should directly relate to PSEG
5		LI operations and LIPA's service territory. PSEG
6		LI should, accordingly, conduct its own
7		benchmarking studies rather than leveraging
8		PSE&G's studies. This would then set the
9		parameters of the study squarely on PSEG LI.
10	Cust	omer Service Outreach Budget
11	Q.	Please summarize PSEG LI's proposals regarding
12		the additional programs outlined in its Customer
13		Service's Panel Testimony.
14	A.	PSEG LI estimates the need for an additional
15		\$2,100,000 for each rate year in addition to its
16		current budget of \$3,334,800 in support of
17		additional customer education materials and
18		notices programs. This is approximately a 63
19		percent increase in the spending level for the
20		program. PSEG LI states this is necessary to
21		meet the OSA JD Power Residential and Business
22		metrics and increase customer satisfaction
23		levels. PSEG LI's proposed additional outreach
24		budget increase of approximately \$2 Million

1		which is broken down into the following: \$2,859
2		for newsletters; \$2,250 for bill inserts; \$600
3		for brochures and flyers; \$510 for customer
4		rights pamphlets; \$40,225 for financial
5		assistance direct mail; \$1,350 for customer
6		rates pamphlets; \$739,000 for direct mail;
7		\$35,400 for email advertising; \$65,000 for
8		outreach events; \$878,000 for media; \$203,000
9		for educational videos; \$2,460 for tree
10		maintenance correspondence; \$7,500 in energy
11		efficiency advertising; \$1,350 for life support
12		and special protections correspondence; and
13		\$120,540 for storm communications.
14	Q.	What recommendations do you have regarding PSEG
15		LI's proposed increase in outreach budget?
16	Α.	We recommend the following negative adjustments:
17		-\$240,000 for six Marketing Campaigns, -\$550,000
18		for increased media outreach, -\$363,000 for one
19		direct mail to all customers, and -\$327,000 for
20		the proposed TV campaigns. Our total negative
21		adjustments equal \$1,480,000. See
22		Exhibit(SCSP-2).
23	Q.	Why are you recommending a negative adjustment

24 to PSEG LI's proposed outreach budget?

1	Α.	Staff recommends this adjustment because PSEG LI
2		has not justified the need for the full increase
3		nor has PSEG LI provided a clear illustration of
4		how this increase would be allocated towards
5		positively impacting outreach efforts beyond
6		funding more advertisements. Additionally, PSEG
7		LI stated in its response to DPS-CSP-0431, that
8		the entire increase in outreach budget is
9		allocated to educational, informational, and
10		promotional messaging. PSEG LI states that it
11		does not conduct institutional advertising or
12		create institutional materials. See
13		Exhibit(SCSP-1). However, in response to
14		DPS-CSP-0332, PSEG LI stated that it has spent a
15		total of \$373,131 in institutional advertising
16		regarding its first year performance. See
17		Exhibit(SCSP-1).

18 Q. What is institutional advertising and what is 19 the Department's policy regarding institutional 20 and informational advertising?

A. Advertising expenses can be divided into two
categories: promotional which is intended to
stimulate the purchase of utility service and
institutional and informational which

628

1 encompasses all other advertising not clearly 2 intended to promote sales. Since, February 25, 3 1977, the Department has recognized that the costs for institutional advertising are a 4 5 legitimate expense of doing business. In order to allow other NY utilities the freedom to 6 7 advertise within their own discretion the 8 Department applies a policy recommending a 9 budgetary allocation of 1/25 to 1/10 of 1% of 10 the company's operating revenues in inverse 11 relationship to the size of the company, with 12 the percentage decreasing as the size of the 13 company increases. Because LIPA is among the 14 larger New York Utilities, Staff recommends that 15 PSEG LI allocate 1/25 of 1% of LIPA's revenue 16 which is \$1.5 million of its proposed outreach 17 budget to institutional advertising. 18 Ο. Do you have any other recommendations regarding 19 the Companies outreach and education plans? 20 Α. Staff recommends the Company take the lessons 21 learned from the 2014-2015 contract years, and 22 adjust its outreach program accordingly. Based 23 on input from the public and as evidenced by 24 PSEG LI's to-date outreach efforts on Long

629

1 Island, the interaction and communication with 2 customers is of paramount importance. As we have 3 seen in the communities of East Hampton, Port Washington, and East Garden City the existing 4 5 outreach plan can improve, and should be more community and project centric. The concerns of 6 7 customers in these communities stem from a 8 disconnect between project based outreach that 9 is done during a transmission project, and PSEG LI's day-to-day customer service outreach 10 efforts directed by their Consumer Services 11 12 Department. Communities are concerned that there 13 is insufficient communication regarding 14 infrastructure projects. It is important that 15 PSEG LI change this perception and we recommend 16 that it takes clear steps to address these 17 concerns. Staff recommends that PSEG LI develop 18 a more cohesive and comprehensive process where 19 the Consumer Services Department communicates 20 and works collaboratively on outreach.

21 Low Income Customer Needs

Q. Does PSEG LI currently have special programs for
income eligible or low income customers?
A. Yes. There are two income eligible programs;

630

1 the first is called the Residential Energy 2 Affordability Partnership, or REAP. REAP is a 3 program for income-eligible customers to help them save energy and lower their electric bills. 4 5 In this program, eligible customers may receive energy saving measures at no cost. The second 6 7 is called the Household Assistance Rate or HAR. 8 HAR includes a daily reduction of \$0.181 from 9 the Customer Service Charge of \$0.36 per day for both heating and non-heating residential 10 11 customers. This is essentially a reduction of 12 50% of the Customer Service Charge. To be 13 qualified for HAR, a customer must have received 14 one or more benefits from among a number of 15 social services programs for the past 12 months. 16 These programs include: Home Energy Assistance 17 Program (HEAP); Medicaid; Food Stamps; Temporary 18 Assistance for Needy Families or Safety Net 19 Assistance Administered by the Nassau or Suffolk 20 County Department of Social Services or the New 21 York City Department of Human Resources 22 Administration; United States Social Security 23 Administration Supplemental Security Income; 24 United States Veterans Administration Veteran's

631

1		Disability Assistance or Veteran's Surviving
2		Spouse Pension; or New York State Child Health
3		Plus Health Insurance Program. In 2014, there
4		was an average active enrollment of
5		approximately 15,300 customers in HAR, see
6		Exhibit(SCSP-5). There is also a cap
7		identified in LIPA's tariff of 50,000 customers
8		who can be enrolled in HAR.
9	Q.	Does PSEG LI propose to continue HAR Program?
10	A.	Yes, PSEG LI proposes to continue the HAR
11		program and increase the funding level to
12		insulate income eligible customers from the
13		effects of the proposed rate increase. PSEG LI
14		is also proposing two discount classifications;
15		one is a \$0.32 per day reduction in Customer
16		Service Charge for non-heating customers and the
17		other is a \$0.49 per day reduction in Customer
18		Service Charge for heating customers. These
19		discount classifications are in addition to its
20		current program where a low income residential
21		customer receives a \$0.181 reduction in the
22		Customer Service Charge whether the customer is
23		a non-heating or heating customer. The discounts
24		will remain the same for 2016, 2017, and 2018

despite the proposed increases in Customer
Service Charge of \$0.50 per day, \$0.58 per day,
and \$0.66 per day for 2016, 2017, and 2018,
respectively. This means that low income non-
heating customers will pay a customer charge of
\$0.18 per day in 2016, \$0.26 per day in 2017 and
\$0.34 per day in 2018, and low income heating
customers will pay \$0.01 per day in 2016, \$0.09
per day in 2017, and \$0.17 per day in 2018.
See Exhibit(SCSP-3).
What is Staff's recommendation as it relates to
PSEG LI'S proposal to increase the Customer
Service Charge in 2016, 2017, and 2018?
The Staffs Rates Panel recommends maintaining
the Customer Service Charge at its current level
and keeping it at \$0.36 per day for the next
three years.
If the Customer Service Charge does not
increase, what are your recommendations
regarding the proposals to assist the income
eligible program customers?
We recommend continuing the daily reduction of
\$0.181 from the Customer Service Charge for
income eligible customers to maintain the

1 financial protections afforded to these 2 customers at current rates. We also support PSEG LI's proposal to afford residential 3 customers who use electricity to heat their 4 5 homes an additional bill discount on their monthly electricity bills. This practice is 6 7 consistent with the other utilities in New York 8 State because electric heating bills are 9 generally more expensive than any other electricity bills. An additional daily 10 reduction on the Customer Service charge will 11 12 provide further relief to customers who use 13 electric heating. Therefore, we recommend that 14 PSEG LI provide an additional discount to low 15 income electric heating customers of \$0.17 per 16 day from the Customer Service Charge. This 17 means that eligible low income non-heating 18 customers will have to pay a Customer Charge of 19 \$0.179 per day and eligible heating customers 20 will have to pay a Customer Service Charge of \$0.009 per day. These discounts are comparable 21 22 to PSEG LI's proposed discounts for heating and 23 non-heating customers with respect to rate year 24 2016 where it proposed non-heating customers and

634

1		heating customers to pay \$0.18 per day and \$0.01
2		per day respectively in Customer Service Charge.
3		We provided a comparison between our proposals
4		and PSEG LI's, see Exhibit(SCSP-3).
5	Q.	How does HAR enrollment compare to HEAP
6		enrollment?
7	Α.	According to the Office of Temporary and
8		Disability Assistance or OTDA, the data
9		outlining the number or level of HEAP benefits
10		authorized so far in January 2015 for Nassau and
11		Suffolk Counties was 61,475, see
12		Exhibit(SCSP-5), while the average HAR
13		enrollment in 2014 was 15,300. It, therefore,
14		appears that PSEG LI has only reached out to
15		only one-fourth of its low income customers.
16		Please refer to our comparison in
17		Exhibit(SCSP-4).
18	Q.	What types of outreach does PSEG LI do to inform
19		the public of its Low Income Programs?
20	Α.	PSEG LI, in response to IR DPS-CSP-0431, stated
21		that REAP is promoted at various events which
22		include home shows, street fairs, libraries, and
23		other community venues. In addition, PSEG LI
24		distributes REAP postcards to customers in zip

Matter 15-00262 Staff Customer Service Panel

1		codes with a higher low income population. In
2		2014, it attended 109 outreach events for the
3		REAP program. This shows that although PSEG LI
4		has an extensive low income outreach program
5		currently in place, its focus on these outreach
6		efforts is more effective with respect to the
7		REAP program than the HAR program.
8	Q.	What are Staff's recommendations regarding PSEG
9		LI's low income outreach initiatives?
10	Α.	To correct under-enrollment in the HAR Program,
11		we recommend adjusting PSEG LI's outreach
12		efforts to promote its HAR program to its low
13		income customers to mirror what it is already
14		accomplishing with its REAP program. To
15		accomplish this effort, PSEG LI should
16		reallocate part of its outreach funding to
17		promote the HAR program. We recommend that the
18		Company partner with the Nassau and Suffolk
19		Counties' Department of Social Services and the
20		New York City Human Resources Administration as
21		well as the Department of Veterans Affairs
22		Administration to be able to reach out to low
23		income households who may qualify in the
24		Company's Low Income Program. Through

637

1		partnerships with these agencies, PSEG LI can
2		boost enrollment in HAR by matching customer
3		records. PSEG LI should take on more grassroots
4		outreach efforts to reach out to communities
5		with low income residents and to be more visible
6		in these communities. As in the REAP outreach,
7		the Company should also mail HAR postcards to
8		raise awareness for customers to learn about and
9		understand the program.
10	Q.	Should there be a cap of 50,000 customers who
11		can be enrolled on the HAR Program?
12	Α.	No. Low income households in Long Island could
13		be as high as or exceed 61,475. Therefore, it
14		is not reasonable to create a threshold that
15		would potentially deny a low income customer who
16		may be eligible for HAR. It is our
17		recommendation that the cap of 50,000 should be
18		removed to accommodate all eligible low income
19		customers. Additionally, removing the cap will
20		align PSEG LI with the other utilities in New
21		York State where a cap does not exist.

22 Customer Removal Charge

23 Q. What new customer charge does PSEG LI propose?24 A. PSEG LI proposes to introduce a new Customer

1		Service Charge called a "Removal Charge." The
2		charge is a \$160 fee assessed when PSEG LI is
3		required to disconnect a customer for a second
4		time due to that customer's tampering with
5		LIPA's facilities or equipment. This fee is
6		assessed to customers who energize their
7		electrical service after PSEG LI disconnects
8		service.
9	Q.	What is PSEG LI's justification for the Removal
10		Charge?
11	Α.	PSEG LI believes that this proposed charge is a
12		way to deter the customers from tampering with
13		meters and electric service, as well as, reduce
14		the overall theft of electric service.
15	Q.	Does Staff support the Removal Charge?
16	Α.	No. LIPA's tariff already includes
17		investigation fees when theft of service is
18		found. Furthermore, PSEG LI and/or LIPA have
19		the option to go to litigation and prosecute
20		these cases to the full extent of the law.
21	Q.	Does this conclude your testimony?
22	Α.	Yes, at this time.

1	JUDGE PHILLIPS: Next we have a request from?
2	MR. RAGONETTI: This is Nassau County. I am David
3	Ragonetti. Thank you, Your Honor. This will be quick. Please
4	let the record show that I have an affidavit here of George
5	Maragos for the Prepared Testimony of George Maragos. The
6	document consists of six pages plus a title page, no exhibits.
7	May I approach.
8	JUDGE VAN ORT: Yes.
9	JUDGE PHILLIPS: Yes.
10	MR. RAGONETTI: (Handing) Thank you.
11	JUDGE PHILLIPS: The affidavit of Honorable George Maragos,
12	County Comptroller, serving as the basis for his testimony has
13	been marked as 119, Exhibit 119. On that basis, we ask the
14	court reporter to copy into the record as though given orally
15	his six pages plus title page of testimony that was submitted in
16	this matter. Thank you.
17	
18	
19	
20	
21	
22	
23	
24	
25	

Ragonetti, David

Ragonetti, David
Thursday, June 04, 2015 1:06 PM
Van Ort, David (DPS); Phillips, Michelle (DPS); dps.sm.Secretary
ServiceList@nrg.com; Sanghvi, Alpa; angela.schorr@directenergy.com;
afiore@dep.nyc.gov; bmiller@cullenanddykman.com; christopher@ippny.org;
Christopher.Wentlent@constellation.com; Leimone, Christopher;
ckudder@optonline.com; Ragonetti, David; Dfranco@Cullenanddykman.com;
county.attorney@suffolkcountyny.gov; ddaley@ibew1049.com; Hogan, Erin (DOS);
gconboy@caithnessenergy.com; Service.List@nrg.com; Collar, Gregg (DOS); Mazza,
Guy (DPS); hjr@readlaniado.com; jeffrey.levine@gdfsuezna.com;
jeffrey.greenblatt@pseg.com; Service.List@nrg.com;
comptroller@suffolkcountyny.gov; john.kennedy@suffolkcountyny.gov; Favreau, John
(DPS); joe.schroeder@suffolkcountyny.gov; jbell@lipower.org; kterry@justenergy.com;
KELLI.JOSEPH@nrg.com; KMaloney@cullenanddykman.com; krb@readlaniado.com;
kp@readlaniado.com; matthew.weissman@pseg.com; Zimmerman, Michael (DOS);
mpiasecki@couchwhite.com; schimelm@assembly.state.ny.us; Forst, Nicholas (DPS);
peter.fuller@nrgenergy.com; rachel@mecny.com; Caputo, Regina (DPS);
rcalica@rcblaw.com; robert.grassi@pseg.com; rloughney@couchwhite.com;
JGoodman@CouchWhite.com; sml@readlaniado.com; swilt@nrdc.org;
sklimberg@rmfpc.com; wemples@conedcss.com; thomas.bjurlof@outlook.com;
Ufogel@aol.com; Vstrauss@aea.us.org; Vaughn.McKoy@pseg.com; Brindley, Wayne
(DPS); WCMillerJr@ClearviewGroup.net; Leimone, Christopher; Sanghvi, Alpa
Matter No. 15-00262 - County of Nassau - Rebuttal Testimony of County Comptroller
George Maragos
Comptroller Rebuttal Testmony_06_04_15 FINAL.pdf

The Hons.,

Please find enclosed rebuttal testimony filing by Hon. George Maragos, County Comptroller, on behalf of the County of Nassau in the above-referenced matter. Please contact me with any questions or to discuss. Thank you.

Regards,

David A. Ragonetti Deputy County Attorney Office of the Nassau County Attorney T: 516-571-3931 F: 516-571-4080 dragonetti@nassaucountyny.gov

Sempre Avanti

Please consider the environment before printing this e-mail.

The information contained in this e-mail and any of its attachments is intended only for the use of the addressee(s) indicated above, and is confidential. This information may also be legally privileged. If you are not the intended recipient(s), you are hereby notified that any alteration, dissemination, review or use of the information contained herein is strictly prohibited. You may not copy, forward, disclose or use any part of this information. If you have received this information in error, please destroy it and all copies from your system(s) and notify the sender immediately by return e-mail.

BEFORE THE STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

MATTER NUMBER 15-00262

In the Matter of a Three-Year Rate Proposal for Electric Rates and Charges Submitted by the Long Island Power Authority and Service Provider, PSEG Long Island LLC.

Prepared testimony of Hon. George Maragos, County Comptroller Nassau County, New York June 4, 2015

Q. Please state your name and business address.

- A. My name is George Maragos. My business address is 240 Old Country Road, Suite 210, Mineola, New York 11501.
- Q. Mr. Maragos, do you represent any entity with an interest in these proceedings and, if so, whom do you represent?
- A. Yes. I am the elected Nassau County Comptroller, serving in this capacity since 2010. In my capacity as the Nassau County Comptroller, pursuant to the authority granted by that Office, I hereby submit my testimony on behalf of all of the interested ratepayers of Nassau County.

Q. Do you have professional experience relevant to the subject matter of this proceeding?

A. I have over 35 years of senior management experience with leading organizations in Banking, Consulting and Information Systems. I was president of my own technology firm for 20 years. Prior to that, I served as Vice President of Citicorp and the Director of Telecommunications for Treasury Systems. Prior to Citibank, I was a Vice President at Chase Manhattan Bank, holding various senior systems management positions responsible for planning and implementing the global electronic financial systems and the telecommunications networks that supported the global banking network. Earlier in my career I was also a consultant with Booz Allen and Hamilton and with Bell-Northern Research as manager of Communications Planning. Academically, I hold a Master's in Business Administration in Finance (1983) from Pace University in New York City, and a Bachelor of Electrical Engineering Degree (1973) from McGill University in Montreal.

Q. Have you previously testified in proceedings before the New York Department of Public Service ("DPS")?

- A. Yes. I provided statements on March 4, 2015 at the DPS Hearing in Mineola concerning the PSEG Long Island ("PSEG") and Long Island Power Authority ("LIPA") Summary of 2016-2018 Three Year Rate Plan ("Plan").
- Q. To the best of your knowledge, is there any portion of your March 4th testimony that LIPA, PSEG or any other Party to the Matter have failed to address?
- A. Yes, they have not responded to any of our issues. LIPA and PSEG has not responded to requests to provide documented evidence of initiatives taken; to improve productivity and reduce costs through technological innovations and better management practices, or to align expenditures with those of well-run comparable utilities with respect to overhead cost ratios, direct cost ratios, maintenance costs ratios, capital

investment ratios and other management performance measures. PSEG appears from the Plan to continue to perpetuate the old inefficient management practices and operating philosophies of LIPA; and PSEG continues to rely on low-tech improvements such as tree-trimming and the installation of environmentdestroying chemically-treated 80 foot poles.

- Q. Have you contacted LIPA, PSEG or any other Party to the Matter since March 4th in attempts to address these concerns?
- A. Yes.

Q. What was the nature of that contact?

A. On April 16, 2015, I met with Caisy L. Meyers, District Manager of External Affairs for PSEG and Robert G. Grassi, Esq., Associate General Regulatory Counsel for PSEG at the Comptroller's Office in Mineola to discuss my testimony on March 4th as well as to express my concerns with the proposed rate increase.

Q. What was discussed at that meeting?

A. I reiterated my concerns regarding cost-reduction and management practices outlined in my March 4th testimony. Mr. Grassi and Ms. Meyers represented that PSEG had, in fact, implemented numerous measures to reduce costs and make management more efficient. Mr. Grassi and Ms. Meyers indicated to me that they would provide my Office with documentation to support these initiatives and their budgetary impact.

Q. Was your Office provided this documentation?

A. No.

- Q. Did your Office perform any further analysis since your March 4th testimony?
- A. Yes.

Q. What additional analysis did your Office perform?

A. <u>First</u>, our Office reviewed a document which was filed on the NYS Department of Public Service Matter Document and Management System on May 1, 2015, entitled "Capital Budget Panel (Exhibit _____ CBP-3)". This document sets forth a budgeted line item of \$38.162 million for long-term ERP, a capital budget expense of LIPA. However, we believe that this ERP capital budget expense should be the responsibility of PSEG under its operating agreement with LIPA, to provide expertise, management tools and other solutions readily available to PSEG to provide best-in-class service. PSEG NJ should have such an ERP tool-set which should have been carried over to PSEG with minimal cost under the Operating Agreement.

<u>Second</u>, the Plan sets forth a Management Fee line item, under LIPA Operating Expenses, in the amount of \$73.4 million, which exceeds that of the prior year by \$28.0 million. We believe that the nearly \$74 million in Management Fees may be miscalculated and based on productivity incentives which have not been earned and may include up to \$20 million in duplicative senior management expenses.

Third, our Office has also reviewed the LIPA Comprehensive Annual Financial Report ending December 31, 2014 and 2013 ("CAFR"). Pursuant to Note 5 of the CAFR, Commodity Derivatives were listed with a positive fair market value of \$19.296 million, representing a gain of \$62.86 million over December 31, 2013. This translates into an average gain of \$53.8 million per year during the immediately preceding two years. However, it appears that no hedging benefits are being utilized in the Plan. Accordingly, rather than accumulating this off budget gain, we believe that about \$50 million should be utilized to help offset the proposed rate increase.

<u>Fourth</u>, we believe that reasonable productivity improvements over the prior LIPA management, which align operating ratios to well-run utilities, should have translated into at least 5% savings on the \$1.9 billion delivery charge Budget or \$95 million in reduced budgetary benefit.

Q. In summary, what is your recommendation concerning the PSEG proposed 2016-2018 three-year plan and rate increase?

A. As a result of the analysis conducted by my Office, which I have summarized here, it is my recommendation that the potential cost reduction measures and management efficiencies will result in \$215 million in expense reductions and revenue gains as follows: (1) \$38.2 million in ERP capital expenses, (2) \$28 million in Management Fee increase, (3) \$53.8 million in hedging gains and (4) \$95 million in productivity improvements.

When combined with the cost reduction opportunities as determined by the Department of Public Service of \$173.2 million, PSEG should not only be prevented from raising rates on residents by \$221 million or almost 4% annually over three years (as a function of delivery-only charges), but rather, should be able to maintain a zero increase in rates and potentially reduce rates if it takes full advantage of available opportunities as listed above.

Q. Does this conclude your testimony?

A. Yes it does.

JUDGE PHILLIPS: Let's go off the record. 1 2 (Whereupon, an off-the-record discussion was held.) JUDGE PHILLIPS: We will start with PSEG, go to New York 3 City, then go to LIPA and I will have you identify what we are 4 doing. I would like to ask if counsel for PSEG could please 5 6 describe the affidavits and testimony that will be entered next. 7 MR. WEISSMAN: Certainly, Your Honor. The first affidavit I have is front of me is on behalf of Mr. David Lyons and Martin 8 9 Shames. It is the Affidavit of Shared and Business Services Panel which was testimony filed on January 30th. It consists of 10 11 24 pages and two exhibits. Those exhibits are SSP-1, a two-page 12 document identified as Exhibit 65 and SSP-2, a single page exhibit which is Exhibit 66. I would offer that testimony into 13 14 the record via affidavit (handing). 15 JUDGE PHILLIPS: The affidavit of the Shared and Business Services Panel have been marked for identification as Exhibit 16 17 120. On that basis, we request that their testimony filed on 18 January 30, 2015 as been previously described be copied into the 19 record as though orally given. 20 21 22 23 24 25
BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-____

DIRECT PRE-FILED TESTIMONY OF THE SHARED AND BUSINESS SERVICES PANEL

Date: January 30, 2015

TABLE OF CONTENTS

I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY	1
II.	PURPOSE OF TESTIMONY	2
III.	OVERVIEW OF BUSINESS SERVICES AND THE SHARED SERVICES FRAMEWORK	4
IV.	BUSINESS SERVICES BUDGETED COSTS	10

1 I. WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY

Q. Please state the names of the members of this Shared And Business Services Banel (the "Panel").

- 4 A. We are David C. Lyons and Martin Shames.
- 5 Q. Mr. Lyons, please state your name and business address.
- 6 A. My name is David C. Lyons. I am employed by PSEG Services Corporation ("PSEG
- 7 Services"). My business address is 80 Park Plaza, Newark, New Jersey 07801.

8 Q. In what capacity are you employed by PSEG Services?

9 A. I am employed as Director Corporate Integration with the responsibility of overseeing
10 the integration of PSEG Long Island ("PSEG LI")'s back-office operations with
11 Public Service Enterprise Group, Inc.'s ("PSEG") corporate functions.

12 Q. Please summarize your educational background and professional experience.

13 A. I have over 20 years of experience in IT and senior level management at PSEG. Previously, I served as director of treasury operations at PSEG Services, with the 14 15 responsibility for PSEG's headquarters facilities, corporate real estate, and survey and 16 mapping. Since joining PSEG in 1981, I have held a variety of positions, including 17 project director of PSEG Services as a direct report to the President and Chief 18 Operating Officer of PSEG Services. In this position, I was responsible for the 19 implementation of a PSEG-wide shared service business. This included the 20 development of a business services catalogue, pricing, and sales totaling \$400 million 21 with PSEG's operating companies. I have also served PSEG as the director of 22 medical services, director of workforce planning and development, director IT

1		business solutions, director e-business strategy, and general manager IT Operations
2		and Client Services.
3		I have a Bachelor of Science degree in electrical engineering technology from
4		New Jersey Institute of Technology, and an Executive Master of Business
5		Administration (EMBA) from New York University, Stern School of Business.
6	Q.	Mr. Shames, please state your name and business address.
7	А.	My name is Martin Shames. My business address is 80 Park Plaza, T-20, Newark, NJ
8		07102.
9	Q.	By whom are you employed and in what capacity?
10	А.	I am employed as the Director of Finance for PSEG Services. In that capacity, I have
11		responsibility for overseeing all financial functions of PSEG Services including the
12		budgeting, assignment and billing of its costs of providing services to affiliates.
13	Q.	Please describe your educational and professional background.
14	А.	I possess a Bachelor's degree in Mathematics from Cornell University and a Masters
15		of Business Administration in Finance from Columbia University. I have 25 years of
16		work experience in finance, management and consulting, with 20 years working in
17		corporate and shared services.
18	II.	PURPOSE OF TESTIMONY
19	Q.	What is the purpose of the Panel's direct testimony?
20	A.	The purpose of our testimony is to support the costs of certain business services
21		included in the three-year Rate Plan being submitted by PSEG LI on behalf of the
22		Long Island Lighting Company d/b/a/ LIPA ("LIPA") for the calendar years ("CY")

1 2016 through 2018, and to explain the shared services framework that is used to 2 deliver some of those business services and other services to LIPA. We will discuss the types of costs incurred for business services, the manner in which budgets have 3 4 been developed for these services for the period CY 2016-2018, and the projected 5 costs to be incurred. We will describe (i) the manner in which costs are incurred by 6 PSEG LI from certain of its affiliates to enable it to provide services to LIPA and its 7 customers under the Amended and Restated Operation Services Agreement ("OSA") 8 between PSEG LI and LIPA, (ii) the cost assignment and allocation policies and 9 procedures that govern the manner in which the costs of shared services are assigned 10 to PSEG LI for subsequent passthrough to LIPA, and (iii) the policies and procedures 11 followed by PSEG LI to ensure both that the costs incurred to provide service to 12 LIPA are reasonable and accurate and that any differences between budgeted and actual costs incurred for those services are transparent. 13 14 0. Do you sponsor any exhibits as part of your testimony? 15

Yes. We sponsor the following exhibits which were prepared or compiled under our A.

- 16 supervision and direction:
- 17 Exhibit __ (SSP-1) sets forth a breakdown of the budgeted expenses for PSEG (i) 18 LI's business services by function for CYs 2015, 2016, 2017 and 2018; and 19 Exhibit (SSP-2) provides detail concerning PSEG LI's 2015 budget for (ii)
- 20 shared and business services.

1 III. OVERVIEW OF BUSINESS SERVICES AND THE SHARED SERVICES 2 FRAMEWORK

3 4	Q.	What are the business services that are provided to and utilized by PSEG LI in providing service to LIPA?
5	А.	Business services are the administrative and general functions that support the
6		transmission and distribution and customer service areas of PSEG LI. These services
7		consist of the following;
8		(i) information technology ("IT") management,
9		(ii) facilities management,
10		(iii) finance and accounting,
11		(iv) legal,
12		(v) human resources,
13		(vi) procurement,
14		(vii) communications,
15		(viii) public affairs,
16		(ix) internal audit,
17		(x) security, and
18		(xi) business performance excellence.
19		Some of these services are provided through PSEG's shared services framework
20		while others are housed in the Office of the President of PSEG LI. The services are
21		managed by the Vice President for Business Services.
22	Q.	How are business services provided by PSEG LI?
23	A.	Each of the business services functions is managed by personnel who are fully
24		dedicated to PSEG LI and assigned the responsibility to provide those services as
25		efficiently as possible. The majority of the business services functions are performed
26		by PSEG LI employees. These employees, as needed, obtain some assistance in

1		provid	ing those business services from affiliated companies. The majority of the
2		suppor	t for PSEG LI shared business services functions is provided by PSEG
3		Service	es. Generally speaking, PSEG Services employs the individuals who provide
4		busine	ss services to PSEG LI and obtains the outside resources necessary to provide
5		those s	services on behalf of PSEG LI. Most of the labor and non-labor costs assigned
6		by PSI	EG Services to PSEG LI are for internal labor and outside services. The costs
7		incurre	ed for business services are passed through to PSEG LI in accordance with
8		PSEG'	s enterprise-wide cost allocation policies and procedures. Direct assignment is
9		the prin	mary way that PSEG Services assigns the costs of shared services to PSEG LI.
10	0	DI	describe the compared structure of DEEC I I and its parent and officiates
10	Q.	Please	describe the corporate structure of PSEG L1 and its parent and annates.
10	Q. A.	Please PSEG	LI is a wholly owned subsidiary of PSEG, a publicly traded utility holding
10 11 12	Q. A.	Please PSEG compa	LI is a wholly owned subsidiary of PSEG, a publicly traded utility holding ny. Other direct or indirect subsidiaries of PSEG that provide services to LIPA
10 11 12 13	Q. A.	Please PSEG compa are:	LI is a wholly owned subsidiary of PSEG, a publicly traded utility holding ny. Other direct or indirect subsidiaries of PSEG that provide services to LIPA
10 11 12 13 14	Q. A.	Please PSEG compa are: (i)	LI is a wholly owned subsidiary of PSEG, a publicly traded utility holding ny. Other direct or indirect subsidiaries of PSEG that provide services to LIPA Public Service Electric and Gas Company ("PSE&G"), which is a public
10 11 12 13 14 15	Q. A.	Please PSEG compa are: (i)	LI is a wholly owned subsidiary of PSEG, a publicly traded utility holding ny. Other direct or indirect subsidiaries of PSEG that provide services to LIPA Public Service Electric and Gas Company ("PSE&G"), which is a public utility that provides electric and gas distribution services at retail to a
10 11 12 13 14 15 16	Q. A.	Please PSEG compa are: (i)	LI is a wholly owned subsidiary of PSEG, a publicly traded utility holding ny. Other direct or indirect subsidiaries of PSEG that provide services to LIPA Public Service Electric and Gas Company ("PSE&G"), which is a public utility that provides electric and gas distribution services at retail to a significant portion of consumers of those services in New Jersey, and is
10 11 12 13 14 15 16 17	Q. A.	Please PSEG compa are: (i)	LI is a wholly owned subsidiary of PSEG, a publicly traded utility holding ny. Other direct or indirect subsidiaries of PSEG that provide services to LIPA Public Service Electric and Gas Company ("PSE&G"), which is a public utility that provides electric and gas distribution services at retail to a significant portion of consumers of those services in New Jersey, and is among the largest utilities in the United States;
10 11 12 13 14 15 16 17 18	Q. A.	Please PSEG compa are: (i) (ii)	LI is a wholly owned subsidiary of PSEG, a publicly traded utility holding ny. Other direct or indirect subsidiaries of PSEG that provide services to LIPA Public Service Electric and Gas Company ("PSE&G"), which is a public utility that provides electric and gas distribution services at retail to a significant portion of consumers of those services in New Jersey, and is among the largest utilities in the United States; PSEG Services, which provides management, administrative and general
10 11 12 13 14 15 16 17 18 19	Q. A.	Please PSEG compa are: (i) (ii)	LI is a wholly owned subsidiary of PSEG LI and its parent and annuates. LI is a wholly owned subsidiary of PSEG a publicly traded utility holding ny. Other direct or indirect subsidiaries of PSEG that provide services to LIPA Public Service Electric and Gas Company ("PSE&G"), which is a public utility that provides electric and gas distribution services at retail to a significant portion of consumers of those services in New Jersey, and is among the largest utilities in the United States; PSEG Services, which provides management, administrative and general services to the affiliates and subsidiaries of PSEG at cost; and
 10 11 12 13 14 15 16 17 18 19 20 	Q. A.	Please PSEG compa are: (i) (ii) (iii)	LI is a wholly owned subsidiary of PSEG LI and its parent and armates. LI is a wholly owned subsidiary of PSEG, a publicly traded utility holding ny. Other direct or indirect subsidiaries of PSEG that provide services to LIPA Public Service Electric and Gas Company ("PSE&G"), which is a public utility that provides electric and gas distribution services at retail to a significant portion of consumers of those services in New Jersey, and is among the largest utilities in the United States; PSEG Services, which provides management, administrative and general services to the affiliates and subsidiaries of PSEG at cost; and PSEG Energy Resources & Trade LLC, which is a subsidiary of PSEG Power
 10 11 12 13 14 15 16 17 18 19 20 21 	Q. A.	Please PSEG compa are: (i) (ii) (iii)	LI is a wholly owned subsidiary of PSEG LI and its parent and armates. LI is a wholly owned subsidiary of PSEG, a publicly traded utility holding ny. Other direct or indirect subsidiaries of PSEG that provide services to LIPA Public Service Electric and Gas Company ("PSE&G"), which is a public utility that provides electric and gas distribution services at retail to a significant portion of consumers of those services in New Jersey, and is among the largest utilities in the United States; PSEG Services, which provides management, administrative and general services to the affiliates and subsidiaries of PSEG at cost; and PSEG Energy Resources & Trade LLC, which is a subsidiary of PSEG Power LLC – another subsidiary of PSEG, that provides services to LIPA under

1Q.Does PSEG LI utilize the shared services framework to provide customer and/or2transmission and distribution services to LIPA?

A. Yes. PSE&G provides a modest amount of services to PSEG LI that are used by
PSEG LI to provide transmission and distribution services for LIPA. The costs of
these services are forecast to total approximately \$1 million in each of CYs 2016,
2017 and 2018.

7 Q. Does the OSA between PSEG LI and LIPA have provisions that govern the 8 passthrough of the costs of services obtained by PSEG LI?

- 9 A. Yes. As a general matter, the OSA requires that services provided by affiliates must 10 be provided at cost without any mark-up or profit. However, the OSA stipulates that 11 there may be instances in which an affiliate of PSEG LI may provide services relating 12 to the Transmission and Distribution ("T&D") system that include a mark-up or profit 13 if approved by LIPA. The budgeted costs for shared services reflected in the three-14 year Rate Plan are projected to be provided at cost regardless of whether they are
- 15 incurred from PSE&G or PSEG Services.

16 Q. How do PSEG LI's affiliates charge costs to PSEG LI for shared services?

A. When a service is provided by PSEG Services solely to PSEG LI, PSEG Services's
cost of providing that service are directly assigned to PSEG LI. When a service is
performed for multiple affiliates, charges are aggregated in cost pools and assigned to
all affiliates that benefit from the service using approved assignment methodologies.
Bill pools/cost pools, which are generally established in accordance with the cost
causation principle, have been developed to assign the different types of costs
assessed by PSEG Services. When it is not appropriate to use a direct or cost

causation-based code, then a general allocator is used. The general allocator is based on a three point formula that reflects an equal weighting of employee headcount, controllable operation and maintenance expenses and net fixed assets.

Applicable federal and state regulatory cross-subsidization policies require that when PSE&G provides a service to an affiliate, PSE&G must charge for those services at rates equal to the greater of cost or market. We have determined that each of these services is being provided at cost to PSEG LI. Records are maintained to ensure that the appropriate measures of cost and market are used for these services.

9 Q. Please describe how assets leased by PSEG Services are charged to PSEG LI.

A. PSEG Services leases a number of shared assets that are used to provide services to
affiliates. These are primarily shared office facilities and information technology
equipment and software. When leased assets are used by PSEG Services, the lease
rentals are charged to affiliates at cost using the cost assignment methodology
described previously.

15 Q. Has PSEG implemented an established set of cost allocation policies and 16 practices?

An established set of cost allocation policies and procedures have been 17 Yes. A. 18 implemented and are in effect for all PSEG companies. As we mentioned previously, 19 these policies and procedures provide for a cost causative assignment process that is 20 consistently applied throughout the PSEG organization. This process emphasizes the 21 importance of using direct assignment as a first preference and is generally designed 22 to use a cost assignment method that bears the closest possible relationship to cost causation. At the same time, when there is no readily determinable cost causative 23

1

2

3

2

basis available to allocate costs, there is a general allocator that is used to allocate costs in a reasonable and transparent manner.

Q. IsPSEG LI's ability to obtain services from PSEG Services and other affiliates beneficial to LIPA and its customers?

5 Yes. The ability to obtain services under a shared services framework benefits all of A. 6 PSEG's subsidiaries including PSEG LI. Specifically, the shared services model 7 enables PSEG LI and PSEG's other operating companies to (i) attain the benefits of 8 scope and scale available from the provision of centralized services to a number of 9 operating entities in a manner that ensures that no operating entity cross-subsidizes another, (ii) improve service quality through enhanced job differentiation and 10 11 specialization that results from the provision of services on a centralized basis to a 12 number of operating entities, (iii) maintain and improve the reliability and 13 consistency of services within the organization, and (iv) implement enhanced controls 14 and uniformity of methods and practices throughout the organization. The shared services that PSEG LI obtains and provides to LIPA and its customers are the same 15 16 types of services that PSE&G requires to provide service in New Jersey. The use of a 17 shared service framework to provide services in each jurisdiction is beneficial to all 18 customers.

19 20

Q. How does PSEG LI monitor and control the costs it incurs for services obtained from PSEG Services and other affiliates?

A. The managers at PSEG LI responsible for individual functions have the responsibility
to (i) develop budgets designed to enable PSEG LI to meet its responsibilities to
LIPA under the OSA, (ii) monitor performance against those budgets, and (iii) review

1		monthly bills from PSEG Services and other affiliates to ensure that the costs
2		assessed to PSEG LI are reasonable, appropriate and in line with budgets. PSEG LI
3		is incented under the OSA to attain cost management goals in order to receive
4		incentive compensation. Specifically, under Appendix 9 of the OSA, PSEG LI must
5		achieve spending levels equal to or less than 102% of the annual operating and capital
6		budgets approved by LIPA in order to be eligible for the total incentive compensation
7		available under the OSA.
8 9	Q.	What actions do PSEG LI, PSEG Services and other affiliates take to control service company costs?
10	A.	As part of their normal management practices, PSEG LI, PSEG Services and all other
11		PSEG affiliates engage in continuous efforts to control costs and achieve efficiencies.
12		For example, PSEG Services' costs basically consist of (i) internal labor and (ii)
13		outside services associated with operating and capital expenditures. With respect to
14		internal labor costs, PSEG's human resources organization controls these costs by
15		monitoring the overall compensation package of PSEG, comparing that package to
16		those provided by similarly situated companies, and conducting regular reviews to
17		determine opportunities to control benefits costs. Benchmarking ensures that overall
18		compensation costs remain consistent with labor market conditions. With respect to
19		outside services and employee expenses, PSEG LI and its affiliates endeavor to
20		control those costs by conducting competitive bidding among third-party suppliers
21		and/or negotiating discounts through a centralized procurement area.

1 2	Q.	How does PSEG Services attempt to benchmark the costs of various services it provides against other third-party providers?
3	A.	PSEG Services participates in a variety of benchmark studies, sponsored both by
4		PSEG itself, commercial providers and industry trade groups. Studies typically look
5		at one or more functional areas and provide insights into costs and staffing levels
6		among a group of comparison companies that are generally of similar size and scope
7		to PSEG.
8 9	Q.	How does PSEG ensure that its cost allocation policies and procedures are being applied on a consistent basis throughout the organization?
10	A.	PSEG maintains and revises annually a detailed cost accounting manual for the entire
11		organization. All management and bargaining unit employees are required to
12		participate annually in training which provides guidelines regarding transactions
13		between affiliate companies. In addition, as we have described, monthly charges
14		incurred by PSEG LI are reviewed to ensure that they are consistent with budgets and
15		reflective of the work being performed.
16	IV.	BUSINESS SERVICES BUDGETED COSTS
17	Q.	What are the total budgets for business services for CY 2016, 2017 and 2018?
18	A.	The total budgets for business services for CY 2016, 2017 and 2018 are set forth on
19		Exhibit (SSP-1) as follows:

2020162017201821\$138,899,989\$152,303,206\$161,160,699

1 Q. Please describe Exhibit __ (SSP-1).

A. Exhibit __ (SSP-1) consists of 2 pages and provides a breakdown of the budgeted
costs for business services provided by PSEG LI to LIPA for CY 2015, 2016, 2017
and 2018.

5 Q. How were the budgets set forth on Exhibit __ (SSP-1) determined?

A. The budget process is described more fully in the testimony of the Budget Panel. The
budget process described therein was followed in determining the budget for business
services. However, the business services organization also faced certain unique
circumstances and constraints in arriving at its budget amounts for CY 2016, CY
2017 and CY 2018.

11 Q. Please describe those circumstances and constraints.

12 The OSA took effect on January 1, 2014. Because the OSA required an operating A. 13 model for LIPA that had not existed previously, PSEG LI was required to design and 14 implement a new organization to provide service to LIPA and its customers. Prior to 15 2014, many, but not all, of the functions performed by PSEG LI were provided by affiliates of National Grid USA Inc. ("National Grid"). Other functions were 16 17 performed by LIPA itself. To effectuate a transition, we entered into a Transition 18 Services Agreement ("TSA") with National Grid that allowed PSEG LI to obtain 19 financial data and various services from National Grid during the transition. The 20 costs associated with this agreement, as well as the costs of transferring various data 21 from National Grid's financial and operational platforms to PSEG's SAP and related

2 comprise approximately \$25 million of costs that are budgeted for 2015. 3 **O**. Do you expect to complete the transition from National Grid to PSEG LI in 4 2015? 5 Yes. As a result of completing the transition we project that the cost of operating A. 6 financial systems will be reduced from approximately \$10.7 million in 2015 to 7 between \$6.1 to \$6.4 million in the 2016-2018 period. 8 **O**. Is the transition from National Grid to PSEG LI a complex undertaking? 9 A. Yes. It is both complex and unique. As we stated previously, National Grid did not 10 perform all of the functions for LIPA that PSEG LI now performs for LIPA under the 11 OSA. Thus, in the first instance, it was necessary to determine the differences, that is 12 to identify the functions and systems that PSEG LI would need to provide that 13 National Grid did not provide for LIPA, and implement a process to provide those 14 functions. In addition, and more significantly, the transition from National Grid was 15 not like a typical acquisition or merger where the acquiring entity has access to all of 16 the existing systems and data of the acquired entity. Instead, we were required to 17 negotiate and implement the TSA with National Grid that allowed PSEG LI to 18 transition data to its own platform. To illustrate the complexity of the transition, in 19 the IT area, we conducted a review of approximately 600 information systems and 20 applications that are used by PSEG's New Jersey electric distribution utility to 21 provide electric utility service in New Jersey. We ultimately determined that 22 approximately 550 of these systems and applications should be used by PSEG LI, and 23 thus we undertook to enable PSEG LI to obtain access to these systems from the

systems are reflected in our 2014 actual results as well as in our 2015 budget and

third-party vendors who provide and support them. In some cases, the licenses and other agreements that govern access to the systems and applications were assignable and in some cases they were not. In cases where they were not assignable, we negotiated with the vendors to obtain new licenses and agreements.

5 Q. Do the actual expenses for business services incurred in 2014 provide a 6 reasonable starting point for determining the costs of business services that are 7 projected to be incurred during the CY 2016 – CY 2018 period?

8 A. There are a number of reasons why PSEG LI's 2014 actual costs of providing 9 business services do not provide a useful starting point for evaluating the costs that 10 we project PSEG LI will incur during the CY 2016 – CY 2018 period. First, as we 11 have already mentioned, during 2014, PSEG LI incurred significant costs to obtain 12 financial information from National Grid and transition from National Grid's 13 financial and operations platforms to our SAP system. These costs totaled 14 approximately \$61 million in 2014. These costs will not recur as costs from National Grid in CY 2016 – 2018. 15

16 Second, as we have also mentioned, in 2014 PSEG LI was required to design 17 and implement a new organization to provide LIPA with a variety of services that 18 were not provided by its previous system operator. This organization initially was 19 designed using similar utility organizations as benchmarks to determine the resources 20 that would be needed to meet the requirements of the OSA. Once we gained 21 experience operating under the OSA, we were better able to refine our projection of 22 the activities that we need to perform under the OSA and the costs of those activities. Our more refined projections are reflected in the 2015 budget. The 2015 budget thus 23

1	provides a far better starting point for determining projected costs for the CY 2016 -
2	CY 2018 period than actual 2014 results. A breakdown of the 2015 business services
3	budget is attached hereto as Exhibit (SSP-2).

Q. Please describe the major components of the business services budgets for CY 2015, CY 2016, CY 2017 and CY 2018.

A. The major components of the business services budgets are the budgets for IT,
finance and accounting, facilities management and legal expenses. These functions
represent approximately 75% to 80% of the total business services budget. None of
the other individual components of the business services budget account for more
than 5% of the total shared services budget.

11Q.How were the business services budgets for CY 2016 through CY 201812determined?

The starting point for the business services budgets for CY 2016 through CY 2018 is 13 A. 14 the 2015 business services budget. The business services budgets for CY 2016 15 through CY 2018 reflect projected changes in costs for outside goods and services 16 that are based either on estimates provided by our third-party advisors or that are 17 contractually required. An example of the former type of projection is our estimate 18 that outside insurance costs will increase by 5% per year. This projected increase is 19 based on estimates developed with our insurance broker who participates actively in 20 the markets for various types of insurance. In addition, where, for example, we have 21 facilities leases that contain contractually determined increases, we have included 22 these increases in our budget. All remaining business services budget items reflect, in

3	Q.	Please describe the expenses included in the budget for information technologies.
2		2.3% for CY 2018.
1		the aggregate, annual inflation increases of 2.9% for CY 2016, 2.3% for CY 2017 and

A. Approximately 80% to 85% of the IT budget for CYs 2016, 2017 and 2018 represents
the projected cost of purchasing applications and services from third-party vendors.
A portion of these costs will also be incurred to utilize PSEG's SAP platform for all
general ledger transactions in lieu of relying on data provided by National Grid under
the TSA. This function is known as Enterprise Resource Planning ("ERP"). The
budgeted operation and maintenance expenses for the IT area are set forth on Exhibit
(SSP-1).

11Q.In addition to the management of the ERP system, what are the IT functions12that require PSEG LI to incur operating and maintenance costs?

- 13 A. The IT functions can be broken down as follows:
- (1) Critical Network Infrastructure ("CNI") CNI and its supporting systems
 provide the critical day-to-day monitoring and support for LIPA's electric grid.
 This area comprises 19 applications and/or systems that include the Supervisory
 Control and Data Acquisition ("SCADA") system, the outage management
 system, the energy management system and the customer accounting system.
- 19 (2) General Corporate Support Systems (Software and Applications) These
 20 systems represent the corporate support systems other than the ERP system that
 21 are used for back office functions, to support our mobile workforce, and for
 22 security. These non-ERP systems comprise more than 200 distinct applications
 23 that are used by more than 2,000 employees in varying ways as part of their
 24 daily work functions.

- 1 (3) Communications The communications function ensures land-based 2 connectivity to support the CNI, the activities of our mobile workforce, and our 3 ongoing ability to operate LIPA's facilities. The communications infrastructure 4 comprises telephones, cellular communication devices, VHF radios and 5 associated antennas and towers. Approximately 3,000 communication assets 6 are supported by our IT organization.
- 7 (4) Networks Networks provide for the wired and wireless connectivity of
 8 systems to support CNI and corporate requirements. Network services consist
 9 of operation and maintenance of the switches, routers, hubs, firewalls and
 10 appliances necessary to maintain various networks.
- 11 (5) Hardware Hardware services consist of the operation and maintenance of
 12 servers, workstations, mainframes, storage facilities, desktops, laptops, portable
 13 handheld communication devices, personal delivery assistant devices and video
 14 management equipment. Our hardware assets consist of approximately 550
 15 servers and 2,750 other devices.
- 16 (6) Security Security-related IT services are required to enable PSEG LI to
 17 operate cameras, workforce badges, perimeter detection devices, card readers,
 18 security panels, door locks and gates and intrusion detection devices.
- 19 (7) Other IT Infrastructure In addition to the other equipment, the IT area also
 20 operates and maintains network cabling, raceways, racks, air conditioning units
 21 and power generation equipment.
- 22 Q. How are IT projects managed by PSEG LI?
- A. PSEG LI utilizes internal labor and outside contractor resources to manage its IT
 applications and resources. For CY 2016, CY 2017 and CY 2018, the budgets are
 based on an internal staff of 47 full time equivalent employees and 31 full time
 equivalent contractors. PSEG LI utilizes a process-based methodology to commence

and manage IT projects. The process is based on a well-known, industry-standard model known as the Capability Maturity Model Integrated ("CMMI"). CMMI was developed at Carnegie Mellon University over 25 years ago. The CMMI process is monitored by our internal IT organization through a quality assurance function and is subject to review by both our internal audit department and in an annual audit by an external auditing firm.

7

Q. What are the major expenditures in the budget for finance and accounting?

8 A. The finance and accounting budgets reflect 57 full time equivalent employees to 9 perform all of the finance and accounting functions of PSEG LI, including 10 accounting, budgeting, planning, rate administration and financial support for 11 regulatory filings including rate proceedings, and treasury and business center 12 functions. The non-labor budget primarily represents the cost of insurance that PSEG 13 LI procures in accordance with the OSA, and other miscellaneous expenses such as 14 bank fees. The budgeted costs for finance and accounting are set forth on Exhibit 15 (SSP-1).

16 Q. What types of insurance does PSEG LI procure?

A. As required by the OSA, PSEG LI procures property, liability and nuclear outage
insurance for LIPA. The OSA also requires PSEG LI to provide workers
compensation, fiduciary and travel accident insurance for PSEG LI. Property,
liability and workers compensation insurance represent the largest elements of these
costs. The insurance requirements are addressed in Appendix 11 of the OSA.

1 Q. How does PSEG LI procure this insurance?

2	A.	As insurance coverages approach expiration, LIPA determines its insurance
3		requirements and communicates those needs to PSEG LI. PSEG LI utilizes an
4		outside broker to assist in evaluating competitive options and procuring packages of
5		insurance that meet LIPA's needs. LIPA has the final say over the coverages that
6		PSEG LI obtains.
7 8	Q.	Do you project that the cost of LIPA's insurance will increase during CY 2016, CY 2017 and CY 2018?
9	А.	Yes. Based on information received from our broker we project that insurance costs
10		will increase by 5% each year.
11	Q.	What are the major expenditures in the budget for facilities management?
12	А.	The largest component of this budget are expenses associated with leasing various
13		facilities in LIPA's service territory. These facilities include nine operating centers
14		and one call center that are leased from National Grid. LIPA also leases ten other
15		facilities that are used for a various operating and administrative purposes. Generally
16		speaking, these facilities were the same facilities used by LIPA to provide service
17		under its previous management arrangement with National Grid. The costs of these
18		facilities comprise 92% of the facilities costs reflected in the 2016-2018 facilities
19		management budgets. The costs associated with facilities management are set forth
20		on Exhibit (SSP-1). The costs reflected in the budgets include base rent, operating
21		costs and property taxes.

1	Q.	Were the terms of the various facilities leases negotiated at arm's length?
2	A.	Yes. PSEG LI/LIPA utilized the services of a third-party broker to determine the fair
3		market values of the base rent paid under the facilities leases. Operating costs of the
4		facilities that are passed through under the various leases were determined based on a
5		five-year average of actual operating costs during the 2008-2012 period. Property
6		taxes are the amounts assessed by the taxing authorities.
7 8	Q.	Did PSEG LI investigate whether to move to facilities at locations other than those LIPA had previously utilized?
9	А.	Yes. However, PSEG LI determined that the costs of moving to and operating from
10		alternative facilities outweighed the benefits. In considering the location of existing
11		facilities, PSEG LI and LIPA concluded that LIPA's existing facilities were
12		preferable to available alternatives.
13	Q.	What are the major expenditures in the budget for legal services?
14	A.	The major expenditures for legal services are (i) the projected costs of maintaining an
15		in-house legal department that consists of 29 full-time equivalent employees,
16		including 12 attorneys, 9 claims representatives, 2 paralegals, 3 administrative
17		assistants and 2 records managers, (ii) the costs of shared legal services employees
18		from PSEG Services to assist dedicated PSEG LI legal staff, (iii) the costs of outside
19		counsel both to supplement our internal legal resources during peak periods and
20		provide specialized expertise, and (iv) the costs of claims and records management.
21		Budgeted legal expenditures are set forth on Exhibit (SSP-1).

1 Q. When does PSEG LI use outside counsel?

2 A. Outside counsel are typically used for (i) significant commercial and tort litigation; 3 (ii) complex rate and regulatory matters; (iii) environmental matters; (iv) large 4 commercial transactions; and (v) certain labor and compliance matters. Thus, for 5 example, the CY 2017 and CY 2018 legal expense budget includes outside counsel 6 expense to support another base delivery rate filing during the last year of the three-7 year Rate Plan. Outside counsel are also employed to handle matters during peak 8 periods when the expected future level of demand for legal services does not support 9 hiring of additional in-house resources. Outside counsel are generally selected 10 through a competitive process that considers both the outside counsel's level of 11 expertise and projected cost of representation.

Q. What is the basis of PSEG LI's projected costs of claims for the CY 2016 - CY 2018 period?

- 14 A. The projected claims costs for the CY 2016 CY 2018 period are generally
 15 consistent with recent claims experience.
- 16 Q. Please describe business performance excellence ("BPE").

17 A. BPE comprises two major functions. The first is Performance Analysis and 18 Reporting ("PA&R"), which is responsible for the end-to-end processes associated 19 with the performance metrics established under the OSA. These metrics are used to 20 determine whether PSEG LI is paid incentive compensation under the OSA. PA&R 21 is responsible for determining and reporting the monthly results of PSEG LI under the 22 metrics to LIPA and the New York State Department of Public Service ("DPS"). 23 PA&R also provides monitoring and reporting of various change initiatives of PSEG

1 LI and the linkage of those initiatives to various performance metrics. PSEG LI's 2 performance under the OSA's performance metrics is discussed in the testimony of 3 the Metrics and Safety panel.

4 The function in BPE second is to execute the Continuous 5 Improvement/Operating Excellence Model. This team is responsible for process improvements and the formal documentation of technical manuals and processes. For 6 7 example, this team has assisted in developing, implementing and documenting 8 processes reflected in emergency response plans and logistics plans for storm 9 response that were submitted to the DPS. This team is also updating the Contract 10 Administration Manual and other critical processes.

11 The budget for BPE includes expenses for internal labor, costs for 12 memberships in benchmarking peer panels, expenses for outside consultants to assist 13 in process improvements, and miscellaneous additional expenses. The budgeted costs 14 for BPE are set forth on Exhibit __ (SSP-1).

15Q.Please describe the procurement function and explain how PSEG LI manages16procurement.

A. The PSEG LI procurement organization supports the ongoing material and service
requirements of PSEG LI. The procurement area works to maintain an assurance of
supply and mitigate the risk of supply shortfalls by following a rigorous supplier
selection and evaluation process. The procurement function primarily utilizes
internal labor that is fully dedicated to PSEG LI to provide this function. Resources
from PSEG Services are also used to assist in procurement. The PSEG LI

1 procurement area looks for opportunities to reduce costs, streamline processes and 2 standardize specifications where possible in an effort to operate with optimal efficiency. The PSEG LI procurement function is fully integrated with the PSEG-3 4 wide procurement organization and is therefore able to benefit from the synergies that 5 arise from PSEG-wide procurement, including access to a broad supply base and the ability to leverage supplier resources. The procurement organization also includes a 6 7 governance function that ensures that procurement activities are conducted in a 8 prudent manner that complies with corporate practices and controls and the Sarbanes-9 Oxley requirements. The procurement budget consists primarily of internal labor 10 expense and also contains modest expenses for outside services. The budgeted costs 11 associated with PSEG LI's procurement functions are set forth on Exhibit (SSP-1).

12

Q. What security operations does PSEG LI provide for LIPA?

A. PSEG LI is responsible for providing security at facilities across LIPA's service
territory. The costs of providing security primarily consist of services purchased
from third-party vendors through a competitive process. PSEG LI also has an internal
staff to oversee security. The budgeted costs of security operations are set forth on
Exhibit _ (SSP-1).

18 Q. How does PSEG LI manage its human resources functions?

A. PSEG LI has a staff dedicated to managing human resources and also uses the
 centralized services of PSEG Services to assist in providing the full range of
 necessary human resources services. These services include:

1		• Staffing;
2		• Development and administration of a comprehensive total compensation package;
3		• Development and maintenance of uniform human resources policies;
4		• Administration of employee benefits including pensions and other post-
5		employment benefits;
6		Operation of human resources-related information systems;
7		• Talent acquisition and diversity outreach;
8		Operational effectiveness evaluation and development;
9		• Management of our relationship with the union workforce;
10		• Development and administration of human resources budgets; and
11		• Development and administration of human resources-related analytical tools.
12		The costs incurred for outside services in the human resources area are primarily for
13		various consulting services. The budgeted costs for human resources are set forth on
14		Exhibit (SSP-1).
15 16	Q.	Please describe the expenses for communications reflected in PSEG LI's business services budgets.
17	A.	These expenses are incurred to enable PSEG LI to properly communicate with
18		customers, employees and other stakeholders. The budget for these services
19		represents costs for labor and associated benefits as well as nominal expenses for
20		travel throughout LIPA's service territory and office supplies. The budgeted costs for
21		communications are set forth on Exhibit (SSP-1).
22 23	Q.	Please describe the expenses for public affairs reflected in PSEG LI's business services budgets.
24	А.	These expenses are incurred to enable PSEG LI to properly communicate with
25		government officials and community members in LIPA's service territory about our
26		services and planned site improvements. The budget for these services represents

costs for labor and associated benefits as well as nominal expenses for travel throughout LIPA's service territory and office supplies. These costs are set forth on Exhibit __ (SSP-1).

4

1

2

3

Q. Does PSEG LI maintain an internal audit department?

5 A. Yes. The Internal Audit department is an independent objective function within 6 PSEG LI. It reports to the Vice President-Internal Audit Services of PSEG Services. 7 An Audit Universe has been developed and is updated annually based on a risk 8 assessment exercise. The Audit Universe is used as the basis for the creation of the 9 annual Audit Plan for PSEG LI. Audits, reviews, investigations and internal controls 10 testing are conducted throughout the year and the results are shared with management 11 and corrective actions are taken, where applicable. The Internal Audit budget for CY 12 2016 through CY 2018 represents primarily labor and minimal costs associated with 13 travel, training and office supplies. The budgeted costs of internal audit are set forth 14 on Exhibit (SSP-1).

- 15 Q. Does this conclude your testimony?
- 16 A. Yes, it does.

JUDGE PHILLIPS: The next panel? 1 2 MR. WEISSMAN: The next panel, Your Honors, are actually two affidavits for the PSEG Long Island Budget Panel submitted 3 on January 30th. It is a 14 page document with a single 4 5 exhibit. The first affidavit is executed by Gary Ahern and Lisa 6 Figliozzi. The second affidavit was executed by Mr. Richard 7 Aicher. Those are the three members of that panel. It's a single 8 9 exhibit identified as Exhibit 10 pre-filed BP-1. It is a 10 five-page document providing the Overview Budget by Director 11 (handing). 12 JUDGE PHILLIPS: We have been provided with the affidavit of Budget Panel, two affidavits, which we marked. The first one 13 14 done by Mr. Ahern and Ms. Figliozzi we marked as Exhibit 121. 15 The affidavit of Mr. Aicher of that same panel has been marked 16 for identification as Exhibit 122. On the basis of these two exhibits, we ask that the 17 18 testimony of the PSEG LI Budget Panel consisting of 14 pages as 19 previously described be copied into the record as though given 20 orally today. 21 22 23 24 25

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-____

DIRECT PRE-FILED TESTIMONY OF THE BUDGET PANEL

Date: January 30, 2015

TABLE OF CONTENTS

I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY	1
II.	PSEG LI BUDGET PROCESS	5
III.	CONSOLIDATED BUDGETS – 2016-2018	13

1	I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY
2	Q.	Please state the names of the members of this Budget Panel (the "Panel").
3	А.	We are Gary S. Ahern, Richard L. Aicher and Lisa Figliozzi.
4	Q.	Mr. Ahern, please state your employer and business address.
5	А.	I am employed by PSEG Long Island LLC ("PSEG LI" or the "Company") and my
6		business address is 333 Earle Ovington Blvd., Uniondale, NY 11553.
7	Q.	In what capacity are you employed by the Company?
8	A.	I am employed by the Company as Director of Finance. In this position I am
9		responsible for, among other things: regulatory filings on behalf of the Long Island
10		Power Authority ("LIPA"); maintaining LIPA's Tariff; Electric Customer Rates and
11		Pricing; PSEG LI Financial Statements; PSEG LI Accounting; PSEG LI Budgeting
12		and Forecasting; billing and collections from LIPA; and non-utility billing on behalf
13		of LIPA.
14	Q.	Please state your relevant education and work experience.
15	А.	Prior to assuming my position with PSEG LI, I was Vice President, U.S. Regulation
16		and Pricing Gas Distribution for National Grid Corporate Services, LLC, which
17		provides engineering, financial, administrative and other technical support to direct
18		and indirect subsidiary companies of National Grid USA. My duties included
19		revenue requirements and pricing oversight for the U.S. gas distribution subsidiaries
20		of National Grid USA, including National Grid's New York gas utilities The
21		Brooklyn Union Gas Company, Keyspan Gas East Corporation and the gas operations
22		of Niagara Mohawk Power Corporation, as well as Boston Gas Company, Colonial

1		Gas Company, and Essex Gas Company. I joined Brooklyn Union Gas Company (a
2		predecessor company of National Grid KeySpan Corporation) in 1975 where I held a
3		number of financial positions within Brooklyn Union, KeySpan Corporation and,
4		most recently, National Grid. I worked in the Corporate Planning Department for
5		Brooklyn Union as a financial analyst and was appointed to oversee Brooklyn
6		Union's regulatory filings with the New York State Public Service Commission
7		("PSC"). From 1993 through 2001, I served as the Corporate Budget Director of
8		Brooklyn Union and (beginning in 1998) for KeySpan Corporation. In 2001, I was
9		appointed the Director of Finance for the Electric Business Unit, where I was
10		responsible for providing financial services, controls and analysis to support the
11		electric operating companies, among other responsibilities.
12		In 1982, I earned a Bachelor of Arts degree in Business
13		Management/Accounting from Saint Francis College. In 1986, I earned a Masters of
14		Business Administration from Adelphi University.
15	0.	Mr. Aicher, please state your employer and business address.
16	A.	I am employed by PSEG Services Corporation ("PSEG Services") and my business
17		address is 80 Park Plaza, Newark, NJ 07102.
18	Q.	In what capacity are you employed by PSEG Services?
19	А.	I am employed by PSEG Services as Manager of Utility SAP Strategy and Planning.
20		In this position I am responsible for the configuration of several SAP modules to
21		support the external and internal reporting of Public Service Electric and Gas
22		Company ("PSE&G"). I manage the budget planning process for PSE&G and
	I	

provide financial support for State and Federal regulatory proceedings. Additionally I provide support for cost allocation methodology creation and implementation and provide litigation support. I have also been supporting the PSEG LI migration to the Public Service Enterprise Group ("PSEG") SAP system and the development of the 2015 PSEG LI budget.

Q. Please summarize your educational background and professional experience.

A. I joined PSEG in 1997. Prior to my current position, I held a variety of positions relating to the planning, budgeting, accounting system support and regulatory support for both PSE&G as a whole and for the Customer Operations and Appliance Service lines of business. Prior to joining PSEG, I spent ten years in various management positions for Jersey Central Power & Light Company and five years in engineering positions for Pennsylvania Power & Light Company. I have Bachelor of Science and Master of Science degrees in Engineering from Duke University and a Master of Business Administration degree from Seton Hall University.

Q. Ms. Figliozzi, please state your name and business address.

16 A. My name is Lisa Figliozzi. My business address is One Hundred East Old Country
17 Road, Hicksville, New York 11801.

Q. By whom are you employed and in what capacity?

A. I am Manager, Regulation and Pricing – PSEG LI. My current duties include revenue
 requirements oversight for PSEG LI and for LIPA.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Q. Please summarize your educational and professional background.

A. I joined the Long Island Lighting Company ("LILCO") (a predecessor company of KeySpan Corporation) in 1990. Since that time, I have held a number of financial and accounting positions within LILCO, KeySpan Corporation and, most recently, National Grid. I worked in the Corporate Budget and Planning Department for LILCO as a financial analyst and was promoted to Manager, LIPA Reporting in 1998 when Brooklyn Union merged with the LILCO. I supported regulatory filings and developed financial exhibits that were presented to the PSC, FERC, NYSERDA, and LIPA. From 2004 through 2005, I served as the Budget Manager of the Ravenswood generation power plant, which supplied twenty percent of New York City's power. In 2006, I was a functional team leader for Keyspan's Property Records software implementation project, and subsequently during the integration period with National Grid I was appointed the Manager of Plant Accounting. Plant Accounting was headquartered in Massachusetts, with offices in Buffalo, Syracuse, Glens Falls, Rhode Island and Long Island. I was responsible for centralizing Plant Accounting Operations on Long Island and providing asset accounting functions, including closing, financial and regulatory reporting, services, controls and analysis to support the US Operations. In 2010 I assumed the role of Principal Analyst for Revenue Requirements of the New York gas companies for National Grid. In October 2012 I was selected as Manager of Regulation and Pricing supporting LIPA, which is my current role.

1		I hold a Bachelor of Science degree in Business Management/Finance from
2		Long Island University (1989) and a Master of Business Administration/Finance from
3		Long Island University (1995).
4	Q.	What is the overall purpose of the Panel's testimony in this proceeding?
5	A.	The purpose of this Panel's testimony is to explain the processes that were followed
6		in developing the base year 2015 budget and to present the PSEG LI budgets for the
7		three years of the Rate Plan, 2016, 2017 and 2018. We then explain that those PSEG
8		LI budgets were consolidated by the Ratemaking and Revenue Requirements Panel
9		with LIPA's 2016, 2017 and 2018 budgets to produce the Three-Year Consolidated
10		Budgets that form the basis of the Rate Plan.
11	Q.	Is the Panel sponsoring any exhibits in support of its testimony?
12	A.	Yes. Exhibit (BP-1) sets forth the PSEG LI 2015 approved budget at the director
12 13	A.	Yes. Exhibit (BP-1) sets forth the PSEG LI 2015 approved budget at the director level as well as the forecasted 2016, 2017 and 2018 budgets.
12 13	А.	Yes. Exhibit (BP-1) sets forth the PSEG LI 2015 approved budget at the director level as well as the forecasted 2016, 2017 and 2018 budgets.
12 13 14	А. II.	Yes. Exhibit (BP-1) sets forth the PSEG LI 2015 approved budget at the director level as well as the forecasted 2016, 2017 and 2018 budgets.
12 13 14 15	А. II. Q.	 Yes. Exhibit (BP-1) sets forth the PSEG LI 2015 approved budget at the director level as well as the forecasted 2016, 2017 and 2018 budgets. PSEG LI BUDGET PROCESS Please describe the process by which the budgets were developed.
12 13 14 15 16	А. II. Q. А.	 Yes. Exhibit (BP-1) sets forth the PSEG LI 2015 approved budget at the director level as well as the forecasted 2016, 2017 and 2018 budgets. PSEG LI BUDGET PROCESS Please describe the process by which the budgets were developed. The budget process rested overall responsibility for each general functional area with
12 13 14 15 16 17	А. II. Q. А.	 Yes. Exhibit (BP-1) sets forth the PSEG LI 2015 approved budget at the director level as well as the forecasted 2016, 2017 and 2018 budgets. PSEG LI BUDGET PROCESS Please describe the process by which the budgets were developed. The budget process rested overall responsibility for each general functional area with the Vice President in charge of that area. PSEG LI's Vice Presidents all worked
12 13 14 15 16 17 18	А. II. Q. А.	Yes. Exhibit (BP-1) sets forth the PSEG LI 2015 approved budget at the director level as well as the forecasted 2016, 2017 and 2018 budgets. PSEG LI BUDGET PROCESS Please describe the process by which the budgets were developed. The budget process rested overall responsibility for each general functional area with the Vice President in charge of that area. PSEG LI's Vice Presidents all worked closely with their respective directors and the budget team to produce the budgets
12 13 14 15 16 17 18 19	А. II. Q. А.	Yes. Exhibit (BP-1) sets forth the PSEG LI 2015 approved budget at the director level as well as the forecasted 2016, 2017 and 2018 budgets. PSEG LI BUDGET PROCESS Please describe the process by which the budgets were developed. The budget process rested overall responsibility for each general functional area with the Vice President in charge of that area. PSEG LI's Vice Presidents all worked closely with their respective directors and the budget team to produce the budgets being presented here. The Transmission and Distribution ("T&D") organization is
12 13 14 15 16 17 18 19 20	А. II. Q. А.	Yes. Exhibit(BP-1) sets forth the PSEG LI 2015 approved budget at the director level as well as the forecasted 2016, 2017 and 2018 budgets. PSEG LI BUDGET PROCESS Please describe the process by which the budgets were developed. The budget process rested overall responsibility for each general functional area with the Vice President in charge of that area. PSEG LI's Vice Presidents all worked closely with their respective directors and the budget team to produce the budgets being presented here. The Transmission and Distribution ("T&D") organization is divided into seven major areas of responsibility: (1) T&D VP Operations Other

1	UG"); (3) T&D Operations; (4) Substation/Protection/Telecom ("SPT"); (5) Projects
2	and Construction; (6) T&D Services; and (7) Asset Management. The Customer
3	Services organization is composed of four separate areas of responsibility: (1)
4	Customer Contact and Billing; (2) Revenue Operations; (3) Customer Experience and
5	Utility Marketing; and (4) Meter Services. The Shared and Business Services
6	organization is composed of six separate areas: (1) Business Performance Excellence
7	("BPE"); (2) Information Technology; (3) Facilities Management; (4) Finance and
8	Accounting; (5) Procurement; and (6) Security Operations. The Shared and Business
9	Services budget also includes costs for functions that report to the President i.e.,
10	Communications, Public Affairs, Human Resources ("HR"), Legal Services, and
11	General Manager – Internal Audit. Lastly, Energy Efficiency and Renewable Energy,
12	and Power Markets, are organizations that are separately stated. The functions
13	performed by all of these organizations and the costs required to perform them are
14	presented in detail by the respective panels addressing T&D, Customer Services,
15	Power Markets, Shared and Business Services, and Energy Efficiency and Renewable
16	Energy. The budget team assisted the functional groups in the production of
17	individual budgets for those functional areas by providing existing headcount,
18	compensation and benefits information, and introductory training to the PSEG SAP
19	system and budgeting process, and worked with the groups on developing the
20	organizational structure, mapping of employees to activity types, and identification of
21	work activities (orders) that will be used for both planning and reporting. The
22	functional areas then provided the budget team with adjusted headcounts, overtime

percentages, allocations of labor to work activities, and expenses by work activity for materials, contractors and outside services and other miscellaneous expenses. Based on the input from the respective functional teams, an overall PSEG LI budget for 2015 was developed.

Q. You previously referred to the 2015 budget as a "base year" budget. Why was 2015 determined to be a base year upon which to develop subsequent budgets?
A. PSEG LI took over responsibility for the operations of LIPA's T&D system on January 1, 2014. Prior to that time, the system was operated by National Grid under a Management Services Agreement ("MSA"). The responsibilities of PSEG LI under the Amended and Restated Operating Services Agreement dated as of December 31, 2013 ("OSA") differ significantly from those of National Grid under the MSA. Consequently, cost information for activities that took place prior to PSEG LI taking over responsibilities for the LIPA system is not readily available and is of limited use.

Furthermore, 2014 was a transitional year, during which PSEG LI was adjusting to running the LIPA system, changing operations and developing new processes. Consequently, using the 2014 budget as a baseline budget for the 2016-2018 Rate Plan would have been problematic. In fact, PSEG LI's 2014 operating costs had been budgeted in the fall of 2013 by the transition team, before PSEG LI commenced operations and before employees were even hired to operate the Long Island system.
Q. What is fundamentally different between the 2014 and 2015 budget years that make 2015 a better starting point for the rate years of 2016, 2017 and 2018?

Α. The 2014 budget included costs and resources at a functional area level and did not identify type of work nor was it expressed in a FERC accounting format. The 2015 budget was developed by employees representing the functional areas using a "bottom up" approach in that they identified the work activities being performed and the costs (labor, material, outside services, and other) required to perform the work activity. Significantly, the 2015 budget was developed with experience of having actually managed the system as opposed to the 2014 budget, which was developed before PSEG LI actually took over operations. Additionally, for 2015 the PSEG planning tool and SAP system were available and were used to centralize the data, perform clearing and FERC accounting, and provide more detailed information for budget and actual reporting and analysis. Another benefit of the SAP budget model is that it will enable internal budget versus actual reporting directly out of the SAP system. Prior to 2015, reporting was performed manually in excel spreadsheets. Access to the detailed accounting data through the SAP system will enable comprehensive reviews and analysis leading to improved financial management of the business previously unavailable.

19

Q. Does the 2015 base year budget reflect cost constraints?

A. Yes. Both the 2014 and 2015 budgets were developed to meet the delivery rate freeze commitment that PSEG LI and LIPA had made until the commencement of new rates on January 1, 2016. In order to meet the rate freeze, it was also necessary to make additional reductions and expense deferrals in 2015 over the 2014 levels. The goal of

1

2 3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

20

21

22

1		the LIPA Reform Act and the OSA was to improve customer satisfaction to first
2		quartile levels for the industry over five years. Although PSEG LI has made
3		significant progress in just the first year of operations, the rate freeze budgets were
4		not adequate to permit PSEG LI to reach first quartile levels. Consequently, PSEG
5		LI's ability to constrain the budget in this manner was only temporary, necessitating a
6		more sustainable spending pattern in 2016 and beyond.
7 8 9	Q.	Once the budget team obtained the headcount, activity levels and other information from the functional groups in their budgets, what were the next steps in that process?
10	A.	We assisted those groups in developing their respective functional budgets for the
11		2015 base year. The functional budgets presented for T&D, Customer Services,
12		Shared and Business Services, Energy Efficiency and Renewable Energy, and Power
13		Markets are the results of that process. Expenses from PSEG Services and PSE&G,
14		as well as wages, salaries, fringe benefits and payroll taxes were also loaded into the
15		SAP system. After all the data was loaded into the SAP system, clearing allocations
16		were run, income statement and total capital spending views based on work activity
17		or capital project were developed, and a FERC accounting view of costs was
18		produced. The SAP system provides multiple views of costs (by resource, by
19		functional area, by direct versus clearing, and by FERC account).
20 21	Q.	How was payroll information for wages, salaries and benefits provided to the groups who assembled the budgets?
22	A.	The necessary information was provided to the individuals working on the budgets
23		by the HR organization. A listing of the employees comprising the PSEG LI
24		organization was provided to the group developing the budget. That group then

organized the list into the organizational structure (cost centers and activity types) for the 2015 Budget and sent this information back to the HR group. The HR group then provided current compensation data for each organizational structure. For example, upon a query for the T&D OH/UG (overhead and underground) subgroup within the T&D group, the team assembling the budget could obtain from HR the necessary compensation cost information for all of the union and non-union management, administrative supervisory and technical ("MAST") employees in that subgroup by activity type.

Q. You previously mentioned "clearing allocations." What is clearing?

10 A. Clearing costs are costs which cannot easily be directly charged to a particular work 11 activity but support a variety of work activities. Examples of clearing costs include 12 manager and administrative support, fleet and fuel, material handling, facilities, 13 information technology and fringe benefits. The costs to be cleared for a given area 14 are collected in clearing pools and then allocated to the work activities performed by 15 that area to ensure that costs are properly allocated between O&M and capital. Direct 16 charging is used whenever possible and practical. Manager and administrative 17 support clearing is applied to total payroll, union payroll, or a combination of payroll 18 and contractors, and is reflected in the budgets presented in the testimony of the 19 T&D, Customer Operations, Shared and Business Services, and Power Supply panels. 20 Fringe Benefits, OPEBs and Pensions are budgets provided by HR and Treasury 21 Services to be systematically cleared over payroll. Payroll Taxes is another loading 22 estimated at 7.6% of total payroll. Fleet and fuel loadings are applied to payroll in

1

2

3

4

5

6

7

8

1		each organization based on number of vehicles and fuel usage. Facilities costs were
2		allocated to organizations based on number of employees by location and then cleared
3		over the work activities of that organization based on payroll and contractor costs.
4		Materials handling is a loading applied to materials budgeted in the organizations as
5		withdrawn from the store-room. Information technology clearing is loaded by
6		organization being served and is applied to payroll and contractors.
7 8	Q.	What differed between the budgets presented by the individual groups and the 2015 base year budget that this Panel is presenting?
9	A.	The most obvious difference is that the individual efforts were then consolidated by
10		us into a 2015 base year budget for PSEG LI. The individual group's budgets did not
11		reflect the total allocation of clearing costs and were not presented in a FERC
12		accounting format.
13 14	Q.	Is it significant that the PSEG LI budget is presented in a FERC Account format?
15	A.	Yes it is. The use of FERC accounts presents information in a rigorous and useful
16		manner that is amenable to the audits and other oversight activities that the LIPA
17		Reform Act has determined should be performed by the Department of Public Service
18		("DPS").
19 20	Q.	Were any constraints imposed on the budgets for the period of the Rate Plan in this filing?
21	A.	No, there were not. We previously discussed the 2015 constraints to accommodate
22		the rate freeze. The T&D Budget and Operations Panel, for example, cites the
23		example of tree trimming, which ideally should be done on a four-year cycle but

which deferred moving to this cycle until 2016. As the T&D Budget and Operations Panel explains, such temporary spending constraints to facilitate the rate freeze would not permit PSEG LI to provide an industry-standard level of service quality and reliability if continued indefinitely. Other instances where spending is constrained in 2015 but reflects more normal and sustainable spending levels necessary during the 2016 to 2018 period to support the effort to move to a first quartile level are addressed in the testimony of the T&D Budget and Operations and Customer Services Budget and Operations panels. For these reasons, we adjusted certain activity levels for 2016, 2017, and 2018 such as tree trimming and substation maintenance to restore normal maintenance cycles. We then set inflationary targets for the 2016, 2017, and 2018 rate years. The budgets also took into account any activity level changes explained in the individual budgets. Finally Productivity Adjustments of \$0.6 million, \$2.5 million, and \$7.2 million, respectively, were imposed on the 2016, 2017, and 2018 budgets.

15

0.

Does the 2015 budget differ from the budgets for 2016, 2017 and 2018?

16 A. The 2015 budget is a comprehensive budget that consists of thousands of Yes. 17 separate lines of budget data. The system enables reporting on a number of different 18 categories established in the SAP data structure. Examples include cost center, cost 19 element (which is the type of work being performed such as labor, materials, 20 contractor), and order (which is the description of the work being performed). 21 Because of the level of detail contained in this budget, a high level representation of 22 the 2015 budget is presented on Exhibit (BP-1).

1

2

3

4

5

6

7

8

9

10

11

12

13

Q.	How were the 2016, 2017 and 2018 budgets developed from the 2015 comprehensive budget?
A.	The 2016, 2017 and 2018 budgets were escalated for specific factors such as
	inflation, wage, salary and benefit increases and known activity level changes such as
	placing the tree-trim and maintenance on optimal cycles, adding employees where
	necessary and reflecting additional known increases or decreases to costs and
	projects. The budgets for 2016, 2017 and 2018 are set forth at the Director level with
	the specific activity and cost level changes shown. These budgets are also presented
	on Exhibit (BP-1).
III.	<u>CONSOLIDATED BUDGETS – 2016-2018</u>
Q.	What was the next step in the budget process?
A.	Under the OSA, it is PSEG LI's responsibility, upon obtaining LIPA's budgets for the
	years in the Rate Plan, to consolidate those budgets with PSEG LI's budgets to
	produce consolidated budgets for each year in the Rate Plan.
Q.	Did LIPA's personnel provide you with its budgets?
Q. A.	Did LIPA's personnel provide you with its budgets? Yes, they did, and we worked closely with them to integrate the budgets and to ensure
Q. A.	Did LIPA's personnel provide you with its budgets? Yes, they did, and we worked closely with them to integrate the budgets and to ensure that they accurately portrayed the appropriate cost information.
Q. A.	 Did LIPA's personnel provide you with its budgets? Yes, they did, and we worked closely with them to integrate the budgets and to ensure that they accurately portrayed the appropriate cost information. Are you presenting those consolidated budgets?
Q. A. Q. A.	 Did LIPA's personnel provide you with its budgets? Yes, they did, and we worked closely with them to integrate the budgets and to ensure that they accurately portrayed the appropriate cost information. Are you presenting those consolidated budgets? No. The consolidated budgets were developed in a process that also results in the
Q. A. Q. A.	 Did LIPA's personnel provide you with its budgets? Yes, they did, and we worked closely with them to integrate the budgets and to ensure that they accurately portrayed the appropriate cost information. Are you presenting those consolidated budgets? No. The consolidated budgets were developed in a process that also results in the revenue requirement in this case. Consequently, the consolidated budgets are
Q. A. Q. A.	 Did LIPA's personnel provide you with its budgets? Yes, they did, and we worked closely with them to integrate the budgets and to ensure that they accurately portrayed the appropriate cost information. Are you presenting those consolidated budgets? No. The consolidated budgets were developed in a process that also results in the revenue requirement in this case. Consequently, the consolidated budgets are presented by the Ratemaking and Revenue Requirements Panel. The LIPA budgets
	А. Ш. Q. А.

3 In some cases we did and in some cases we did not. The following costs, which are A. 4 PSEG LI managed expenses, are booked in LIPA's general ledger: Utility 5 Depreciation; National Grid Power Supply Agreement; Nine-Mile Point II O&M; NYS Assessments; Uncollectibles; Storms; Accretion of Asset Retirement 6 7 Obligation; and Revenue and Property PILOTs. On the other hand, we accepted 8 LIPA's information about the refinancing of debt and debt service costs, debt 9 coverage, LIPA's employee costs, various contractually obligated payments and the 10 like, which are LIPA's responsibilities and were contained in LIPA's budget presentations. We then worked with LIPA personnel to consolidate LIPA's budgets 12 with PSEG LI's budgets for the years in question to produce a consolidated budget 13 that the Ratemaking and Revenue Requirements Panel used to produce the revenue 14 requirements for the three years of the Rate Plan.

15 0. Does this conclude the Panel's direct testimony at this time?

A. Yes. it does. 16

1

2

JUDGE PHILLIPS: The next panel? 1 2 MR. WEISSMAN: The next affidavit, Your Honor, covers Mr. Trainor's affidavit which covers both the Direct Prefiled 3 Testimony of Joseph Trainor on Cost of Service and Rate Design 4 5 as well as Mr. Trainor's exhibits that was filed on January 30, 6 2015 as well as the rebuttal testimony of Mr. Trainor on those 7 same subjects which was filed on June 10, 2015. The direct testimony consists of 56 pages and six exhibits. 8 9 The rebuttal testimony consists of 34 pages and six additional 10 exhibits. Would you like me to describe briefly each of those twelve exhibits? I can do that. They're identified. 11 12 JUDGE PHILLIPS: Can you just give me their numbers, the 13 range of numbers, as they are set forth in the exhibit list 14 prepared by the parties? 15 MR. WEISSMAN: That would be fine, Your Honor. The direct 16 testimony exhibits are designated Exhibit Numbers 23 through 30. 17 That is because one of the exhibits had several schedules that were separately identified. The rebuttal testimony exhibits are 18 identified as Exhibits 31 through 36. The exhibits vary in 19 20 length and size. There is Mr. Trainor's affidavit covering both 21 of those pieces of testimony and a full set of exhibits 22 (handing). 23 JUDGE PHILLIPS: We have marked for identification as 24 Exhibit 123 the affidavit of Joseph Trainor, Cost of Service,

25 Rate Design and Tariff Issues. On the basis of this affidavit,

1	we a	ask	that	his	pre-fi	led	direct	testin	nony c	cons	ist	ing o	£ 56	
2	page	es a	and h	is re	ebuttal	tes	stimony	consis	sting	of	34	pages	be	
3	cop	ied	into	the	record	as	though	given	orall	y t	oda	y.		
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-____

DIRECT PRE-FILED TESTIMONY OF JOSEPH TRAINOR ON COST OF SERVICE, RATE DESIGN, AND TARIFF ISSUES

Date: January 30, 2015

TABLE OF CONTENTS

I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY	1
II.	ECOSS METHODOLOGY	4
III.	PRESENTATION OF THE RESULTS OF THE FY 2016 ECOSS	11
IV.	MARGINAL COST OF SERVICE STUDY	13
V.	PRINCIPLES OF RATE DESIGN	23
VI.	PROPOSED REVENUE ALLOCATION AND RATE DESIGN	28
VII.	STANDBY SERVICE RATES	45
VIII.	PROOF OF REVENUES	48
IX.	PROPOSED DELIVERY SERVICE ADJUSTMENT ("DSA")	49
X.	OTHER TARIFF MODIFICATIONS	53
XI.	LI-CHOICE ISSUES	55
XII.	SUMMARY OF RECOMMENDATIONS	56

I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY
Q.	Mr. Trainor, please state your name and business address.
A.	My name is Joseph T. Trainor. My business address is 175 E. Old Country Road,
	Hicksville, NY 11801.
Q.	By whom and in what capacity are you employed?
A.	I am employed as a Senior Manager in Rates and Pricing for PSEG Long Island LLC
	("PSEG LI" or the "Company").
Q.	What are your responsibilities?
A.	My responsibilities include managing the rates and pricing department, which is
	responsible for strategic planning, cost-of-service, rate design, financial due
	diligence, financial analysis, tariff and overall ratemaking management, and rate case
	and litigation support.
Q.	Please describe your education, experience and employment history.
A.	My educational background and professional experience are outlined in my
	curriculum vitae, which is attached as Exhibit (JTT-1).
Q.	Have you previously testified before any regulatory commission?
A.	Yes, I have testified previously before the New York Public Service Commission
	("PSC"). A brief description of my previous experience as a witness is included as
	part of Exhibit (JTT-1).
Q.	What is the purpose of your testimony in this proceeding?
A.	As part of the three-year Rate Plan proposal being submitted on behalf of PSEG LI,
	the purpose of my testimony is to present the following:
	 I. Q. A. Q. A. Q. A. Q. A. Q. A.

1		1.	The forecast of total operating revenues, including all proposed revenue
2			requirement changes for the twelve months ending December 31, 2016 ("CY
3			2016"), December 31, 2017 ("CY 2017"), and December 31, 2018 ("CY 2018");
4		2.	The results of an embedded class cost of service study ("ECOSS") and a
5			marginal cost of service study ("MCOSS") performed for the Long Island Power
6			Authority ("LIPA");
7		3.	The proposed rate design for each service classification under LIPA's tariff for
8			electric service;
9		4.	Proposed changes in LIPA's tariff, including a proposed new Delivery Service
10			Adjustment ("DSA"), an increase in the residential low-income discount, a new
11			Standby service classification, proposed changes in various fees assessed under
12			the tariff, and other tariff changes as described more fully below; and
13		5.	A proposal for a collaborative to address retail choice issues.
14	Q.	Wh	at are the major issues addressed in your testimony?
15	А.	My	testimony addresses the following issues. I will:
16		1.	identify the principles and methodologies used to perform both the embedded
17			
			and marginal cost of service studies;
18		2.	and marginal cost of service studies; provide the justification for tariff language changes;
18 19		2. 3.	and marginal cost of service studies;provide the justification for tariff language changes;set forth PSEG LI's recommendation concerning LIPA's retail choice program
18 19 20		2. 3.	and marginal cost of service studies; provide the justification for tariff language changes; set forth PSEG LI's recommendation concerning LIPA's retail choice program known as Long Island Choice ("LI-Choice"); and
18 19 20 21		2. 3. 4.	and marginal cost of service studies; provide the justification for tariff language changes; set forth PSEG LI's recommendation concerning LIPA's retail choice program known as Long Island Choice ("LI-Choice"); and provide the justification and calculation for a number of rate design proposals
18 19 20 21 22		2. 3. 4.	and marginal cost of service studies; provide the justification for tariff language changes; set forth PSEG LI's recommendation concerning LIPA's retail choice program known as Long Island Choice ("LI-Choice"); and provide the justification and calculation for a number of rate design proposals including:
 18 19 20 21 22 23 		2. 3. 4.	 and marginal cost of service studies; provide the justification for tariff language changes; set forth PSEG LI's recommendation concerning LIPA's retail choice program known as Long Island Choice ("LI-Choice"); and provide the justification and calculation for a number of rate design proposals including: i. increasing Kilowatt ("KW") based demand rates;
 18 19 20 21 22 23 24 		2. 3. 4.	 and marginal cost of service studies; provide the justification for tariff language changes; set forth PSEG LI's recommendation concerning LIPA's retail choice program known as Long Island Choice ("LI-Choice"); and provide the justification and calculation for a number of rate design proposals including: i. increasing Kilowatt ("KW") based demand rates; ii. increasing the customer charge on all service rate classes;
 18 19 20 21 22 23 24 25 		2. 3. 4.	 and marginal cost of service studies; provide the justification for tariff language changes; set forth PSEG LI's recommendation concerning LIPA's retail choice program known as Long Island Choice ("LI-Choice"); and provide the justification and calculation for a number of rate design proposals including: i. increasing Kilowatt ("KW") based demand rates; ii. increasing the customer charge on all service rate classes; iii. combining and simplifying the residential service rate classes;
 18 19 20 21 22 23 24 25 26 		2. 3. 4.	 and marginal cost of service studies; provide the justification for tariff language changes; set forth PSEG LI's recommendation concerning LIPA's retail choice program known as Long Island Choice ("LI-Choice"); and provide the justification and calculation for a number of rate design proposals including: i. increasing Kilowatt ("KW") based demand rates; ii. increasing the customer charge on all service rate classes; iii. combining and simplifying the residential service rate classes; iv. combining the grandfathered service sub-classes from 1983 with their
 18 19 20 21 22 23 24 25 26 27 		2. 3. 4.	 and marginal cost of service studies; provide the justification for tariff language changes; set forth PSEG LI's recommendation concerning LIPA's retail choice program known as Long Island Choice ("LI-Choice"); and provide the justification and calculation for a number of rate design proposals including: i. increasing Kilowatt ("KW") based demand rates; ii. increasing the customer charge on all service rate classes; iii. combining and simplifying the residential service rate classes; iv. combining the grandfathered service sub-classes from 1983 with their current corresponding service classes;
 18 19 20 21 22 23 24 25 26 27 28 		2. 3. 4.	 and marginal cost of service studies; provide the justification for tariff language changes; set forth PSEG LI's recommendation concerning LIPA's retail choice program known as Long Island Choice ("LI-Choice"); and provide the justification and calculation for a number of rate design proposals including: i. increasing Kilowatt ("KW") based demand rates; ii. increasing the customer charge on all service rate classes; iii. combining and simplifying the residential service rate classes; iv. combining the grandfathered service sub-classes from 1983 with their current corresponding service classes;

1		vi. changing certain service classes' demand ratchets;
2		vii. modifying the residential low income discount;
3		viii. modifying Standby rates and terms of service;
4		ix. proposing adoption of a Delivery Service Adjustment ("DSA"); and
5		x. modifying certain service fees.
6	Q.	Please list the exhibits you are presenting with your testimony.
7	A.	I am presenting the following exhibits:
8		Exhibit (JTT-1): Curriculum Vitae of Joseph T. Trainor
9		Exhibit (JTT-2): Methodology and Results of CY 2016 ECOSS
10		Exhibit (JTT-3): Methodology and Results of CY 2016 MCOSS
11		Exhibit (JTT-4): Allocation of Revenue Requirements, Proof of Revenue and
12		detailed bill impact statements.
13		Exhibit (JTT-5): Proposed Tariffs for CY 2016, CY 2017 and CY 2018
14		Exhibit (JTT-6): Listing of Proposed Tariff Changes
15	Q.	Please describe the sections of your testimony.
16	A.	Section II identifies the ECOSS principles and allocation methods. Section III
17		presents the detailed results of the ECOSS for CY 2016. Section IV presents the
18		results of the MCOSS. Section V describes and supports the various principles of
19		rate design and Section VI presents the proposed revenue allocation and rate design
20		for LIPA for CY 2016, CY 2017 and CY 2018. Section VII presents proposed
21		changes to LIPA's Standby Service classification. Section VIII presents and
22		discusses the proof of revenues. Section IX presents the proposal for a new DSA.
23		Section X describes the proposed non-rate tariff modifications. Section XI describes
24		proposals for LI-Choice. Section XII presents a summary of my recommendations.

I

II.

ECOSS METHODOLOGY

Q. Please describe the purpose of performing an ECOSS.

A. There are many purposes for utility cost analysis ranging from designing rates that reflect appropriate price signals to determining the share of costs or revenue requirements borne by various customer rate classes. In this case, an embedded cost study is a useful guide for the allocation of LIPA's revenue requirements. A bundled fully-allocated ECOSS analyzes all the functional components of the utility's cost-of-service and assigns plant investments and operating expenses, including fuel supply costs, to arrive at a determination of the total costs incurred by the utility in providing products and services to each customer rate class. Each component of plant, expenses and revenue is allocated among the existing customer rate classes, to determine the portion of the total costs incurred by LIPA that can be attributed to the various customer rate classes based on "cost causation" principles.

Cost causality describes the cause and effect relationship between customer requirements, load profiles and usage characteristics, and the costs incurred by the utility to serve those requirements. In preparing an ECOSS, all of the utility's costs of providing service must be analyzed and allocated among the customer rate classes.

One of the results provided by the ECOSS is the revenue to cost ratio for each customer rate class (as defined above), which can be analyzed to determine if the revenue produced by the current rates produces inter-class subsidies. These results for LIPA are shown in Exhibit __ (JTT-2), Section 3. Another result is the calculation of the revenue required from each customer rate class in order for that

customer rate class to pay for all of its assigned costs. These results for LIPA are shown in Exhibit __ (JTT-2), Section 4, Schedule E.

Q. Please discuss the reason for preparing an ECOSS.

A. Embedded cost studies attempt to analyze which customer or group of customers cause the utility to incur the costs to provide service. The requirement to develop cost studies results from the nature of utility costs. Utility costs are characterized by the existence of common and joint costs. In addition, utility costs may be fixed or variable. Finally, utility costs exhibit significant economies of scale. These characteristics have implications for both cost analysis and rate design from a theoretical and practical perspective. The development of embedded cost studies requires an understanding of the operating characteristics of the utility system. Further, as discussed below, embedded cost studies provide valuable information to the development of economically efficient rates and the cost responsibility for each customer rate class.

O.

Please describe how an ECOSS is prepared.

A. The general approach utilizes a three-step process to analyze each component of plant, expenses, and revenue. The first step is functionalization of each element according to its place in LIPA's delivery chain. For LIPA, these functions are production, transmission, primary distribution (13Kv), secondary distribution, Customer Records and Collections. The second step is classification of each functionalized cost element according to the usage characteristic it satisfies. For LIPA, these classifications are demand/capacity, energy/commodity, or customer.

1		For simplicity of presentation LIPA's ECOSS model combines the functionalization
2		and classification steps into one schedule. The final step is class allocation. Class
3		allocation comprises the allocation of each functionalized and classified cost element
4		among the customer rate classes, taking into account each customer rate class's
5		consumption levels and consumption characteristics.
6	Q.	What is the purpose of the functionalization step of an ECOSS?
7	A.	In the functionalization step, costs are separated by basic service functions. For
8		purposes of the ECOSS, these functions have been identified as follows:
9		• Production – All facilities used to supply electricity to the transmission and
10		distribution system.
11		• Transmission – Bulk transmission system, designed to move power from
12		generation sources to the primary distribution system, operating at voltages of 138
13		kV and up.
14		• Primary Distribution – Designed to move power from the transmission system to
15		the secondary distribution system and to customers' premises; includes
16		substations as well as conductors operating at voltages of 2.4kV up to 13 kV and
17		related assets.
18		• Secondary Distribution – Designed to move power from the primary distribution
19		system to customers' premises, includes service drops.
20		• Customer Records and Collections – The utility's back office functions that
21		enable the utility to read meters, calculate and mail bills, provide customer service
22		and perform collections.
23	Q.	What are the purposes of the classification step of an ECOSS?
24	A.	In the classification step, the previously functionalized accounts are classified as
25		Demand/Capacity, Commodity, or Customer, according to the system design or

operating characteristics that cause them to be incurred. Demand- or capacity-related costs are associated with plant that is designed, constructed, and operated to meet system peak demand or non-coincident class peak demand. Commodity-related costs vary with electricity sold to or delivered to customers. Customer-related costs are incurred to attach a customer to the distribution system, to meter the customer's usage, and to maintain both customer-related distribution assets and the customer's account. Customer-related costs are primarily a function of the number of customers served, and they continue to be incurred regardless of whether a particular customer uses any electricity, and typically do not vary with usage or load profile. They include capital costs associated with the customer portion of the primary and secondary distribution system, services and meters, operating costs associated with those assets, as well as costs of performing customer service, field service, billing, and accounting.

14

Q. What is the purpose of the class allocation step of the ECOSS?

A. In the class allocation step, the functionalized, classified costs are allocated among
the rate classes based on causal relationships. These relationships are determined by
analyzing a utility's system design and operations, its accounting records, and its
system and customer load data. Based on those analyses, each asset and cost is either
directly assigned to a rate class or an appropriate cost allocator is chosen.

20Q.Please summarize the cost of service approach that you followed in performing
the ECOSS.

A. The most critical task in performing an ECOSS is establishing relationships between
 customer requirements, load profiles, and usage characteristics, and the costs incurred

1

2

3

4

5

6

7

8

9

10

11

12

1		to serve those requirements. LIPA has designed its integrated system to meet three
2		primary objectives:
3 4		 to extend delivery services capabilities to all customers; to meet the aggregate capacity requirements of all customers entitled to
5		receive service at peak hours and on peak days; and
6		3. to deliver energy (kWh) and capacity (kW) to those customers.
7		It is important that the allocation methods used in the ECOSS recognize these
8		cost drivers for LIPA's plant investments and operating expenses. The ECOSS
9		should objectively reflect cost causation factors attributable to the utility's customers,
10		their energy usage requirements, and system operations, and to the extent possible,
11		should not be influenced by desired end-results, customer equity, or other rate design
12		considerations. Those issues can be addressed through policy decisions outside of the
13		ECOSS process.
14		The ECOSS was performed using LIPA's EXCEL based spreadsheet Electric
15		ECOSS Model ("Model"). The Model is structured to support the three-step process
16		that I previously described.
17	Q.	What customer rate classes are included in the ECOSS?
18	А.	The following is a list of service classes and the corresponding rate codes identifying
19		the eleven customer rate classes presented in the ECOSS:
20 21		1. <u>Residential - Non Time of Use ("TOU"):</u> Service Classification No. 1 (Rate Codes: 180, 183, 186, 380, 480, 481)
22 23		 <u>Residential Heat:</u> Service Classification No. 1 (Rate Codes: 580, 581, 880, 881, 882, 883)

1		3.	Residential TOU: Service Classification No. 1-VMRP (Rate Codes: 181,
2			182,184,188)
3		4.	Small Commercial: Service Classification No. 2 & No. 2-VMRP (Rate Codes
4			280, 288)
5		5.	Large Commercial: Service Classification No. 2-L & No. 2-H& No. 2LVMRP
6			(Rate Codes 281, 282, 283, 290, 291, 293)
7		6.	Mandatory Large Demand Metered Service with Multiple Rate Periods: Service
8			Classification No. 2-MRP (Rate Codes 284, 285)
9		7.	Back-Up and Supplemental Service: Service Classification No. 12 (Rate Code:
10			681)
11		8.	Recharge NY Delivery Service: Service Classification No. 2-MRP (Rate Code
12			680)
13		9.	Long Island Rail Road: Service Classification No. 13
14		10.	Private Outdoor Lighting: Service Classification No. 7 (Rate Codes 780, 781,
15			782)
16		11.	Traffic Signal Lighting and Public Street and Highway Lighting Energy and
17			Connections: Service Classification No. 5 & No. 10 (Rate Codes 980, 1580,
18			1581)
19			The eleven categories above without inclusion of SC-13 (except for the Long
20		Islan	nd Rail Road) will be referred to as LIPA's customer rate classes. The ECOSS
21		prese	ents the revenues from SC-13 as other revenues allocated to all other customer
22		rate	classes.
23 24	Q.	Does cust	s LIPA's tariff contain service classifications that are not included as omer rate classes in the ECOSS?
25	A.	Yes.	Service Classification No. 11 sets forth the terms and conditions under which
26		LIPA	A provides "Buy-Back service" to electric generation customers. Service
27		Clas	sification No. 14 sets forth the terms and conditions of LIPA's service to energy

service companies ("ESCOs") under LIPA's retail choice program. Service Classification No. 16 sets forth the terms of LIPA's advanced metering initiative pilot program. Customers served under these service classifications take service under another service classification as well. Thus, there is no reason to include these service classifications in the ECOSS.

How did you determine the appropriate approach for functionalizing,

6 7 8

9

10

11

0.

classifying, and allocating each component of plant, annual expense and revenue?A. Selection of the appropriate approach for functionalizing, classifying and allocating each component of plant, annual expense, and revenue was based on careful consideration of cost causality, as well as PSC precedent and generally accepted

- 12 utility and regulatory practices.
- 13 **Q.** Please explain how allocation bases are derived.

14 A. Two types of allocation bases, or allocators, are typically used in performing an ECOSS and employed in the ECOSS Model: external allocators and internal 15 16 allocators. External allocators are based on special studies derived from data in the 17 utility's accounting and other records. For example, an external allocator has been 18 developed based on energy sales and the volume of energy consumed by each customer rate class, and is used to allocate fuel costs. Other examples of factors used 19 20 to develop external allocators are number of customers, load research results such as 21 non-coincident peak and coincident peak, load demand factors, and historical 22 collection experience. Exhibit __ (JTT- 2), Section 6, describes the main external 23 allocators that were developed for use in the ECOSS.

1

2

3

4

3

4

5

6

7

8

Q. What are internal allocators?

A. Internal allocators are based on some combination of external allocators, previously directly assigned costs, and other internal allocators. For example, the allocators for property insurance (FERC Account 924) costs are based on plant investment amounts; it is necessary to compute the plant investment at each step of the model (i.e. functionalization, classification, and allocation by customer rate class) before property insurance costs can be assigned. Both external and internal allocators are used in each of the allocation steps.

9

Q. What data did you use in preparing the ECOSS?

10 A. The ECOSS study results are presented using the proposed revenue requirement for CY 2016. This is the same data presented by the Revenue Requirements Panel. This 11 12 data was developed using a public power revenue requirement model and thus it was 13 not developed and is not available by FERC account, and does not include forecast 14 plant balances. However, that information is needed to develop the allocation factors 15 used in the ECOSS. Accordingly, net plant balances as of December 2013 and 16 operation and maintenance expenses by FERC account based on the 2016 PSEG LI 17 budget were used to prepare the ECOSS.

18

III. <u>PRESENTATION OF THE RESULTS OF THE FY 2016 ECOSS</u>

- 19 Q. Please describe Exhibit __ (JTT-2).
- A. This exhibit describes the methodology that was used to perform the ECOSS and
 presents the results of the ECOSS. The methodology used in the exhibit follows the

general ECOSS principles outlined above. Exhibit __ (JTT-2) is divided into six sections:

- Section 1 Introduction an overview of the ECOSS
- Section 2 ECOSS Assignments and Allocation This section describes how each plant, expense, and revenue component of the ECOSS was assigned or allocated in the three step process: Functionalization, Classification, and customer rate class Allocation. Plant, expenses, and revenues are listed in detail using either budget line references or the Uniform System of Accounts (FERC Accounts). The remainder of the testimony will refer to the ECOSS line details as the Detail Account Listing. This section will also serve as a guide when reviewing the functionalized, classified and allocated details in Section 4 of Exhibit __ (JTT-2).
- Section 3 Results by customer rate class This section presents the revenue to expense ratio for each of the previously defined customer rate classes.
 - Section 4 Detailed model printouts This section contains detailed ECOSS schedules:
 - Schedule A: The cost-of-service results by Detail Account Listing for each plant, expense, and revenue item functionalized, classified and allocated to each customer rate class and showing the revenue to expense ratio;
 - Schedule B: Functionalized cost-of-service by Detail Account Listing for each plant, expense, and revenue item functionalized;
 - Schedule C: Classified cost-of-service by Detail Account Listing for each plant, expense, and revenue item;
 - Schedule D: By Function, By Classification -- a detailed list of each plant, expense and revenue item allocated to each customer rate class, showing the calculated revenue to expense ratio;

1		• Schedule E: This section describes how each plant, expense and revenue
2		component of the ECOSS was assigned or allocated in each of the three
3		steps - Functionalization, Classification, and Summary Schedule Allocation.
4		Plant, expenses and revenues are listed in detail using both the Budget and
5		the Uniform System of Accounts (FERC Accounts). This section will also
6		serve as a guide when reviewing the functionalized, classified and allocated
7		detailed exhibits in Section 4, which are also presented using the Uniform
8		System of Accounts.
9		• Schedule F: Presents the Unit Costs per Rate Class.
10		• Section 5 - Listing of internal and external allocators for each Rate Class.
11		• Section 6 - Presents a summary description of main external allocators.
12 13	Q.	Please summarize the ECOSS results by customer rate class as shown on the summary table in Exhibit (JTT-2), Section 3.
14	А.	The summary table in Exhibit (JTT-2), Section 3 shows the results of the revenue
15		to cost ratio for each customer rate schedule. This table indicates the following
16		results based on the costs incurred to serve the various customer rate schedules:
17		• the residential customer service classes recover less than the fully allocated cost
18		of service;
19		• the commercial service classes recover more than the fully allocated cost of
20		service.
21	IV.	MARGINAL COST OF SERVICE STUDY
22 23	Q.	Please briefly describe the theory and purpose of performing a Marginal Cost of Service Study ("MCOSS").
24	A.	The purpose of a MCOSS is to determine the marginal cost of providing incremental
25		service to certain of LIPA's largest service classes. This study is used to set the
26		Excelsior Jobs Program rates. Marginal cost studies focus on the change in costs

1		associated with a small change in output. Marginal costs are forward looking and
2		require estimates of future costs and an understanding of the elements that drive those
3		future costs. Marginal costs are not historic costs because marginal costs are
4		prospective and reflect changes in technology. Also, the impact of inflation causes
5		marginal costs to differ from historical costs.
6 7	Q.	Please describe Exhibit (JTT-3) and list and briefly describe the schedules presented as part of that Exhibit?
8	A.	Exhibit (JTT-3) presents the results of the MCOSS and consists of four schedules:
9		Schedule 1 – sets forth the calculation of the marginal demand-related distribution
10		costs.
11		Schedule 2 – sets forth the calculation of the weighted average customer cost.
12		Schedule 3 – sets forth the calculation of the marginal customer-related distribution
13		costs.
14		Schedule 4 - sets forth the calculation of the marginal distribution revenue
15		requirement and calculates the Base Rate Energy Charge for the Excelsior Job
16		Program.
17	Q.	Please describe the components of marginal costs that you have determined.
18	A.	A MCOSS estimates the cost of providing an additional unit of service. In this case,
19		service is defined as the basic functions performed by LIPA to provide electric
20		service to its customers. These basic functions are:
21		1) adding new capacity to the transmission system.
22		2) adding new capacity to the distribution system.
23		3) delivering electricity to customers using LIPA's distribution system.
24		The marginal cost of delivering electricity to LIPA's customers has two cost
25		drivers. The first cost driver is LIPA's obligation to meet its customers' Non-

Coincident Peak ("NCP") demand, and the second cost driver is LIPA's obligation to connect each customer to the distribution system. Therefore, the MCOSS presents both a demand component and a customer component of the marginal cost of distribution.

Q. Please provide an overview of how you calculated the marginal cost of service.

 A. The objective of the MCOSS analysis was to quantify the marginal costs LIPA incurs to deliver additional units of load on its electric distribution system and to connect an additional customer. I began by identifying the following two major marginal costs: marginal customer costs and marginal demand or capacity costs.

Marginal customer costs are the additional costs incurred by LIPA to add a customer to the system. These include the capital costs of a service and a meter, as well as the incremental operating, maintenance, and administrative and general expenses. Marginal customer costs are expressed as incremental annual costs per customer.

Marginal demand costs are those additional costs associated with serving an additional unit of demand during the peak period. These marginal costs are the capital costs of adding new transmission and distribution facilities relative to increasing customer demands for electricity. Marginal demand costs are expressed as an incremental annual cost per kW of demand.

20

Q. What rate classes are included in the MCOSS?

A. The MCOSS included LIPA's main customer service classes. However, it excludes
 contract and discount customer service classes because these classes would have the

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

1		same marginal costs as the comparable non-contract or discount service classes.
2		Lighting classes are also excluded because the marginal cost to serve these classes
3		does not affect LIPA's rates. The following is list of service classes and the
4		corresponding rate codes identifying the six customer rate classes presented in the
5		MCOSS:
6		1. <u>Residential - Non Time of Use ("TOU"):</u> Service Classification No. 1 (Rate
1		Codes: 180, 183, 186, 380, 480, 481);
8		2. <u>Residential Heat:</u> Service Classification No. 1 (Rate Codes: 580, 581, 880, 881,
9		882, 883);
10		3. <u>Residential TOU:</u> Service Classification No. 1-VMRP (Rate Codes: 181,
11		182,184,188);
12		4. <u>Small Commercial:</u> Service Classification No. 2 & No. 2-VMRP (Rate Codes
13		280, 288);
14		5. <u>Large Commercial:</u> Service Classification No. 2-L & No. 2-H& No. 2LVMRP
15		(Rate Codes 281, 282, 283, 290, 291, 293);
16		6. <u>Mandatory Large Demand Metered Service with Multiple Rate Periods:</u> Service
17		Classification No. 2-MRP (Rate Codes 284, 285).
18		The six categories above will be referred to as LIPA's marginal customer rate classes.
19 20	Q.	Please describe how the marginal cost of additions to LIPA's transmission system was calculated.
21	A.	The marginal cost of additions to the transmission system is driven by LIPA's
22		incremental capacity-related plant investments needed to serve new load. The
23		incremental investment costs associated with transmission were derived from
24		engineering estimates and information that was contained in PSEG LI's capital
25		budget for 2015.

1		The transmission investment costs include loadings for labor and general
2		plant. The resulting capacity-related investment costs are then escalated to the rate
3		year 2016 in this case - using the ten year historical compound annual growth rate
4		as set forth in the Handy-Whitman Transmission Plant index for the North Atlantic
5		region. This calculation resulted in a marginal transmission plant investment cost of
6		\$218 per kW as shown on Exhibit (JTT-3), Schedule 1 Column C.
7 8	Q.	Please describe how the marginal cost of additional investment in the primary and secondary distribution systems was calculated.
9	A.	The incremental investment costs associated with the primary and secondary
10		distribution systems were derived from engineering estimates and information that
11		was contained in PSEG LI's Work Management System and the Company's work
12		orders that were established to construct new facilities. This work order information
13		was separated into residential and non-residential rate categories to obtain a rate
14		class-specific estimate of primary and secondary distribution investment costs.
15		The marginal primary and secondary distribution investment costs include
16		loadings for labor and general plant. The resulting capacity-related investment costs
17		were escalated to the 2016 rate year using a weighting of the Handy-Whitman Index
18		for the various components of the primary and secondary distribution system. The
19		results per kW of demand investment costs are presented on Exhibit (JTT-3),
20		Schedule 1 Column D.

Q. Please describe the source of the data for the marginal average transformer investment costs by rate class.

The marginal investment costs by rate class for transformers were based on a study of A. net book value of transformers by type. Each transformer type was assigned to a service classification based on the transformer size and quantity in service. This study was performed instead of a full replacement study due to the fact that customers in various service classifications share transformers. This resulted in the assignment of the net transformer plant balance to each service classification. This allocation of net transformer plant to each marginal customer rate class was then scaled to the total gross plant balance of transformer plant. The total gross plant balance allocated to each marginal customer rate class was then divided by the marginal customer service class's NCP demand to calculate a per kW marginal investment cost. These marginal investment costs were then loaded with general plant and escalated to the 2016 rate year using the appropriate Handy Whitman indices. The resulting marginal investment costs for transformers are presented in Exhibit __ (JTT-3), Schedule 1 Column E.

17 18

Please describe the source of the data for the average marginal service investment costs by rate class.

A. The marginal investment costs by rate class for services are the full replacement costs
identified by PSEG LI's Work Management System and the Company's work orders
for service facilities in 2014. These investment costs were then loaded with labor
burdens and general plant and escalated to the 2016 rate year using the appropriate

1

2 3

4

5

6

7

8

9

10

11

12

13

14

15

16

0.

Handy Whitman indices. The resulting marginal investment costs for services are 1 2 presented in Exhibit (JTT-3), Schedule 3 Column A. 3 **O**. Please describe the source of the data for the marginal meter investment cost by 4 rate class. 5 A special study of meter investment was performed by PSEG LI to obtain the fully A. 6 loaded cost of a new meter installation based on the typical meter used by each 7 service classification. The new meter costs were then loaded with installation labor, 8 labor burdens and general plant and escalated to the 2016 rate year using the Meter 9 Handy Whitman Index. The resulting marginal investment costs are presented in Exhibit __ (JTT-3), Schedule 3 Column D. 10 Q. Please describe how the weighted average marginal customer cost was 11 calculated. 12 13 A. Marginal customer account and record expenses include the costs associated with 14 meter reading, customer records and assistance, and collections. These expenses 15 were taken from the allocated account balances provided in the embedded cost of 16 service study for the calendar year 2016. These account balances were divided by the 17 total projected number of LIPA customers in 2016 to arrive at a base annual customer 18 cost. The number of customers was adjusted to recognize the relative degree of effort 19 that is required by LIPA to provide customer account services for the different types 20 of customers, (i.e., SC-1 Residential, SC-2 Commercial). This adjustment, which is 21 described more fully below, allows the annual expense to be allocated to customers 22 based on service class. This results in an annual adjusted marginal customer cost of 23 \$135 presented in Exhibit __ (JTT-3), Schedule 2.

1 2	Q.	Please describe how marginal demand-related transmission costs were computed.
3	A.	The marginal demand-related cost component of transmission investments includes
4		the demand related transmission, its associated operating expenses, and general plant
5		loaders escalated to the 2016 rate year. The fully loaded investment costs are then put
6		into annual terms by applying an Economic Carrying Charge Rate ("ECCR") of 11.3
7		percent, as shown on Exhibit (JTT-3), Schedule 1.
8 9	Q.	Please describe how the ECCR of 11.3 percent for transmission plant was computed.
10	A.	The annual ECCR is the amount, stated as a percent of original cost that will permit
11		recovery of all transmission investment, as well as the corresponding operating and
12		maintenance ("O&M") expenses, insurance and other taxes over the economic life of
13		the asset. The ECCR includes depreciation expense, O&M expenses, property taxes,
14		return and income taxes. These inputs are entered into a model that determines the
15		levelized ECCR. The levelized ECCR is based on an assumed weighted average cost
16		of capital of 4.70 percent, grossed up for debt coverage of (1.35), for the depreciation
17		life of the transmission plant. The ECCR also includes 1.59 percent for O&M costs
18		for transmission plant, which are calculated by dividing transmission O&M costs
19		from the 2016 budget by the transmission gross plant in 2013 adjusted upward to full
20		replacement value. Other inputs to the ECCR calculation are 10.26 percent for
21		insurance and other taxes (i.e., property taxes). These inputs results in a calculated
22		rate of 11.3 percent for the levelized ECCR used in the calculation of the marginal
23		cost of transmission plant.

Q. Please describe how marginal customer-related distribution costs were computed.

3 A. Exhibit (JTT-3), Schedule 3 shows the development of the annual, marginal 4 customer-related distribution cost. This customer cost includes cost components 5 related to services, meters, and customer expenses. The current investment cost for services and meters as described previously is put into annual terms using the ECCR 6 7 for each respective investment type. The ECCR is determined in a similar manner to 8 the transmission ECCR as described above. The customer expense cost component is 9 based on the adjusted customer cost developed by the ECOSS study in Exhibit ____ 10 (JTT-2), Section 4, Schedule D, pages 91 through 102, multiplied by the estimated 11 relative degree of customer account service effort. The sum of the annual customer 12 expenses for services, meters and customer accounts results in the marginal customer-13 related distribution cost shown in column J of Exhibit __ (JTT-3), Schedule 3.

14 15

Q. Please explain how you estimated the relative degree of customer account service effort by rate class.

16 The marginal customer expense adjustment factors shown in Exhibit __ (JTT-3), A. 17 Schedule 3, Column H were developed using the customer expenses set forth on the 18 total expense line of the ECOSS Customer Records and Collections table, Exhibit ____ 19 (JTT-2), Section 4, Schedule D, page 95 (Row 66). There are three residential service 20 classifications in the MCOSS. The costs of these three residential service 21 classifications were summed and then divided by the total number of residential 22 customers to obtain the per-residential customer account cost of \$173. For the 23 remaining marginal customer rate classes, the embedded allocation of customer

1

expenses as shown on the total expense line of the ECOSS Customer Records and Collections tab was divided by each service classification's number of customers and compared to the residential customer account cost of \$173. The weighting factor is calculated for the non-residential service classifications by dividing their cost results by the residential customer account cost of \$173 to obtain non-residential weighting factors.

Q. Please explain why the marginal cost per customer by service class used the embedded costs from the ECOSS.

9 The marginal customer costs for delivery service include the expenses associated with A. 10 meter reading, billing, customer service, and a variety of other costs. Because of the 11 difficulty of determining the change in customer care costs associated with adding a 12 single customer (other than the cost to print and mail a bill), the MCOSS calculates 13 customer care costs to classes based on the cost of adding a block of new customers 14 to the system. The marginal cost of adding a block of new customers to the system will approach the embedded allocation of costs when the block is large enough to 15 16 cause investment in new employees and systems to handle the added requirements of 17 the new customers. An example of new employees is the number of employees 18 needed to render bills and customer service representatives needed to serve the new 19 block of customers. An example of systems is new printing and sorting machines to 20 handle the increased number of bills, and new computers purchased to support the 21 new customer service representatives.

1

2

3

4

5

1	Q.	Did you calculate a marginal revenue requirement?
2	A.	Yes, the marginal revenue requirement is shown in Exhibit (JTT-3), Schedule 4,
3		Column J. The demand-related costs are calculated by multiplying each rate class's
4		NCP by the demand-related marginal investment cost per kW. The customer-related
5		costs are calculated by multiplying the number of customers in each rate class by the
6		customer-related marginal investment cost per customer.
7	Q.	Were the results of the MCOSS used to design delivery rates?
8	А.	Yes. As I mentioned previously, the MCOSS results were used to design rates from
9		the Excelsior Job Program. The rates for participants in this program are based on the
10		incremental cost of serving new load. I propose to set the Excelsior Jobs Programs'
11		Base Energy Charge at \$0.0158 per kWh for Service Classification No. 2 - MRP for
12		the incremental load that is added on LIPA's distribution system under the program
13		subsequent to the date of the Empire State Development's ("ESD") approval of the
14		customer's Excelsior Jobs Program certification. No demand charge will be assessed
15		for the customer's incremental load subsequent to the ESD Approval Date for as long
16		as the customer remains in the program.
17	v.	PRINCIPLES OF RATE DESIGN
18 19	Q.	Please identify the principles of rate design you have applied in developing your proposed rate design.

- A. A number of rate design principles or objectives find broad acceptance in regulatory
 and energy policy literature. These include:
- 22 1. Efficiency;

23

2. Cost-of-service;

1		3. Value of Service;
2		4. Stability;
3		5. Non-Discrimination;
4		6. Administrative Simplicity; and
5		7. Balanced Budgets.
6		These rate design principles draw heavily on the "Attributes of a Sound Rate
7		Structure" developed by James Bonbright in Principles of Public Utility Rates. ¹ Each
8		of these principles plays an important role in the recommendations developed in my
9		testimony. Each of these principles is discussed below.
10	Q.	Please discuss the principle of efficiency.
11	А.	The principle of efficiency broadly incorporates both economic and technical
12		efficiency. As such, this principle has both a pricing dimension and an engineering
13		dimension. Economically efficient pricing promotes good decision-making by
14		consumers, fosters efficient expansion of production and delivery capacity, results in
15		efficient capital investment in customer facilities, and allows for the efficient use of
16		existing electric supply and delivery resources. Efficiency benefits consumers by
17		fostering economies of scale that are consistent with the best cost-of-service.
18		Technical efficiency means that the development of the system is designed
19		and constructed to meet the peak load requirements of customers using the most
20		economic equipment and technology consistent with design standards. Efficiency

¹ <u>Principles of Public Utility Rates</u>, 1961, by James C. Bonbright, Albert L. Danielsen and David R. Kamerschen.

recognizes that load diversity increases as the facilities move further away from the customer.

Q. Please discuss the cost-of-service and value of service principles.

A. These principles each relate to designing rates that recover the total revenue requirement without causing inefficient choices by consumers. The cost-of-service principle contrasts with the value of service principle when certain transactions do not occur at price levels determined by embedded cost-of-service. In essence, the value of service acts as a ceiling on prices. Where prices are set at levels higher than the value of service, consumers will not purchase the service.

The calculation of a "true" cost-of-service is complicated by the fact that for network industries like the electric industry, the provision of public utility service often involves joint and common costs that must be allocated (rather than directly assigned) to specific customer classes or customer rate classes to develop a full costof-service study While a good fully distributed cost-of-service analysis can be performed using principles of cost causation, informed judgment is nonetheless required to perform such a study. A fully distributed cost-of-service study, properly reflecting cost causation principles and employing sound methods provides a reasonable tool for the allocation of the total revenue requirement to customer classes (inter class distribution) and within the customer classes (intra class distribution).

20

Q. Please discuss the principle of stability.

A. This principle is the proposition that reasonably stable and predictable prices are
important objectives of a proper rate design.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18
2

3

4

5

6

7

8

9

0.

Please discuss the concept of non-discrimination.

A. The concept of non-discrimination requires prices designed to promote fairness and avoid undue discrimination. Fairness requires no undue subsidization either between customers in the same class or across different classes of customers. This principle also recognizes that the ratemaking process requires discrimination where there are factors at work that cause the discrimination to be useful in accomplishing other objectives. For example, things like the location, type of meter and service, demand characteristics, size, and a variety of other considerations are often recognized in the design of utility rates to properly distribute the total cost-of-service to and within customer classes.

11

10

Q. Please discuss the principle of administrative simplicity.

12 A. The principle of administrative simplicity as it relates to rate design requires that 13 prices be reasonably simple to administer and understand. This concept includes 14 price transparency within the constraints of the ratemaking process. Prices are transparent when customers are able to reasonably calculate and predict bill levels 15 16 and interpret details about the charges resulting from the application of the tariff.

17

19

21

0. Please discuss the principle of the balanced budget.

18 A. The principle of the balanced budget requires that a rate design permit the utility a reasonable opportunity to recover the allowed revenue requirement based on the cost-20 of-service. Proper design of utility rates is a necessary condition to enable an effective opportunity to recover the cost of providing service included in the revenue

1		authorized by the regulatory authority. This principle is very similar to the stability							
2		objective I previously discussed from the perspective of customer rates.							
3	Q.	How are these principles translated into the design of electric rates?							
4	А.	The process of developing rates consistent with these principles requires a detailed							
5		understanding of all the factors that affect rate design. These factors include:							
6 7		1. system cost characteristics, such as the embedded customer, demand and energy related costs, by type of service;							
8 9		2. customer load characteristics such as peak demand, load factor, and quality of service;							
10 11		3. market considerations, such as elasticity of demand, competitive alternatives and end-use load characteristics; and							
12		4. other considerations, such as the value of service ceiling/marginal cost floor,							
13		unique customer requirements, areas of under-utilized facilities, opportunities							
14		to offer new services, and the status of competitive alternatives.							
15		In addition, the development of rates must consider existing rates and the customer							
16		impact of modifications to the rates.							
17		In each case, a rate design seeks to recover the authorized level of revenue							
18		based on the actual billing determinants used to develop the rates. Critical to the rate							
19		making process is the requirement that the rates provide an opportunity for LIPA to							
20		fully recover its cost of service.							
21 22	Q.	Do the factors discussed above, along with rate design goals such as efficiency, dictate a specific rate design?							
23	A.	No. There are a number of rate design forms that may be considered in light of the							
24		factors affecting rate design and the underlying goals. Rate design concepts such as							
25		declining block rates, flat rates, and many others all have merit. The more							

fundamental question is whether the rate design promotes efficiency in recovering costs and provides accurate, fair price signals.

VI.

0.

PROPOSED REVENUE ALLOCATION AND RATE DESIGN Please summarize Exhibit (JTT-4) that sets forth the proposed revenue

allocation, rate design, and bill impacts.
A. Exhibit __ (JTT-4) consists of five schedules and supports the proposed revenue allocation, rate design, and resulting bill impacts for calendar years ("CY") 2016, 2017, and 2018. Where appropriate, these schedules set forth differences in bill impacts for customers in Nassau County and the Rockaways as compared to Suffolk County to account for the impact of the Shoreham Property Tax Settlement Rider and certain applicable sales taxes. These schedules are as follows:

- Schedule 1 of Exhibit ____ (JTT-4) summarizes the effects of the proposed revenue allocation and rate design on the forecasted revenues by customer rate class. It shows revenues by customer rate class under present and proposed rates and the dollar and percentage increases that result. Schedule 1 allocates the proposed revenue increase of \$72,747,000 as set forth on the revenue requirements exhibit (Exhibit ____ (RRP-1)) minus the increase in the Fuel and Purchased Power Cost Adjustment ("FPPCA") and other pass through charges that will be set independent of delivery rates.
 - Schedule 2 presents the service and demand charges by service classification and the calculation of the new Standby Rates based on the Unit Costs analysis from the ECOSS.

 Schedule 3 details the specific delivery rate changes for each rate block for each class for CY 2016 – CY 2018. These changes are discussed in detail below.

1		• Schedule 4 provides monthly bill comparison tables that show the net impact
2		of the proposed rates at different monthly usage levels for Rate Codes 180,
3		184, 580, 280, 281, and 285.
4		• Schedule 5 provides annual bill comparison tables that show the net impact of
5		the proposed rates at different annual usage levels for Rate Codes 180, 184,
6		580, 280, 281, and 285.
7		• Schedule 6 provides monthly bill comparison tables based on the total
8		customer bill which includes FPPCA, payments in lieu of taxes ("PILOTS")
9		and other charges but are held constant at different monthly usage levels for
10		Rate Codes 180, 184, 580, 280, 281, and 285. This schedule provides the
11		results based on a total bill for the delivery rate changes.
12		• Schedule 7 provides the annual version of the bill comparison tables provided
13		in Schedule 6.
14		• Schedule 8 provides the monthly bill comparison tables based on the total
15		customer bill which includes FPPCA, PILOTS and other charges that are
16		changing at different monthly usage levels for Rate Codes 180, 184, 580, 280,
17		281, and 285.
18		• Schedule 9 provides the annual version of the bill comparison tables provided
19		in Schedule 8.
20	Q.	Please describe the basis for the proposed rate design.
21	А.	The fundamental elements of the proposed rate design recognize the need to collect
22		more fixed costs in fixed charges, to provide better price signals based on
23		economically efficient prices, and to promote rate stability and non-discriminatory
24		rates. The proposed rates were designed to be more economically efficient, cost

based and non-discriminatory, to promote fairness and avoid undue discrimination by limiting cross-subsidization between customers in the same class.

O. What guidelines and criteria do you consider important for rate design?

A. As far as practicable, rates should be based on the costs of providing the type and quality of service for each customer rate classification. Therefore, the fully allocated embedded cost of service study provides the foundation for the proposed revenue allocation and rate design. Through an ECOSS, customer, energy, and capacityrelated costs are allocated to customer rate classes, assuming a degree of homogeneity within these customer rate classes with respect to load characteristics, size, and/or type and quality of service.

Although average embedded costs determine the overall revenue requirements 12 of the utility, they may not give customers adequate signals with respect to the cost implications of their usage on the overall system. For customers in some customer 13 14 rate classifications, rates based on average costs may not be competitive with 15 alternative energy sources. This situation results in loss of load to alternate 16 generation sources and increased rates for core customers. To address this problem, 17 value of service pricing is used in some rate designs so that rates are more 18 competitive. Regarding LIPA's rates, this is the case for service class SC-13. 19 Therefore SC-13 will not be receiving a rate increase, and in the rate design, its costs 20 of service and revenues are allocated to others customer classes, providing an offset of costs to other customer classes.

1

2

3

4

5

6

7

8

9

10

11

1 2	Q.	Have you considered factors other than cost of service in the proposed rate design?
3	A.	Yes. I considered ECOSS data limitations, customer impact, the need for continuity
4		and revenue stability, and the interrelationships among the customer rate classes. The
5		proposed rate design has not set each services class's revenue request equal to the
6		exact cost of service as shown in the ECOSS, because this would result in large
7		customer impacts for some customer rate classifications. Instead, the proposed rate
8		design is based on pro rata increases to all Service Classifications, except SC-11, SC-
9		12, and SC-13.
10 11	Q.	How did you allocate the requested CY 2016 rate increase to each customer rate class?
12	A.	The requested rate increase of \$72.7 million dollars is a 2% increase over existing CY
13		2015 rates. This increase was assigned using the previously described revenue
14		requirement allocator. This calculation is presented in Exhibit (JTT-4), Schedule
15		1.
16 17	Q.	How did you allocate the requested CY 2017 rate increase to each customer rate class?
18	А.	The requested rate increase of \$74.3 million dollars is a 2% increase over existing CY
19		2016 rates. This increase was assigned using the previously describe revenue
20		requirement allocator. This calculation is presented in Exhibit (JTT-4), Schedule
21		1.

Q. How did you allocate the requested CY 2018 rate increase to each customer rate class?

A. The requested rate increase of \$74.3 million dollars is a 2% increase over existing CY 2017 rates. This increase was assigned using the previously describe revenue requirement allocator. This calculation is presented in Exhibit __ (JTT-4), Schedule 1.

Q. Are there additional concerns that influenced the proposed rate design?

A. Yes. The proposed customer charges are intended to make them more reflective of customer-related costs. As noted earlier, customer costs are those costs incurred to connect the customer, provide access to the distribution system and meter the usage delivered to the customer as well as the costs of performing customer service, field service, billing and accounting. As more fully discussed below, the rate design proposed in this Rate Plan takes additional steps toward cost-based rates and increases the proportion of customer-related costs recovered through the customer charge.

Q. Why is it important to recover customer-related costs in the customer charge?

A. The current level of the customer charge for the customer rate classes with an explicit customer charge is far below the fixed costs of providing customer service and access to electricity. The customer charge should be based on the costs associated with the capital recovery of the meter and service costs, plus the expenses associated with meter reading, field services, billing and accounting, and customer service at a minimum. The cost-of-service study calculates the monthly customer costs by

customer rate schedule. The current customer charge for residential customers recovers less than 39% of the fixed customer related costs.

When the customer charge is insufficient to recover customer-related costs, the energy rates (i.e., the usage charges) must collect a higher portion of the class's revenue requirement. In fact, only a small portion of the base delivery revenue requirement for each customer rate class relates to energy-related costs. Therefore, the majority of the costs being collected through the usage blocks are fixed costs that are either demand or customer-related. As a result, usage block rates tend to create intra-class cross subsidies because higher volume customers pay more than their fair share of fixed costs and lower volume customers pay less than their fair share of fixed costs. Collecting more costs using fixed charges like the customer charge helps to reduce intra-class cross subsidies. While some subsidization within and between classes is inevitable, rate design should strive to track costs as closely as reasonably possible. A fully cost-based customer charge is a logical, easy to administer, equitable way to ensure this.

16Q.To what extent do LIPA's current customer charges recover customer-related
costs?

A. This varies by customer rate class and is shown on Schedule 4F of Exhibit ____ (JTT2). As noted, the present Residential customer/service charge of \$10.80 recovers only
39 percent of costs that should be included in the customer charge of \$27.97 per
month. As a result, above average usage customers pay for fixed costs in their energy
rates and subsidize the fixed costs of serving below average usage customers.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

0. A.

Are you also proposing to increase the distribution demand charges paid by the service classes that currently pay a demand charge?

Yes. The distribution demand charge recognizes that the distribution facilities used to deliver service to the customer must be designed to meet the maximum demand of the customer regardless of when that demand occurs. Charging a larger demand charge will increase fixed cost recovery in line with the incurrence of fixed costs required to provide services. It will also provide the customer service classes that are subject to a demand charge with more stability, and a clearer price signal. Therefore, I am proposing to increase the demand charges paid by Service Classifications 2-L.

0. 10 11

Please summarize how the unit cost analysis set forth on Schedule 4F of Exhibit (JTT-3) was utilized in the rate design proposals.

- Exhibit (JTT-3), Schedule 4F, sets forth a unit cost analysis by function. The 12 A. analysis utilizes the functionalized, classified, and allocated expenses for each 13 14 customer rate class in the ECOSS. The unit cost analysis then inflates the 2016 costs in the ECOSS to the level that reflects the total proposed increase, which 15 16 approximates the total revenue requirement by service class based on the CY-2018 17 cost for each component. The unit cost analysis was used in the rate design proposals 18 to calculate the service charges and justify the proposed demand charges. Lastly the 19 unit cost analysis was used to develop the new Standby Rates by customer rate class.
- 20

O. Please describe LIPA's residential service classifications.

21 A. LIPA presently provides residential service under two service classifications, Service 22 Classification Nos. 1 and 1-VRMP. Service Classification No. 1 is the basic 23 residential service and provides separate rates for customers who use service for

1

2 3

4

5

6

7

8

2

3

4

5

6

7

8

space heating (Rate Codes 580, 581, 880, 881, 882, 883), water heating (183, 380), off-peak energy storage (480, 481), and general purposes (180). These services are provided under separate rate codes that I discuss more fully below. LIPA also provides residential service to residential customers under Service Classification No. 1 - VRMP which is a service with multiple rate periods. Customers in this service classification pay "time-of-use" rates that are typically far higher in the period between 10 a.m. and 8 p.m. Daylight Savings Time than they are in other periods.

0. Please describe the proposed changes to the non-heat residential rate.

9 A. The residential non-heat rate schedule currently consists of a customer charge and inclining $block^2$ energy charge in the summer and a declining energy charge in the 10 11 winter. The residential non-heat rate schedule also currently has certain sub-classes 12 that are differentiated by rate codes that provide for different rates to water heating 13 customers that were on the system prior to January 6, 1983. The residential service 14 classification also maintains certain rate codes that have the same rates as other rate 15 I propose to eliminate rate blocks and the summer and winter season codes. 16 differentiation, which would present a simple to understand flat energy charge. Rate 17 Code 183, which is proposed to and currently has the same rates as Rate Code 180, 18 would be eliminated and its customers transferred to Rate Code 180. I also propose 19 to transfer the customers in the grandfathered water-heating Rate Code 380 to Rate Code 180. For over 30 years, new water heating customers of LIPA have had no rate

Inclining block means rates per unit of consumption are the same over defined blocks of usage, and rates increase for higher consumption blocks.

differentiation from customers without water heating. Discontinuing Rate Code 380 for the approximately 5,000 remaining customers on this grandfathered water heating rate will eliminate rate discrimination that can no longer be justified. The consolidation of rate codes will also simplify the administration of the tariff.

Q. Please describe the proposed changes to the residential heating rate.

6 A. The heating residential rate schedule currently consists of a customer charge and 7 inclining block energy charge in the summer and a declining energy charge in the 8 winter. I propose to eliminate rate blocks in the summer and extend the existing 250 9 kWh rate block in the winter to 400 kWh. This would present a simple to understand 10 flat energy charge in the summer and only reduce the energy charge for energy used 11 for heating by heating customer in the winter. I also propose to eliminate Rate Codes 12 581, 882 and 883 which currently have the same rates as Rate Code 580, and transfer 13 customers under those codes to Rate Code 580. Finally, I propose to transfer the 14 customers in the grandfathered Rate Codes 880 and 881 to Rate Code 580. For over 15 30 years, these grandfathered heating customers have received a discount compared 16 to current heating customers. This discount to the few remaining customers on this 17 grandfathered heating rate will eliminate rate discrimination that can no longer be 18 justified. In addition, the consolidation of these rate codes would also simplify the 19 administration of the tariff.

20Q.What is your rationale for changing the current residential block rates into a flat
energy rate?

A. Non-heat Residential customers served under Service Classification No. 1 currently
 pay, in the summer, a first block rate of \$0.0904 for the first 250 kWh and a second

1

2

3

4

block rate of \$0.1022 over 250 kWh. In winter they pay a first block rate of \$0.0904 for the first 250 kWh and a second block rate of \$0.0834 over 250 kWh. So the second block is inclining in the summer and declining in the winter. LIPA's costs to deliver electricity to residential customers – the costs that are recovered through base delivery rates – do not vary between summer and winter in a manner that justifies the current difference in rates. The elimination of these seasonally differentiated rates represents a step in the right direction of sending correct price signals to customers.

8 **O**. Please describe the proposed changes to the residential customer/service charge. 9 A. Residential customers served under Service Classification No. 1 currently pay a 10 service charge of \$0.36 per day, which equates to \$10.80 for a billing month of 30 11 days. I propose to increase this rate to \$0.50 per day in 2016, \$0.58 per day in 2017 12 and \$0.66 per day in 2018. These values on a monthly basis equate to a \$15.00 13 service charge in CY 2016, moving to a \$20.00 dollar service charge in CY 2018. A 14 \$20.00 dollar customer/service charge still only recovers 72% of the customer related 15 costs as determined in the ECOSS and is less than the customer charge of other New 16 York electric utilities.

charge are you also proposing to adjust the current low income discount?
A. Yes. Currently qualified low income customers pay a service charge of \$0.179 per
day, which reflects a discount of \$0.181 per day for both heat and non-heat residential
customers. I propose to increase the low income discount for residential non-heat
customers to \$0.32 per day and introduce a residential heat low income discount of
\$0.49 per day.

In connection with your proposed changes to the residential customer service

1

2

3

4

5

6

7

0.

1		This proposal increases the low-income discount for residential non-heat customers to
2		\$10 to offset the proposed increase in the residential service charge to \$15.00. This
3		will completely offset the service charge increase for low-income residential non-heat
4		customers for 2016. The proposed residential heating low-income discount set at \$15
5		dollars is consistent with other utilities in New York and would almost eliminate the
6		service charge completely for those customers in 2016.
7 8	Q.	Are you proposing any changes in rate design for LIPA's commercial service classes?
9	A.	Yes. I am proposing certain changes for LIPA's large commercial Service
10		Classification No. 2-L. Customers in this Service Classification currently pay rates
11		that consist of a Service Charge per day, a Demand Charge per kW of demand and an
12		Energy Charge per kWh.
13	Q.	Please describe these proposed changes.
14	А.	I propose to increase the demand charges to a charge per monthly kW that recovers
15		approximately 50% ³ of the class' assigned demand revenue requirement. Currently
16		the demand charges only collect 40% of the class' assigned demand revenues. I also
17		propose to change the design of the demand ratchet from 85% in the summer season
18		and 70% in winter season to 85% all year round. This will increase the level of
19		winter demand billing determinants by 12.95%. The change in the winter demand
20		ratchet is appropriate because it removes a non-cost based seasonal difference in
21		delivery rates and it will permit more fixed costs to be recovered through fixed

³ The COSS would support a much higher demand charge percentage, however applying the concept of gradualism to avoid large individual customer impacts, I am proposing that 50% be used in this Rate Plan.

charges. The rationale for collecting more fixed costs in fix charges is discussed above and these changes, along with increasing the customer charge, will provide customers with:

- more stability by having more cost-based rates;
- increased fairness and less discrimination by reducing intra class subsidies;
- more accurate price signals for high load factor customers.
- 7

Q. What is a demand ratchet?

A. 8 To determine the demand levels used to bill customers each month, LIPA first 9 measures the actual as-metered demand, which is the maximum integrated demand 10 during the month. The demand level for each month is set equal to the greater of (i) the actual recorded demand, (ii) 85% of the maximum recorded demand from the 11 12 months of June through September during the previous eleven months, or (iii) 70% of 13 the maximum recorded demand for the months of October through May during the 14 last eleven months. This measurement is referred to as the demand ratchet. Under 15 my proposal, the demand used for billing purposes in any month will be equal to the 16 greater of the actual recorded demand or 85% of the maximum recorded demand for 17 the last eleven months.

18 Q. How would your proposal to change the winter demand ratchet from 70% to 85% for Rate Code 281 affect winter demand billing determinants?

A. This proposed change would increase winter demand billing determinants for Rate
 Class 281 by 12.95%. This percentage was determined by conducting a study of over
 48,000 customers currently on Rate Code 281. The study collected the customers'
 metered demands and calculated the demand billing determinants using the current

1

2

3

4

5

1		70% winter ratchet and then recalculated the demand billing determinants using the
2		proposed 85% ratchet. The winter demand billing determinants were 12.95% higher
3		using the proposed 85% ratchet.
4 5 6	Q.	Are you proposing to make rate design changes to the voluntary or mandatory time of use rates charged to the multiple rate period customer classes served under the VRMP Service Classifications?
7	А.	No, not at this time. LIPA's VRMP service classifications provide delivery rate
8		differentials based on time-of-use. Appropriate time-of-use rates should provide for
9		recovery of differences in energy costs in peak and non-peak periods; not differences
10		in delivery costs. LIPA's current billing system does not permit it to bill power
11		supply charges based on time-of-use differences.
12	Q.	Are you making any other proposals that may affect what customers pay?
12 13	Q. A.	Are you making any other proposals that may affect what customers pay? Yes, I propose to add and modify customer rate class transfer clauses.
12 13 14	Q. A. Q.	Are you making any other proposals that may affect what customers pay? Yes, I propose to add and modify customer rate class transfer clauses. What are transfer clauses?
12 13 14 15	Q. A. Q. A.	 Are you making any other proposals that may affect what customers pay? Yes, I propose to add and modify customer rate class transfer clauses. What are transfer clauses? Transfer clauses set forth the terms through which customers change service classes
12 13 14 15 16	Q. A. Q. A.	 Are you making any other proposals that may affect what customers pay? Yes, I propose to add and modify customer rate class transfer clauses. What are transfer clauses? Transfer clauses set forth the terms through which customers change service classes as their loads change. Transfer clauses permit LIPA to move a customer to a different
12 13 14 15 16 17	Q. A. Q. A.	 Are you making any other proposals that may affect what customers pay? Yes, I propose to add and modify customer rate class transfer clauses. What are transfer clauses? Transfer clauses set forth the terms through which customers change service classes as their loads change. Transfer clauses permit LIPA to move a customer to a different service classification when the customer's demand or energy usage changes.
12 13 14 15 16 17 18	Q. A. Q. A.	 Are you making any other proposals that may affect what customers pay? Yes, I propose to add and modify customer rate class transfer clauses. What are transfer clauses? Transfer clauses set forth the terms through which customers change service classes as their loads change. Transfer clauses permit LIPA to move a customer to a different service classification when the customer's demand or energy usage changes. Currently some customer rate classes have transfer clauses and some do not. We
12 13 14 15 16 17 18 19	Q. A. Q. A.	 Are you making any other proposals that may affect what customers pay? Yes, I propose to add and modify customer rate class transfer clauses. What are transfer clauses? Transfer clauses set forth the terms through which customers change service classes as their loads change. Transfer clauses permit LIPA to move a customer to a different service classification when the customer's demand or energy usage changes. Currently some customer rate classes have transfer clauses and some do not. We propose to use a uniform set of parameters to adjust all customer service class transfer
12 13 14 15 16 17 18 19 20	Q. A. Q.	 Are you making any other proposals that may affect what customers pay? Yes, I propose to add and modify customer rate class transfer clauses. What are transfer clauses? Transfer clauses set forth the terms through which customers change service classes as their loads change. Transfer clauses permit LIPA to move a customer to a different service classification when the customer's demand or energy usage changes. Currently some customer rate classes have transfer clauses and some do not. We propose to use a uniform set of parameters to adjust all customer service class transfer clauses. Using a single set of parameters will provide customers with more stability,
12 13 14 15 16 17 18 19 20 21	Q. A. Q.	Are you making any other proposals that may affect what customers pay? Yes, I propose to add and modify customer rate class transfer clauses. What are transfer clauses? Transfer clauses set forth the terms through which customers change service classes as their loads change. Transfer clauses permit LIPA to move a customer to a different service classification when the customer's demand or energy usage changes. Currently some customer rate classes have transfer clauses and some do not. We propose to use a uniform set of parameters to adjust all customer service class transfer clauses. Using a single set of parameters will provide customers with more stability, be non-discriminatory and provide LIPA with administrative simplicity. The
12 13 14 15 16 17 18 19 20 21 22	Q. A. Q.	Are you making any other proposals that may affect what customers pay? Yes, I propose to add and modify customer rate class transfer clauses. What are transfer clauses? Transfer clauses set forth the terms through which customers change service classes as their loads change. Transfer clauses permit LIPA to move a customer to a different service classification when the customer's demand or energy usage changes. Currently some customer rate classes have transfer clauses and some do not. We propose to use a uniform set of parameters to adjust all customer service class transfer clauses. Using a single set of parameters will provide customers with more stability, be non-discriminatory and provide LIPA with administrative simplicity. The parameters are:

I

1		1) Transfer clause provisions will state that a customer will only be allowed to exit				
2		the class if their load falls below 80% of the level identified in the eligibility				
3		provision of the service classification.				
4		2) a customer may exit into a lower usage customer service class based on their				
5		actual metered demand, provided their demand has been below the threshold				
6		identified in item 1, above for the past twelve months; and				
7		3) mandatory customer rate class transfers to a higher usage class will require two				
8		consecutive months of measured higher usage or demand, as applicable, to				
9		confirm the customer's load level.				
10	Q.	What is the justification for each of the parameters?				
11	А.	With respect to the first parameter, LIPA has about a 110 thousand commercial				
12		customers. If the load parameters that determine eligibility for a class and the load				
13		parameters that permit a downward transfer are set at the same load level, there will				
14		be a set of customers that may be "bounced" between customer rate classes based on				
15		small changes in their loads. This result would be contrary to the goal of achieving				
16		stability for our customers and administrative simplicity for LIPA. The solution to				
17		this problem is to create a dead-band between the downward transfer load parameters				
18		and the eligibility load parameters of the class. My proposal sets the downward				
19		transfer clause load parameter at 80% of the size of the eligibility load parameter of				
20		the class to prevent customers that are close to the class boundaries from bouncing				
21		between customer rate classes.				
22		With respect to the second parameter, it is LIPA's experience that customer				

loads vary over time. Business loads vary with business cycles. Businesses expand and contract based on their business model and the economy. Therefore we recognize

23

the need for customers to transfer between customer rate classes based on relatively permanent changes in their load requirements. At the same time however, temporary changes in customer usage do not justify inter-class movements. Basing downward transfer clauses on twelve months of actual metered demand for all affected rate classes will ensure that the customers are placed and remain in the correct customer rate class.

With respect to the third parameter, customers' monthly billing determinants can be affected by billing errors, meter reading lag, meter reading errors, estimated bill corrections to actual, and billing delay for various reasons. A report that would review billing determinants to determine which customers should be moved based on a month of data would likely contain false positives for these reasons. The false positives will be substantially reduced if two consecutive months are used to confirm the customer's load level.

Q. Did you perform a study to determine whether customers are currently being served under the appropriate service classification based on the parameters you are proposing to apply to the transfer clauses?

A. Yes. A study was done to identify the customers that would be affected by the changes in the transfer clause provisions described above using billing data through August 2014. The results of this study were used to adjust the billing determinants of the affected customer service classes to reflect implementation of the revised transfer clause parameters in order calculate the CY 2016 proposed rates. The results of the study are set forth on Exhibit ____ (JTT-4), Schedule 3, columns labeled "Customer Rate Transfers." I would proposed to redo this study based on August 2015 data

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

1 2

3

4

5

6

7

8

9

10

11 12

13

14

15

16

17

18

19

20

21

22

23

before any customers were notified of their right to transfer down to a smaller service class or were notified that they were going to be place on a higher service class.

Q. Are you proposing any changes in any fees for services assessed by LIPA?

A. Yes. I am proposing:

- to increase the pole attachment fees assessed under Section IV.C.1 of the General Terms and Conditions of LIPA's tariff to (i) \$11.98 per pole, per year, plus applicable amounts in lieu of revenue taxes, for pole attachments by cable television systems and other wire line communication systems, and (ii) to \$6.19 for communications systems attachments other than those for wire line communications systems or wireless communications systems, plus the applicable amounts for payments in lieu of revenue taxes;
- to increase to \$100 the No-Access charge assessed when LIPA cannot obtain access to non-residential customers' meters after the requisite number of attempts to read the meter have been made;
- to establish a Removal Charge of \$160 when LIPA is required to disconnect a customer for a second time who has tampered with their facilities or is committing theft of service;
- to add applicable payments in lieu of revenue taxes to the \$20 Uncollectible Payment Handling Charge;
 - 5. to increase the fee for providing certain historical hourly meter reading information from MV90 meters; and
 - 6. a cost based change to maintenance charges included in Service Classifications 11 and 12 for interconnection equipment where LIPA maintains such equipment.

24

25

26

27

Q. What is the justification for these fee increases?

A. The pole attachment fee for cable television systems and other wire line communication systems are being increased to a level equal to the lowest fee presently charged by an investor-owned utility in New York. This approach has been

approved by the PSC as a way to establish pole attachment fees for municipal electric systems. The fees for attachments other than wire line or wireless system attachments are being increased in proportion to the increase in the wire line/cable television system fees.

The No-Access charge is being increased to encourage a reduction in the number of instances in which access cannot be gained to nonresidential customers' meters. The proposed \$100 charge is equivalent to the maximum non-residential no-access fee permitted by the PSC.

The Removal Charge is being proposed as a way to deter tampering and theft of service, when a customer without LIPA's knowledge turns on their own electrical service. The fee for historic hourly meter reading data offsets a portion of the cost to process hourly meter data from MV90 meters. Customers' costs for requests for AMI hourly data or their monthly billing determinants from the customer information system are unaffected by this change.

15 Q. Have you calculated revised maintenance charges for the Service Classification 16 11?

A. Yes. The revised maintenance charges reflect the cost of maintaining customers' interconnection equipment. The calculation is based on the operation and maintenance expense portion of the marginal cost of distribution plant and is shown on Exhibit ____ (JTT-3), Schedule 1, line 8. This maintenance charges also applies to customers taking service under Service Classification 12.

1

2

3

4

5

6

7

8

9

10

11

12

13

0. Have projected revenues associated with the proposed fee revisions been 1 included in the determination of the proposed delivery rates in this case? 2 3 Yes, this is shown on Exhibit __ (JTT-4), Schedule 1. A. VII. **STANDBY SERVICE RATES** 4 Q. What is Standby Service? 5 6 A. Standby Service is the sale and delivery of electric power: 7 to replace and/or to supplement the power and energy ordinarily generated by a 1. 8 customer by means of a private generating facility on the customer's premises; or 9 for station use by a customer that is a wholesale generator. "Station Use" 2. 10 includes power and energy used by the customer at its premises in connection 11 with its generating facility (a) during periods when such needs are not served by 12 the generator, and (b) to restart the generator after an outage. This service also 13 applies to wholesale generators that require service when their own generating 14 equipment is not sufficient to meet the station loads, provided that such service is 15 not served under a separately-metered account. 0. Does LIPA presently provide Standby Service to its customers that supply and 16 17 deliver their own electricity? Yes. LIPA presently has a Service Classification No. 12 which sets forth the terms 18 A. 19 and conditions under which it provides what it terms "Back-up and Supplemental 20 Service." However, under that Service Classification any customer that requires 21 supplemental service in addition to back-up service may take service and pay the 22 rates that apply under another suitable service classification. The result is that LIPA 23 provides back-up service and supplemental service under a number of service 24 classifications at different rates. In certain cases these rates do not compensate LIPA for the cost of providing Standby Services. 25

A. Yes. I am proposing to cancel LIPA's current Back-up and Supplemental Service Classification and replace it with a new Standby Service classification. Under my proposal, after a proposed notice and phase-in period, commercial customers that receive Standby Service under Service Classification No. 12 but are billed under Service Classification Nos. 2L, 2H or 2-MRP will be served under the standby service classification for both their back-up and supplemental service requirements unless those supplemental service requirements are separately metered. My standby rate design and tariff proposal is based upon the principles reflected in the "Guidelines for the Designing of Standby Service Rates" that were adopted by the PSC in 2001 in Case 99-E-1470. I have also considered and in many cases incorporated the terms and conditions of the standby service approved by the PSC for Orange and Rockland Utilities, Inc. ("O&R"). Specifically, I am proposing Standby Service rates for customers that include:

 customer charges that recover the customer-related costs that I have described previously;

2. delivery charges that include (i) fixed contract demand charges, and (ii) daily on-peak "as-used" demand charges;

- 3. energy charges that recover only the cost of commodity electric supplies; and
- rates for each commercial service class that will ensure that customers will be responsible for the same delivery costs under standby delivery rates as they would be under their equivalent, non-standby commercial service class.

1

2 3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

1		In addition to these rates, LIPA's Standby Service classification will continue
2		to provide that interconnection charges will be assessed for costs that are more than
3		what LIPA's ordinary costs would have been to supply a customer under a suitable
4		service classification.
5 6	Q.	How will the level of the fixed contract demand charge and daily as-used demand charge be determined?
7	А.	The fixed contract demand charge will be set equal to the customer's maximum
8		monthly demand during the previous twelve months. For new customers or
9		customers that receive service for less than twelve months before installing new on-
10		site generation equipment, contract demand will be set equal to the service capacity.
11		As-used daily demand charges would be assessed based on the customer's actual
12		maximum daily 15-minute demand on any weekday in which the customer takes
13		delivery service from LIPA during the hours of 12 p.m. to 8 p.m.
14 15	Q.	Does the allocation of costs included in the proposed Standby Rates tie back to the results of the ECOSS?
16	A.	Yes, as shown in Exhibit (JTT-4), Schedule 2, a study was performed to calculate
17		Standby Rates based on the Unit Cost analysis performed in the ECOSS.
18 19	Q.	How did you allocate fixed costs between fixed contract demand charges and as- used demand charges?
20	A.	I utilized the allocation approved by the PSC for O&R. The allocation approved
21		therein appears to be reasonable for LIPA.
	I	

I

Q. Are you proposing to implement the proposed Standby Rates for existing customers effective January 1, 2016?

3 No. I recognize that the implementation of the proposed Standby Rates may have a Α. 4 significant impact on current customers. Accordingly, consistent with the principle of 5 gradualism, I am proposing to continue the status quo for current customers through 6 December 31, 2016 in order to give customers as of January 1, 2016 ("grandfathered 7 customers") the opportunity to modify their operations to conform to the revised 8 Standby Rates and terms. Thereafter, I propose to phase-in the impact on 9 grandfathered customers over a five-year period at a rate of 20 percent per year. I 10 have reflected the phase-in of the proposed Standby Rates in the rates and terms of 11 service proposed for CY 2017 and CY 2018.

12 13

Q. Do the proposed charges in Standby Service rates affect the rates charged by any other Service Classifications?

A. Yes. The demand charges paid by Standby Service rate customers should also apply
to Buy-Back service customers that utilize LIPA's distribution system to deliver
power to either other locations on LIPA's system or off-system. Accordingly, I am
proposing to change the demand charge for SC-11 distribution customers to \$4.25
and \$5.20 for secondary and primary voltage, respectively.

19 **VIII**

24

VIII. PROOF OF REVENUES

20Q.Did you prepare Proofs of Revenue for CY 2016 through CY 2018 that set forth
the proposed rates by customer rate class?

22 A. Yes, a proof of revenue was prepared by year to identify by customer rate class the

23 proposed rates needed to collect each rates schedule's assigned revenue requirement.

These rates are presented in Exhibit __ (JTT-4), Schedule 3, which consists of three

1

1		parts, one for each year from CY 2016 through CY 2018. Schedule 3A for CY 2016
2		has three groups of columns. The first group is the revenue proof using current rates,
3		the second group uses current rates and identifies the revenues resulting from changes
4		in class billing determinants due to transfer clause changes, and the third group is the
5		proof of revenues showing the resulting rates at the requested revenue requirement.
6		Schedules 3B and 3C provided similar information for CY 2017 and CY 2018,
7		respectively.
8	IX.	PROPOSED DELIVERY SERVICE ADJUSTMENT ("DSA")
9	Q.	Are you proposing any new rate adjustment mechanisms in this proceeding?
10	A.	Yes. I am proposing a new Delivery Service Adjustment mechanism that will permit
11		reconciliation between the amount of certain costs reflected in LIPA's base delivery
12		rates and the actual amount of these costs incurred by LIPA.
13 14	Q.	What are the cost categories included in base delivery rates that are proposed to be subject to the DSA?
15	A.	The cost categories are:
16		i. major storm costs;
17		ii. power supply costs; and
18		iii. debt service costs.
19 20	Q.	What are major storms and how are the costs of such storms proposed to be recovered in LIPA's base delivery rates?
21	A.	LIPA uses the same definition of a "major storm" as that set forth in the PSC's
22		regulations, i.e., a "major storm" is a period of adverse weather during which
23		interruptions of service affect at least ten percent of customers and/or result in
24		customers being without service for at least 24 hours. The base delivery rates

proposed in this proceeding for major storm costs include recovery of \$36.1 million in the first nine-month tracking period and \$48.9 million in the subsequent twelvemonth tracking period.⁴

Q. What power supply costs are reflected in LIPA's base delivery rates?

A. The proposed base delivery rates reflect power supply costs of \$374.2 million in the first nine-month tracking period and \$500.2 million in the subsequent twelve-month tracking period. The power supply costs are projected to be incurred (i) under the Power Supply Agreement between National Grid Generation LLC and LIPA, and (ii) as operation and maintenance expenses associated with LIPA's investment in the Nine Mile Point II nuclear facility. These costs are described by the Power Supply Panel.

Q. What debt service costs are reflected in these proposed base delivery rates?

A. The proposed base delivery rates reflect debt service costs of \$467.7 million in the first nine-month tracking period and \$666.8 million the subsequent twelve-month tracking period. Debt service costs are the interest and principal payments associated with the debt incurred by LIPA adjusted for its debt coverage, plus the cost of the securitized debt. Debt service payments are further discussed in the testimony of LIPA witnesses Kenneth Kane and Thomas Falcone.

⁴ In 2016, the tracking period is nine months, January 1, 2016 to September 30, 2016. After September 30, 2016 and beyond, the tracking periods are 12 months, October through September of the following year.

Why is LIPA proposing to recover the difference between the level of major storms, power supply and debt service costs included in base rates and the actual amount of such costs incurred through the DSA?

A. The testimony of Thomas Falcone, LIPA's Chief Financial Officer, explains the need for this rate mechanism.

Q. How will the proposed DSA operate?

7 A. For each tracking period, the costs incurred in each of the three cost categories will be 8 compared to the corresponding level of costs reflected in base delivery rates for that 9 For the power supply expenses and debt service, the resulting cost category. difference will be credited to or recovered from customers over the twelve months 10 commencing on January 1st of the subsequent calendar year. For major storm costs, a 11 12 major storm reserve account will be established. There are three possible outcomes 13 for storm costs at the end of each tracking period. First, if actual costs are less than the amount included in rates, the excess recovery will be retained in the reserve 14 15 account. Second, if actual costs are less than the amount included in rates plus the 16 current balance in the reserve account, the reserve account will be drawn upon to 17 meet the expense. Third, if actual costs are greater than the amount included in rates plus the current balance in the reserve account, one third of the under-recovered 18 19 amount will be included in the derivation of the DSA rate.

20 21

22

23

Q. Why will the DSA only recover one-third of the major storm reserve balance?

A. Major storm expenses can be quite variable from year to year, and the recovery rate might be quite large if the entire excess cost of the storms were recovered over a single recovery period. By spreading the recovery over three years, the impact will

1

2

3

4

5

6

0.

be smoothed. In addition, a three-year recovery period allows for the possibility that an above-average major storm year could be followed by a below-average major storm year. If this were the case then prior period over-recoveries could be used to offset prior period under-recoveries to reduce the impact on customer bills.

Q. How will the DSA balance be returned to or recovered from customers?

A. The DSA will apply to customers in Service Classifications 1, 1-VMRP, 2, 2-VMRP, 2-L, 2-L-VMRP, 2H, 2-MRP, 5, 7, 7-A, 10, 12 and 16. The DSA balance will be translated into a company-wide DSA percentage based on forecasted delivery revenues for the recovery period (DSA Balance/Applicable Forecasted Delivery Revenue). The DSA recovery charge or credit will be assessed to each applicable customer based on their delivery charges. Over- and under-recoveries of DSA credits or recovery charges also will be tracked and recovered in subsequent recovery periods as well.

14Q.Why have you excluded certain service classifications from the operation of the
DSA?

A. ESCOs that receive service under Service Classification 14 and Service Classification
11 have been excluded from the DSA because the rates for these services do not
include the costs recovered through the DSA. Service Classification No. 13 is not
subject to the DSA because the rates paid by these customers are set through
negotiations that did not contain a provision for the DSA. Finally, energy delivered
under various programs intended to encourage economic development is not subject
to the DSA because it is not my intent to modify these programs.

2

3

4

5

6

7

8

9

10

11

12

X.

OTHER TARIFF MODIFICATIONS

Q. Are you proposing any other tariff modifications in this proceeding?

A. Yes. In addition to the tariff changes that I have already described, I am proposing a number of corrections and clarifications to LIPA's tariff. In many instances these edits are intended to clarify what is stated in the tariff. Certain of these changes also eliminate tariff language that pertains to situations or circumstances that are no longer relevant. In other instances, the changes are intended to provide greater customer service flexibility to enable PSEG LI and LIPA to better serve customers and enhance customer satisfaction. The remaining modifications simply correct typographical or grammatical errors. Exhibit __ (JTT-6) sets forth a comprehensive list of the tariff changes proposed to become effective January 1, 2016 by tariff section and the explanation for each of them.

Q. Did you prepare revised tariff sheets that reflect the rate design and other tariff changes addressed in your testimony?

Yes, revised tariff sheets with an effective date of January 1, 2016 were prepared. 15 A. 16 These proposed tariff sheets are presented in Exhibit __ (JTT-5), Schedule 1 and are 17 set forth in redlined form showing deletions and additions from the proposed April 2015 tariff. Revised tariff sheets with an effective date of January 1, 2017 were also 18 19 prepared. These proposed tariff sheets are presented in Exhibit __ (JTT-5), Schedule 20 2. Finally, proposed tariff sheets with an effective date of January 1, 2018 were 21 prepared. These proposed tariff sheets are presented in Exhibit (JTT-5), Schedule 22 3. Schedule 2 and Schedule 3 are set forth in redlined form showing deletions and

additions from the previous schedule. The proposed tariff leaves included in 1 2 Schedules 2 and 3 of Exhibit (JTT-5) reflect only changes in rates. 3 Do your proposed tariff leaves account for proposals that are currently pending **O**. 4 before the LIPA Board of Trustees? 5 A. Yes. The tariff sheets on which I show the proposed changes with an effective date 6 of January 1, 2016 include changes that are pending before, but have not yet been 7 approved by, LIPA's Board of Trustees outside this proceeding. If the Board of 8 Trustees makes any changes to the pending proposal, they will be reflected when we 9 make a compliance filing to update the tariff for all changes ultimately approved by the Board of Trustees. 10 Q. What have you assumed with regard to the tariff proposal that is expected to be 11 presented to LIPA's Board of Trustees in March 2015? 12 13 LIPA's staff issued a proposal to change LIPA's Tariff to conform to the A. 14 recommendations included in LIPA's approved budget for 2015 that is scheduled for 15 presentation to the Trustees at their March 2015 Board meeting. The proposal 16 recommends changes to the LIPA Tariff for Electric Service that would (1) update 17 Delivery Charges consistent with the approved LIPA budget for 2015; (2) authorize 18 the reconciliation of revenue to be recovered through the Energy Efficiency Cost 19 Recovery Rate; and (3) introduce a Revenue Decoupling Mechanism. For the 20 purpose of preparing our proposed tariff leaves, we have assumed that the Trustees 21 will adopt the proposal in its entirety.

XI. <u>LI-CHOICE ISSUES</u>

Q. Does LIPA presently have a retail choice program?

A. Yes. As I noted previously, the retail choice program is known as LI-Choice. The terms and conditions of the program are set forth in Service Classification 14 of LIPA's tariff. At this time, LIPA has approximately 4,300 retail choice customers.

Q. Is PSEG LI proposing any changes to LIPA's LI-Choice program?

A. We are proposing certain limited changes to the tariff provisions governing retail choice to conform those provisions to the manner in which the program actually operates. For example, the tariff contains references to a single-bill option that LIPA is unable to offer at this time. So we are proposing to remove the single bill option.

11Q.Does PSEG LI believe that a collaborative should be convened to examine the
LI-Choice program?

13 A. Yes. As discussed in the Power Supply Panel's testimony, there is essentially no 14 merchant power development activity and no competitive wholesale power market in 15 LIPA's service territory. The absence of such a market impedes the viability of retail 16 choice programs in LIPA's service territory. The development of a more robust retail 17 choice program requires consideration of numerous capacity assignment, cost 18 recovery, rate, service and tariff issues. PSEG LI only recently assumed 19 responsibility for LIPA's system in 2014 and we have not yet had the opportunity to 20 consider retail choice-related issues in depth. To begin a discussion of these issues 21 we propose to convene a collaborative process to examine retail choice-related issues. 22 Participants in the process would include representatives of PSEG LI and LIPA, DPS 23 , marketers, consumer groups and other interested parties. Through the collaborative

1

2

3

4

5

6

7

8

9

process, we hope to identify retail choice-related issues and develop a widely supported resolution of those issues.

3

1

2

4

5

6

7

8

9

10

11 12

13

14

15

16

17

18

19

20

21

22

XII. <u>SUMMARY OF RECOMMENDATIONS</u>

Q. Please summarize the major recommendations that you presented in this testimony?

A. My testimony supports a number of changes to LIPA's rate design.

- Increase the amount of revenues collected through fixed charges. This has the benefits of balancing the utility's budgets and minimizing intra class subsides.
- Increase the customer charges for all customer rate classes to align the customer-related costs that I have described previously with the way in which customer costs are collected, while also increasing the low-income discount to mitigate the impact of this change on low income customers.
- 3. Make rate design changes to minimize intra class cross-subsidies. This efficiency change results from a superior alignment of the cost-of-service and rate design for the utility.
- Modify LIPA's Standby Service rate classifications to conform more closely to PSC policy.
- 5. Establish a new Delivery Service Adjustment to keep LIPA and its customers whole for differences between the level of certain significant costs recovered in base delivery rates and the amount actually incurred.

6. Convene a collaborative to address retail choice issues.

Q. Does that conclude your pre-filed testimony?

A. Yes, it does.

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-00262

REBUTTAL TESTIMONY OF JOSEPH TRAINOR ON COST OF SERVICE, RATE DESIGN, AND TARIFF ISSUES

Date: June 10, 2015

TABLE OF CONTENTS

I.	. WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY		
II.	<u>EC</u>	ECOSS & MCOSS METHODOLOGY	
III.	RATE DESIGN		
	A.	Residential and Small Commercial Customer Service Charge	8
	B.	Residential Water And Space Heating Rates	14
	C.	Seasonal Rates	20
	D.	Large Demand Commercial Customers	26
	E.	Critical Peak Pricing Rate Schedule	27
	F.	Standby Rates	27
	G.	Delivery Service Adjustment	28
	H.	Low Income Discounts	29
	I.	Removal Charge	30
	J.	Proposed Rates	30
	K.	Net Metering Issues	31
IV.	CO	NCLUSION AND SUMMARY	32

1	I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY
2	Q.	Mr. Trainor, please state your name and business address.
3	A.	My name is Joseph T. Trainor. My business address is 175 E. Old Country Road,
4		Hicksville, NY 11801.
5 6	Q.	Are you the same Joseph Trainor who previously submitted direct testimony before the Department of Public Service ("DPS") in this proceeding?
7	A.	Yes. I previously submitted Direct Testimony in this proceeding concerning cost of
8		service, rate design and tariff issues on behalf of PSEG Long Island LLC ("PSEG
9		LI").
10	Q.	What is the purpose of your rebuttal testimony in this proceeding?
11	A.	The purpose of my rebuttal testimony is to respond to the testimony and
12		recommendations of the Department of Public Service ("DPS") Rates Panel ("Rates
13		Panel"), the DPS Delivery Service Adjustment and Storm Reserve Panel ("DSA
14		Panel"), DPS Customer Service Panel ("Customer Service Panel"), the DPS Energy
15		Efficiency and Rev Panel ("EE_Rev Panel") and the Rebuttal Testimony of Jackson
16		Morris On Behalf of Natural Resources Defense Council ("NRDC").
17 18 19	Q.	Besides responding to the direct testimony of other parties, does your rebuttal testimony provide any updates to information previously submitted in this proceeding?
20	A.	Yes, as part of the three-year rate plan proposal being submitted by PSEG LI on
21		behalf of the Long Island Power Authority ("LIPA"), my rebuttal testimony provides
22		the following information as a result of updates to the revenue requirement and PSEG
23		LI/LIPA's agreement to reflect in its three-year rate plan certain adjustments that
24		were recommended by other parties in their direct testimony:

1		1.	A revised forecast of total operating revenues for the twelve months
2			ending December 31, 2016 ("CY 2016"), December 31, 2017 ("CY
3			2017"), and December 31, 2018 ("CY 2018");
4		2.	Revised proposed rates for each service classification under LIPA's tariff
5			for electric service;
6		3.	Revised bill impacts from current rates to proposed rates for 2016, 2017
7			and 2018;
8		4.	Revised changes in LIPA's tariff due to rate changes and other tariff
9			changes as described more fully below.
10		5.	A discussion of net metering issues raised by the New York State Public
11			Service Commission's ("Commission") order dated December 15, 2014 in
12			Case 14-E-0151 and 14-E-0422 and a proposal to make a compliance
13			filing to address certain issues related to net metering.
14	Q.	Do you	u sponsor any exhibits as part of your rebuttal testimony?
15	А.	Yes.	I sponsor the following exhibits which were prepared and /or compiled under
16		my sup	pervision and direction:
17		(i)	Exhibit (JTT-8): DPS Information Request Responses;
18		(ii)	Exhibit (JTT-9): Customer Charges assessed by other New York Investor-
19			Owned Utilities;
20		(iii)	Exhibit (JTT-10): Letter from the Leisure Village Board of Directors;
21		(v)	Exhibit (JTT-11): Revised Rate Design and Bill Impact statements;
22		(vi)	Exhibit (JTT-12): Revised tariff leaves; and
23		(vii)	Exhibit (JTT-13): List of proposed Tariff changes.
24 25	Q.	Do yo discov	u refer to, or otherwise rely upon, any information obtained during the ery?
26	А.	Yes.	I will refer to certain Information Request responses, referred to as IRs,
27		provid	ed by the DPS. These responses are included in Exhibit (JTT-8).

3

4

5

6

7

8

9

10

0.

Please summarize the findings and recommendations of the Rates Panel that you will be addressing, and what your conclusions are.

A. I will be addressing the following issues/recommendations discussed by the Rates Panel, and I reach the conclusions summarized here:

- The Rates Panel recommends (at 10-11) that the Residential and Small Commercial customer charges proposed by PSEG LI be rejected and that this issue be revisited after the issuance of an order in the REV Track 2 proceeding. I disagree, and recommend that customer charges be set at levels consistent with Commission precedent for the rest of New York State. It is not clear at this time how customer charge issues may be addressed in the REV 2 proceeding.
- 11
 2. The Rates Panel recommends (at 11) that the residential water heating rate be
 eliminated over a five year phase-out period for rate impact reasons rather than in
 one year as proposed by PSEG LI. I disagree; LIPA's grandfathered residential
 water heating rate should be phased out over a three-year rate period, not five.
 Because this proceeding involves consideration of a three-year rate plan, any
 phase-out period beyond the three-years may not have a proper revenue neutral
 mechanism to be implemented and/or be complicated by future changes in rates.
- 3. The Rates Panel recommends (at 11) a phase-out of residential electric space
 heating rates over five years. I disagree; Staff's proposal is not cost justified and
 will result in significant increases in the total costs paid by residential electric
 space heating customers. Staff's proposal would be inconsistent with PSEG LI's
 efforts to enhance customer service and satisfaction.
4. The Rates Panel recommends (at 12) that PSEG LI's proposal to eliminate inclining block energy rates in the summer should be rejected. While it may be DPS policy to increase block rates in the summer to encourage customers to use less energy, application of this policy in this case would be unduly burdensome to customers and it is not cost justified. Moreover, it does not really work; the price signal that the Rates Panel wishes to send is not received directly by approximately half the intended customers, who are on balanced billing and are therefore indifferent to seasonal rate changes.

- 5. The Rates Panel recommends (at 12) that PSEG LI's proposal to eliminate seasonal demand rates and voltage differentials for Large Commercial customers be rejected. This recommendation is not supported by the Rates Panel's purported cost justification. LIPA's T&D system is sized to meet maximum one hour summer load/demand. Delivery energy charges are established to collect the total delivery revenue requirement over annual periods, and the delivery revenue requirement attributable to the summer is no different than the delivery revenue requirement attributable to the other three seasons of the year. Moreover, contrary to the Rates Panel's claim, PSEG LI is not proposing to eliminate voltage differentials for large commercial customers.
 - 6. The Rates Panel recommends (at 10) that PSEG LI's proposal to increase the winter demand ratchet for large commercial customers based on "bill impacts" be rejected. This recommendation is based on a misunderstanding of the impact of the proposal. The 12.95% factor is not a bill impact. Rather, it reflects the

increase to the number of demand billing determinants. Increasing demand billing determinants has the effect of spreading demand costs throughout the year, but it does not materially increase the annual costs of customers subject to the demand ratchet.

- 7. The Rates Panel's proposal (at 11-12) to increase the customer charge and demand charge for large commercial demand ("Rate Code 281") customers by 11% in each of the three years of the rate plan is acceptable.
- 8. The Rates Panel's proposal (at 13) that LIPA develop a voluntary Critical Peak Pricing rate schedule that is REV-like, for the largest commercial customers, should wait for the results of REV. The proposal is not practical given the need to evaluate the information technology, billing process, metering, and value proposition that would be required to implement this new rate design in the very short timeframe of this rate plan proceeding.
- 9. The Rates Panel's recommendation (at 13) that PSEG LI wait for the
 Commission's REV proceeding to establish a new Standby service is acceptable.
 The rest of the state already has similar standby tariffs to those proposed by
 PSEG LI, and PSEG LI believes that moving closer to those statewide policies
 will facilitate our participation in REV. However, the Rates Panel raises some
 concerns in that regard and I look forward to working through this issue with
 them.

1

2

3

4

5

6

7

8

9

10

11

12

1 2	Q.	Please summarize the recommendations of the DSA Panel that you will address, and your conclusions on those issues.
3	А.	I will address the DSA Panel's recommendation (at 34-36) that the storm reserve be
4		capped at no more than 1.5 times the expense amount included in base delivery rates
5		each year. I recommend that the DSA Panel's proposal be modified to set the storm
6		reserve to \$75.0 million, as proposed by Mr. Falcone, the Chief Financial Officer of
7		LIPA.
8 9	Q.	Please summarize the recommendations of the Customer Service Panel that you will address, and your conclusions.
10	A.	I will address the Customer Service Panel's recommendations (at 18-19, 22-23) that
11		(i) the low income discount for non-heat residential customers not be increased, and
12		(ii) PSEG LI's proposal to charge a Removal Charge when PSEG LI is required to
13		disconnect a customer for a second time due to that customer's tampering with
14		LIPA's facilities be rejected. I continue to recommend that the residential customer
15		charge for non-heat residential customers be increased. Therefore, I also continue to
16		recommend that the low income discount for non-heat residential customers be
17		increased. With respect to the proposed Removal Charge, if the Customer Service
18		Panel's recommendation to reject the Removal Charge is adopted, then the language
19		of LIPA's tariff on Leaf 154 should be explicitly modified to permit LIPA to recoup
20		the cost of a second turn-off of service. As part of Exhibit (JTT-12) I am
21		including proposed tariff language to address this issue.

13

21

0. Please summarize the recommendations of the EE_Rev Panel that you address, and your conclusions.

3 Α. I propose to implement a change to delivery rates to address the EE Rev Panel's 4 recommendation (at 12-13) that labor and associated benefits costs associated with 5 energy efficiency programs should be recovered in distribution rates. As discussed by the Utility 2.0 Panel in its rebuttal testimony, to effectuate this recommendation 6 7 delivery rates will be increased to collect an additional \$5.57 million dollars in 2016 8 and the Energy Efficiency Rider will be adjusted downward by the corresponding 9 amount in 2016. Exhibit ____ (JTT-11)-Sch1, page 1 of 1 identifies the change to 10 delivery rates associated with the implementation of this proposal in all three years of 11 the rate plan.

Q. Please summarize the recommendations of the Rebuttal Testimony of Jackson Morris On Behalf of NRDC that you address, and your conclusions.

I will address Mr. Morris's recommendations (at 2-3) that support the DPS's 14 A 15 recommendation not to change the residential and small commercial customer 16 charges due to (i) the allegedly negative effect on low income customers, and (ii) the 17 allegedly negative effect on energy efficiency. Mr. Morris' claims lack merit because 18 (i) he ignores the fact that PSEG LI proposed to address the impact of the proposed 19 customer charge increases on low income customers through modification to the low 20 income discount, (ii) there is no reason to believe that energy rates will adversely affect the payback of energy efficiency investments because the energy rates PSEG 22 LI is proposing are very close to the present energy rates, and (iii) the exhibits

	attached to Mr. Morris' testimony support a \$20 minimum bill charge, which is
	actually in alignment with PSEG LI's proposed increase in the customer charge.
II.	ECOSS & MCOSS METHODOLOGY
Q.	Did you submit an Embedded Cost of Service Study and a Marginal Cost of Service Study in this proceeding and were they reviewed by the Rates Panel?
A.	Yes. I submitted both an Embedded Cost of Service Study ("ECOSS") and a
	Marginal Cost of Service Study ("MCOSS") in this proceeding and they were
	reviewed by the Rates Panel.
Q.	Did the Rates Panel identify any specific issue with the ECOSS or MCOSS?
А.	Yes, they identified that PSEG LI ECOSS and MCOSS used a forecasted test year
	instead of a historical test year.
Q.	Besides the test year issue, did the Rates Panel take issue with any other aspect of the ECOSS or MCOSS?
A.	No, they did not cite any specific issues with the ECOSS or MCOSS.
Q.	Did the Rates Panel identify any issues with the calculations of the Embedded or Marginal customer costs presented in the Embedded or Marginal Costs?
А.	No, they did not identify any specific issues with the performance, calculations or the
	cost allocations in the ECOSS or MCOSS.
III.	RATE DESIGN
	A. <u>Residential and Small Commercial Customer Service Charge</u>
Q.	What reason did the Rates Panel's provide for proposing to keep LIPA's residential and small commercial customer charges at current levels?
А.	The Rates Panel cited the alleged bill impacts of PSEG LI's proposal as the primary
	basis for its recommendation. However, in making this claim, the Rates Panel
	II. Q. A. Q. A. Q. A. III. Q. A.

appears to have ignored PSEG LI's proposal to change the customer charge in three steps over the three-year rate plan. The Rates Panel identifies the magnitude of the three-year changes as if it is a one-time adjustment and ignores the annual bill impact. PSEG LI's proposal is intended to ameliorate customer impacts by implementing a phase-in of the residential customer charge increase, producing an increase over three years that moves only approximately halfway to a cost based customer charge (i.e., the current customer charge is \$10, a cost based customer charge is approximately \$30, PSEG LI proposes to move to \$20 over three years). In addition, the Rates Panel alleges that PSEG LI "proposes to increase residential and small commercial customer charges by 100% and 300%, respectively," increases that are, allegedly, "substantially greater than the overall requested delivery rate increase of approximately 4%" (page 15, lines 1-10). However, it should be clear that a 100%/300% increase in customer charges does not equate to similar percentage increases in residential and small commercial customers' overall delivery charges. The customer charge proposal for 2016 is \$15 dollars a month. The average increase for the average usage customer on a total bill basis (including the associated lower energy charge) is approximately \$2.85 per month. If a customer has no usage, the increase is \$5.00 per month, or \$2.15 a month more than the average customer. If a customer has low usage, (i.e., 280 kWh per month) the increase is \$3.64 per month or \$0.79 a month more than the average usage customer. This equals approximately \$10 dollars per year.

762

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

0. In your opinion is a bill impact of an additional \$10 dollars a year on residential 1 low usage customers reasonable? 2 3 A. Yes. The Commission has approved increases in customer charges that are intended 4 to move those charges closer to cost-based levels. Exhibit (JTT-9) contains the 5 residential and small commercial customer charges assessed by electric IOUs in New York State. These residential and small commercial customer charges were approved 6 7 as part of joint proposals supported by the DPS. The Rates Panel has not provided a 8 persuasive reason why LIPA should be required to retain customer charges that are 9 far below those assessed by New York's IOUs. 0. Why do you believe that the bill impacts identified by the Rates Panel do not 10 11 justify retaining the current residential and small commercial customer 12 charges? 13 The Rates Panel has not quantified what bill impact is too high, it has not defined a A. 14 low usage customer, it has not identified the number of low usage customers for 15 which the impact is too high, and it has not provided any parameters as to what bill 16 impact would be appropriate. The Rates Panel is contending that anything greater 17 than a customer-charge related bill impact of 0% is unreasonable, but this testimony 18 cannot be squared with the fact that DPS Staff has supported increases in the 19 residential and small commercial customer charges assessed by a number of Investor-20 Owned Utilities ("IOUs") in New York in recent years. 0. Is there anything else wrong with the Rates Panel's claims that bill impacts 21 22 justify keeping the residential and small commercial customer charges at 23 current levels?

A. Yes. By proposing to not change the residential and small commercial customer
charges in this proceeding, the Rates Panel is setting up a situation in which customer

1		charges will need to be dramatically increased in the future to achieve cost-based
2		charges, which would entail larger low usage customer bill impacts than PSEG LI is
3		currently proposing. The Rates Panel ignores the fact that PSEG LI's proposal is
4		designed to gradually move LIPA's residential and small commercial customer
5		charges to a level that is approximately 50% of a cost-based charge over a three-year
6		period.
7 8	Q.	Did the Rates Panel identify any other reason to keep the residential and small commercial customer charges at current levels?
9	А.	The Rates Panel also stated (at 16-17) that PSEG LI/LIPA should wait to address
10		customer charges because REV Track 2 "is expected to include a full examination of
11		the current rate structures and designs."
12 13	Q.	Do you agree that a change to the customer charges should wait for REV Track 2?
14	A.	No. It is my understanding that Rev Track 2 is considering ways to revise energy and
15		power markets. I am not aware of any Rev Track 2 orders or specific proposals that
16		propose changes in the method for calculating residential and small commercial
17		customer charges. Exhibit (JTT-8) contains the DPS's response to a PSEG LI
18		Information Request in which the DPS fails to identify any Rev Track 2 orders or
19		specific proposals that propose changes in the methods for calculating residential and
20		small commercial customer charges. The response points only to an open ended
21		question to stakeholders without the stakeholders' responses indicating that customer
22		charges should be addressed in Rev Track 2. Therefore, the Rates Panels' argument

for holding off changing the residential and commercial customer charge until Rev Track 2 proposals are complete should be rejected.

Q. What reason did Mr. Morris provide for proposing to keep LIPA's residential and small commercial customer charges at current levels?

A Mr. Morris recommends no change to the residential and small commercial customers' charges due to (i) the alleged negative effect of such charges on low income customers, and (ii) the alleged negative effect of such charges on energy efficiency.

9

Q. Do you agree with Mr. Morris's rationale?

10 A No. Contrary to Mr. Morris' claim, PSEG LI has addressed the impact of its 11 proposed changes in customer charges by proposing to increase the low income 12 discount. In addition, Mr. Morris's further claim that current investors in energy 13 efficiency might see a change to the payback period is invalid because the proposed 14 residential energy rates after adjustment for the rate request are nearly identical to the 15 current energy rates, even with the proposed increases in the customer charges. In addition, while Mr. Morris provides two papers to support his position on energy 16 efficiency concerns with the customer charge, these papers provide an alternative to 17 18 the customer charge referred to as a "minimum bill". Although Mr. Morris is not 19 proposing a minimum bill, the justification for a minimum bill as described in the 20 exhibit is similar to the justification for an increased customer charge. Both an 21 increase in customer charge and a minimum bill are intended to ensure that customers 22 pay an appropriate share of the costs incurred to serve them.

1

2

3

4

5

6

7

2

3

4

5

6

Q. What is the difference between a customer charge and a minimum bill?

A. The only difference is that a minimum bill usually allows a customer to receive some relatively small delivery quantity. If the customer's actual usage in the month is not equal to or greater than that quantity, the customer must still pay the minimum bill.

Q. Can you summarize the most important arguments for increasing customer charges?

7 A. Prior Commission decisions recognize that customer charges that are Yes. 8 substantially below cost create a subsidy and burden imposed on other customers by 9 low use customers. Moreover, increases in customer charges will better align LIPA's 10 rates to more accurately recover its fixed costs. Conversely, residential energy rates 11 proposed by the Rates Panel would be the highest in the New York State because the 12 proposed customer charge would be approximately \$10 a month or half the average customer charge for the other IOUs in the State. When the customer charge is 13 14 insufficient to recover customer-related costs, the energy rates (i.e., the usage 15 charges) must collect a higher portion of the class revenue requirement. However, 16 only a small portion of the base delivery revenue requirement for each customer rate 17 class represents energy-related costs. Therefore, the majority of the costs being 18 collected through the usage blocks are fixed costs that are either demand or customer-19 related. As a result, usage block rates tend to create intra-class cross subsidies 20 because higher volume customers pay more than their fair share of fixed costs and 21 lower volume customers pay less than their fair share of fixed costs. Collecting more 22 costs using fixed charges like the customer charge helps to reduce intra-class cross 23 subsidies. While some subsidies within and between classes are inevitable, rate

1		design should strive to track costs as closely as reasonably possible. This is why it
2		has been the Commission's policy to approve customer charges that move toward
3		cost based charges.
4		B. <u>Residential Water And Space Heating Rates</u>
5 6	Q.	Does the Rates Panel agree with PSEG LI that the grandfathered residential water heating rate should be eliminated?
7	А.	Yes, however, the Rates Panel proposal is to the grandfather the residential water
8		heating rate class for five years.
9 10	Q.	Do you agree with the Rates Panel's proposal to phase-out the grandfathered residential water heating rate class over five years?
11	A.	No.
12 13	Q.	Do you have an alternate proposal to phase-out the grandfathered residential water-heating rate class?
14	A.	Yes, I propose to limit the phase-out to the three years of the rate plan. This mitigates
15		the bill impacts identified by the Rates Panel, but limits the phase-out to the term of
16		the rate plan. I propose a three year phase-out so that the full impact of the change
17		can be captured during the existing rate plan.
18 19	Q.	What would be the bill impact if your alternate proposal to phase-out the grandfathered residential water-heating rate class was used?
20	A.	Using the PSEG LI filed rate request, the delivery revenues for Rate 380 - the water
21		heating rate class - will be increased by under 6.3% per year on average. This is
22		shown on Exhibit(JTT-11) Schedule 3A and 3B, Page 3 of 18, line 39.

4	0	
1 2	Q.	Does the Rates Panel also propose to eliminate the residential electric space heating rates?
3	А.	Yes, the Rates Panel proposes to eliminate electric residential space heating rates over
4		five years.
5 6	Q.	Does the Rates Panel identify the bill impacts of this new proposal to eliminate the residential electric spacing heating rates?
7	А.	No, however it does state:
8 9 10 11 12		in the first year would result in an increase of 54%. To mitigate these effects, we recommend the gradual elimination of the space heating discount over a five year period, which results in above average annual increases of approximately 12% to the space heating rate block.
13		The 54% and 12% are references to the increase in the tail block rate only. These
14		references do not represent the bill impacts on a typical residential electric heat bill for
15		the full change. I calculated the total bill impact using the Rates Panel's calculated
16		delivery rates for residential non-heat as compared to current electric heat delivery rates.
17		Table 1 identifies the bill impacts on the delivery portion of the bill based on the Rates
18		Panel's fully phased-in delivery rate proposal.

		Delivery				
	Total Annual KWH Usage	Annual Usage Present		Difference	Change	
					-	
1	7,000	\$711.81	\$823.39	\$111.57	15.67%	
2	10,000	\$922.63	\$1,128.26	\$205.63	22.29%	
3*	11,800	\$1,049.30	\$1,311.43	\$262.13	24.98%	
4	15,500	\$1,308.84	\$1,686.73	\$377.89	28.87%	
5	21,600	\$1,737.14	\$2,306.21	\$569.06	32.76%	
6	31,600	\$2,439.14	\$3,321.37	\$882.23	36.17%	
7	41,600	\$3,141.13	\$4,336.53	\$1,195.40	38.06%	
2	*Average					

Table 1

Bill Impact Assuming DPS Rates Panel's Electric Space Heating Proposal

Current Space Heating Rates vs 2018 Non Space Heating Rates

Q. Do you agree with the Rates Panel's proposal to phase-out residential electric space heating?

A. No. PSEG LI disagrees with this proposal because it will result in rates that far
exceed the marginal costs to serve these customers and will substantially increase the
winter bills of these residential customers that are already paying the highest winter
bills. This proposal would be unreasonably burdensome to our residential electric
space heating customers.

Q. Please explain why you believe that the Rates Panel's proposal would "far exceed marginal costs."

A. For the vast majority of residential customers, the cost to serve is nearly the same.
Most residential customers have the same size meter, service length and transmission
cost. They also cause LIPA to incur the same call center, collection, meter reading
and billing costs.

1		The costs I have just listed are primarily recovered in the energy portion of
2		residential distribution rates, and are all utility costs that do not vary based on the
3		amount of energy a residential customer uses in the winter. In other words, the
4		marginal cost to serve a residential customer in the winter with the next unit of energy
5		is negligible when fuel is excluded from the rate. Therefore, charging residential
6		space heating customers' increased delivery rates for their spacing heating usage will
7		result in rates that will far exceed marginal costs.
8 9	Q.	How much does a typical residential electric space heating customer currently pay?
10	A.	A typical electric heating customer uses about 2,735 kWh per winter month, while a
11		non-electric heating customer uses about 864 kWh per winter month. This equates to
12		a delivery bill of about \$181 dollars before taxes and other charges for an electric
13		heating customer as compared to \$85 dollars before taxes and other charges for a
14		typical non-electric heating customer. The additional delivery costs based on the
15		relatively high usage required by electric heating as the winter months have a
16		significant impact on our electric heating customers. As an example please see the
17		letter received from the Leisure Village Board of Directors presented in Exhibit
18		(JTT-10).
19 20	Q.	Why do you believe the Rates Panel's electric space heating proposal would be unreasonably burdensome for customers?
21	A.	The Rates Panel's proposal would increase the typical electric heating customer's

A. The Rates Panel's proposal would increase the typical electric heating customer's
winter month electric delivery bill by approximately \$81 per month if the change
were calculated using current rates without a declining block. The Rates Panel's

1		proposal to eliminate residential electric heating cites an average total bill change of
2		14% on Exhibit (SRP-3), page 2 of 5. This is incorrect; once the Rates Panel's
3		proposed total rate is applied, the total average delivery bill would be increased by
4		25% as identified in Table 1^1 . The 25% compares to the total bill delivery impact
5		using the Rates Panel's calculated rates for residential non-heat as compared to current
6		electric heat rates.
7		I believe that an increase of approximately \$81 or 44% per winter month
8		before consideration of the rate increase proposed by PSEG LI/LIPA in this case
9		would be unduly burdensome.
10 11 12	Q.	Please explain how you determined that the Rates Panel's electric heating proposal would increase a typical electric heating customer's delivery bill by \$81 per winter month.
10 11 12 13	Q. A.	Please explain how you determined that the Rates Panel's electric heating proposal would increase a typical electric heating customer's delivery bill by \$81 per winter month. I performed a study that looked at electric heating customers that had average
10 11 12 13 14	Q. A.	Please explain how you determined that the Rates Panel's electric heating proposal would increase a typical electric heating customer's delivery bill by \$81 per winter month. I performed a study that looked at electric heating customers that had average summer usage of 1,000-1,100 kWh per month and then looked at their average winter
10 11 12 13 14 15	Q. A.	Please explain how you determined that the Rates Panel's electric heating proposal would increase a typical electric heating customer's delivery bill by \$81 per winter month. I performed a study that looked at electric heating customers that had average summer usage of 1,000-1,100 kWh per month and then looked at their average winter usage. The average for the electric heating sub-group in the winter was 2,735 kWh. I
10 11 12 13 14 15 16	Q. A.	Please explain how you determined that the Rates Panel's electric heating proposal would increase a typical electric heating customer's delivery bill by \$81 per winter month. I performed a study that looked at electric heating customers that had average summer usage of 1,000-1,100 kWh per month and then looked at their average winter usage. The average for the electric heating sub-group in the winter was 2,735 kWh. I performed a similar study that looked at non-electric heating customers that had
10 11 12 13 14 15 16 17	Q. A.	Please explain how you determined that the Rates Panel's electric heating proposal would increase a typical electric heating customer's delivery bill by \$81 per winter month. I performed a study that looked at electric heating customers that had average summer usage of 1,000-1,100 kWh per month and then looked at their average winter usage. The average for the electric heating sub-group in the winter was 2,735 kWh. I performed a similar study that looked at non-electric heating customers that had average average summer usage of 1,000-1,100 kWh per month and then looked at their was 2,735 kWh. I
10 11 12 13 14 15 16 17 18	Q. A.	Please explain how you determined that the Rates Panel's electric heating proposal would increase a typical electric heating customer's delivery bill by \$81 per winter month. I performed a study that looked at electric heating customers that had average summer usage of 1,000-1,100 kWh per month and then looked at their average winter usage. The average for the electric heating sub-group in the winter was 2,735 kWh. I performed a similar study that looked at non-electric heating customers that had average average summer usage of 1,000-1,100 kWh per month and then looked at their average that had average summer usage of 1,000-1,100 kWh per month and then looked at their average that had average summer usage of 1,000-1,100 kWh per month and then looked at their average winter usage. The average for the non-electric heating subgroup in the winter was 2,000-1,000 kWh per month and then looked at their average winter usage.
10 11 12 13 14 15 16 17 18 19	Q. A.	Please explain how you determined that the Rates Panel's electric heating proposal would increase a typical electric heating customer's delivery bill by \$81 per winter month. I performed a study that looked at electric heating customers that had average summer usage of 1,000-1,100 kWh per month and then looked at their average winter usage. The average for the electric heating sub-group in the winter was 2,735 kWh. I performed a similar study that looked at non-electric heating customers that had average average summer usage of 1,000-1,100 kWh per month and then looked at their winter was 2,735 kWh. I performed a similar study that looked at non-electric heating customers that had average summer usage of 1,000-1,100 kWh per month and then looked at their was 864 kWh.

¹ Table 1 is calculated using the Rates Panel's calculated rates and assumes a total rate plan increase of 2%. Therefore, the 17% increase for residential electric heat should be compared to 2% and not PSEG LI's original requested increase of 6% over three years.

772	I	
1		Using the current residential space heating electric rate of:
2		1) Customer charge of \$10
3		2) First 250 kWh: \$0.0921\$ per kWh
4		3) Next 150 kWh:\$0.0851 per kWh
5		4) All Other kWh:\$0.0579 per kWh,
6		I calculated a bill impact of an additional \$81 per winter month. The calculation is as
7		follows:
8		Current Space Heating rates with declining block rates:
9		10 + (250*0.0921+150*0.0851+2,335*0.0579) = 182
10		Rate Panel Proposed Space Heating without declining block rates:
11		10 + (2,735*0.0921) = 263
12 13	Q.	Do you have any comments concerning the Rates Panel's assertion that no other IOUs in New York have electric heating rates?
14	A.	The Rates Panel is correct that no other New York IOUs have electric heating rates.
15		However, electric heating is much more prevalent in areas with milder temperatures,
16		such as the Mid-Atlantic and the South. Long Island's weather is not like upstate
17		New York's. Long Island's winter temperatures are more like the Mid-Atlantic
18		region's temperatures, making electric heating a more viable option for residential
19		customers. Currently, LIPA has approximately 42,000 electric space heating
20		customers. This number of customers with electric heat justifies the continuation of
21		LIPA's electric heating rates. Therefore, the Rates Panel proposal to eliminate the
22		electric heating discount should be rejected.

C. <u>Seasonal Rates</u>

Q. The Rates Panel identifies various modifications to PSEG LI's proposed rate design based on its assertion that seasonality should be reflected in the delivery rate design; can you summarize those proposed modifications? A. Yes. The Rates Panel recommends rejection of PSEG LI's proposals to eliminate (i)

residential inclining block rates in the summer, and (ii) seasonally different commercial energy and demand rates.

8 Q. What is the Rates Panel's argument for seasonal delivery rates?

A. The Rates Panel's argument for seasonal delivery rates is based on the fact that a significant focus of the design of LIPA's T&D system is to ensure it complies with design criteria at projected summer peak demand. The Rates Panel claims that because this is a major consideration of the design and construction of T&D facilities, it should be reflected in summer rates. Moreover, the Rates Panel claims that decreasing summer tail block rates would send a "wrong" price signal that would encourage peak load growth.

16 Q. Do you agree with the Rates Panel's cost based seasonality arguments?

A. No, not for delivery rates. Delivery rates collect delivery costs, which are mainly
fixed costs. These fixed costs do not vary materially with the time of year or the
seasons. They are primarily labor, maintenance costs and debt service on utility
assets. In LIPA's case, there is also a very significant tax burden, which is not
"seasonal." Many of these costs have a flat run rate throughout the year and there is
no need to have rates that are higher in the summer when customers are already
receiving high summer bills based on usage.

1

2

3

4 5

6

1		The T&D system is sized for the maximum system or customer load, which is
2		measured over an hour or a 15-minute interval and not a whole season. This one hour
3		cost driver is considered in the embedded cost of service study and is used to set the
4		rate classes' revenue requirements, not their rate designs. The primary cost incurred
5		by a utility to meet peak load is debt service which is a flat, mortgage type cost
6		incurred throughout the year. The suggestion that summer rates should be higher to
7		recover an hourly cost driver is not persuasive.
8 9	Q.	Does the Rates Panel's price signal-based seasonality argument justify the retention of higher delivery rates in the summer?
10	A.	No. I do not disagree that higher summer delivery rates may discourage some
11		consumption. However, electric bills in the summer can be two to three times larger
12		than other monthly bills based solely on usage and LIPA's customers are already
13		overburdened by their summer utility bills. In addition, LIPA offers balanced billing,
14		which eliminates the price signal associated with higher summertime delivery rates
15		for half of LIPA's customers. So, economic theory aside, on balance, from both an
16		equitable and practical standpoint, I believe that continuing to maintain inclining
17		block rates in the summer is not justified.
18 19 20	Q.	The Rates Panel cites a 12.95% bill impact on winter demand charges as the basis for rejecting PSEG LI's proposed change to the winter demand ratchet; is that correct?
21	A.	No, on an annual basis the demand ratchet change will have a minimal impact on
22		individual customers' bills. The percentage identified by the Rates Panel represents
23		the increase in the amount of demand billing units. This increase in billing units will

lower the per unit demand rate, it will not increase any customer's delivery bill by 12.95%.

Q. Is the Rates Panel's position on the Winter Demand Ratchet counter to its arguments for retaining seasonal rate differentials?

A. Yes. The Rates Panel states that rates should be seasonal due to the fact that the T&D System is sized to meet the maximum summer load. As I stated earlier, this is a maximum hour condition and does not provide a basis for seasonal delivery energy or demand rates because rates should be designed to recover the annual revenue requirement. However, the demand ratchet links a customer's maximum load, which normally occurs in the summer, to the costs that the customer's maximum load imposes on the system (i.e., transmission and transformer costs). The only difference between the current ratchet and PSEG LI's proposed ratchet is that under PSEG LI's proposal, the ratchet value (i.e., 85%) is held constant throughout the year. This does not materially change any customer's annual costs, but it better aligns the system's costs with the charges the customers receive to use the T&D system over all months, instead of reflecting more of that cost in customers' summer bills.

Q. Why is it important to remove seasonality from delivery rates?

A. The elimination of seasonally differentiated rates represents a step in the right direction to better align LIPA's costs with the revenues it recovers. Also, seasonally differentiated rates put a cash burden on our customers. Many residential customers find it difficult to pay their higher summer utility bills and use balanced billing to mitigate the problem. The elimination of seasonal rates would also benefit commercial customers by leveling out of their electric bills so that they can better

1 manage their cash flows. In short, increasing summer bills hurts customer 2 satisfaction and more importantly is not needed to recover LIPA's costs to serve its 3 customers. 4 0. Do other IOUs in New York State have seasonally differentiated rates? 5 A. Some do, but most do not. Central Hudson, Niagara Mohawk, NYSEG, and Rochester Gas and Electric do not have seasonal rates. Only Consolidated Edison and 6 7 Orange and Rockland have seasonal rates. PSEG LI's proposal to eliminate seasonal 8 rates is consistent with the majority of other IOUs' delivery rate designs, which have 9 generally been approved as part of joint proposals supported by DPS Staff. Are there any costs recovered in LIPA's base delivery rates that would be 10 **O**. appropriately recovered on a seasonally differentiated basis? 11 12 A. Yes. I believe it would be reasonable for LIPA to recover the Power Supply costs reflected in LIPA's base delivery rates on a seasonally differentiated basis. 13 14 0. What power supply costs are reflected in LIPA's base delivery rates? 15 A. The proposed base delivery rates reflect power supply costs of \$505.6 million in 16 2016. The power supply costs are projected to be incurred (i) under the Power 17 Supply Agreement ("PSA") between National Grid Generation LLC and LIPA, and 18 (ii) as operation and maintenance ("O&M") expenses associated with LIPA's 19 investment in the Nine Mile 2 point nuclear facility. 20 **O**. Do the power supply costs reflected in LIPA's base delivery rates have a 21 seasonal aspect? 22 A. Yes. Power supply costs incurred through the PSA and for Nine Mile 2 O&M have a 23 seasonal aspect.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

Q. Why do PSA and Nine Mile O&M costs have a seasonal aspect?

A. To minimize the cost of meeting the expected system load duration curve, LIPA has various types of productions plants. To determine the optimal system resource mix, both capital and energy costs must be taken into account. Baseload plants typically have higher capital costs and lower energy costs because that produces the lowest total cost for meeting baseload or year-round production requirements. Peaking plants have the lowest capital cost, but the highest energy costs. Because baseload plants operate for many hours of the year, it is reasonable to develop an allocation methodology that recognizes that it is average demand that contributes to the portion of load best served by baseload plants. In contrast, it is the peak load that contributes to the selection of peaking. Further, in between the peaking capacity and baseload capacity there are intermediate units that are more economic to run for more hours than a peaking unit, but fewer hours than a baseload unit. In this case, the system peak is reasonably measured as the average of the 12 monthly coincident peaks (12CP). Using 12CP recognizes that the total load, including customer demand, demand on capacity for scheduled maintenance, forced outages, and unit deratings, is a cost causative factor for LIPA's power supply costs. The need to recognize the cost causative aspects of system planning and design makes the use of the 12CP allocation methodology the appropriate cost allocation method for production plant, because production costs are not tracked by these power plant types.

The 12CP allocation methodology is widely accepted as an appropriate approach for aligning cost causation and cost responsibility in power systems where

1		the cost of energy is a major consideration in generation system planning. For
2		example, utility systems dominated by high cost thermal generation can invest very
3		substantial amounts to add generation capacity that reduces energy costs. The energy
4		cost savings from higher thermal efficiencies more than justify the additional
5		investment per kilowatt of capacity. Systems with high energy (i.e., fuel) costs and
6		high system load factors realize the greater benefits from investing more capital to
7		reduce energy costs. They have more kilowatt hours ("kWh") of consumption to
8		offset the additional capital costs, and their costs for peaking capacity are relatively
9		modest. The economic logic for investing more heavily in thermally efficient
10		baseload and cycling capacity is compelling.
11 12	Q.	Why is it appropriate to use seasonally differentiated rates to recover power supply costs but not to recover T&D delivery costs?
13	A.	As I have explained, the T&D system is sized for the maximum system or customer
14		load, which is measured over a 15-minute interval. The different loads placed on the
15		T&D system during various seasons will not change the factors that cause these costs
16		to be incurred. In contrast, aligning the recovery of power supply costs in a seasonal
17		manner properly aligns cost recovery with the factors that cause the costs to be
18		incurred.
19 20	Q.	Have you calculated seasonally differentiated delivery rates based on the PSA and Nine Mile O&M costs?
21	A.	Yes, as identified above, the PSA and Nine Mile O&M costs total \$505.6 million
22		("Production Cost in Delivery"). Using the ECOSS (12CP) allocation factor, I
23		allocated 43% of the Production Cost in Delivery to the four summer months and

1		57% of the Production Cost in Delivery to the eight winter months. Using the sales
2		by class for residential, small commercial and large commercial service classes, I was
3		able to calculate a per kWh energy seasonal rate differential. For the residential
4		service class the differential per kWh rate is \$0.0009 and for small commercial and
5		large commercial service classes the differential per kWh rates are \$0.0072 and
6		\$0.0047, respectively. The detailed calculations of these rates are presented in
7		Exhibit (JTT-11), schedule 10. The resulting rates are also identified in
8		Exhibit (JTT-11), schedules 3A, 3B, and 3C for the residential non-TOU rates and
9		for both small commercial and large commercial rates.
10		D. Large Demand Commercial Customers
11	Q.	What is the Rates Panel's proposal for Large Demand Commercial Customers?
12	A.	The Rates Panel proposes to increase the Large Commercial Customer Charges by
13		applying an 11% increase each year to both the customer charge and the demand
14		charges.
15 16	Q.	Do you agree with the Rates Panel's proposal for Large Demand Commercial Customers?
17	A.	I generally accept the Rates Panel's proposal. As identified in my direct testimony,
18		the current demand rates collect approximately 40% of the revenue requirement for
19		the Large Demand Commercial Customers and PSEG LI was targeting a redesign
20		where the demand charges would collect 50% of the revenue requirements. The
21		Rates Panel proposal increases the demand rates by 11% per year for the three years,
22		which equates to demand rates that would collect 51.7% of the revenue requirement.

I

Assuming that seasonality is removed from the delivery rate design as described above, the Rates Panel's proposal will provide the fixed cost recovery requested.

E.

Critical Peak Pricing Rate Schedule

Q. The Rates Panel proposes that LIPA should implement a voluntary Critical Peak Pricing rate schedule; do you agree?

A. I generally agree that LIPA should create a Critical Peak Pricing rate schedule, but the timing of this rate plan proceeding does not afford enough time to implement it. A Critical Peak Pricing rate schedule would require studies on how to design and implement it. These studies take time and the information technology ("IT") system changes required to implement such a rate schedule would also take time to implement. Critical Peak Pricing should also be designed in consideration with PSEG LI's plan to implement the Advanced Meter Initiative ("AMI"), but as of today PSEG LI does not have authorization to implement AMI. In addition, the Rev Track 2 proceeding may completely change the way a Critical Peak Pricing tariff will be implemented. Therefore, the implementation of Critical Peak Pricing should be implemented at a later time with the input from Rev Track 2 and in conformity with LIPA's AMI meter implementation.

18

F. <u>Standby Rates</u>

Q. What is the Rates Panel's position on the proposed Standby Service rates?

A. The Rates Panel disagrees with PSEG LI's proposal to establish a new Standby
 Service to replace Back-up and Maintenance Service, and recommends that PSEG LI
 monitor the Commission's REV Track Two proceeding for future guidance in setting
 these rates.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

1 2	Q.	Do you agree with the DPS Rate Panel's position on the new Standby Service rates?
3	A.	PSEG LI's proposal was designed to conform to the rate design of the other Standby
4		Service tariffs in the State. If the DPS wants LIPA to wait for the new version of
5		Standby rates to come out in Rev Track 2, PSEG LI has no objection.
6		G. <u>Delivery Service Adjustment</u>
7	Q.	What is the DSA Panel's position concerning the DSA?
8	А.	The DSA Panel recommends that the DSA proposed by LIPA and PSEG LI should be
9		implemented with one significant exception. The exception is that it would impose a
10		limit on the Storm Reserve.
11	Q.	What is the DSA Panel's position on the Storm Reserve in the DSA?
12	А.	The recommendation is that the storm reserve be capped at no more than 1.5 times the
13		expense amount included in base delivery rates each year and that amounts collected
14		above the cap be used to offset charges in other DSA cost components or to pay down
15		debt if the balance grows beyond acceptable levels.
16	Q.	Do you agree with the DSA Panel's recommendation?
17	A.	I do not object to imposing a limit on the size of the storm reserve and I do not object
18		to using the amount received above the storm reserve cap to pay down debt. This
19		would provide clarity and transparency to the storm tracking proposal. In Mr.
20		Falcone's testimony he recommends that the storm reserve limit should be set to \$75
21		million. Basing the storm reserve limit on a factor tied to a budget as proposed by the
22		DSA Panel is arbitrary. Therefore, PSEG LI proposes to change the DSA tariff to
23		reflect the storm reserve limit of \$75 million.

0.

Are there any aspects of the proposal to recover storm costs through the DSA that require further clarification?

A. Yes. In our initial filing, the storm costs eligible for recovery through the DSA were defined as "Major Storm Costs" by reference to the definitions of "Major Storms" that is set forth in the Commission's regulations. This was not correct. As the DPS Staff has recognized in this proceeding the definition of a "Storm Event" under the Amended and Restated Operations Services Agreement between PSEG LI and LIPA (the "OSA") differs from the Commission's definition of a "Major Storm." Specifically, a "Storm Event" is defined in the OSA as an event where at least 15,400 customers are interrupted or at least 150 outage jobs are logged, in each case within a 24-hour period due to the storm. The DSA was intended to provide a reconciliation between the costs included for the Storm Event Reserve in LIPA's base delivery rates and the actual costs incurred during the DSA Tracking Periods. Accordingly, the language of the DSA provision of LIPA's tariff needs to be conformed to the OSA definition of Storm Event costs. Exhibit ____ (JTT-12) contains revised tariff leaves concerning the DSA that include the appropriate definition of Storm Event costs.

H. Low Income Discounts

18 Q. What is the Customer Service Panel's position on PSEG LI's proposed low income discounts?

A. The Customer Service Panel agrees with PSEG LI's proposal to increase the
residential heating low income discount to the full customer charge in 2016.
However, since the Rates Panel did not accept the increase in the residential customer
charge the Customer Service Panel recommends rejecting the proposed increase to
the residential non-heating low income discount.

1 2	Q.	Do you agree with the Customer Service Panel position on the low income discounts?
3	A.	In theory, yes. The low income discount needs to be tied to the residential customer
4		charge. However, PSEG LI strongly recommends that the residential customer
5		charge and the low income discount for non-heating customers be increased as
6		originally proposed.
7		I. <u>Removal Charge</u>
8	Q.	What is the Customer Service Panel's position on the Removal Charge?
9	A.	The Customer Service Panel recommends that the proposed Removal Charge should
10		be rejected, since "LIPA's tariff already includes investigation fees when theft of
11		service is found" (page 23, line 16).
12 13	Q.	Do you agree with the DPS Customer Service Panel's position on the Removal Charge?
14	A.	As long as LIPA is permitted to modify its tariff to clearly provide that it will be
15		permitted to recover the cost of turn-offs as part of its investigation fees, I do not
16		object to this recommendation.
17	Q.	Have you included proposed tariff language that would accomplish this result?
18	A.	Yes. That language is included in Exhibit (JTT-12) on tariff leaves 154 and 155.
19		J. <u>Proposed Rates</u>
20 21	Q.	Are you presenting the overall results of your recommendations on Delivery Rates?
22	A.	Yes. In Exhibit (JTT-11) revised rate design and bill impact statements have been
23		prepared to account for my recommendations as stated above and also to account for
24		the changes to revenues addressed in the PSEG LI Revenue Requirements Panel. I
25		am also a member of that Panel.

1 2	Q.	Are you presenting modified Tariff leaves based on your recommendations concerning Delivery Rates?
3	A.	Yes. Exhibit (JTT-12) contains revised tariff leaves that reflect my
4		recommendations as well as recommendations advanced by DPS Staff that PSEG LI
5		agrees with, and also account for the changes to revenues addressed by the PSEG LI
6		Revenue Requirements Panel. Also, I have identified some typographical errors and
7		other minor changes to the tariffs, which are set forth in Exhibit_ (JTT-12). This
8		Exhibit sets forth all tariff changes that have been identified in discovery in this
9		proceeding. A list of the proposed tariff changes and the justification for them is set
10		forth in Exhibit (JTT-13).
11		K. <u>Net Metering Issues</u>
12 13	Q.	Please describe your understanding of the issues raised by the Commission's December 15, 2014 Order in Cases 14-E-0151 and 14-E-0422.
14	А.	In the December 15 Order in Cases 14-E-0151 and 14-E-0422, the Commission
15		directed the State's IOUs to increase the net metering cap from 3% to 6% of electric
16		peak demand. The Commission also directed the IOUs to file tariffs that substitute
17		volumetric crediting for monetary crediting at non-demand remote net metered
18		locations.
19	0.	Should LIPA increase its net metering cap from 3% to 6%?
20	A.	No. LIPA is well below the 3% cap at this time. Moreover, it is quite possible that
21		improvements to the net metering program will be adopted in the REV Track 2
22		proceeding. Under these circumstances, LIPA should leave the cap at 3%.
23 24	Q.	Is it necessary for LIPA to modify its tariff to substitute volumetric credits for monetary credits at non-demand remote net metered locations?

1	А.	No. LIPA's tariff essentially requires all remote net metered locations to be demand
2		metered, because the size of their load, which is used to determine their rate class,
3		takes into account the amount of solar generation at the site. So there is no need for a
4		change.
5 6	Q.	Should LIPA make any changes to its tariff to comply with Section 66-j of the PSL?
7	А.	Yes. LIPA should update the capacity limitations for net metered generation
8		equipment such as fuel cells in its compliance filing in this proceeding.
9	IV.	CONCLUSION AND SUMMARY
10	Q.	Please summarize the findings and recommendations of your rebuttal testimony.
11	А.	I have reached the following findings and recommendations:
12		1. Residential and Small Commercial Customer charges should be increased
13		based on the cost justifications provided in my direct testimony.
14		2. The grandfathered residential water heating rate should be phased out over
15		the three-year rate plan.
16		3. The Rates Panel's recommendation to phase-out residential electric space
17		heating rates should be rejected.
18		4. The residential inclining block rate should be eliminated.
19		5. For the non-heat service classes, the seasonal differential in energy and
20		demand rates should be eliminated.
21		6. The winter demand ratchet for large commercial customers should be set
22		to 85% to match the summer demand ratchet.
23		7. For Rate Code 281, the Rates Panel's recommendation to increase the
24		customer charge and demand charge by 11% is acceptable to PSEG LI as
25		long as the seasonal differential is eliminated.

1		8. The Rates Panel's proposed voluntary Critical Peak Pricing rate schedule
2		should be considered as part of the REV Track 2 proceeding along with
3		AMI implementation.
4		9. It is acceptable to delay implementation of a new Standby Service until the
5		REV Track 2 proceeding is completed.
6		10. The low income discount for non-heat customers should be increased as
7		originally proposed by PSEG LI along with the proposed customer charge.
8		11. The Removal Charge can be addressed through a tariff modification that
9		would permit LIPA to recover the cost of turn-offs along with
10		investigation and inspection fees charged.
11	Q.	Do you have any closing comments?
12	A.	Yes. I would like to identify an overarching theme in my rebuttal testimony. PSEG
13		LI is in a unique position; as compared to IOUs operating in New York, PSEG LI has
14		no profit motive to increase sales or increase rate base. PSEG LI does have a profit
15		motive to provide reliable and dependable service. The metrics established in the
16		OSA focus PSEG LI's motivation on customer satisfaction. This motivation is a
17		prime basis of my rate design proposals. I am proposing rate design changes that will
18		increase fairness (i.e., the customer charges), reduce high summer bills (i.e., removing
19		seasonality in rates) and help our commercial customers to better manage cash flow
20		(i.e., removing seasonality, changing the winter demand ratchet). I am also disputing
21		the Rates Panel's proposals that would negatively affect customer satisfaction (i.e.,
22		elimination of the electric space heating rate). These rate design changes should have
23		a positive effect on LIPA's customers' satisfaction. Conversely, if these rate design

changes are rejected, such rejection may limit PSEG LI ability to achieve the levels of customer satisfaction identified in the OSA.

Q. Does this conclude your rebuttal testimony?

A. Yes.

JUDGE PHILLIPS: The next panel? 1 2 MR. WEISSMAN: We have affidavits for two more pieces of testimony this morning, Your Honor, or this afternoon I should 3 say. The next one is for the Power Supply Panel. 4 This is the 5 affidavit of Paul Napoli and James Wittine who submitted direct testimony on January 30, 2015 under the heading of Power Supply 6 7 That was a 20 page document including four exhibits. Panel. 8 Those four exhibits, each of which are a single page, are 9 identified as Exhibits 41 through 44 on Your Honors' exhibit 10 list. Again, all of this material was submitted on January 30, 11 2015, and I offer to you the affidavit of Mr. Napoli and Mr. 12 Wittine (handing). JUDGE PHILLIPS: The affidavit of the Power Supply Panel 13 14 has been marked for identification as Exhibit 124. On the basis 15 of these affidavits, we ask that the testimony of the Power 16 Supply Panel consisting of 20 pages be copied into the record as 17 though given orally today. 18 19 20 21 22 23 24 25

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-____

DIRECT PRE-FILED TESTIMONY OF THE POWER SUPPLY PANEL

Date: January 30, 2015

1		WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY
2	Q.	Please state the names of the members of this Power Supply Panel (the "Panel").
3	A.	We are Paul Napoli and James Wittine.
4	Q.	Mr. Napoli, please state your full name and business address.
5	A.	Paul Napoli. My business address is 333 Earle Ovington Blvd, Uniondale, NY
6		11553.
7	Q.	By whom are you employed and in what capacity?
8	А.	I am Vice President of Power Markets for PSEG Long Island LLC ("PSEG LI"). In
9		that capacity, I have responsibility for overseeing the electric supply planning and
10		contracting that PSEG LI performs for the Long Island Power Authority ("LIPA")
11		under the Amended and Restated Operation Services Agreement ("OSA") between
12		those parties.
13	Q.	Please describe your educational and professional background.
14	A.	I received a Bachelor of Engineering from Stevens Institute of Technology with a
15		Major in Civil Engineering in 1979. In 1985, I received an MBA in Finance from
16		Seton Hall University, and in 1998, I received a certificate in Mergers and
17		Acquisition from UCLA. I have more than 35 years of experience in utility
18		operations and strategy in both Gas and Electric Transmission operations for Public
19		Service Electric and Gas Company ("PSE&G") and its affiliates. Most recently, I
20		served as PSE&G's Director of Transmission Business Strategy and Services. I have
21		also served as Chairperson of the PJM Transmission Owners Administrative
22		Committee.

1	Q.	Have you previously testified before any regulatory authority?
2	A.	Yes. In PJM Interconnection LLC, FERC Docket No. ER06-456-006, I testified on
3		behalf of the PJM Transmission Owners in support of certain tariff modifications to
4		PJM's Open Access Transmission Tariff.
5	Q.	Mr. Wittine, please state your full name and business address.
6	A.	James Wittine. My business address is 333 Earle Ovington Blvd, Uniondale, NY
7		11553.
8	Q.	By whom are you employed and in what capacity?
9	A.	I am Manager of Planning and Analysis for PSEG LI. In that capacity I have
10		responsibility for a number of activities including the development of budgeted fuel
11		and purchased power costs and the estimated annual capacity charge under LIPA's
12		Amended & Restated Power Supply Agreement ("PSA") with National Grid
13		Generation, LLC ("NGG").
14	Q.	Please describe your educational and professional background.
15	A.	I received a Bachelor of Science degree in Electrical Engineering from Lowell
16		Technological Institute in 1968. In 1998, I received an MBA from the University of
17		Delaware. I have more than 40 years of experience in utility operations, strategy,
18		contract negotiations and regulation having been employed by: the Virginia State
19		Corporation Commission ("VSCC") (1974 - 1982); Delmarva Power & Light
20		Company ("DP&L") (1983 - 1998); Navigant Consulting Inc. (1999 - 2005); and
21		LIPA (2006 – 2014).

1	Q.	Have you previously testified before this or any other regulatory authority?
2	A.	Yes. As General Director of Public Utilities at the VSCC I testified in numerous
3		proceedings on behalf of the VSCC Staff on such matters as: cost allocation; rate
4		design; revenue requirements; fuel and purchased power clauses; power plant
5		performance; and incentive rate making. As General Manager of Regulatory Practice
6		at DP&L I sponsored testimony before the Public Service Commissions of Delaware
7		and Maryland, the VSCC, and the Federal Energy Regulatory Commission
8		("FERC").
9	Q.	What is the purpose of your testimony?
10	A.	The purpose of our testimony is to support the power supply-related proposals and
11		costs set forth in the three-year Rate Plan that covers calendar year ("CY") 2016
12		through CY 2018. Specifically, we will;
13		(i) provide an overview of the power supply-related proposals and costs reflected
14		in the three-year Rate Plan and describe the power supply-related assumptions
15		that have been made in preparing that plan,
16		(ii) describe how LIPA currently meets the power supply requirements of the
17		customers it serves,
18		(iii) describe the role that PSEG LI and its affiliates perform under the OSA in
19		planning for and providing the power supply requirements of LIPA and its
20		customers,
21		(iv) discuss the power supply costs that are currently projected to be incurred in
22		the 2016-2018 rate period and the method by which those costs will be

reflected in LIPA's rates,
1 2		(v)	describe the process that is being followed to plan for LIPA's power supply requirements during the 2016-2018 period and beyond,
3 4		(vi)	discuss how that process may lead to decisions that will affect the rates charged by LIPA during the 2016-2018 period, and
5 6 7 8		(vii)	discuss our proposal to establish a new proceeding in which interested parties will collaborate to determine if it is feasible to implement a competitive power supply market on Long Island, and if so, to determine what steps are required to implement such a market and encourage retail choice.
9	Q.	Do yo	ou sponsor any exhibits as part of your direct testimony?
10	A.	Yes.	We sponsor the following exhibits which were prepared under our direction and
11		super	vision:
12 13		(i)	Exhibit (PSP-1) sets forth the budget for PSEG LI's Power Markets organization for CY 2015 through CY 2018;
14 15 16		(ii)	Exhibit (PSP-2) provides information concerning the generation and transmission resources that are currently under contract to LIPA or owned by LIPA to serve its electric supply requirements;
17 18 19 20		(iii)	Exhibit (PSP-3) sets forth a breakdown of the non-fuel power supply- related costs that are projected to be incurred and consequently recovered in LIPA's base delivery rates ¹ for the years 2015-2018 based on the current baseline assumptions that underlie the Three Year Rate Plan; and
21 22		(iv)	Exhibit (PSP-4) sets forth a breakdown of the power supply-related costs ² that are projected to be incurred and consequently recovered through LIPA's

¹ These costs are associated with the PSA and LIPA's 18% ownership interest in the Nine Mile Point 2 ("NMP2") nuclear generation facility.
 ² These costs include such items as the cost of gas and oil used in electric generation and purchased power.

1 monthly Fuel and Purchased Power Cost Adjustment rate ("FPPCA"), more commonly known as the Power Supply Charge. 3 Q. Please provide an overview of PSEG LI's power-supply related 4 recommendations in this proceeding. 5 A. In preparing the three-year Rate Plan, PSEG LI has developed a baseline power supply plan that is designed to ensure that LIPA has access to power supplies that 6 meet the planning and reliability standards established by the National Electric 7 8 Reliability Council ("NERC"),³ the New York State Reliability Council ("NYSRC"), 9 and the New York Independent System Operator ("NYISO"), while also preserving 10 all of LIPA's existing options to develop new electric generation or transmission projects that are currently under evaluation. This plan generally assumes that all 11 12 generation and transmission facilities currently included in LIPA's resource base 13 remain available to meet LIPA's power supply requirements. At the same time, 14 except as we describe more fully below with respect to certain projects, this plan does 15 not reflect the addition of significant new power supply resources during the 2016-16 2018 period. Currently, we are undertaking a process that will enable us to make 17 more definite assumptions about LIPA's future power supply requirements by December 2015. To the extent that this process results in changes - up or down - in 18 19 power supply costs during the 2016-2018 period, those changes will be reflected in

NERC is a not-for-profit international regulatory authority whose mission is to ensure the reliability of the bulk power system in North America. NERC develops and enforces Reliability Standards; annually assesses seasonal and long-term reliability; monitors the bulk power system through system awareness; and educates, trains, and certifies industry personnel. NERC's area of responsibility spans the continental United States, Canada, and the northern portion of Baja California, Mexico. NERC is the electric reliability organization for North America, subject to oversight by FERC and governmental authorities in Canada. NERC's jurisdiction includes users, owners, and operators of the bulk power system, which serves more than 334 million people.

1

LIPA's rates through changes in the FPPCA or in other proposed cost tracking mechanisms that are discussed in the testimony of PSEG LI witness Joseph Trainor.

Please describe PSEG LI's role in managing LIPA's power supply and the steps 0. that PSEG LI has undertaken to fulfill that role.

A. Pursuant to the OSA, PSEG LI assumed contractual responsibility for a number of LIPA's essential functions on January 1, 2014. The responsibility for planning for 7 LIPA's power supply needs was fully transitioned to PSEG LI on January 1, 2015. 8 PSEG LI engaged in a comprehensive review of the resource planning methodologies 9 used in assessing LIPA's needs for power supply resources. After a careful review of the methodologies used historically by LIPA, PSEG LI recommended that LIPA 10 recognize the planning criteria established by the NYSRC and the NYISO, and 12 utilized by all of New York's investor owned electric utilities. Based on the 13 application of these planning criteria, PSEG LI also recommended that LIPA defer 14 committing to additional power resources until PSEG LI completes an Integrated 15 Resource Plan ("IRP"). This latter recommendation did not apply to the incremental 16 renewable projects that are discussed later in our testimony. Refraining from adding 17 additional power supply sources will enable LIPA to avoid significant additional power supply costs in the 2016 – 2018 period. However, it is now necessary for 18 19 PSEG LI to conduct a comprehensive review of LIPA's resources through the IRP 20 process.

21 22

Q. How does PSEG LI administer the management of LIPA's power supply?

A. PSEG LI administers LIPA's power supply through its Power Markets organization. This organization comprises three major areas: Strategy and Planning; Cost and Rate

Impact Analysis; and Power Resources Contract Negotiation and Management. Personnel within the Power Markets organization perform long-term supply planning including the development of the IRP process that we describe more fully below. The Power Markets organization also manages power plant contracts, transmission service agreements, and LIPA's minority ownership interest in the Nine Mile Point II ("NMP2") nuclear facility. In addition, Power Markets supports LIPA's management of its NYISO, PJM, ISO-New England and FERC relationships and develops and monitors LIPA's fuel and purchased power budget. The Power Markets organization was created in 2015 by combining the functions of LIPA's Power Supply Department with staff from PSEG LI with expertise in the areas of resources planning, power asset management and power contract oversight. The organization consists of 21 employees.

13 Q. What is the budget for the Power Markets organization for CY 2015 – CY 2018?

A. The budget for the Power Markets organization for CY 2015 – CY 2018 is set forth in Exhibit __ (PSP-1). The major budget items are labor and benefit costs and external costs associated with resource planning, procurements and project management. In addition, relatively modest costs are budgeted for transmission studies, association and professional dues and fees, data systems, and administrative and general expenses.

1

2

3

4

5

6

7

8

9

10

11

12

14

15

16

17

18

Q. What is involved in the comprehensive review of LIPA's Energy Resources Plan based on the revised planning criteria?

A. The first step is a detailed assessment of the condition of LIPA's existing electric capacity resources and a technology assessment of the future of energy supply. In addition, a full IRP must be developed that estimates LIPA's future resource needs.

What will happen when these activities are completed?

6

0.

1

2

3

4

5

7 A. Once these activities are completed, Power Markets will be in a better position to 8 evaluate LIPA's options for addressing those needs. This will include evaluation of 9 various options such as new "On-Island" capacity, the repowering of existing capacity, possible transmission solutions, election of unforced delivery rights⁴ on 10 11 existing transmission lines, and energy efficiency/demand response activities. Once 12 those options have been fully considered and evaluated, we will have a more accurate assessment of LIPA's potential portfolio of future resources, including the impact of 13 14 various power supply options on LIPA's rates and the achievement of other goals and 15 objectives such as emission reductions.

16

Q. How do you determine future resource needs?

17 A. LIPA has a total minimum obligation and a minimum On-Island capacity obligation.
18 The minimum On-Island obligation is that portion of the forecasted peak that must be
19 satisfied with capacity physically located on Long Island or otherwise recognized as
20 On-Island capacity by the NYISO.

⁴ Unforced delivery rights represent the possible procurement of firm generating unit capacity in neighboring regional transmission organization, such as PJM or ISO-New England.

1	LIPA's total minimum capacity obligation in megawatts (MWs) is determined
2	by the following formula:
3 4	Total Minimum Capacity Obligation = LIPA Projected Coincident ⁵ Peak Load + (LIPA Projected Coincident Peak Load x IRM ⁶)
5	LIPA's minimum On-Island capacity obligation (MWs) is determined by the
6	following formula:
7 8	Minimum On-Island Capacity Obligation = LIPA Zone K Projected Peak Load x LCR ⁷
9	LIPA's additional or incremental capacity need equals:
10 11	Total Minimum Capacity Obligation – (Contracted Resources + Market Capacity Purchases)
12	LIPA's minimum On-Island additional or incremental capacity need equals:
13 14	Minimum On-Island Capacity Obligation – (On-Island Contracted Resources + On-Island Market Capacity Purchases)
15	Q. What does the term "Locational Capacity Requirement" ("LCR") mean?
16	A. LCR is one of the two primary planning criteria established by the NYISO that LIPA
17	is required to meet and refers to the amount of capacity required to be located On-
18	Island or otherwise recognized as "On-Island" by the NYISO. The other criterion is
19	known as the Installed Reserve Margin ("IRM").
	 ⁵ Coincident with the New York Control Area peak load. ⁶ IRM stands for Installed Reserve Margin. The IRM is established annually by the NYS Reliability Council. ⁷ LCR stands for Locational Capacity Requirement. The LCR is established annually by the NYISO.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

Q. What is the significance of the criteria established by the NYISO?

A. The NYISO manages the network of high voltage lines that form New York State's electric transmission grid and facilitates the dispatch and operation of electric generating units along with the administration of the wholesale power market in New York. As a member Transmission Owner of the NYISO, LIPA must adhere to the NYISO rules and criteria that prescribe the technical and reliability conditions under which the New York state transmission system must be designed and operated.

LIPA's transmission system is located in NYISO Zone K which comprises Suffolk and Nassau Counties and the Far Rockaway peninsula. The LCR is the specified percentage of electric load in Zone K that must be served by resources that qualify as On-Island resources; that is, resources physically or otherwise deemed by the NYISO to be physically located in Zone K. Due to transmission constraints, Zone K historically has been considered a "load pocket" requiring a high percentage of peak demand to be met with On-Island resources. LIPA's LCR for the planning year ending April 30, 2015 is 107%, meaning that LIPA and other responsible entities in Zone K must have On-Island resources at least equivalent to 107% of the NYISOdetermined peak demand for Long Island.

18

Q. Who are the other responsible entities in Zone K?

A. The other responsible entities in Zone K are the Villages of Freeport, Greenport and
Rockville Centre, the New York Power Authority and the participating load serving
entities ("LSEs") in LIPA's retail access program (Long Island Choice). The peak
demand served by LIPA is approximately 95% of the total peak demand in Zone K.

4

5

6

Q. What does the term Installed Reserve Margin ("IRM") mean?

A. Under the NYISO's rules there must be enough electric capacity statewide to meet the combined projected peak demand of all LSEs, plus the IRM. The IRM is a statewide requirement that is established annually by the NYSRC and is currently 17% for the planning year ending April 30, 2015. The IRM requirement is allocated to each LSE based on demand that is coincident to the total NYISO peak demand.

7

Q. How is the IRM determined?

8 The IRM is evaluated by applying principles of probability "such that the loss of load A. 9 expectation ("LOLE") of disconnecting firm load due to resource deficiencies shall be, on average, no more than 0.1 day per year," or one day in ten years. 10 This calculation incorporates guidelines and procedures of the Northeast Power 11 Coordinating Council⁸ and the reliability standards of NERC. The 0.1 day per year 12 standard is an industry standard used by other regional transmission organizations 13 14 such as PJM and ISO New England.

Northeast Power Coordinating Council, Inc. ("NPCC") is a not-for-profit corporation responsible for promoting and improving the reliability of the international, interconnected bulk power system in Northeastern North America. NPCC carries out its mission through (i) the development of regional reliability standards and compliance assessment and enforcement of continent-wide and regional reliability standards, coordination of system planning, design and operations, and assessment of reliability (collectively, "regional entity activities"), and (ii) the establishment of regionally-specific criteria, and monitoring and enforcement of compliance with such criteria (collectively, "criteria services activities"). NPCC provides the functions and services for Northeastern North America of a cross-border regional entity through its regional entity division, as well as regionally-specific criteria services for Northeastern North America through its criteria services division.

The NPCC geographic region includes the State of New York and the six New England states as well as the Canadian provinces of Ontario, Québec and the Maritime provinces of New Brunswick and Nova Scotia. Overall, NPCC covers an area of nearly 1.2 million square miles, populated by more than 55 million people.

1 2	Q.	How does LIPA presently provide the power supply requirements of its customers?
3	A.	LIPA purchases its power supply from a variety of generation providers. LIPA also
4		owns a tenant-in-common interest in the NMP2 nuclear facility. Exhibit (PSP-2)
5		sets forth the power supply resources under contract to LIPA. Almost all of LIPA's
6		power supply is under long term power purchase agreements ("PPAs") with
7		expiration dates ranging from 2015 to 2034. The majority of LIPA's power supply is
8		provided under the following long-term contracts:
9		1. Power Supply Agreement ("PSA") – This tolling Agreement, which is on file
10		with, and subject to cost of service regulation by, FERC provides for the sale
11		to LIPA by NGG of all of the capacity of the oil and gas-fueled generating
12		plants that were formerly owned by the Long Island Lighting Company
13		("LILCO") prior to the acquisition of LILCO and its transmission and
14		distribution assets by LIPA in 1998. The PSA provides about 60 percent of
15		LIPA's capacity and 26 percent of its annual energy requirements.
16		2. Caithness Energy Center – LIPA has a long term contract with the owner of
17		this gas fired combined cycle plant that is located on Long Island. Under this
18		tolling agreement LIPA procures approximately 286 MWs of capacity.
19		Caithness has produced about 10 percent of LIPA's annual energy
20		requirements since 2009.
21		3. Neptune Regional Transmission System – LIPA has a long term Firm
22		Transmission Capacity Purchase Agreement ("FTCPA") for this 660 MW
23		High Voltage, Direct Current ("HVDC") submarine cable. The FTCPA
24		enables LIPA to procure about ten percent of its On-Island capacity and about
25		20 percent of its annual energy requirements from the PJM market. The On-
26		Island capacity is from a long-term capacity purchase agreement LIPA has
27		with the Marcus Hook facility (685 MW).

 The Cross Sound Cable – This is a 330 MW HVDC submarine cable to New England that enables LIPA to procure On-Island capacity and energy from ISO New England. Currently LIPA procures approximately 100 MW of capacity qualified as On-Island capacity from Bear Swamp.

Q. Do LIPA's power supply resources include renewable resources?

A. Yes. LIPA currently purchases solar energy from a number of solar projects on Long Island as well as hydroelectric power from Brookfield. The baseline plan that we have described for 2016-2018 also includes plans for two additional, fully subscribed solar feed-in tariffs that are projected to provide approximately 150 MW of solarpowered electricity as well as an additional feed-in tariff for up to 20 MW of nonsolar renewable power. The costs of these projects are included in the projection of fuel and purchased power costs presented in Exhibit __ (PSP-4).

In addition, on December 17, 2014 LIPA's Trustees authorized conducting negotiations⁹ of individual 20-year PPAs for 11 different solar proposals which in aggregate constitute 122 MW. In addition, the Trustees authorized commencement of a supplemental solicitation to secure renewable energy of up to an additional 160 MW of renewable capacity commencing delivery on or before December 31, 2020. Furthermore, the Trustees authorized PSEG LI working with LIPA staff and other stakeholders to develop an additional program, integrated with the IRP, for additional renewable energy beyond the 280 MW target of those two sets of additional renewable projects. Because no contracts have been fully negotiated, executed or approved none of the costs associated with the 280 MW target projects or additional

Any potential PPA is subject to further authorization by the Trustees.

renewable projects beyond the 280 MW target are included in the projection of fuel and purchased power costs presented in Exhibit (PSP-4).

3

0.

What does the term "feed-in tariff" mean?

4 A. The term "feed-in tariff" describes an offer by the utility – LIPA in this case – to 5 purchase a specific type of renewable generation from willing suppliers at a fixed energy price per kilowatt-hour for a specific period of time. The offer price is stated 6 7 in the tariff and is available to every supplier that meets the criteria, up to the 8 maximum level of capacity specified. The supplier under such a tariff receives a 9 fixed price for its energy output for twenty years under a standard form PPA.

10 11

0.

In planning for its power supply requirements does LIPA account for the impacts of its energy efficiency programs?

Yes. The effect of energy efficiency is reflected in the projected load and energy 12 A. 13 forecast such that the peak load and energy forecast is lower than it otherwise would 14 be in the absence of the energy efficiency programs. The full impact of Special Case 15 Resources ("SCRs") is also reflected in the forecast. These resources will reduce the level of LIPA's electric supply requirements. 16

17 **O**.

What are SCRs?

18 A. SCRs are demand side resources that are available in energy shortage situations to 19 maintain the reliability of the power grid. Commercial and industrial customers sign 20 up for the SCR program in which they are paid by the NYISO to reduce energy 21 consumption when they are asked to do so. SCR participants are required to reduce 22 power usage when they are notified to do so.

1 2 3	Q.	Is it expected that LIPA will continue to have access during the 2016 – 2018 period to the same resources that it currently relies upon for its power supply requirements?
4	A.	Yes. As discussed more fully below, during the 2016-2018 period certain PPAs that
5		LIPA has with suppliers will expire. It is currently our expectation that these
6		facilities will continue to participate in the NYISO capacity and energy markets as
7		On-Island resources.
8		In addition, in 2015, we expect that a 530 MW generating facility located in
9		Danskammer, New York will be reactivated. This is expected to reduce LIPA's Zone
10		K LCR by about three percent. Assuming this is the case, LIPA's actual On-Island
11		capacity supply margins are expected to remain well in excess of the applicable LCR
12		obligation through the period covered by the Rate Plan and for several years beyond.
13 14 15	Q.	Is there any risk that LIPA's customers will face a shortfall of electricity supply if the planning forecast proves inaccurate or LIPA loses access to one of its current resources?
16	A.	The probability of a shortfall is low. Moreover, there are a number of ways to
17		effectively manage an unforeseen need for additional power supply. For example,
18		LIPA can bring certain emergency generation resources on-line at Shoreham and
19		Holtsville. This option has been used by LIPA before. In addition, LIPA can
20		undertake measures such as (i) curtailing company use, (ii) reducing voltage, and (iii)
21		obtaining emergency support from the NYISO and neighboring ISOs.
22 23	Q.	Will LIPA's power supply needs be examined in the IRP that you discussed earlier?
24	A.	Yes. The IRP will examine LIPA's resource needs and the uncertainties that may
25		affect them. As we stated previously, during 2015 we will conduct a process to

complete the IRP. This process will include solicitation and incorporation of public input. Once those activities are completed, we will review the existing responses to various requests for proposals ("RFPs") that have been issued by LIPA in the past few years and consider the various power supply options available to LIPA, including new generation and transmission solutions. We will also evaluate the impact of Utility 2.0 and the availability of capacity purchases using the Cross-Sound Cable.

7

0.

What is Utility 2.0?

8 A. Utility 2.0 is a proposal by PSEG LI to implement energy efficiency measures, 9 distributed generation and advanced electric grid technologies designed to provide 10 customers with the means to more effectively and efficiently manage their electric 11 The proposed program would also expand certain solar and geothermal usage. 12 programs. The Utility 2.0 program, which is under further review by the New York 13 State Department of Public Service, is described in greater detail in the testimony of 14 the Utility 2.0 Panel.

15

Q. How does LIPA recover the costs of power supply from its customers?

A. LIPA recovers a portion of its power supply costs through its base delivery rates and
the remainder through its monthly FPPCA. Specifically, LIPA recovers the non-fuel
related costs incurred under the PSA and the non-fuel related costs associated with its
investment in NMP2. These costs historically were recovered in LILCO's base rates
prior to its acquisition by LIPA. The remainder of LIPA's power supply costs, except
for certain payments-in-lieu-of-taxes associated with some PPAs, are recovered
through the monthly FPPCA.

1

2

3

4

5

1 2 3	Q.	Do LIPA's proposed base delivery rates for 2016-2018 reflect changes in power supply-related costs that are recovered through those rates as compared to the level of such costs in 2014?
4	A.	Yes. The changes in the power supply-related costs recovered in base delivery rates
5		in 2016-2018 are primarily the product of (i) projected increases in the annual
6		Capacity Charge under the PSA, and (ii) LIPA's pro rata share of projected capital
7		investments and operation and maintenance costs associated with NMP2. These costs
8		are set forth on Exhibit (PSP-3).
9 10	Q.	Do you have a forecast of the costs that LIPA will incur under the PSA for the 2016-2018 period?
11	A.	Yes. Exhibit (PSP-3), page 1 sets forth the forecast of costs projected to be
12		incurred under the PSA for the 2016-2018 period. These charges consist of fixed and
13		non-fuel variable charges. In projecting the PSA costs reflected on Exhibit (PSP-
14		3), we have assumed, consistent with the baseline assumption, that none of the
15		generating units currently providing service under the PSA will be retired and no
16		generation units that are or have been subject to the PSA will be repowered during the
17		2016-2018 period.
18 19 20	Q.	Is it possible that the actual costs incurred by LIPA under the PSA and with respect to NMP2 will vary from the amounts reflected in the forecast set forth on Exhibit (PSP-3)?
21	A.	Yes. The actual costs incurred by LIPA may be different than the original forecast
22		amounts. Two of the more significant drivers of such changes with respect to the
23		PSA are property taxes on the generating facilities subject to the PSA and NGG's
24		pension and other post-employment benefits costs. The difficulty in projecting these
25		costs is one of the reasons that PSEG LI witness Joseph Trainor is proposing a new

1		rate mechanism - the Delivery Service Adjustment - that will permit LIPA to
2		recover, inter alia, differences between the actual power supply costs incurred by
3		LIPA in any calendar year and the annual amount of such costs reflected in base
4		delivery rates.
5 6	Q.	What are the projected capital and operation and maintenance expenditures associated with NMP2 that are included in the proposed baseline delivery rates?
7	A.	Exhibit (PSP-3), page 1, sets forth a breakdown of these costs which are billed to
8		LIPA by Exelon Corporation, the operator of this facility.
9 10 11	Q.	Has PSEG LI prepared a forecast of the costs associated with electricity supply that will be recovered through LIPA's monthly FPPCA during the 2016-2018 period?
12	A.	Yes. For the period 2016-2018, we forecast that LIPA will incur the following power
13		supply costs (\$000):
14		2016 - \$1,681,830
15		2017 - \$1,701,494
16		2018 - \$1,714,252
17		A breakdown of these costs by year is set forth on Exhibit (PSP-4). This forecast
18		is based on the load and energy forecast prepared by the Sales and Revenue
19		Forecasting Panel and excludes Utility 2.0 impacts.
20 21	Q.	What are the major assumptions that underlie the forecast of costs to be recovered through the FPPCA?
22	A.	The forecast assumes that:
23		(i) there will be no additional retirement or repowering of conventional power
24		plants; and

1 (ii) LIPA will be subject to an IRM of 17% and an LCR of 104% throughout the 2 period. 3 Q. Does the forecast of electric supply costs reflect the expiration of any PPAs that 4 are currently in effect? 5 A. Yes. LIPA has six PPAs in place with electric generation providers that will expire in the 2016 - 2018 time frame. The forecast assumes that the facilities will continue to 6 7 operate as On-Island resources and that the capacity and energy provided by these 8 facilities will continue to be available to LIPA through the NYISO capacity and 9 energy markets. 10 0. Do any affiliates of PSEG LI play a role in managing LIPA's power supply? 11 A. Yes. Effective January 1, 2015, PSEG Energy Resources & Trade, LLC (ER&T) 12 assumed responsibility for providing both power supply and fuel management 13 services related to LIPA's power supply resources. 14 0. In the longer term, what are PSEG LI's goals for managing LIPA's power 15 supply? 16 A. In the longer term, PSEG LI's goals for managing LIPA's power supply are: 17 (i) to reduce the monthly fluctuations and volatility in LIPA's monthly FPPCA 18 rate; 19 (ii) to review LIPA's existing PPAs including their ramp down rights for 20 opportunities to reduce costs; and 21 (iii) to complete the IRP to determine energy/transmission and demand response needs for Zone K over the next 20 years.¹⁰ 22

¹⁰ The first ten years of the period will be actionable, meaning that RFPs will be issued, whereas the subsequent ten years will reflect potential future initiatives.

1 0. What processes will you undertake to determine if there is a potential to obtain 2 capacity and energy pricing improvements and/or otherwise reduce costs incurred under LIPA's existing PPAs including the PSA? 3 4 We will conduct a comprehensive review of LIPA's existing PPAs and the PSA to A. 5 determine if there is a potential to improve their pricing and/or reduce costs. For 6 example, under the PSA there are various "ramp down" rights that permit LIPA to 7 modify the PSA to eliminate certain facilities covered by the agreement. We will 8 analyze those rights to determine whether it makes sense to exercise them. 9 Q. How does LIPA's current approach to contracting for electric supply affect the development of a competitive generation market? 10 There is essentially no merchant power development activity and, effectively, no 11 A. competitive wholesale power market in Zone K. This is largely due to the fact that 12 13 LIPA has sufficient capacity and purchased power under contract. To encourage 14 capacity development, LIPA has had to support new capacity by entering into long 15 term PPAs. This tends to impede the viability of retail choice programs on Long 16 Island. In PSEG LI's view, it is in the best interest of LIPA and the consumers it 17 serves to move to a more competitive generation market on Long Island, reflective of 18 the competitive market that exists in the rest of New York State. We are proposing to 19 establish a new proceeding in which interested parties will undertake a collaborative 20 process to consider if it is feasible to enhance retail choice in LIPA's service territory, 21 and if so, what steps should be taken to do so. This proposal is also discussed in the 22 testimony of Joseph Trainor.

- 23 Q. Does this conclude your testimony?
- A. Yes, it does.

1	JUDGE PHILLIPS: The next panel?
2	MR. WEISSMAN: Finally, Your Honor, again I have two
3	affidavits covering Wages, Salary and Benefits Panel Direct
4	Testimony. The first executed in New York executed in New
5	Jersey by Ms. Stephanie Olexson and Mark Pepe. The second
6	affidavit was submitted in New York by Mr. Robert Greenbaum.
7	These affidavits support the direct Wages, Salary and Benefits
8	Panel testimony filed on January 30, 2015. That testimony
9	consists of 18 pages and had no exhibits attached to it. The
10	affidavits of Mr. Pepe and Mr. Greenbaum (handing).
11	JUDGE PHILLIPS: The affidavit of the Wages, Salary and
12	Benefits Panel for Stephanie Olexson and Mark Pepe have been
13	marked for identification as Exhibit 125. The affidavit of
14	Mr. Robert Greenbaum of that same panel has been marked for
15	identification as Exhibit 126. On the basis of these
16	affidavits, we ask that the testimony of that panel be copies
17	into the record as though given orally. It consists of 18
18	pages.
19	
20	
21	
22	
23	
24	
25	

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Case 15-____

DIRECT PRE-FILED TESTIMONY OF WAGES, SALARY AND BENEFITS PANEL

Date: January 30, 2015

TABLE OF CONTENTS

I.	WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY	1
II.	PSEG LI'S ASSUMPTION OF THE NATIONAL GRID WORKFORCE	6
III.	UNION WAGES AND BENEFITS	8
IV.	MANAGEMENT SALARIES AND BENEFITS	10
v.	EXECUTIVE COMPENSATION	18

I. 1 WITNESS QUALIFICATIONS AND DESCRIPTION OF TESTIMONY 2 0. Please state the names of the members of this Wages, Salary and Benefits Panel (the "Panel"). 3 4 We are Robert Greenbaum, Mark D. Pepe, and Stephanie Olexson. A. 5 Q. Mr. Greenbaum, please state your employer and business address. 6 A. I am employed by PSEG Long Island LLC ("PSEG LI" or the "Company") and my 7 business address is 333 Earle Ovington Blvd, Suite 101 Uniondale, NY 11553. 0. 8 In what capacity are you employed by the Company? 9 A. I am employed by the Company as Senior Manager, Employee & Labor Relations 10 and HR Business Partners. My responsibilities are to provide direct oversight for the 11 HR Business Partner, Labor Relations and Employee Relations functions for PSEG 12 LI; provide overall leadership for on-site Human Resources ("HR") on Long Island; participate in the development, implementation, communication, 13 and and 14 administration of the Company's employee benefits programs. 15 0. Please summarize your educational background and professional experience. 16 A. I have 33 years of experience in the utility industry, including more than 20 years in 17 Human Resources. The majority of my time has been spent managing the employee 18 and labor relations functions at the Long Island Lighting Company, Marketspan, 19 KeySpan and National Grid. I have served as the chief spokesperson for numerous 20 collective bargaining agreements for the aforementioned combination electric and gas 21 utilities as well as affiliated HVAC subsidiary companies. In addition to having held

813

22

the position of Compensation Manager at the Long Island Lighting Company, I have

1		also managed the Human Resource Business partners at KeySpan and have been
2		responsible for all employee investigations at National Grid.
3		I hold a Bachelor's degree in Management from the State University of New
4		York and an MBA from Dowling College. I have served on various panels at the
5		Cornell School of Industrial Relations in Manhattan and have completed a program
6		on negotiation at Harvard Law School.
7	Q.	Do you belong to any professional societies or organizations?
8	A.	Yes. I am a member of the Society of Human Resource Management and am
9		currently the Chairman of the Edison Electric Institute and American Gas Association
10		Labor Relations Committee.
11	Q.	Mr. Pepe, please state your employer and business address.
12	A.	I am employed by PSEG Services Corporation ("PSEG Services"), located at 80 Park
13		Plaza (T-10), Newark NJ 07101.
14	Q.	In what capacity are you employed by the PSEG Services?
15	A.	I am employed as the Director of Compensation and HRIS (Human Resources
16		Information Systems). My responsibilities include developing and administering
17		Public Service Enterprise Group Incorporated's ("PSEG") compensation programs
18		for non-represented employees including Officers, providing strategic direction for
19		implementing systems that best support delivery of HR products and services, and
20		ensuring protection of employee data.

1	Q.	Please summarize your educational background and professional experience.
2	A.	I have 27 years of work experience including experience in accounting and finance,
3		auditing and human resources. My human resources experience includes the last
4		seven years working as an HR professional, specializing in the area of Compensation
5		and HR Systems. I have experience working in industries that include governmental,
6		healthcare and energy services. I have been employed at PSEG Services since
7		November 1995.
8		I hold a Bachelor of Science degree in Accounting and Master of Business
9		Administration degree with a concentration in Management Information Systems,
10		both from Saint Peter's University in Jersey City, NJ.
11	Q.	Do you belong to any professional societies or organizations?
12	А.	Yes. I am a member of the Society of Human Resource Management and World at
13		Work which is focused on total rewards.
14	Q.	Ms. Olexson, please state your employer and business address.
15	A.	I am employed by PSEG Services located at 80 Park Plaza (T-10), Newark NJ 07101.
16	Q.	In what capacity are you employed by PSEG Services?
17	А.	I am employed as Director of Employee Benefits. My responsibilities are to provide
18		strategy, delivery and communication of all employee benefit programs at Public
19		Service Enterprise Group ("PSEG") and PSEG LI.
20	Q.	Please summarize your educational background and professional experience.
21	A.	I have 22 years of experience working as an HR professional, specializing in the area
22		of Employee Benefits. I have experience working in industries that include

1 manufacturing, communications and healthcare. I have been employed at PSEG 2 Services since January 2013. I hold a Bachelor of Arts degree in Human Resource Administration from 3 4 Saint Leo University of Florida. 5 0. Do you belong to any professional societies or organizations? 6 A. Yes. I am a member of the Society of Human Resource Management, actively 7 involved in the National Business Group on Health, and hold a life, health and 8 accident insurance license from the New Jersey Department of Banking and 9 Insurance. 10 0. What is the overall purpose of the Panel's testimony in this proceeding? 11 A. The purpose of this Panel's testimony is to support the calculation of wages, salaries 12 and benefits that underlie the budgets presented in this filing. In that effort, we will 13 briefly explain the employment arrangements that PSEG LI assumed when it took 14 over the operation of the Long Island Power Authority ("LIPA") on January 1, 2014 15 pursuant to the Amended and Restated Operating Services Agreement dated as of 16 December 31, 2013 ("OSA"). We will describe the compensation and benefits plans 17 for PSEG LI's employees, both union and management, and explain the structure of 18 those wages, salaries and benefits in the 2015 base year and the escalation factors 19 employed to project wages, salaries and benefits through the end of the 2016-2018 20 Rate Plan period.

3

4

5

6

Q. Do you distinguish between the terms "benefits" and "compensation"?

A. Yes. In our testimony, the term "benefits" includes retirement programs (that is, the cost of 401K and pension programs), active and retiree health insurance, life insurance, and disability benefits, as well as vacation and sick pay. Compensation includes base salary and wages, plus the variable component of management pay, and the gain-sharing component of pay to represented employees.

7 Q. How is this Panel's testimony organized?

8 A. First, we discuss the role that we played in the process of providing the underlying 9 cost information for wages, salaries and benefits in the budgets that underpin this rate 10 filing. Next, we will briefly give the background of how individuals who were previously employed by National Grid Companies USA or its affiliates (collectively, 11 12 "National Grid") or LIPA came to be employed by PSEG LI. We then describe the 13 terms and conditions of employment of PSEG LI union and non-union employees that 14 govern their compensation and benefits levels in the 2015 base year budgets. In the 15 sections of our testimony addressing union and non-union employment, we will 16 discuss the escalation factors for both union and non-union management, 17 administrative, supervisory and technical ("MAST") employees that are used to 18 develop their compensation and benefits costs in the 2016, 2017 and 2018 Rate Plan years. Finally, we discuss Executive Compensation. 19

Q. What role did the Human Resources ("HR") Department play in the process under which the various budgets were developed?

A. Staffing levels were developed by Transmission and Distribution ("T&D"), Customer
 Service and Business Services groups that were aggregated into the PSEG LI or

1 "Service Provider" budgets. It was the responsibility of the HR Department to 2 provide information on the labor and benefit costs to be applied to the staffing developed by those groups. The costs, with applicable escalation factors, were 3 4 developed and assembled by the HR Department and made available to the personnel 5 working on the budgets. We helped develop those costs for the 2015 base year 6 budget process by providing escalation factors to use for employee compensation and 7 benefits for 2015 and for the 2016 through 2018 budgets. Some assumptions were 8 used when developing the benefit budget which will be discussed later in this 9 testimony. 10 II. PSEG LI'S ASSUMPTION OF THE NATIONAL GRID WORKFORCE 11 When did PSEG LI assume responsibility for running LIPA's electric 12 **Q**. 13 operations? 14 A. Under the OSA, PSEG LI and PSEG LI's subsidiary "ServCo" (referred to 15 interchangeably herein as PSEG LI) agreed to provide the day-to-day management 16 and supervision of the operations of the LIPA T&D system and related services and 17 functions, starting January 1, 2014. 18 Q. Did the OSA affect PSEG LI's staffing of the ServCo operations? 19 A. Yes, it did. The OSA specifically addresses ServCo's hiring of union and MAST 20 employees, as well as the terms and conditions of that employment. 21 0. How does the OSA address the hiring of National Grid's union employees? 22 A. The OSA required PSEG LI to offer employment to National Grid's union employees 23 in order to provide the same level of services that National Grid had been providing 24 to LIPA. The OSA also required PSEG LI to follow the collective bargaining

1		agreements ("CBAs") that were in effect with IBEW Local 1049 and required PSEG
2		LI to abide by the terms and conditions of the CBA until its expiration. In February
3		2014, PSEG LI reached an agreement with the union that extended the contract that
4		would have expired February 13, 2015 through November 12, 2016.
5	Q.	What about National Grid's former MAST employees?
6	A.	Under the OSA, ServCo was also required to offer employment to National Grid's
7		non-union employees "as necessary for ServCo to provide Operations Services under"
8		the OSA.
9 10	Q.	Were the hiring prescriptions in the OSA limited to the hiring of National Grid employees?
11	A.	No. The OSA also stated that PSEG LI could hire additional employees necessary to
12		supplement the transitioned National Grid employees. The number of employees
13		fitting this category was relatively small compared with the transitioned union and
14		MAST employees.
15 16 17	Q.	Did the OSA cover the wages, salaries and terms and conditions of service for the Transitioned Employees that PSEG LI hired to satisfy its ServCo obligations?
18	A.	Yes it did. Under the OSA, offers of employment to National Grid's union
19		employees were made at initial terms and conditions comparable to those set forth in
20		the existing CBA, with recognition given to each union employee's seniority. Union
21		employees were also entitled to the benefits required under the applicable collective
22		bargaining agreements. For example, all pension/401(K) benefits for union
23		employees were continued with the same pricing, vendors, plan designs, and
24		administrative provisions.

1Q.How were offers of employment to National Grid's former MAST employees2handled?

A. Offers of employment to MAST employees were also made at the same terms and conditions as salaries and benefits previously paid by National Grid. For MAST employees, however, we are transitioning them in due course from the former National Grid plan to the PSEG compensation structure. Consequently, as we will explain further below, the wages and benefits of union employees are governed by the existing CBA until its expiration, and we have made assumptions regarding union wage and benefits escalation factors for the remainder of the Rate Plan. For MAST employees, salaries and benefits included in the budgets have also been escalated based on certain assumptions described below.

III. <u>UNION WAGES AND BENEFITS</u>

Q. What does this section of your testimony address?

A. In this section, we will discuss the wages and benefits of the Transitioned Union
 Employees and the escalation of those rates during the Rate Plan years.

Q. What portion of PSEG LI's work force is unionized?

A. Approximately 67% percent of our approximately 2100 employees are members of
IBEW Local 1049. The total wages and benefits for these workers are determined by
collective bargaining.

1	Q.	When does the existing CBA with IBEW Local 1049 expire?
2	A.	As mentioned previously, the CBA will run through November 12, 2016. Until then,
3		the contract remains in full effect and PSEG LI is obligated under the OSA to honor
4		its terms and conditions.
5	Q.	Please describe the wage increases provided for in the CBA.
6	A.	The following wage increases will be granted to each eligible employee who is on the
7		active weekly payroll on the effective date of that increase. Effective February 14,
8		2015, there will be a 2% general wage increase for all regular employees, in addition
9		to a lump sum bonus of \$500 to all IBEW Local 1049 represented employees on the
10		property as of February 1, 2015. Effective February 14, 2016, there will be a 2.25%
11		general wage increase for all regular employees covered by the CBA.
12 13	Q.	You mentioned that the CBA will run through November 12, 2016. Are there requirements in the OSA that relate to the continuation of the CBA?
12 13 14	Q. A.	You mentioned that the CBA will run through November 12, 2016. Are there requirements in the OSA that relate to the continuation of the CBA? The OSA provides that prior to commencing negotiations with the IBEW regarding
12 13 14 15	Q. A.	You mentioned that the CBA will run through November 12, 2016. Are there requirements in the OSA that relate to the continuation of the CBA? The OSA provides that prior to commencing negotiations with the IBEW regarding amendment or extension of the CBA, PSEG LI will advise LIPA of its negotiating
12 13 14 15 16	Q. A.	You mentioned that the CBA will run through November 12, 2016. Are there requirements in the OSA that relate to the continuation of the CBA? The OSA provides that prior to commencing negotiations with the IBEW regarding amendment or extension of the CBA, PSEG LI will advise LIPA of its negotiating objectives and any financial terms to be contained in the CBA, and will keep LIPA
12 13 14 15 16 17	Q. A.	You mentioned that the CBA will run through November 12, 2016. Are there requirements in the OSA that relate to the continuation of the CBA? The OSA provides that prior to commencing negotiations with the IBEW regarding amendment or extension of the CBA, PSEG LI will advise LIPA of its negotiating objectives and any financial terms to be contained in the CBA, and will keep LIPA informed on the status of any negotiations.
12 13 14 15 16 17 18 19	Q. A.	You mentioned that the CBA will run through November 12, 2016. Are there requirements in the OSA that relate to the continuation of the CBA? The OSA provides that prior to commencing negotiations with the IBEW regarding amendment or extension of the CBA, PSEG LI will advise LIPA of its negotiating objectives and any financial terms to be contained in the CBA, and will keep LIPA informed on the status of any negotiations. Because the existing CBA will expire in November 2016, have you escalated the union wage rates during the remaining period in 2016-2018?
12 13 14 15 16 17 18 19 20	Q. A. Q. A.	 You mentioned that the CBA will run through November 12, 2016. Are there requirements in the OSA that relate to the continuation of the CBA? The OSA provides that prior to commencing negotiations with the IBEW regarding amendment or extension of the CBA, PSEG LI will advise LIPA of its negotiating objectives and any financial terms to be contained in the CBA, and will keep LIPA informed on the status of any negotiations. Because the existing CBA will expire in November 2016, have you escalated the union wage rates during the remaining period in 2016-2018? Yes we have. Of course, it is not possible to know exactly how the results of the
12 13 14 15 16 17 18 19 20 21	Q. A. Q. A.	 You mentioned that the CBA will run through November 12, 2016. Are there requirements in the OSA that relate to the continuation of the CBA? The OSA provides that prior to commencing negotiations with the IBEW regarding amendment or extension of the CBA, PSEG LI will advise LIPA of its negotiating objectives and any financial terms to be contained in the CBA, and will keep LIPA informed on the status of any negotiations. Because the existing CBA will expire in November 2016, have you escalated the union wage rates during the remaining period in 2016-2018? Yes we have. Of course, it is not possible to know exactly how the results of the collective bargaining process will turn out. Consequently, we have applied the
12 13 14 15 16 17 18 19 20 21 22	Q. A. Q. A.	You mentioned that the CBA will run through November 12, 2016. Are there requirements in the OSA that relate to the continuation of the CBA? The OSA provides that prior to commencing negotiations with the IBEW regarding amendment or extension of the CBA, PSEG LI will advise LIPA of its negotiating objectives and any financial terms to be contained in the CBA, and will keep LIPA informed on the status of any negotiations. Because the existing CBA will expire in November 2016, have you escalated the union wage rates during the remaining period in 2016-2018? Yes we have. Of course, it is not possible to know exactly how the results of the collective bargaining process will turn out. Consequently, we have applied the forecasted rate of inflation to the collective bargaining wage levels that will be
12 13 14 15 16 17 18 19 20 21 22 23	Q. A. Q.	You mentioned that the CBA will run through November 12, 2016. Are there requirements in the OSA that relate to the continuation of the CBA? The OSA provides that prior to commencing negotiations with the IBEW regarding amendment or extension of the CBA, PSEG LI will advise LIPA of its negotiating objectives and any financial terms to be contained in the CBA, and will keep LIPA informed on the status of any negotiations. Because the existing CBA will expire in November 2016, have you escalated the union wage rates during the remaining period in 2016-2018? Yes we have. Of course, it is not possible to know exactly how the results of the collective bargaining process will turn out. Consequently, we have applied the forecasted rate of inflation to the collective bargaining wage levels that will be effective on November 14, 2016, November 14, 2017 and November 14, 2018.

0. Have you also escalated the cost of unionized employees' benefits over the Rate 1 Plan years at the general rate of inflation? 2 3 No. The cost increases that were used for the administrative fees associated with Α. 4 benefits programs were escalated based on vendor contracts and fee agreements in 5 place. With regard to medical and dental claims, we used a 6.6% increase for medical and a 6.7% increase for dental. The trend we are using is attributed to projections 6 7 based on limited claims data for 2014 and the fact that we are operating with no 8 historical data for these employees. These escalation factors are discussed further 9 below.

IV. 10 MANAGEMENT SALARIES AND BENEFITS

Q. 11 Did you provide the current and projected MAST salaries and benefits to other groups preparing the budgets in a manner similar to that performed for the 12 union employees? 13 14 Yes. In the same way that we provided the wage and benefit effects for unionized A. 15 employees to the T&D, Customer Service, and Business Services organizations for 16 use in preparation of their budgets, we provided information on salaries and benefits 17 for all MAST and other non-union employees, including former National Grid and LIPA employees hired by PSEG LI, to those budgeting teams for the preparation of 18 19 the budgets for the 2015 base year and for 2016, 2017 and 2018.

Q. You previously stated that PSEG LI's MAST employees are being transitioned from the National Grid compensation plans to the PSEG compensation plans. What consideration was given to the levels of salaries and benefits of the MAST employees when they were initially transitioned over to PSEG LI from National Grid?

6 A. As we observed previously, the salaries and benefits paid to MAST employees were 7 the same as were paid by their previous employer National Grid. In this, PSEG LI was guided by the OSA. Offers of employment were made at terms and conditions 8 9 designed to attract and retain the employees necessary to provide the services 10 required by the OSA, considering among other things each Non-Union Employee's 11 years of service, salary or wage level and bonus opportunity to which they were 12 entitled immediately prior to January 1, 2014. Given the OSA requirement that 13 ServCo provide competitive offers that both maximized the continuity of the 14 workforce and considered existing salaries and bonuses, continuing the existing 15 compensation structure of National Grid was the most appropriate way to satisfy that 16 requirement.

17

18

19

20

21

22

Q. How did you determine compensation levels for newly hired employees?

A. For newly hired employees, we examined market data to ensure market competitiveness for the position in question. We also looked at similar positions within PSEG LI. Finally, we looked at inter-company equity within PSEG, to ensure, for example, that PSEG LI newly hired employees' compensation did not unduly differ from that paid to other PSEG employees in comparable roles.

1

2

3

1	Q.	Please describe the compensation philosophy of PSEG LI.
2	A.	PSEG LI's compensation philosophy is to establish competitive compensation
3		opportunities for employees that align with compensation levels provided by other
4		employers for similar roles and responsibilities. The primary objective of this
5		philosophy is to enable the Company to attract and retain the services of a highly
6		qualified workforce. This philosophy is consistent with that of many other utilities.
7 8	Q.	Does the total compensation for PSEG LI's MAST employees include both base salary and a variable pay component?
9	A.	Yes. PSEG LI's compensation philosophy is to measure and set a competitive total
10		cash compensation opportunity (base salary plus variable pay) to levels found at other
11		companies for similar roles and responsibilities. The variable portion of total
12		compensation is considered pay at risk, in that it must be re-earned each year based on
13		meeting pre-determined goals and operating targets.
14 15	Q.	Is this compensation philosophy unusual in its inclusion of a variable pay component as part of total compensation?
16	A.	No. Tying a portion of employees' total compensation to performance is
17		commonplace both in American business generally and for public utilities, as well.
18		The variable pay component of total compensation paid to PSEG LI's management
19		employees is directly linked to specific measurable standards consistent with PSEG
20		LI's goal of providing safe and reliable service to LIPA's customers. These
21		performance goals encompass reliability, safety, customer service performance
22		indicators, operating and capital budgets, and the timely completion of high priority
23		capital and operating projects and programs.

Q. Please briefly describe the major elements of this incentive compensation plan.

A. The 2014 PSEG LI Performance Incentive Plan ("PIP") for MAST employees plan is designed with 60% linked to performance against the PSEG LI Balanced Scorecard,¹ 30% attributed to the PSEG LI business plan operating earnings and 10% to the PSEG-wide strategic goal known as "People Strong." The Balanced Scorecard is based on reliability, safety, operational measures and adherence to budgets, which are the primary metrics applicable to PSEG LI under the OSA. Our People Strong goal is designed to support a diverse and inclusive culture and measures retention, inclusion, diversity supplier spending and employee engagement. Such "customer-centric" metrics are used by many utilities in their incentive plans, as they are designed to reward employees for achieving goals around customer satisfaction, system reliability and availability, and operational excellence and align the interests of our employees and our customers. The 2014 PSEG LI PIP is aligned with the Company's vision and strategic business model and with the terms of the OSA, incorporating reliability, safety, operational, and financial goals.

Q. How do employees achieve incentive compensation under the PIP?

A. A participant's "target" payout is based on his or her Band/Grade, under which a target payout is modified by both the Company's and an individual's performance.
Eligible employees must achieve satisfactory or better performance in order to participate. The size of the target bonus pool is the sum of all awards at "target"

The Balanced Scorecard is presented in the Metrics Panel Testimony.

1		payout, i.e., participants' eligible base salaries, multiplied by their target percentages.
2		Actual pool size will vary from target based on final goal results for the year.
3 4 5	Q.	You mentioned that the PSEG LI PIP is aligned with the Company's vision and strategic business model. Are most of the compensable metrics under the PIP also metrics under the OSA?
6	А.	Yes. Eighteen of the 21 compensable metrics (more than 80%) listed on the 2014
7		PSEG LI Balanced Scorecard are also OSA metrics and are, accordingly, directly
8		related to PSEG LI performance. The remaining three metrics that are not OSA
9		metrics are nonetheless aligned with and support customer benefits: Availability -
10		Illness; Forced Automatic Outage Rate (Transmission); Damage Costs and
11		Environmental Audit and Assessment Remediation Rate.
12 13	Q.	Are such plans typical for utilities, including those regulated by the New York Public Service Commission?
14	A.	Yes, they are. It is our understanding that the Public Service Commission has
15		emphasized that it is not necessary to maintain an artificial distinction between
16		compensation in the form of traditional pay and benefits and compensation that is
17		incentive based, and has recognized that variable compensation and incentive plans are
18		common management tools aimed at encouraging performance improvements.
19 20	Q.	Please explain how you projected management salary expense for the three-year rate period 2016-2018.
21	А.	We began with the MAST salary levels in the calendar year 2014, which were
22		increased by an annual escalation factor of three percent for the years 2015, 2016,
23		2017 and 2018.

Q. What was the basis for your use of the three percent escalation factor?

A. The escalation factor was developed through a review of various compensation surveys of projected merit and total salary increase budgets, as well as a review of past history.

Q. Please describe the method used for escalating employee benefit costs for the Rate Plan years.

A. Given the lack of historical data, based on input from our consulting and vendor
partners, the benefit projections were based on a few key assumptions:

- Medical and Prescription Drug: The 2014 medical and prescription drug costs were projected utilizing actual costs for the first six months of 2014 and estimating the claims for the second six months of 2014. The 2015 projections were based on the actual costs for the first six months of 2014 annualized to a full year and projected at an annual cost increase of 6.6%; increases for 2016 2018 were also projected at an annual cost increase of 6.6%, assuming no changes to employee contributions or plan design.
- Dental: The 2014 dental costs were projected using actual costs for the first six months of 2014 and estimated costs for the second six months of 2014. The 2015 projections were based on the 2015 renewal rate increase of 7% received from the vendor. For 2016, following the expiration of the existing vendor contract and based on the actual six months of claims experience presented, we assumed an increase of 15% based on an existing agreement. Increases for 2017-2018 were projected at an annual cost increase of 6.7%.

1		• Ancillary Benefits: We assumed a 3% increase for benefits administrative
2		services at the expiration of the existing contract, beginning in 2017. For life and
3		disability insurance costs and benefit consulting services, we assumed no
4		increases.
5		• For the thrift saving 401(k) plan, which provides a Company match to
6		management employees for a portion of their plan contributions, we used the
7		labor escalation factor of 3%.
8	Q.	Does the employee benefit expenses projection include any program changes?
9	A.	No. The budgets prepared in this case assume no benefit plan design changes due to
10		the existing CBA.
11 12	Q.	Are escalation rates based on inflation assumptions likely to be accurate for escalation in health care costs?
13	A.	No, they are not. Generally we expect health care cost inflation to outpace general
13 14	A.	No, they are not. Generally we expect health care cost inflation to outpace general inflation by a considerable margin. This is compounded by the fact that, for these
13 14 15	A.	No, they are not. Generally we expect health care cost inflation to outpace general inflation by a considerable margin. This is compounded by the fact that, for these particular employees, we are working with a very immature claim year and do not
13 14 15 16	Α.	No, they are not. Generally we expect health care cost inflation to outpace general inflation by a considerable margin. This is compounded by the fact that, for these particular employees, we are working with a very immature claim year and do not have sufficient historical claim data to determine the utilization or health profile of
13 14 15 16 17	A.	No, they are not. Generally we expect health care cost inflation to outpace general inflation by a considerable margin. This is compounded by the fact that, for these particular employees, we are working with a very immature claim year and do not have sufficient historical claim data to determine the utilization or health profile of our employee population on Long Island. This makes it difficult to project our
13 14 15 16 17 18	Α.	No, they are not. Generally we expect health care cost inflation to outpace general inflation by a considerable margin. This is compounded by the fact that, for these particular employees, we are working with a very immature claim year and do not have sufficient historical claim data to determine the utilization or health profile of our employee population on Long Island. This makes it difficult to project our medical/Rx trend. We are, however, seeing larger increases due to our geographical
13 14 15 16 17 18 19	Α.	No, they are not. Generally we expect health care cost inflation to outpace general inflation by a considerable margin. This is compounded by the fact that, for these particular employees, we are working with a very immature claim year and do not have sufficient historical claim data to determine the utilization or health profile of our employee population on Long Island. This makes it difficult to project our medical/Rx trend. We are, however, seeing larger increases due to our geographical location, and we know that increases in health care costs are being driven by
13 14 15 16 17 18 19 20	Α.	No, they are not. Generally we expect health care cost inflation to outpace general inflation by a considerable margin. This is compounded by the fact that, for these particular employees, we are working with a very immature claim year and do not have sufficient historical claim data to determine the utilization or health profile of our employee population on Long Island. This makes it difficult to project our medical/Rx trend. We are, however, seeing larger increases due to our geographical location, and we know that increases in health care costs are being driven by increased utilization of medical procedures as well as the availability of new medical
13 14 15 16 17 18 19 20 21	A.	No, they are not. Generally we expect health care cost inflation to outpace general inflation by a considerable margin. This is compounded by the fact that, for these particular employees, we are working with a very immature claim year and do not have sufficient historical claim data to determine the utilization or health profile of our employee population on Long Island. This makes it difficult to project our medical/Rx trend. We are, however, seeing larger increases due to our geographical location, and we know that increases in health care costs are being driven by increased utilization of medical procedures as well as the availability of new medical procedures, treatments, and devices. We also know that there are regulatory changes
1		impose a 40% excise tax on our health plans. The projections that we provide do not
----------	----	--
2		factor in this tax or the impact of the AHCA on our benefit program. Unfortunately,
3		the final regulations regarding the calculation of the tax are not even expected to be
4		available until 2017, so any projections we make at this time will be premature.
5		Given the change in healthcare delivery and the regulatory environment, it is difficult
6		to project trends over the next few years. Therefore, in light of the immature claims
7		experience and the political uncertainties discussed above, it is difficult to develop a
8		more accurate estimate of the increase in health care costs at this time. Consequently,
9		we would need to adjust our actual experience when more data is available to us and
10		the political and regulatory uncertainty surrounding the AHCA becomes settled.
11 12	Q.	Does the projection for health care costs include known changes to the health plans as a result of the federal AHCA?
13	A.	Yes, all of the required plan changes under the AHCA that are known to date have
14		been addressed in the budget. The financial impact of the AHCA on the Company's
15		health care costs assumes that there will be no additional plan changes to this
16		legislation during the Rate Plan period. It is important to note that if the excise tax
17		under the AHCA is imposed in 2018, the health care plans as they exist today would
18		be subject to this 40% tax. This is our projection based on the limited direction
19		provided under the regulations to date. Again, final direction will not even be
20		provided until 2017.

V. <u>EXECUTIVE COMPENSATION</u>

2 3	Q.	Previously you have discussed both union and MAST compensation but have not addressed Executive Compensation. Why is that?
4	A.	Under the OSA, the term "Senior Management" means "the senior management level
5		personnel employed by [PSEG LI]." This category comprises PSEG LI's President,
6		Vice Presidents and Directors of the various organizations within PSEG LI and
7		numbers approximately 18 individuals. The cost of Senior Management
8		Compensation under the OSA is included in the fixed, annual Management Services
9		Fee, which does not vary based on compensation paid to this group.

10 Q. Does this conclude the Panel's direct testimony at this time?

11 A. Yes, it does.

JUDGE PHILLIPS: The next panel? 1 2 MR. WEISSMAN: Thank you very much, Your Honors. Remaining direct and rebuttal testimonies that are not going to be cross 3 examination, we will endeavor to provide all the remaining 4 5 affidavits on the record tomorrow. Thank you very much. 6 JUDGE PHILLIPS: Thank you. We are turning to New York 7 City now. Thank you, Your Honors. First I have an 8 MR. GOODMAN: 9 affidavit for City witness John Marczewski. The affidavit 10 describes his Prepared Direct Testimony which consist of 36 11 pages plus title page as well as prepared directed exhibits 12 which include exhibit denominated as JJM-1 consisting of three 13 pages and Exhibit JJM-2 consisting of 731 pages. I will note 14 that although the latter was a single exhibit, it was 15 transmitted to the secretary in three pieces for purposing of 16 fitting within the transmission and upload to the DMM limitations. 17 Shall I move onto the affidavit of Dr. Horton? 18 19 JUDGE PHILLIPS: Yes. 20 MR. GOODMAN: Dr. Horton's affidavit describes his Prepared Pre-filed Direct Testimony which consists of 28 pages plus title 21 22 page as well as prepared direct exhibits denominated as Exhibit 23 RH-1 consisting of two pages, RH-2 consisting of 34 pages, Exhibit RH-3 consisting of 24 pages, Exhibit RH-4 consisting of 24 25 27 pages and Exhibit RH-5 consisting of 108 pages. Your Honor,

1	I will note I have ready today the executed original affidavit
2	for Marczewski. For Dr. Horton, I have a scanned copy of his
3	executed affidavit, and I will provide originals shortly in a
4	subsequent filing (handing).
5	JUDGE PHILLIPS: We have marked for identification the
6	affidavit of John Marczewski as Exhibit 127. On that basis, we
7	ask that his Prepared Direct Testimony consisting of 36 pages be
8	copied into the record as though given orally today. We have
9	also marked for identification the affidavit of Radley Horton,
10	marked as Exhibit 128. On that basis, we ask that his prepared
11	testimony consisting of 34 pages be copied into the record as
12	though given orally correction, I believe that is 28 pages.
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

Before the New York State Public Service Commission

In the Matter of

Long Island Power Authority and

Service Provider, PSEG Long Island LLC

Matter No. 15-00262

May 2015

Prepared Direct Testimony of:

John Marczewski, P.E.

On Behalf of:

The City of New York

1 Q. PLEASE STATE YOUR NAME, OCCUPATION AND BUSINESS ADDRESS.

A. My name is John Marczewski. I am a Principal at Energy Initiatives Group, LLC
("EIG"). My business address is 29 Bartlett Street, Marlborough, Massachusetts 01752.

4 Q. ON WHOSE BEHALF ARE YOU SUBMITTING THIS TESTIMONY?

5 A. I am submitting this direct testimony before the New York State Public Service
6 Commission ("PSC") on behalf of the City of New York ("City").

7 Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND 8 PROFESSIONAL **EXPERIENCE ENERGY** IN THE AND UTILITY 9 **INDUSTRIES.**

A. I hold a Bachelor of Science degree in Electrical Engineering from Worcester
Polytechnic Institute, Massachusetts and a Master of Engineering in Electric Power
Engineering degree from Rensselaer Polytechnic Institute, New York. I am a Registered
Professional Engineer in several states. I am a member of the National Association of
Professional Engineers, and a member of the Institute of Electrical and Electronics
Engineers and its Power Engineering Society.

16 My past work includes assignments in development, engineering/design, 17 construction, and operation of distribution, transmission, and generation projects. My 18 experience also includes distribution and transmission system restoration activities 19 following several major storms including Hurricane Gloria in 1985, through to Hurricane 20 Sandy in 2012. I was Chair of the New York Independent System Operator, Inc.'s 21 Operating Committee from 2009 to 2010, and Chair of the Transmission Planning 22 Advisory Sub-Committee from 2007 to 2008.

2 ENGAGEMENTS.

3 A. Founded in 2000, EIG employs over 35 top industry professionals that provide a 4 comprehensive range of consultative services to traditional utility companies, project 5 developers. regulatory agencies, energy companies, financial organizations. 6 transportation companies, government agencies, and a wide range of entities within the 7 energy industry. EIG specialties include project and program management of large-scale 8 generation, transmission, distribution, and substation projects, support for utilities during 9 storm restoration efforts, and facility recovery.

10 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE PSC?

A. Yes. I provided written testimony and was made available for oral testimony at public
hearings in Cases 13-E-0030, 00-F-0566, and 98-F-1968.

13 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. My testimony will cover three areas pertaining to how the Long Island Power Authority
("LIPA") and its service provider, PSEG-LI, LLC ("PSEG-LI") are addressing storm
hardening and storm response. My testimony focuses primarily on the scope and
adequacy of PSEG-LI's storm hardening plan, and it complements the discussion of
climate projections presented by City witness Dr. Radley Horton.

19 Q. PLEASE SUMMARIZE YOUR TESTIMONY.

A. Although LIPA has been committed to storm hardening since 2006, the average annual
 spend for storm hardening (\$25 million per year) was low and expenditures were not
 tracked properly. Moreover, although there has been a significant surge in spending on
 system hardening post-Hurricane Sandy, that spending is constrained by federal grant

1 limitations to specific elements of the LIPA system that were damaged by Hurricane 2 Sandy. There is a pressing need for a comprehensive storm hardening collaborative that 3 analyzes the system's needs on a holistic level, and I recommend that such a storm 4 hardening collaborative be initiated as soon as this case concludes. The collaborative 5 should utilize the most current climate projections and storm hardening design standards. 6 The collaborative should focus on storm hardening the transmission system, substations, 7 distribution system and transmission interfaces, and I make specific recommendations for 8 each of these system components below.

9 In sum, although LIPA and PSEG-LI clearly are engaged in storm hardening 10 efforts, they need to expand those efforts significantly. The storm hardening program 11 should ensure that hardening and resiliency projects address vulnerable areas of the 12 system that (i) perhaps were lucky enough to escape major damage from Hurricane 13 Sandy, or (ii) were damaged by the storm, but the storm hardening projects needed to 14 repair or replace those assets are ineligible for reimbursement from a federal grant. 15 Although the City primarily is concerned that the electric system on the Rockaway 16 Peninsula is hardened to withstand future weather events, I note that the information and 17 recommendations presented in my testimony apply generally to the entire LIPA service 18 territory.

19 Q.

ARE YOU SPONSORING ANY EXHIBITS WITH YOUR TESTIMONY?

20 A. Yes. I offer Exhibit_[JJM-1], which is my Curriculum Vitae, and Exhibit_[JJM-2], 21 which is a compilation of the discovery responses from LIPA and PSEG-LI that I relied 22 upon in preparing my testimony, some of which I expressly reference.

PSEG-LI/LIPA STORM HARDENING PLANS

2 Q. PLEASE PROVIDE AN OVERVIEW OF THE CURRENT LIPA AND PSEG-LI 3 STORM HARDENING PLAN.

4 A. It is my understanding that PSEG-LI is implementing storm restoration or hardening 5 work that primarily is related to Hurricane Sandy, with anticipated expenditures totaling 6 approximately \$1.4 billion. Based on PSEG-LI's responses to City-22 and City-23, it 7 appears that approximately \$705 million was designated to restore the system following 8 Hurricane Sandy. That work, however, did not incorporate storm hardening design 9 concepts except with respect to transmission line repairs and limited equipment elevation 10 work at two flooded substations. As to the remaining \$730 million, the vast majority of 11 those funds apparently are designated to harden specific assets damaged by Hurricane 12 Sandy. These amounts are directly related to grant monies applied for and received from 13 the Federal Emergency Management Agency ("FEMA"), as well as additional funds 14 awarded by FEMA but not yet received.

The Capital Budget Panel explained that the FEMA grant may be used only to reimburse "very specific elements of the Long Island electric system" that were damaged by Hurricane Sandy. Subject to this significant limitation, the FEMA funds may be used to elevate substation components, harden mainline distribution overhead lines, install up to 1,350 automated switching units ("ASUs"), harden certain distribution lines, and replace a "limited number" of transmission poles.

Importantly, PSEG-LI explained in its response to City-74 that the storm hardening plan is focused exclusively on work that may be reimbursed by the FEMA grant. If PSEG-LI currently is engaged in storm hardening work that does not pertain to

1 the application of federal funds to assets damaged by Hurricane Sandy, its testimony and 2 various discovery responses did not explain clearly the nature and scope of such work. In 3 addition to ongoing work that is eligible for FEMA reimbursement, it appears that the 4 same storm hardening measures implemented under the FEMA grant are applied to the 5 installation of new and replacement equipment. This opportunism enables PSEG-LI to 6 increase the deployment of hardened assets throughout the LIPA system. Although I 7 generally agree with this approach, I am concerned that the constraints imposed by this 8 strategy and the funding criteria of the FEMA grant are preventing the timely 9 implementation of a comprehensive storm hardening program that addresses all elements 10 of LIPA's electric system.

11 Q. HOW HAS THIS FUNDING IMPACTED THE UTILITY'S STORM 12 HARDENING PLAN?

13 LIPA and National Grid (PSEG-LI's predecessor in operating LIPA's system) had plans A. 14 in place since 2006 to address storm hardening at an average annual spend rate of 15 approximately \$25M per year. It appears that PSEG-LI essentially has suspended these 16 previous storm hardening capital programs due to the scope and size of the FEMA-17 funded program. In terms of work budgeted for the 2016, 2017, and 2018 rate years as 18 listed in Exhibit_[CBP-2], PSEG-LI has integrated several projects that appear related 19 to, or would qualify for, use of the FEMA funds since they involve substation facilities 20 damaged by Sandy. However, there does not appear to be any distribution storm 21 hardening projects included in the total budget presented in that exhibit.

22

1

2

Q. WHY HAVE DISTRIBUTION PROJECTS IDENTIFIED FOR FEMA FUNDING BEEN LEFT OUT OF THE 2016, 2017, AND 2018 BUDGETS?

3 It is not entirely clear, but PSEG-LI states that it currently is engaged in a process to A. 4 identify and develop a plan for distribution system hardening projects. PSEG-LI has 5 engaged an engineering and design contractor to inspect targeted circuits for hardening, 6 and will follow this effort with detailed designs to implement the hardening measures. 7 The schedule indicated by PSEG-LI has the system survey and plan identification work 8 completed by the end of 2015. Construction work will occur in 2016 and 2017, with 9 some work expected to stretch into 2018. There also appears to be some substation storm 10 hardening work which may not be part of the current capital budget.

11 Q. DO YOU AGREE THAT THIS TIMELINE IS REASONABLE?

A. The timeline does not seem unreasonable, but I do not understand why the work was notcommenced closer in time to when the storm hardening program commenced in 2006.

14 Q. WHAT AMOUNT OF CAPITAL INVESTMENT WORK WAS EXPENDED AS

15 PART OF THE ORIGINAL 2006 STORM HARDENING PROGRAM?

A. As discussed below, PSEG-LI has stated that annual storm hardening expenditures were
not separately tracked prior to 2013. This makes it difficult to track which facilities have
already been upgraded to standards consistent with current storm hardening practices.
All facilities on the PSEG-LI system should ultimately be assessed to determine
conformance with current storm hardening practices, as the FEMA-driven plans do not
address facilities that were not impacted by Sandy even if those facilities may be
vulnerable to future storms.

Q. DO YOU HAVE OTHER CONCERNS REGARDING THE CURRENT STORM
 HARDENING PLAN?

A. Yes. Initially, as described in response to City-52, LIPA committed in 2006 to a longterm storm hardening initiative. This decision was made well before storm hardening and
resiliency became a focus of New York State utilities and regulators, and the LIPA Board
of Trustees ("Trustees") should be commended for their proactive decision. LIPA and its
service providers subsequently (and appropriately) expanded storm hardening budgets to
maximize the receipt of available federal grant monies. Customers are benefitting from
the increased capital investments enabled by those grants.

10 City-67 and City-68 indicate that the Trustees developed the framework of a 11 comprehensive storm hardening and resiliency program that would address all aspects of 12 the LIPA transmission and distribution ("T&D") system, if implemented fully over a 13 proposed period of twenty years. The program included a suite of measures that would 14 lessen the chance of storm damage, improve the ability of LIPA's system to withstand 15 and recover from storm damage, and would cost almost \$3 billion.

Although the proposed framework was more expansive, City-52 indicates that LIPA ultimately adopted a 20-year storm hardening program with a total budget of \$500 million. I do not have sufficient information to opine on the total expenditures that should be designated for a comprehensive storm hardening program in LIPA's service territory, but an average annual spend of approximately \$25 million seems disproportionately small given the scale of investment needed to have a timely and meaningful impact in a large service territory with significant coastal storm exposure.

Q. PLEASE EXPLAIN.

2 The response to City-90 included the "Update on LIPA's Storm Hardening Initiatives A. 3 2007-2012" that Navigant Consulting presented to the Trustees in December, 2012. This 4 report explains that, in 2006, Navigant compiled over two dozen storm hardening 5 initiatives "for potential application on Long Island." Navigant estimated that it would 6 cost approximately \$3 billion to implement all initiatives at the locations most vulnerable 7 to a Category 3 hurricane. LIPA opted for a \$500 million program, and the information 8 provided to date does not explain why the Trustees determined that a \$25 million average 9 annual budget might be the appropriate annual spending level.

10 Neighboring utilities provide two additional points of reference for the potential 11 scale of utility storm hardening investments. Consolidated Edison Company of New 12 York, Inc. ("Con Edison") plans to spend approximately \$724 million on electric system 13 storm hardening from 2014 through 2016. PSE&G has estimated that it will spend 14 approximately \$1.3 billion on transmission system hardening projects alone, and likely 15 will spend hundreds of millions more (if not \$1 billion) to harden its distribution system. 16 Although spending under the FEMA grant is grossly comparable to the Con Edison and 17 PSE&G expenditures noted earlier, the FEMA work is too restricted and should be 18 expanded.

19 Q. HAS LIPA SPENT MORE THAN \$25 MILLION ANNUALLY SINCE THE 20 STORM HARDENING PROGRAM COMMENCED?

A. I don't know, and apparently neither does LIPA. PSEG-LI explained in response to City52 that details of the storm hardening program "have not been historically well tracked."
In fact, annual storm hardening expenditures were not specifically tracked prior to 2013.

Navigant reported to the Trustees in 2013 that the "storm hardening portions of most
capital projects cannot be readily identified in available documentation." Navigant
explained that the 2007 to 2012 capital expenditure documents do not include details on
storm hardening investments including the scope of storm hardening efforts, the
incremental cost of storm hardening, storm hardening allocations applied to total project
costs, and applicable storm hardening recommendations.

Without hard cost data, Navigant attempted to estimate how much LIPA invested
on storm hardening projects from 2006 through 2012. This analysis used allocation
factors to estimate the percentage of project investment that might correspond to storm
hardening. Based on this analysis, Navigant estimated that LIPA spent an average of
approximately \$41 million annually from 2006 through 2012.

12 Q. DO YOU CONSIDER NAVIGANT'S ANALYSIS TO BE A RELIABLE 13 INDICATOR OF HOW MUCH LIPA INVESTED ON STORM HARDENING 14 PROJECTS BEFORE 2013?

A. No. The use of allocation factors to estimate the amount of storm hardening investment
in a given project makes the analysis highly-dependent on the accuracy of the allocation
factors. It is unclear how Navigant validated the allocation factors that it used, or even if
such validation could be made, given that there is no documentation available to
corroborate or validate the allocations.

It is possible that LIPA's average annual spending on storm hardening projects exceeded \$25 million by some increment. However, even assuming for the sake of discussion that Navigant's estimate is reasonably accurate, and the annual average spend on storm hardening was approximately \$40 million, this level of spending still appears to be small relative to the scope of investment needed to harden the assets that are most vulnerable to a Category 3 hurricane.

3 Q. DO YOU HAVE ANY **OTHER** THE **CONCERNS** REGARDING 4 **DOCUMENTATION OF PAST STORM HARDENING INVESTMENTS?**

5 It is alarming that LIPA and its previous service provider failed to maintain clear records A. 6 of a major capital initiative. The lack of such records makes it difficult to detail the storm 7 hardening and resiliency work completed prior to 2013, or the remaining scope of work 8 that must be completed on LIPA's system. The incomplete records also make it difficult 9 to understand how the work that has been completed fits within the overall framework of 10 the comprehensive storm hardening program that Navigant presented to the Trustees.

11 **Q**.

PLEASE CONTINUE.

12 A. The foregoing concerns are not necessarily intended to criticize past decisions, but to 13 illustrate how those decisions may have impeded progress on hardening LIPA's system 14 against future weather events. For instance, PSEG-LI explained in response to City-72 15 that detailed plans to harden the distribution system on the Rockaway Peninsula are being 16 developed shortly, and were not prepared during the first eight years of the storm 17 hardening program. Because the developing plans are for projects that will be supported 18 by the FEMA grant, the projects presumably will be limited in scope to satisfy the FEMA 19 grant requirements, and will not address the distribution system on a holistic basis.

20 **Q**. DO YOU HAVE ANY OTHER GENERAL CONCERNS REGARDING THE 21 **CURRENT STORM HARDENING PROGRAM?**

22 The program includes routine maintenance work such as vegetation management, hazard A. 23 tree removal, and the replacement of deteriorated poles. These activities are essential to

1

maintaining a reliable system and should be prioritized, but they are matters of routine
system maintenance. LIPA and its service providers, including PSEG-LI, presumably
have been required to engage in these activities to satisfy applicable reliability and other
regulatory standards on a routine and ongoing basis. I agree that these routine
maintenance activities have an ancillary storm hardening and resiliency benefit, but I
disagree that they should be characterized as storm hardening projects.

7

STORM HARDENING AND RESILIENCY

8 Q. DO YOU HAVE SPECIFIC CONCERNS REGARDING THE STORM 9 HARDENING DESIGN STANDARDS AND PRACTICES THAT LIPA AND 10 PSEG-LI ARE RELYING ON?

11 Yes. In the following sections, I discuss storm hardening plans for the transmission A. 12 system, substations, and distribution system, as well as the need to harden the gas and 13 liquid fuel supply systems and the transmission interfaces with Con Edison, Eversource 14 Energy (formerly Northeast Utilities), and other merchant transmission facility owners. 15 The following discussion recommends enhancements and modifications to these areas. 16 Although the City's primary interest lies in the Rockaway Peninsula, most of my 17 recommendations apply generally to the entire LIPA service territory. I also recommend 18 a collaborative process to expand the current storm hardening program.

19

1. <u>STORM HARDENING AND RESILIENCY COLLABORATIVE</u>

STORM HARDENING PROGRAM?

20 Q.

DO YOU HAVE ANY GENERAL COMMENTS REGARDING THE CURRENT

21

A. I explained earlier that the current storm hardening program is focusing a large amount offederal funding on a relatively narrow slice of the storm hardening and resiliency

1 investments that are needed. Those projects are further limited in scope insofar as the 2 grant money may be applied only to assets that were damaged by Hurricane Sandy. I 3 agree that damaged assets should be replaced with hardened upgrades, but the fact that 4 equipment was not damaged by Hurricane Sandy does not mean that it is not vulnerable 5 to damage by a future weather event. For instance, a future storm of comparable (or 6 greater) intensity to Hurricane Sandy could impact a different population of system assets 7 if it advances over Long Island via a different trajectory or at a different rate. A singular 8 focus on hardening assets damaged by the last storm will leave the system vulnerable to 9 potentially-extensive damage from future storms.

10 Q. SHOULD THE CURRENT STORM HARDENING PROGRAM BE EXPANDED 11 TO ADDRESS THIS VULNERABILITY?

12 Yes. The scope of current storm hardening and resiliency work should be expanded to Α. 13 prioritize for hardening all at-risk assets that are not eligible for federal reimbursement. 14 PSEG-LI should extend its system survey to include all of its transmission, substation, 15 and distribution facilities. As additional work is identified beyond projects eligible for 16 FEMA funding, PSEG-LI should integrate this work into its near-term capital budgets so 17 that the entire system can benefit from up-to-date storm hardening practices. Although 18 areas that have already experienced reliability problems present a good place to start 19 storm hardening efforts, they should not be the sole focus of such work.

20 Q. DO YOU HAVE ANY RECOMMENDATIONS REGARDING HOW THE

21 EXPANDED PROGRAM SHOULD BE DEVELOPED?

A. Expanding the storm hardening program will require a substantial effort. The underlyingdesign standards should be reviewed and updated (a point that I discuss later in my

1 testimony). To inform investment priorities, LIPA and PSEG-LI will need to improve 2 their projections of future climate conditions and assess the climate vulnerability of its 3 system based on the best available projections of sea level rise, flood risk, temperature 4 change, and other climate variables. The expansion also should accommodate 5 stakeholder participation and input. Therefore, it is my recommendation that the Trustees 6 commence a collaborative process to develop this expanded program and supporting 7 information.

8 **IS THERE A PRECEDENT FOR SUCH A COLLABORATIVE?** Q.

9 A. Yes. The PSC directed Con Edison to administer a similar process in Case 13-E-0030. 10 That collaborative was interactive and productive, and contributed to an appropriate 11 change in utility practice that integrated resiliency considerations into all system 12 planning, design standards, and construction practices. It also provided the utility with 13 important feedback regarding the scope and pace of storm hardening investments, and 14 provided guidance on the continuing development of Con Edison's storm hardening and 15 resiliency program. The Con Edison collaborative provides a model for the collaborative 16 stakeholder process that LIPA should initiate.

17

Q. WHEN SHOULD THE TRUSTEES INITIATE THE COLLABORATIVE?

18 The collaborative should commence as soon as possible. The Trustees should begin A. 19 contacting stakeholders that may be interested in joining the LIPA storm hardening 20 collaborative and otherwise begin setting the stage for that initiative. There is not 21 sufficient time in the instant phase of this proceeding to accommodate a parallel 22 collaborative process that likely will include the development and evaluation of various 23 studies and analyses, but the collaborative could begin to meet when all post-hearing

briefs have been filed, and the parties' substantive work in this proceeding is complete.
 The collaborative should proceed in a deliberate but expeditious manner.

3 Q. WHY IS IT NECESSARY FOR THE COLLABORATIVE TO START 4 DEVELOPING A COMPREHENSIVE STORM HARDENING PLAN AT THE 5 EARLIEST POSSIBLE DATE?

6 Utilities should plan their systems to address current and future needs. Most utility assets A. 7 are long-lived, meaning that they will remain in service for many decades. The assets 8 also can be very expensive, making it undesirable to replace them before they reach the 9 end of their useful lives. Accordingly, when designing new infrastructure, renovations 10 and repairs, although utility system planners should take into consideration the immediate 11 and direct needs for infrastructure, they should also consider future needs such as load 12 growth, resiliency, the nature of the area in which the infrastructure will be installed, and 13 other salient details. With respect to resiliency, such planning should address current 14 climate projections and not merely react to the storm that already hit. City witness Dr. 15 Radley Horton discusses the climate variables that should be addressed in such planning.

16 On a daily basis, the utility is assessing infrastructure needs and designing and 17 constructing the projects that will address those needs. Delaying the implementation of a 18 truly comprehensive storm hardening program means that costly and long-lived assets 19 may be installed that do not reflect appropriate storm hardening design standards and 20 concepts. Although such hardening and resiliency benefits potentially may be achieved 21 via projects to retrofit those assets, it is preferable and more cost-effective for capital 22 projects to reflect storm hardening design concepts and standards in the first instance.

Q. DO YOU HAVE ANY FURTHER RECOMMENDATIONS REGARDING THE 2 **PROPOSED COLLABORATIVE?**

3 A. One key feature of the storm hardening program is the concept that it is designed to 4 address potential future weather conditions. The design criteria and standards embedded 5 in the program necessarily must reflect future climate conditions that may be different 6 from current conditions. My testimony and the testimony of City witness Dr. Horton 7 explain that certain storm hardening design standards, climate projections and climate-8 related metrics adopted by PSEG-LI need to be updated. Importantly, those inputs need 9 to be reviewed and updated periodically, as new information is developed and climate 10 models are improved.

11 HOW DID THE COLLABORATIVE IN CASE 13-E-0030 ADDRESS THESE **Q**. 12 **NEEDS?**

13 A. The PSC directed Con Edison to undertake a climate vulnerability study as part of the 14 collaborative. This study is intended to provide a long-range basis for the ongoing 15 review of storm hardening design standards. As proposed recently by Con Edison, the 16 climate change vulnerability study will address how each of the following impacts of 17 climate change will impact its facilities: temperature and humidity; temperature 18 variability and load; precipitation; extreme events; and sea level rise and coastal storm 19 surge flooding.

20 **O**. DO YOU RECOMMEND THAT LIPA RETAIN A CONSULTANT TO 21 PERFORM A SIMILAR STUDY AS PART OF THE AUTHORITY'S STORM 22 HARDENING AND RESILIENCY COLLABORATIVE?

A. Yes. The specific scope of the study should be developed as part of the collaborative
 process, but the climate vulnerability study that the PSC directed Con Edison to complete
 provides a useful model for the study that LIPA should complete, and update
 periodically.

5 Q.

6

EXPANDED STORM HARDENING PROGRAM?

DO YOU HAVE ANY FURTHER RECOMMENDATIONS REGARDING THE

- A. LIPA and PSEG-LI should begin soliciting the external contractor and other resources
 that will be needed to implement the expanded storm hardening program. This effort
 should begin sufficiently in advance of when the expanded program commences that the
 ramp-up in external resources may coincide with the ramp-up in storm hardening work.
- 11

2. <u>STORM HARDENING – TRANSMISSION SYSTEM</u>

12 Q. HOW ARE STORM HARDENING DESIGN CONCEPTS INCORPORATED 13 INTO TRANSMISSION SYSTEM PROJECTS?

A. PSEG-LI explained in response to City-9 that all new transmission lines are designed to withstand Category 3 hurricane force winds of 130 miles per hour. Poles installed in flood zones are buried a foot deeper than normal, and steel poles with concrete bases are utilized along rights-of-way and Long Island Rail Road lines. When poles are replaced, PSEG-LI installs a pole that is two class sizes larger than the replaced asset.

19 Q. ARE THESE MEASURES ADEQUATE AND APPROPRIATE?

A. These measures address and enhance the ability of the physical transmission line and its
 structures to withstand higher wind loads than what may have been used as the original
 design criteria when the lines were first constructed. However, to be effective, ultimately
 the entire transmission line segment should be designed to these standards so that no

weak links exist along the line's route. Also, structural design loads should be calculated
 to include the effects of storm-related situations, such as broken conductors or shield
 wires, and their impacts on structure loads.

4 Q. WHAT OTHER DESIGN STANDARDS AND CRITERIA SHOULD BE 5 REFLECTED IN TRANSMISSION SYSTEM PROJECTS?

6 In addition to the physical strengthening of structures, the impacts of other storm-related A. 7 conditions should also be assessed. This can include ensuring proper electrical 8 clearances for conductor blowout with the higher wind speeds, mitigation of conductor 9 motion such as galloping which may occur under certain conditions, protection from 10 failures of adjacent structures or impacts of objects along the right of way, and in areas 11 where storm surge flooding may occur, protection from the impacts of floating objects 12 which may include boats and other large or heavy floating debris that may be carried by 13 the floodwaters. Also, given the critical nature of some transmission lines which may be 14 on multiple circuit structures, PSEG-LI should evaluate separating lines onto their own 15 structures to mitigate the possibility of multiple circuit outages arising from the failure of 16 a single structure.

17 Q. DO YOU HAVE ANY OTHER CONCERNS REGARDING TRANSMISSION 18 SYSTEM STORM HARDENING?

A. Yes. PSEG-LI explained in response to City-34 that its current storm hardening program
does not address the 69 kV transmission system that serves the Rockaway Peninsula. In
its response to City-73, PSEG-LI clarified that current hardening efforts "are being
considered only for new facilities or for the expansion of existing facilities." PSEG-LI
did not explain why it is not now attempting to harden existing transmission assets. I

4 Q. WHAT RISKS ARE ASSOCIATED WITH FAILING TO HARDEN THE 5 TRANSMISSION SYSTEM?

- A. The Rockaway Peninsula was devastated by Hurricane Sandy. Although I appreciate the
 need to capture all federal funds that may be directed toward storm hardening projects, I
 already have explained why limiting the storm hardening program to assets damaged by
 Hurricane Sandy as required by the FEMA grant leaves many portions of LIPA's
 electric system vulnerable to weather-related outages.
- 11 It is a question of when, not if, a storm that equals or exceeds Hurricane Sandy 12 impacts the LIPA service territory again. Even a storm of lesser intensity could have an 13 equal or greater impact if, by chance, a combination of storm trajectory and other 14 variables concentrate the storm surge, wind and rain on sections of the electric system 15 that have not been hardened because (by random chance) they were not damaged 16 previously by Hurricane Sandy. The risks associated with failing to harden the 17 transmission system were illustrated by Hurricane Sandy, which caused approximately 18 1.2 million customer outages with an average restoration time of approximately 14 days.
- 19

3. <u>STORM HARDENING – SUBSTATIONS</u>

20 Q. HOW ARE STORM HARDENING DESIGN CONCEPTS INCORPORATED

21 INTO SUBSTATION PROJECTS?

A. PSEG-LI explained in response to City-9 that it will avoid locating new substations in
flood zones "or design appropriate control measures such as raised equipment." New

substations will be designed to withstand Category 3 hurricane force winds of 130 miles
per hour. Pursuant to the constraints of the FEMA grant, PSEG-LI also is elevating
substation equipment that was damaged during Hurricane Sandy. The extent to which
PSEG-LI is hardening existing substation equipment that was not damaged by the storm
is unclear.

6 Q. WHICH ROCKAWAY SUBSTATIONS HAS PSEG-LI IDENTIFIED FOR 7 STORM HARDENING WORK, INCLUDING WORK ALREADY COMPLETED 8 AS PART OF POST-SANDY RESTORATION EFFORTS?

9 A. The substations on the Rockaway Peninsula that are involved in FEMA-funded storm
10 hardening work are Far Rockaway, Arverne, and Rockaway Beach. Hurricane Sandy
11 also damaged the Neponsit substation, but that facility was retired from service instead of
12 being repaired because its load could be served from the remaining substations. Storm
13 hardening projects at those substations primarily involve the installation of new
14 switchgear and control enclosures at higher elevations above anticipated flood levels.

15 Q. ARE THESE MEASURES AND PROJECTS ADEQUATE?

16 A. It is unclear.

17 Q. PLEASE EXPLAIN.

A. PSEG-LI has provided inconsistent statements regarding plans to harden the substations
that serve the Rockaway Peninsula. In response to City-34, PSEG-LI explained that it
has no plans to harden those substations. In response to City-74, however, PSEG-LI
made a vague reference to flood protection measures that will be installed at those
locations. City-26 and City-89 specify that certain switchgear and/or control enclosures
will be elevated at the Rockaway substations. It thus appears that hardening work at

substations is proceeding to the extent that it is eligible for FEMA reimbursement. Based
on the information provided, however, this work apparently is only part of the hardening
measures that should be evaluated and implemented.

4 **O**.

PLEASE CONTINUE.

A. All critical substation equipment, generally, and energized equipment, specifically,
should be elevated to a height that reflects a certain margin of error to protect against
water levels greater than what actually has been experienced. This "freeboard" is the
marginal height of wall or elevation provided above the design flood level and is intended
to accomplish design objectives while allowing for uncertainty in a water surface profile.
A uniform freeboard standard should be adopted and applied to all flood wall and
equipment elevation projects.

12 City-67 explains that substation hardening could include projects that raise the 13 foundations of numerous equipment classes (including, but not limited to, switchgear, 14 circuit breakers, and control enclosures); secure equipment and structures; rebuild with a 15 flood-resistant design; and develop or modify standards for substations located in low 16 lying areas. I agree that these measures should be considered for implementation at all 17 substations on a site-specific basis. Most of these measures, however, apparently are 18 outside the scope of the FEMA grant. Consequently, most of these measures also appear 19 to be outside the scope of the current storm hardening program. The storm hardening and 20 resiliency collaborative should develop recommendations as to the measures that should 21 be installed at each substation based on flood risk and other pertinent factors.

22 Q. DO YOU HAVE ANY SPECIFIC CONCERNS REGARDING THE STANDARDS 23 THAT PSEG-LI HAS APPLIED TO ELEVATING SUBSTATION EQUIPMENT?

1 A. Yes, I have three concerns.

2

Q. WHAT IS YOUR FIRST CONCERN?

A. Critical equipment should be elevated to a height that is based on uniform standards and
the best data available. I understand from City witness Dr. Horton that the FEMA Best
Available Flood Data (6/13/13) are the best data available with respect to flood risk.
PSEG-LI is relying on those maps for some, but not all, substation elevation projects.
PSEG-LI should rely only on the latest flood maps, which will change over time. The
company also should re-evaluate elevation projects based on the older maps to determine
whether incremental increases in substation equipment are needed.

10 Q. DO YOU HAVE A RELATED CONCERN REGARDING THE FLOOD MAPS 11 USED TO DESIGN SUBSTATION PROJECTS?

A. Based on information from PSEG-LI, substations in the Rockaway Peninsula which
suffered storm damage during Sandy will be hardened using the latest FEMA flood data
with one exception, Arverne. This substation was rebuilt before the latest FEMA data
was available, and instead was hardened to an elevation based on Sandy flood levels.
Now that the FEMA data has been updated and is available, Arverne should be
considered for additional hardening work if the new FEMA flood levels exceed those of
Hurricane Sandy, which appears to be the case.

19

Q. WHAT IS YOUR SECOND CONCERN?

A. Substation work will include elevating equipment and installing flood control walls. It
 does not appear, however, that relevant storm hardening projects reflect a uniform
 freeboard value, and the design standards underlying the elevation projects do not
 explicitly account for future sea level rise. Although each substation is different and may

2

include features that warrant a larger or smaller freeboard, the projects generally should reflect a consistent and uniform standard that also accounts for future sea level rise.

3 Q. PLEASE EXPLAIN HOW THE STORM HARDENING PROJECTS REFLECT 4 AN INCONSISTENT FREEBOARD STANDARD.

A. As explained in City-26, the FEMA maps applicable to the Arverne Substation indicate a
10 foot design water level. One set of switchgear at the substation was raised to an
elevation of 10.9 feet (that is, reflecting a freeboard value of 0.9 feet), and a second set of
switchgear was elevated to 12.75 feet (that is, reflecting a freeboard value of 2.75 feet).
PSEG-LI does not explain how it selected the design safety margin, or why it selected
disparate margins for comparable equipment at the same substation.

11 At the Barrett and Fair Harbor Substations, PSEG-LI adopted freeboard values of 12 7.35 feet and 0.6 feet, respectively. A similar inconsistency was noted for elevation 13 projects at the Woodmere Substation, although a single freeboard value of 3.5 feet was 14 applied to three separate elevation projects at the Far Rockaway Substation.

15 These differences in freeboard values may reflect a physical constraint or other 16 compelling circumstance that warrants deviating from a freeboard standard. Barring such 17 physical constraint or compelling circumstance, however, the design safety margin 18 should be uniform for all equipment elevation projects and flood control walls.

19 Q. DO YOU HAVE A RECOMMENDATION REGARDING THE FREEBOARD

20

THAT SHOULD BE REFLECTED AT EACH SUBSTATION?

A. In Case 13-E-0030, the City advocated that Con Edison should adopt a uniform freeboard
value of three feet above the design default value (*i.e.*, "FEMA+3"). Con Edison

ultimately adopted, and is applying, this standard as a uniform component of relevant storm hardening projects.

FEMA also has issued guidance and requirements regarding equipment elevation standards. The Federal Flood Risk Management Standard ("FFRMS") is based on Executive Order 11988 and provides that a "climate-informed science approach" to mitigating flood risk is preferred. Alternative approaches include using freeboard, the 500-year flood elevation, or a combination of approaches.

8 The City agrees that a climate-informed science approach to system planning and 9 design is ideal. The City continues to believe that FEMA+3 is an appropriate standard, 10 but acknowledges that it does not explicitly account for future sea level rise. The storm 11 hardening collaborative that I recommend should examine the issue to determine what 12 freeboard or other elevation standard accounts for an adequate amount of sea level rise, 13 includes a design safety margin, and satisfies all applicable design standards and funding 14 requirements.

15 Q. WHAT IS YOUR THIRD CONCERN REGARDING THE EQUIPMENT 16 ELEVATION PROJECTS?

A. Ideally, all critical substation equipment would be protected against inundation by flood
waters via elevation, and not flood control walls. Critical substation equipment generally
includes, at a minimum, any asset that is energized. It appears from the information
provided by PSEG-LI that the elevation projects at each substation address a subset of the
equipment that should be elevated as a storm hardening measure. As noted above, such
equipment includes, but is not limited to, switchgear and control enclosures.

1

It is not clear whether all critical equipment has been or will be elevated at each
 substation. If this work has been completed or is planned, then PSEG-LI should clarify
 the scope of work. If this work has not been completed and/or is not planned, then
 PSEG-LI should expeditiously complete this essential component of substation storm
 hardening.

6 Q. ARE THERE OTHER CONSIDERATIONS THAT SHOULD BE INCLUDED IN 7 HARDENING SUBSTATION EQUIPMENT AGAINST STORMS OR OTHER 8 WEATHER RELATED EVENTS?

9 A. It is important that all critical equipment be included in the scope of storm hardening 10 projects at substation facilities. In particular, control houses (which may include "control 11 enclosures" in PSEG-LI's nomenclature) should be built so that their floor level is above 12 the design flood level with sufficient freeboard and an additional margin to account for 13 sea level rise, as discussed above. They should also be designed to withstand the wind 14 loads caused by 130 MPH winds consistent with the PSEG-LI standard for substations 15 and transmission lines. Further, given that new control equipment for substations is 16 microprocessor-based and contains sensitive electronics, wind resilience should also 17 extend to watertight construction so that wind driven rain does not enter the control 18 house. Finally, sufficiently-sized cooling and HVAC equipment, suitably designed for 19 protection from the stated storm conditions, should be included and also take into account 20 future trends for warmer summer ambient temperatures. I would suspect that all control 21 houses/enclosures in storm hardened substations will be designed to these general 22 criteria, but information provided in this proceeding is not sufficient to determine if these 23 measures are being applied in all cases.

Q. WHY DO YOU BELIEVE THAT EQUIPMENT ELEVATION IS THE PREFERRED SOLUTION TO FLOOD CONTROL WALLS?

3 The best method of ensuring that no equipment is overcome by floodwaters is to elevate A. 4 it above the highest projected flood elevation. This method will work 100 percent of the 5 time, provided that the floodwaters stay below the design level. Barrier walls, even when 6 well designed, are only as good as their weakest link. Water will use any path available 7 to enter the walled-in area. When this occurs, the entire barrier wall system is rendered 8 ineffective. This is a significant concern. Flood water, especially under hydrostatic 9 pressure, can find its way through conduit and duct systems, storm drains, and even 10 through porous fill and flood the walled-in area from below. These areas may have been 11 sealed off when the wall system was first installed. However, unless these seals are 12 inspected, tested, and maintained over time, the risk that water will penetrate a walled-in 13 area increases as the system ages. Therefore, for critical facilities, it is recommended that 14 equipment elevation be the primary method used for storm hardening.

15 Q. HOW DOES THE AVAILABILITY OF NEIGHBORING SUBSTATIONS 16 AFFECT SERVICE TO THE ROCKAWAY PENINSULA?

A. The electric supply to the Rockaway Peninsula includes 69 kV transmission and 33 kV
subtransmission circuits. These circuits are ultimately sourced from facilities located off
of the peninsula. In light of this configuration, outages at these neighboring substations
and on connecting transmission and subtransmission lines could potentially affect electric
supply to the Rockaway Peninsula.

Q. IS PSEG-LI IMPLEMENTING, OR PLANNING TO IMPLEMENT, ANY STORM HARDENING PROJECTS AT THOSE NEIGHBORING SUBSTATIONS?

A. One of these substations (Woodmere) is adjacent to a tidal waterway and would be
vulnerable to coastal flooding. PSEG-LI has indicated that it plans to install new
switchgear and raise the control enclosure at the Woodmere substation to mitigate this
risk. Other key substations are inland and located along a corridor owned by the Long
Island Rail Road. They do not appear to be in locations that are susceptible to coastal
flooding.

10 Q. DO YOU HAVE ANY FURTHER RECOMMENDATIONS REGARDING 11 STORM HARDENING PROJECTS THAT ENSURE RELIABLE ELECTRIC 12 SERVICE TO SUBSTATIONS ON THE ROCKAWAY PENINSULA?

13 A. The Rockaway Peninsula lies at the southwestern limit of the PSEG-LI system. It 14 consequently has limited options for redundant and geographically diverse transmission 15 or subtransmission supply connections. For this reason, it is essential that LIPA and 16 PSEG-LI ensure that the existing transmission supply to the Rockaway Peninsula is 17 hardened to the extent practicable. This initiative should include a focus on locations 18 where both 69 kV lines supplying the area share a common pole or structure. Those 19 locations should be eliminated to the extent practicable so that a single failure cannot 20 compromise two transmission lines. Overall, this effort should reduce the risk that a 21 single contingency or equipment failure is able to cause a long-term outage for tens of 22 thousands of customers.

1	PSEG-LI, however, currently does not have plans to address vulnerabilities
2	associated with transmission service to the Rockaway substations. This may represent a
3	prime example of critical storm hardening work that is not being implemented because it
4	is not eligible for reimbursement by the FEMA grant.

5 Q. IS THE WIND SPEED DESIGN CRITERIA OF 130 MILES PER HOUR 6 ADEQUATE TO HARDEN SUBSTATION EQUIPMENT AGAINST FUTURE 7 WEATHER EVENTS?

8 A. The criteria seems reasonable based on historical events, but historical weather patterns 9 are not necessarily reliable predictors of future weather in a changing climate. This issue 10 is addressed further by City witness Dr. Horton.

11 Q. ARE THERE OTHER RESILIENCY MEASURES THAT SHOULD BE 12 INCLUDED IN PSEG-LI'S STORM HARDENING PLAN?

A. Probably. The difficulty in answering this question, however, is that PSEG-LI and LIPA
apparently are not implementing a comprehensive plan to harden the Authority's electric
system against future climate events and other vulnerabilities. I noted earlier that storm
hardening investments were not specifically tracked prior to 2013. This makes it difficult
to understand what has been done and, therefore, presents a challenge in evaluating what
storm hardening work remains to be done.

That said, there are numerous measures and standards that could be included in a
 comprehensive storm hardening program. My testimony identifies a handful of such
 options that should be deployed as part of a comprehensive program. The collaborative
 should explore additional measures and alternatives.

4. STORM HARDENING – DISTRIBUTION SYSTEM

2 Q. HOW DOES THE STORM HARDENING PROGRAM ADDRESS THE 3 DISTRIBUTION SYSTEM?

A. PSEG-LI explained in response to City-35 that it does not have a comprehensive storm
hardening plan for the distribution system, and that the evaluation process to develop
such plan is only just beginning.

7 Q. IS PSEG-LI OR LIPA TAKING ANY ACTION TO HARDEN THE 8 DISTRIBUTION SYSTEM AGAINST FUTURE CLIMATE EVENTS?

9 A. Yes. As noted above, the federal grants are supporting a limited scope of distribution
10 hardening projects. It also appears that PSEG-LI is applying the design standards from
11 those projects to the new installation or replacement of certain distribution assets that
12 were not damaged by Hurricane Sandy.

More specifically, PSEG-LI explained in its response to City-4 that distribution
 system hardening projects include a narrow profile construction for certain distribution
 poles, and selecting more robust poles that are buried one foot deeper than normal.
 PSEG-LI also is installing ASUs on distribution circuits damaged by Hurricane Sandy.

17 The City agrees that these measures will improve the resiliency of the distribution 18 system to an extent that is commensurate with the deployment of those assets. The 19 narrow profile construction and upgraded poles will enhance the ability of distribution 20 poles to withstand significant weather events. ASUs will reduce the number of customers 21 that lose service when there is a fault on the upgraded circuit. System resiliency will 22 improve gradually as these assets replace older equipment, although the resiliency benefit 23 will be limited by the rate at which new poles and ASUs are installed, and the extent to which they saturate potential installation sites. This is another limitation of a program
 that seemingly is focused on replacing assets damaged by Hurricane Sandy rather than a
 holistic approach to system resiliency.

4 Q. IS PSEG-LI PROPOSING OTHER MEASURES TO HARDEN THE 5 DISTRIBUTION SYSTEM?

6 PSEG-LI has also proposed replacement of energized high voltage feeder A. Yes. 7 conductors on its open wire pole lines with 336 kCmil covered aluminum conductor for 8 mainlines and to replace open wire secondary cables (which are operated at lower 9 voltages and connect to individual customer services) with insulated triplexed cable 10 (three low voltage conductors wound together in one assembly). Eliminating open wire 11 secondary construction will harden the system at or near the customer level. Replacing 12 smaller-sized mainline high voltage feeder conductors will also yield an improvement in 13 resiliency (particularly if existing conductors are older copper conductors which may 14 have reduced breaking strength due to age or heating), and the use of covered conductor, 15 even if only partially insulated, will also help guard against outages from incidental tree 16 branch contacts.

17 Q. ARE THERE ADDITIONAL DESIGN STANDARDS THAT PSEG-LI SHOULD 18 INCORPORATE IN ITS STORM HARDENING PROGRAM?

- 19 A. Yes.
- 20 Q. PLEASE EXPLAIN.

A. Neither the rate filing nor discovery responses indicate that the storm hardening program
 includes certain resiliency measures frequently used by other utilities. For instance,
 spacer cable, aerial cable, and insulated tree wire often are used to harden distribution

systems against weather-related outages. PSEG-LI explained that it soon will begin developing a distribution storm hardening plan for the Rockaway Peninsula. That process should evaluate where these assets may be deployed to improve distribution system resiliency. The collaborative also should examine this issue.

5 Q. WHY SHOULD SPACER CABLE BE INCLUDED IN THE STORM 6 HARDENING PROGRAM?

7 A. PSEG-LI should evaluate the benefits and cost of replacing open-wire conductor and 8 covered conductor on lower-profile cross-arms with overhead spacer cable. This cable 9 consists of non-shielded, non-tensioned, insulated conductors, supported in a close 10 triangular configuration by insulating spacers from a high strength messenger/neutral 11 wire. Overhead spacer cable can resist most outages because its energized conductors are 12 partially insulated and, therefore, less likely to have a short circuit when in contact with 13 trees. The high strength messenger wire which supports the spacer cable system can 14 protect the energized conductors it supports from fallen tree limbs, and can isolate and 15 protect energized conductors from mechanical loads that otherwise might lead to 16 breakage. It also can remain energized even after its supports are severely damaged, or in 17 some cases if it gets entangled with other equipment. For this reason it frequently is 18 installed in areas that are heavily treed, or require close clearances. The long-term 19 benefits provided by these operational characteristics have led many small municipal 20 electric utilities to select overhead spacer cable on an almost universal basis, 21 notwithstanding that it is more costly than an open bare wire configuration.

22 Q. WHY SHOULD AERIAL CABLE BE INCLUDED IN THE STORM23 HARDENING PROGRAM?

1

2

3

1 A. Aerial cable is best-suited for express mainline runs that terminate in other types of 2 primary construction. Aerial cables are fully-insulated power cables that are essentially 3 the same types of cables that are used for underground installations. However, instead of 4 being installed in an underground conduit system, the cables are lashed to a messenger 5 wire and suspended from poles. Mid-line connections cannot be easily made to these 6 cables because they are fully-insulated. However, they do provide an alternative type of 7 construction that has a very narrow profile and can resist outages due to tree limb 8 contacts, and can be used to create storm-resilient sections of mainline feeders. City-68 9 also identifies aerial cable as an option to harden roadside transmission lines at 33 kV and

below in heavily treed areas. LIPA clearly has considered this measure, although neither
 LIPA nor PSEG-LI has explained whether aerial cable will be deployed, or if not, why
 not.

13 Aerial cable does have certain drawbacks, however. As mentioned above, it is 14 most suitable for express runs where loads are not tapped off along its route. A typical 15 distribution feeder has many customer load taps along its route. It is relatively easy with 16 typical work practices involving work on energized lines to make new connections to 17 feeders with this type of construction without de-energizing the entire section of the line 18 to add customers or make other changes. This is advantageous for many reasons, 19 including that it allows disruptive customer outages to be avoided. Since aerial cable is 20 fully insulated as compared to open wire construction, covered conductor, or spacer cable 21 construction, tapped connections on aerial cable cannot be made without removing the 22 insulation system in the area of the connection and installing cable to air terminations. 23 This activity requires an outage of the cable for the duration of the work. However, if the
feeder being considered for hardening is an express run – that is, it has no load
connections between the start and end of the cable section – aerial cable may be a good
choice due to its resilience and compact profile.

4 Q. WHY SHOULD INSULATED TREE WIRE BE INCLUDED IN THE STORM 5 HARDENING PROGRAM?

6 Partially-insulated conductors covered with insulating material designed to be resilient A. 7 against tree branch contact and related physical wear can be useful in overhead 8 distribution line applications, especially for single phase or two phase taps. These 9 sections of overhead lines are not part of a feeder's mainline (which will be three phase), 10 but can still serve significant load areas and would benefit from protection against tree-11 related outages that can occur in areas where bare conductors are used. PSEG-LI should 12 identify areas that are susceptible to tree-related outages and evaluate the benefit and cost 13 of installing tree wire at those sites. In performing this evaluation, special consideration 14 should be given to installing tree wire where it will protect against outages on lines that 15 supply power to critical services such as public service radio transmission and repeater 16 equipment, cellular telephone towers, and water supply, medical, and first responder 17 facilities.

18 5. <u>STORM HARDENING – TRANSMISSION INTERFACES</u>

19 Q. ARE THERE OTHER AREA SUPPLY ISSUES THAT SHOULD BE INCLUDED

- 20 IN A COMPREHENSIVE STORM HARDENING PROGRAM?
- 21 A. Yes.
- 22 Q. PLEASE EXPLAIN.

1 A. Regional experiences with Hurricane Sandy highlighted the need to harden transmission 2 system tie lines and their related remote-end connections from other utilities or control 3 areas. Such tie lines enable the exchange of economic energy under normal operations 4 and provide a means of emergency assistance should other resources on the LIPA system 5 become unavailable. These ties are especially critical to the LIPA system given the geography of Long Island and its relatively isolated power system, and the interfaces can 6 7 supply a significant portion of LIPA's load. In a storm situation, local generation can 8 become unavailable due to damage or isolation from the grid due to line or substation 9 outages. As resources available to serve remaining load become fewer and fewer, tie 10 lines to other areas can provide needed optionality to a system operator in emergency 11 conditions where unusual system configurations can occur. If a storm event is somewhat 12 localized, these external ties can offer support from a remote power system that may have 13 been minimally impacted by the storm. Because optionality is critical when operating a 14 power system under unusual conditions, tie lines to external areas should be part of a 15 storm hardening program's evaluation to insure that they can be available if needed. This 16 point was acknowledged in the "Storm Hardening Talking Points" presented at the 17 January 2012 Trustees meeting and attached to City-90. The Talking Points state that 18 "[i]mproved interconnections result in additional flexibility" that increases "the durability" 19 and resilience of the system."

Con Edison's experience during Hurricane Sandy illustrates this concern. Con
Edison has several phase angle regulator controlled ties to the PSE&G system in New
Jersey, including two submarine cables that connect to the PSE&G Hudson substation
from Con Edison's Farragut substation in Brooklyn. These cables were not directly

impacted by Hurricane Sandy's storm surge because they are underground and
submarine. The storm, however, inundated the Hudson substation and rendered these ties
unusable for emergency support. As other generating resources on the Con Edison
system became unavailable due to storm damage, and as other tie lines became
unavailable for importing power into the area to serve remaining load, it became more
difficult for system operators to retain system reliability with remaining resources.

7 Q. WHY IS THIS EXAMPLE RELEVANT FOR THE LIPA/PSEG-LI STORM 8 HARDENING PLAN?

9 A. The LIPA system is connected to adjacent utilities and control territories via numerous 10 This includes the Neptune Regional Transmission System, which was knocked ties. 11 offline at its remote end in New Jersey during Hurricane Sandy. LIPA also is connected 12 to other systems via the Cross Sound Cable, the Northport-Norwalk cable, and the 345 13 kV cables to the Sprain Brook and Dunwoodie substations owned by Con Edison in 14 Westchester County. Of these facilities, Neptune, Cross Sound Cable, and the Northport-15 Norwalk cable terminate in substation facilities located very close to bodies of water 16 subject to storm surge flooding. LIPA also is connected to the Con Edison system via 17 two phase angle regulator-controlled tie points at the Valley Stream and Lake Success 18 substations.

Impairment of these interfaces may not have been a substantial factor in the LIPA service outages caused by Hurricane Sandy, but they are vulnerable points on the system that also need to be hardened against future climate events. PSEG-LI's storm hardening program should address the assets that LIPA owns on its side of the transmission interfaces. The Trustees and PSEG-LI also should discuss with the owners of the assets

on the other side of those interfaces the need to improve the resiliency of same. This
 matter also should be examined by the collaborative.

3

6. <u>STORM HARDENING – NATURAL GAS SUPPLY</u>

4 Q. ARE THERE OTHER SYSTEMS WHICH SUPPORT OPERATION OF THE 5 ELECTRIC TRANSMISSION SYSTEM WHICH SHOULD BE INCLUDED IN A 6 STORM HARDENING ASSESSMENT?

7 A. Yes. Many generating plants on Long Island are fueled by natural gas and rely on 8 supplies from the regional gas transmission system. An outage or curtailment of natural 9 gas supplies on these pipelines could have an adverse impact on electric system 10 reliability. Even though some plants have the capability to burn oil as an alternate fuel 11 Hurricane Sandy demonstrated that the fuel oil supply chain can be interrupted for 12 extended periods of time. This increases the importance of maintaining a reliable natural 13 gas supply, and the utility's ability to sustain the fuel oil supply chain during and 14 following a storm event should be considered as part of overall storm hardening 15 evaluations.

16 Q. WHAT KINDS OF NATURAL GAS FACILITIES SHOULD BE CONSIDERED 17 FOR STORM HARDENING?

A. Any pipeline-related facility that could be subject to storm surge flooding should be
evaluated and protected from that potential flooding. This may include compressor
stations which are critical to maintaining sufficient pressures for operation of natural gas
fueled plants.

22 Q.

ARE THESE FACILITIES TYPICALLY UNDER LIPA'S CONTROL?

1 No, they are typically owned and operated by pipeline companies. However, given that A. 2 pipeline outages might adversely impact the electric system, close coordination between 3 these pipelines and electric system operations have been recognized as critical to electric 4 system security, and efforts are underway by entities such as NYISO to better coordinate 5 operations. This coordination should be extended to storm hardening evaluations so that 6 natural gas facilities that are critical to the electric system are identified. If those 7 facilities are vulnerable to storm damage, they should be hardened to withstand those 8 events.

9 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

10 A. Yes.

Before the New York State Public Service Commission

In the Matter of

Long Island Power Authority and

Service Provider, PSEG-LI Long Island LLC

Matter No. 15-00262

May 2015

Prepared Direct Testimony of:

Radley Horton, Ph.D.

On Behalf of:

The City of New York

Q. PLEASE STATE YOUR NAME AND OCCUPATION.

A. My name is Radley Horton. I am an Associate Research Scientist employed by the
Center for Climate Systems Research ("Climate Research Center") at Columbia
University.

5 Q. ON WHOSE BEHALF ARE YOU SUBMITTING THIS TESTIMONY?

A. I am submitting this direct testimony before the New York State Public Service
Commission ("PSC") on behalf of the City of New York ("City"). I am appearing in this
proceeding as an independent consultant to the City, and not in my capacity as an
Associate Research Scientist for the Climate Research Center.

10Q.PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND11PROFESSIONAL EXPERIENCE.

- 12 A. I hold a Ph.D. and an M.S. from Columbia University in Earth and Environmental Sciences. I have contributed in various capacities to leading studies on climate change, 13 and authored or co-authored numerous articles on climate change projections and impact 14 15 assessments. I also have authored articles addressing the implications for climate change adaptation and planning efforts, including articles on coastal adaptation for infrastructure, 16 sea level rise projection methods, climate hazard assessments in New York City and 17 Long Island, and resilient adaptation planning. My professional background is presented 18 in detail in my Curriculum Vitae, which is attached as Exhibit_[RH-1]. 19
- 1)

21

20

Q. PLEASE SUMMARIZE YOUR EXPERIENCE IN THE AREA OF PROJECTING CLIMATE CHANGE.

A. In 2008, New York City convened the New York City Panel on Climate Change
("NPCC"). I was the Climate Science Lead for two iterations of the NPCC Technical

1 Working Group. Our work included the production of multiple reports that provided 2 climate projections for New York City and identified some of the potential risks to 3 infrastructure posed by climate change.

In 2011, New York State issued ClimAID, a statewide Climate Impact Assessment. In 2014, the climate projections were updated to reflect results from a new generation of global climate models, as well as recent observed data. The ClimAID report divided New York State into seven regions, one of which covered New York City and Long Island, and assessed climate impacts in eight sectors, including energy. I led the development of climate projections for the 2011 ClimAID and the 2014 ClimAID update.

I also am one of two Convening Lead Authors for the Northeast Chapter of the 11 12 third National Climate Assessment ("NCA"), which was released in May 2014. The NCA is a status report about climate change science and impacts that is delivered to the 13 President of the United States, Congress, and the public approximately every four years. 14 15 The NCA integrates information from across a variety of federal climate research initiatives to present a comprehensive picture of the effects of global climate change on 16 17 many sectors of society. It also analyzes trends in global climate change and predicts future changes over a one hundred year period. 18

19 Q. HAVE YOU EVER DONE CLIMATE ANALYSIS FOR A UTILITY?

A. Through my university position, I am the Principal Investigator on a Columbia University
 project with Consolidated Edison Company of New York, Inc. ("Con Edison"). The
 project includes analysis of historical climate data and development of climate
 projections.

Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE PSC?

- A. Yes. I provided written testimony and was made available for oral testimony at public
 hearings in Cases 13-E-0030, 13-G-0031, 13-S-0032, 14-E-0318, 14-G-0139, 14-E-0493,
 and 14-G-0494.
- 5

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

6 Climate change poses a variety of hazards to utility infrastructure, including assets A. 7 located in the service territory of the Long Island Power Authority ("LIPA"). As the twenty-first century progresses, extreme heat events are projected to become more 8 frequent and intense, and sea level rise is projected to cause increased coastal flooding. It 9 also is likely that intense precipitation events will become more frequent. In light of 10 these projected changes, utility infrastructure is likely to be faced with a different range 11 12 of environmental conditions than it has experienced in the past. Utility investments in new and existing infrastructure should anticipate and address these changes by reflecting 13 design standards that are based on the best-available data regarding future climate 14 15 change.

My testimony (i) discusses the current climate projections for Long Island, (ii) evaluates the climate projections that LIPA and PSEG-LI Long Island LLC ("PSEG-LI-LI") have relied on when designing storm hardening projects, and (iii) recommends changes in the climate data that LIPA and PSEG-LI are relying on. The climate projections discussed in my testimony complement the discussion of how climate projections should be reflected in storm hardening and resiliency projects that is presented by City witness John Marczewski.

23

1	Q.	ARE YOU SPONSORING ANY EXHIBITS WITH YOUR TESTIMONY?							
2	A.	Yes. I offer five exhibits, as follows:							
3		• Exhibit_[RH-1] – Curriculum Vitae;							
4		• Exhibit_[RH-2] – Excerpt from ClimAID 2011;							
5		• Exhibit_[RH-3] – Excerpt from ClimAID 2014;							
6		• Exhibit_[RH-4] – Excerpt from 2015 NPCC Report;							
7		• Exhibit_[RH-5] – Compilation of PSEG-LI/LIPA responses to City discovery							
8		requests.							
9		MODELING CLIMATE CHANGE							
10		A. THE SCIENTIFIC FOUNDATION OF CLIMATE PROJECTIONS							
11	Q.	WHAT ARE GLOBAL CLIMATE MODELS?							
12	A.	Global climate models are mathematical representations of the physical processes that							
13		govern the Earth's climate. They are comprised of hundreds to thousands of pages of							
14		computer code that are compiled by supercomputers for a variety of applications.							
15		Climate models are the best tools available for projecting the future state of the climate,							
16		and they have been embraced by a number of scientific bodies including the							
17		Intergovernmental Panel on Climate Change (IPCC). (The IPCC is the leading							
18		international scientific body charged with assessing climate change science, impacts, and							
19		potential solutions.) Computer models are standard research tools that are used in a							
20		variety of contexts to understand and predict the dynamics of complex systems, including							
21		regional or global climate. Model projections of future climate have improved over time							
22		as scientific understanding and computing power have advanced.							
23	Q.	CAN YOU TEST THE RELIABILITY OF MODEL OUTPUTS?							

1 Yes. Climate models have been validated, or back-tested, using climates of the past. a. 2 Models are back-tested by inputting prior conditions such as historic greenhouse gas concentrations, changes in incoming solar radiation, or the impact of volcanic eruptions. 3 4 Model outputs are then evaluated to determine whether the predicted results match the 5 observed conditions. It has been demonstrated in this manner that climate models are able to reproduce the general climate responses that actually occurred. These responses 6 7 go far beyond surface air temperature, and include everything from temperature gradients in the upper atmosphere to the seasonal progression of monsoons. By looking at all of 8 these outputs, we can develop a variety of theories. The modeling results point to a 9 dominant influence of greenhouse gas increases on the climate, and indicate that the 10 climate projections produced by the models are useful. 11

12 Q. ARE CLIMATE MODELS OUR ONLY TOOLS FOR PROJECTING FUTURE 13 CLIMATE?

A. No. Some physical processes – such as melting at the edge of an ice sheet and other
events that occur at fine spatial scales– exceed the capability of even the most powerful
climate models. In those instances, we rely primarily on observed data and expert
knowledge as a basis for climate projections. In general it is the combination of climate
model results, observed data, and expert knowledge based on physical understanding that
yield climate risk-based approaches to decision-making.

20 Q. WHAT DO YOU MEAN BY CLIMATE RISK-BASED APPROACHES FOR 21 DECISION-MAKING?

A. Risk-based approaches present a range of possible outcomes to inform decision-making.
They are based on the principle that although the future is uncertain, there is enough

1 information available to inform decision-making, especially relative to the alternate approach of assuming that what was experienced in the past will continue without 2 Several scientific and professional bodies including the National Research 3 change. 4 Council ("NRC") have embraced risk-based approaches of the type described below that 5 were developed for Long Island. The future climate cannot be known with precision for a variety of reasons including uncertainty about exactly how much greenhouse gases 6 7 society will emit and exactly how sensitive the climate system will be to those emissions. However, climate science has advanced to the point where we can say with high 8 9 confidence that decisions involving important and expensive long-lived assets, such as PSEG-LI's storm-hardening program, should reflect a range of possible future climate 10 outcomes and not rely solely on the static historical climate data. 11

12 Q. DO THE MODELS PROVIDE CLIMATE PROJECTIONS SPECIFIC TO LONG 13 ISLAND?

A. Models make climate projections in gridboxes with a spatial resolution of roughly 150
miles by 100 miles. A single gridbox will often cover both New York City and Long
Island. In general, neighboring gridboxes over land show very similar projections.

17 Q. ARE CLIMATE PROJECTIONS FOR A REGION THAT INCLUDES LONG 18 ISLAND AND NEW YORK CITY RELEVANT TO THE LIPA SERVICE 19 TERRITORY?

A. Yes. In general, the described changes projected for the New York City and Long Island
region pertain to time-average conditions such as temperature, precipitation and sea level
that are applicable throughout the entire New York City and western Long Island region,
which I will refer to here simply as the "Region." Because both the NPCC projections

and the ClimAID update cover the Region and feature nearly identical projections for most variables, I will refer to them collectively as the "Climate Reports." To the extent that my testimony addresses changes that vary significantly over spatial scales that are larger or smaller than the Region, the distinction is noted and I specify the relevant spatial location and climate report I am referring to.

6 Q. DID THE NPCC AND CLIMAID REPORTS CONCLUDE THAT CLIMATE IS 7 CHANGING IN NEW YORK STATE?

8 A. Yes. Both the NPCC and ClimAID reports concluded that the climate is changing in
9 New York State. I agree with those conclusions.

Q. IN LIGHT OF THE PROJECTED CHANGES IN CLIMATE THAT WILL
 IMPACT LONG ISLAND, IS UTILITY INFRASTRUCTURE LIKELY TO BE
 FACED WITH A DIFFERENT RANGE OF ENVIRONMENTAL CONDITIONS
 THAN IT HAS EXPERIENCED IN THE PAST?

Yes. By the time we reach the 2020s, and to an even greater extent as we move into the 14 A. 15 second half of the century, the climate will be statistically different than it has been in the 16 past. There will continue to be natural variability, such that some years will display 17 climate very similar to that seen in the past thirty years. However, there is also likely to be variability in the other direction such that we will increasingly experience 18 unprecedented high temperatures, more extreme coastal and inland flooding, and shifts in 19 20 average climate conditions. Infrastructure that we build today and will be operating for 21 decades will have to function in these changed (and changing) conditions. This requires that electric system planning consider, and prepare for, the possible range of future 22 23 environments.

1

B. AMBIENT TEMPERATURE INCREASE

2 Q. HAVE YOU STUDIED THE POTENTIAL FOR AMBIENT TEMPERATURES IN 3 THE REGION TO INCREASE DUE TO CLIMATE CHANGE?

4 A. Yes. In 2010, the NPCC presented climate projections (including temperature increases) 5 for the Region, examined how climate change and increased temperature would impact critical infrastructure, and proposed strategies for adapting to projected climate changes. 6 7 In 2010, the NPCC Report published the projected increases in temperature for the Region. In 2011, we published a report called "Response to Climate Change in New 8 York State," also known as ClimAID, in which we prepared temperature projections for 9 all of New York State. Excerpts from the ClimAID 2011 Report and the NPCC Report, 10 which was updated in 2014, are provided as Exhibit_[RH-2] and Exhibit_[RH-4], 11 12 respectively. In 2014, the ClimAID projections also were updated. The 2014 ClimAID update is provided as Exhibit_[RH-3]. 13

Q. BASED ON THE UPDATED NPCC AND CLIMAID STUDIES, WHAT IS THE PROJECTED INCREASE IN TEMPERATURE FOR LONG ISLAND FOR THE REST OF THIS CENTURY?

A. Using the average annual temperature from 1971-2000 as a baseline, temperature increases in the Region are projected to range from 1.5° to 3.2°F by the 2020s, 3.1° to 6.6°F by the 2050s, and 3.8° to 10.3°F by the 2080s. A substantial temperature increase is projected to occur even under a low emissions scenario.

In Long Island, the NPCC and ClimAID reports observed past trends and then modeled future temperature rise. For example, temperature increased by an average of about 0.3°F per decade since 1900. The projected future temperature changes indicate

1 that by the 2080s, western Long Island's mean temperature throughout a "typical" year 2 may bear similarities to a city like Raleigh, North Carolina, or Norfolk, Virginia, today. Because variability is larger in winter than in summer, the summer changes may produce 3 relatively larger deviations than the winter changes — at both daily and seasonal scales 4 — as compared to what has been experienced historically during individual years. Put 5 another way, the climate change 'signal' in summer is projected to emerge relatively 6 7 quickly from the background 'noise' of climate variability, since the 'noise' is less pronounced in the summer than it is in the winter. This is true both for individual days 8 9 and for seasons.

10Q.THE MODELS PROJECT A RANGE OF TEMPERATURE INCREASES. HOW11DO YOU USE A RANGE OF POSSIBLE OUTCOMES TO DETERMINE THE12TEMPERATURE INCREASE THAT SHOULD BE SELECTED AS A DESIGN13STANDARD FOR STORM HARDENING AND RESILIENCY PROJECTS?

This is a risk management question, so my area of expertise, climate science, can only 14 A. 15 provide a partial answer. Design standards are based on the probability of a particular 16 climate outcome as well as the consequences associated with that outcome. Climate science 17 tells us that the probabilities of occurrence of many climate hazards (or outcomes) including heat events, coastal flooding, and intense precipitation are projected to increase. The 18 potential impacts on utility infrastructure associated with those risks also would be expected 19 20 to increase, unless design standards are modified to mitigate those increasing risks. For 21 assets that are critical and/or have a longer useful life, it may be prudent to adopt a more 22 stringent standard. Mr. Marczewski addresses how to deal with projected climate change in 23 his testimony.

LIKELY TO EXPERIENCE EXTREME HEAT EVENTS IN THE FUTURE?

A. Yes. Long Island is projected to experience more individual days of extreme heat, as well
as an increase in the frequency and duration of heat waves, which are defined as three
consecutive days with maximum temperatures at or above 90°F.

Between 1971 and 2000, New York City's Central Park saw an average of 18 6 7 days per year with temperatures at or above 90°F, 0.4 days per year at or over 100°F, and two heat waves per year. The 2014 ClimAID report projected that the number of days at 8 or above 90°F is projected to increase to 24 to 33 days by the 2020s, 32 to 57 days by the 9 2050s, and 38 to 87 days by the 2080s. The number of heat waves also is projected to 10 jump from two per year (as observed during the 1971-2000 period) to 5 to 9 per year by 11 12 the 2080s. Although the baseline number of days at or above 90°F differs throughout the Region due to factors including coastal breezes, the general pattern of a large percentage 13 increase over time in the number of days at or above 90°F is projected to apply for the 14 15 entire Region.

16

17

Q.

FOR THE REGION?

A. Yes. Other studies including, but not limited to, the 2014 NCA projects future ambient
 temperatures for the Northeastern U.S. including Long Island that are comparable to the
 changes projected by CliMAID 2014. Further, the 2014 NCA reports that annual average
 temperature in the Northeast Region (which includes Long Island) already has increased
 by approximately 2°F since 1900.

HAVE OTHER STUDIES ALSO PREDICTED INCREASED TEMPERATURE

1	Q.	DOES	PSEG-LI	CONSIDER	PROJECTED	TEMPERATURE	INCREASES	
2		WHEN DESIGNING STORM HARDENING PROJECTS?						

A. As detailed later in my testimony, the PSEG-LI Capital Budget Panel explained that the
company relies on a temperature/humidity metric for certain storm hardening projects.
The metric, however, relies on climate data from a historic thirty-year period without any
reference to climate projections.

Q. GIVEN THE PROJECTED TEMPERATURE INCREASES, DOES IT MAKE 8 SENSE TO BASE A RISK MANAGEMENT PLAN FOR TEMPERATURE ON A 9 THIRTY-YEAR AVERAGE OF HISTORIC TEMPERATURE DATA?

10 A. From my perspective as a climate scientist, no. By the time we reach the 2020s, we would expect higher temperatures and more frequent heat events than were observed in 11 12 the past thirty-year period. There will still be years with fewer hot days than average, as natural variability in the climate will continue. However, from a risk management 13 perspective, the projections will have shifted sufficiently that it would be unwise to use 14 15 the past 30 years as a precedent and basis for future conditions. The climate 'dice' are effectively being 'loaded' gradually towards favoring higher temperatures at the expense 16 17 of lower ones.

18

C.

SEA LEVEL RISE AND COASTAL FLOODING

19 Q. HAVE YOU STUDIED THE RATE OF SEA LEVEL RISE IN THE COASTAL

20

NEW YORK REGION?

A. Yes. I have been involved in several studies that examined the rate of sea level rise in the
 coastal New York region. Our findings have been included in various papers, including
 the 2011 and 2014 ClimAID studies for coastal New York State including Long Island,

and the NPCC Report for the New York City metro area. Because the rates of sea level
 rise are projected to be virtually identical for New York City and Long Island, the results
 for the two studies can be used interchangeably.

4 Q. BASED ON YOUR RESEARCH AND EXPERIENCE, WHAT IS THE 5 PROJECTED SEA LEVEL RISE IN THE COASTAL NEW YORK REGION 6 BETWEEN 2013 AND 2100?

A. In developing the 2014 ClimAID report, we projected sea level rise in the Long Island
coastal region of 2 to 10 inches by the 2020s, 8 to 30 inches by the 2050s, and 13 to 58
inches by the 2080s. Other studies project that a worst-case scenario could result in a sea
level rise of up to six feet by 2100. This is an approximate upper bound, but it is a
potential outcome and hence may be a relevant consideration for the location, design and
construction of the most critical, long–lived utility assets that may be impacted by
flooding associated with this change in sea level.

Other recent studies examining sea level rise in the Northeast region looked at sea level rise as it will increase over time as well as the relative rate of increase in the Northeast as compared to other regions. The results of those studies are consistent with what I described above.

18 Q. HOW WILL SEA LEVEL RISE IMPACT FUTURE FLOOD EVENTS?

A. Higher sea levels increase the frequency and intensity of coastal flooding (including the
area that is inundated and the depth of the floodwater) during coastal storms. Higher sea
levels also can increase rainfall-induced flooding by making it more difficult for
rainwater in low-lying areas and estuaries to drain into the sea.

1Q.ARE THERE ANY STUDIES ON THE EFFECTS OF SEA LEVEL RISE ON2COASTAL FLOODING IN THE LONG ISLAND REGION?

A. The 2010 NPCC Report and 2014 update and 2011 and 2014 ClimAID reports discuss
the effects of sea level rise on coastal flooding in the Region. According to the ClimAID
2011 report, "[s]ea level rise will lead to more frequent and extensive coastal flooding.
Warming ocean waters raise sea levels through thermal expansion and have the potential
to strengthen the most powerful storms....Sea level rise in combination with a coastal
storm that currently occurs about once every 100 years on average is expected to place a
growing population and more property at risk from flood and storm damage."

10

Q. WHAT IS A 1-IN-100 YEAR FLOOD?

11 A. A 1-in-100 year flood is a flood height that has a one percent chance of being exceeded 12 in a year. Most definitions of the 1-in-100 year flood have historically not considered 13 how sea level rise or changes in storms over time could modify this hazard; rather, they 14 have treated the hazard probability as constant through time.

Q. WHY IS THE 1-IN-100 YEAR FLOOD RELEVANT TO DESIGNING UTILITY INFRASTRUCTURE PROJECTS THAT ARE LESS VULNERABLE TO CLIMATE CHANGES?

A. The 1-in-100 year flood is used for a variety of planning and regulatory applications. For
example, it is a frequently used metric for zoning and insurance. If the historically
defined height thresholds for the 1-in-100 year elevation continue to be used without
modifications that reflect sea level rise projections, however, then the ability of those
standards to protect against severe flood events will be reduced, potentially significantly,
as the sea level rises.

Q. WILL CLIMATE CHANGE IMPACT THE FUTURE FREQUENCY OF 1-IN-100 YEAR FLOODS?

A. The NPCC projects that the current likelihood of a hundred-year coastal flood will
increase. By the 2020s, the probability of these events is projected to increase from the
current probability of 1.0% per year, to 1.1% to 1.7% per year. By the 2050s, this
probability is projected to increase to between 1.4% to 5.0%. By the 2080s, the
probability of a hundred-year flood occurring in any given year is projected to increase to
2.0% to 18.5%. Importantly, these projections are based solely on average sea level rise,
without consideration of how storms themselves may change.

10 **Q.**

WHAT IS A 1-IN-500 YEAR FLOOD?

A. A 1-in-500 year flood is a flood height that has a 0.2 percent chance of being exceeded in
a year. Most definitions of the 1-in-500 year flood have historically not considered how
sea level rise or changes in storms over time could modify this hazard; rather, they have
treated the hazard probability as constant through time.

15 Q. DO THE 2013 FEMA FLOOD MAPS FOR NEW YORK STATE INCORPORATE

16 **FUTURE PROJECTIONS OF SEA LEVEL?**

A. No. Consequently, although LIPA and PSEG-LI should be using the most current flood maps as a design reference for relevant projects, those maps reflect only current exposure to coastal flooding. An additional safety margin would have to be reflected in a project design to account for changes in sea level rise that are projected to occur during the asset's useful life. It should also be noted that the 2013 flood map updates are based on an updated set of historical storms and models as compared to the earlier FEMA maps. It is important that design standards be adopted with an understanding that the rising sea level may increase the frequency with which a particular flood – such as the 1-in-100
 year or 1-in 500 year flood – occurs, even if current flood maps do not reflect such
 changes in future climate conditions.

4

D. EXTREME WEATHER EVENTS

5 Q. HAS THE CONNECTION BETWEEN CLIMATE CHANGE AND SEVERE 6 WEATHER EVENTS BEEN STUDIED?

A. Numerous studies have explored the connection between climate change and severe
weather events, most notably in the Intergovernmental Panel on Climate Change
("IPCC") Special Report on Extreme Events. The Special Report concluded that "[a]
changing climate leads to changes in the frequency, intensity, spatial extent, duration, and
timing of extreme weather and climate events, and can result in unprecedented extreme
weather and climate events." The 2011 ClimAID and 2010 NPCC reports also discuss
this connection.

14 Q. HAVE YOU STUDIED THE EFFECT OF CLIMATE CHANGE ON EXTREME 15 WEATHER EVENTS SUCH AS HURRICANES, HEAVY PRECIPITATION 16 EVENTS, SNOWSTORMS, AND FLOODS?

A. Yes. These effects are discussed in the ClimAID (for New York State) and NPCC (for
New York City) reports.

WHAT IS THE PROJECTED EFFECT OF CLIMATE CHANGE ON EXTREME

19 **Q**.

20 **WEATHER EVENTS?**

A. Climate change is projected to result in an increase in the frequency, intensity and
duration of heat waves, as discussed above. Since warmer air holds more moisture,
precipitation tends to be concentrated in more extreme events. Thus, the frequency and

severity of heavy precipitation and flooding events is projected to increase. The frequency of the most intense hurricanes in the North Atlantic Ocean will more likely than not increase as well. As the century progresses, snowfall frequency and total amount are likely to decrease as more precipitation will fall in the form of rain. However, if the air is cold enough, the snowstorms that do occur could be more intense. It is unclear how the frequency and intensity of ice storms may change in the future, but it is important to note that they pose significant hazards in the current climate.

8 Q. SHOULD UTILITY INFRASTRUCTURE BE DESIGNED OR MODIFIED TO 9 WITHSTAND HEAT WAVES?

10 A. I previously explained the reasonable expectation that LIPA's service territory will 11 experience heat waves of greater frequency, intensity and duration. All things being 12 equal, electric system assets that are vulnerable to heat waves and increased ambient 13 temperatures would need to be modified to withstand those more frequent, intense and 14 longer duration events.

Q. SHOULD UTILITY INFRASTRUCTURE BE DESIGNED OR MODIFIED TO WITHSTAND FUTURE ICING EVENTS?

A. My understanding is that electric systems currently are vulnerable to outages caused by
ice loading. For this reason alone, it makes sense to design or modify those systems to
continue operating under icing conditions. Although it is difficult to model future icing
events with certainty, they will continue to occur under future climate conditions.
Therefore, utility infrastructure should be designed or modified to withstand future icing
events.

1Q.HOW WILL CLIMATE CHANGE IMPACT THE FREQUENCY AND2INTENSITY OF FUTURE TROPICAL WEATHER EVENTS?

A. As mentioned earlier, the balance of evidence suggests that it is more likely than not that 3 4 the strongest hurricanes in the North Atlantic may become more frequent. We can 5 project with high confidence that sea level rise will increase coastal flooding whenever 6 tropical storms interact with land. This means that coastal flooding will be more frequent 7 and more severe in the future, even if the relative intensity of future storms does not change. That is, if two storms of equal intensity were to impact Long Island today and in 8 9 2040, the future storm would induce greater coastal flooding as compared to the 2015 storm due solely to increased sea level. 10

11 Q. WAS THIS PHENOMENON A FACTOR IN HURRICANE SANDY?

A. Yes. It has been estimated that, if Hurricane Sandy had struck a century earlier when sea
level in the Region was about one foot lower, flooding would have impacted seventy
square kilometers less land, and 80,000 fewer people in New York and New Jersey.

15 Q. WHAT OTHER EFFECTS WILL CLIMATE CHANGE HAVE ON TROPICAL 16 STORMS?

A. There is compelling evidence that precipitation in the strongest tropical storms may become more intense. The coincident impacts of sea level rise and precipitation of greater intensity in a coastal storm could result in flooding that is more severe than otherwise would be expected from the operation of either factor alone.

21 Q. BASED ON YOUR FAMILIARITY WITH CURRENT CLIMATE 22 PROJECTIONS, IS HURRICANE SANDY AN APPROPRIATE BENCHMARK

FOR UTILITIES TO RELY ON AS A BASIS FOR STORM HARDENING DESIGN STANDARDS?

3 A. Hurricane Sandy was a unique storm. Although its wind speeds at landfall were 4 consistent with a weak Category 1 hurricane, its storm surge – which is very location 5 dependent – was consistent with a Category 3 hurricane. Category 3 hurricanes impact Long Island relatively infrequently; the last such storm may have been the Great 6 7 Hurricane of 1938. Climate models currently do not have the resolution needed to estimate the probability that a hurricane of Category 4 or higher will strike Long Island, 8 9 although the risk is thought to be low even in a warming climate. For now, therefore, it is reasonable for utilities to design infrastructure to withstand the impacts of a Category 3 10 hurricane, subject to one significant caveat. 11

12

Q. WHAT IS THE CAVEAT?

A. As I noted earlier, climate change will increase the severity of coastal flooding even if
there is no change in storm intensity over time. For this reason, it is not adequate simply
to design utility infrastructure to withstand another Hurricane Sandy. Infrastructure
should be designed to withstand the impacts of future, not historic, weather events.

It also would be inadequate to focus exclusively on assets and locations that were damaged by Hurricane Sandy. Those impacts were the specific result of the storm's trajectory and other factors. Certain areas impacted by Hurricane Sandy were not at high tide, or may not have experienced the most severe flooding possible for the area based on storm trajectory and other factors. That is, the distribution of infrastructure damage during Hurricane Sandy depended on the confluence of many variables, and it could have been very different if key variables – including storm trajectory – had been different. While Sandy's storm surge was extreme, storms with stronger winds and more precipitation can be expected to impact the Region in the future, and they may have comparable (or worse) storm surges. Alternate sequences of weather are also possible. For example, had a tropical cyclone of Hurricane Sandy's approximate strength struck two months earlier, which is within the time period that tropical cyclone strikes in the region are most likely to occur, the Region would have been more likely to contend with a heat wave, rather than a Nor'easter, during the week following the storm.

8

Q. WHAT DO YOU RECOMMEND?

9 A. From the perspective of a climate scientist, it makes sense for storm hardening projects to
10 be done on a system-wide basis and reflect a safety margin that is designed to account for
11 the cumulative impacts of sea level rise and coastal storm flood risks, including from a
12 Category 3 hurricane, as reflected in the 2013 FEMA map updates. These safety margins
13 should be based on the best available climate projections, flood maps, and other current
14 data – including LIDAR – and should be reviewed and updated regularly.

15 Q. ARE THERE ANY STUDIES THAT PROVIDE ESTIMATES OF FUTURE WIND 16 EVENTS?

A. There is comparatively less confidence in projections of extreme winds, in part because of the relative infrequency of extreme wind events. The computer simulation of these events is being refined, but the modeling results are not yet as reliable as for other aspects of climate change. However, the NPCC determined that there is some basis to conclude that the strongest hurricanes could become more frequent and intense in the North Atlantic Ocean basin, and therefore the strongest wind events in the North Atlantic Ocean basin may also increase.

Q. CAN YOU RECOMMEND SPECIFIC SAFETY MARGINS THAT LIPA AND PSEG-LI SHOULD ADOPT AS A BASIS FOR STORM HARDENING PROJECTS?

4 A. Specific safety margins are a project engineering matter that is outside my area of 5 expertise and the scope of this testimony. However, LIPA and PSEG-LI should adopt my 6 recommendations, and rely on the climate-based information identified in my testimony, 7 when considering the specific safety margins that are appropriate for their infrastructure investments. For example, the sea level rise projection ranges described in my testimony 8 9 can inform LIPA/PSEG-LI decision-making about appropriate safety margins and risk 10 management. For longer-lived and/or critical assets, it may be prudent for the utility to base design standards on the higher part of the projection estimates as a conservative 11 12 planning measure.

Q. ARE THERE SPECIFIC RESOURCES THAT YOU WOULD RECOMMEND LIPA AND PSEG-LI CONSULT WHEN DESIGNING STORM HARDENING PROJECTS?

- A. For global and national context, the IPCC Assessment Reports, including the 2012
 Special Report of Emissions Scenarios, and the USGCRP Third National Climate
 Assessment are recommended. For state and local information, the ClimAID Reports and
 the NPCC Reports provide more detailed predictions.
- 20

LIPA/PSEG-LI CLIMATE ASSUMPTIONS AND METRICS

Q. DOES PSEG-LI RELY ON ANY CLIMATE-RELATED METRICS TO INFORM DECISIONS REGARDING STORM HARDENING PROJECTS?

A. Yes. PSEG-LI indicated in response to City-60 that it uses "several" such metrics,
including temperature/humidity.

Q.

1

HOW IS THAT METRIC DEVELOPED?

A. The temperature/humidity metric is developed via a weather normalization process that
relies on thirty years of historic climate data. The weather normalization process includes
the development of a regression model that considers actual weather conditions from up
to 360 data points observed during the June through September period for up to three
prior summer periods.

7 Q. PLEASE CONTINUE.

8 A. PSEG-LI explained that the regression model will include data points from a single 9 summer if the weather during that period was "sufficiently hot." The company explained in response to City-86 that the phrase "sufficiently hot weather" means that the data used 10 for the regression model "should include at least one day when the actual peak load 11 12 occurred at a temperature that reached the normal level of 90.3 degrees Fahrenheit for the peak hour. Ideally, the model will include several days when the experienced weather 13 conditions exceeded normal. If needed, data from previous summers may be included to 14 15 produce a distribution that is judged to be valid." Importantly, PSEG-LI did not specify the minimum number of data points from "sufficiently hot weather" that it considers 16 necessary "to develop a valid regression model." 17

18 Q. WHY IS THE NUMBER OF DATA POINTS AN IMPORTANT 19 CONSIDERATION?

A. The model must consider a minimum number of data points to provide an output that is statistically significant. If an insufficient number of data points are used, then the model output is not statistically significant, and the results are unreliable. The minimum number of data points needed for statistical analysis can be derived. PSEG-LI does not specify the minimum number that it requires for the weather normalization process, or

how the weather normalization process is impacted if an insufficient number of data
points is utilized. Regardless, however, this issue is secondary to my primary concern
with this metric.

5 Q. WHAT IS YOUR PRIMARY CONCERN REGARDING THE6TEMPERATURE/HUMIDITY METRIC THAT PSEG-LI USES?

A. PSEG-LI confirmed in City-60 that the metric is used to inform capital investment
decisions, including storm hardening projects. Regardless of whether the regression
model considers one, two or three prior summer periods or the number of data points
included therein, the temperature/humidity metric used by PSEG-LI relies entirely on
historic data. Storm hardening projects should be designed to withstand future climate
conditions, which are not reflected in the temperature/humidity metric.

13 Q. PLEASE CONTINUE.

Designing utility systems to meet the demands of the historic climate could leave the 14 A. 15 system vulnerable to the demands of a future climate that is projected to be characterized by higher average ambient temperatures and heat waves of greater frequency, duration 16 and intensity. The most recent summer periods are not necessarily representative of 17 future climate—or historic climate, for that matter. Further, the small sample size of up 18 to three summer periods is inadequate to support a reliable projection of future weather, 19 even if the regression model used those recent summer periods to project future 20 21 conditions (which it does not do).

22 Q. WHAT DO YOU RECOMMEND?

1

A. Assets that may be vulnerable to temperature-related failure should be designed to
 operate under future climate conditions. At a minimum, the design standards employed
 by PSEG-LI should be revised to account for increased average ambient temperatures and
 heat waves of greater frequency, duration and intensity.

5 Q. ARE YOU RECOMMENDING SPECIFIC DESIGN STANDARDS FOR THIS
6 PURPOSE?

A. No, that is beyond the scope of my expertise and this testimony. I understand, however,
that City witness John Marczewski is recommending that LIPA convene a storm
hardening collaborative. I agree with that recommendation, and also recommend that
details such as climate projections and design standards be key elements of the
collaborative.

Mr. Marczewski also recommends that LIPA and PSEG-LI undertake a climate vulnerability study as part of the collaborative. I agree with this recommendation as well. The climate vulnerability study will provide a long-range basis for the ongoing review of climate change projections. This data will be important for the design of future storm hardening projects.

17 Q. DID PSEG-LI CONSIDER SEA LEVEL RISE WHEN DESIGNING STORM 18 HARDENING PROJECTS?

A. Yes. PSEG-LI indicated in various responses to City information requests that relevant
storm hardening projects – such as projects to elevate substation equipment – relied
exclusively on analyses of asset vulnerability to projected sea level rise and coastal
flooding that was prepared by Worley Parsons. The redacted Worley Parsons reports
were provided in response to City-33 and City-36.

1Q.WHAT WAS THE SOURCE OF THE CLIMATE PROJECTIONS THAT2WORLEY PARSONS RELIED ON?

The Worley Parsons report relied on our original ClimAID study of 2011. While that 3 A. 4 report included two sea level rise scenarios, the Worley Parsons report only considered 5 the lower of the two scenarios, without providing an explanation or justification for this decision. As I noted earlier, the 2011 ClimAID study was later updated to reflect 6 7 scientific advances including greater awareness of the risk of rapid sea level rise due to rapid melting of land ice. Our updated ClimAID report in 2014 reflected this advance by 8 integrating the rapid ice melt scenario into a unified single sea level rise 9 framework/scenario. The 2014 update also included additional sea level rise components 10 that we had excluded from the original work. 11

Worley Parsons' analysis also included what appears to be a short duration sea level trend analysis projection. Short duration trends can be highly sensitive to natural variability and, therefore, tend to be less reliable. Furthermore, because the rate of sea level rise is projected to accelerate, the use of a historical linear trend is not appropriate for future extrapolations/projections. I was unable to discern from the Worley Parsons reports the justification for including the short duration trends in their projection.

18 Q. WHAT CONCLUSIONS REGARDING SEA LEVEL RISE ARE PRESENTED IN 19 THE WORLEY PARSONS REPORTS?

A. The Worley Parsons reports predict an average sea level rise of 15 inches by 2125, and they provide no range or uncertainty estimates. This projection is at or below the lowest projections currently in use anywhere, to my knowledge. For example, the Climate Reports project 13 to 58 inches of sea level rise for the Region by the 2080's. Thus, the

3 Q. WHAT SEA LEVEL RISE DID WORLEY PARSONS RECOMMEND BE 4 ASSUMED FOR SYSTEM PLANNING PURPOSES?

A. Worley Parsons noted that typical substation equipment has a 40-year lifespan, and
recommended that a sea level rise of eight inches be assumed for planning purposes. Put
differently, Worley Parsons effectively assumed that Long Island will realize eight inches
of sea level rise by the mid-2050's.

9 Q. HOW DOES THIS ASSUMPTION COMPARE TO CURRENT PROJECTIONS 10 OF SEA LEVEL RISE?

A. Current projections indicate that Long Island may experience sea level rise of eight to thirty inches by the 2050s. Recent data further indicate that the rate and/or magnitude of sea level rise may be increased by the accelerated melting of glacial ice. Based on current projections and my understanding of emerging factors that may impact those projections, I would not recommend that a design standard for important and valuable assets be based on the lowest projection of sea level rise.

17 Q. IN YOUR OPINION, DO THE WORLEY PARSONS REPORTS RELY ON

18 CURRENT OR APPROPRIATE CLIMATE CHANGE PROJECTIONS?

- 19 A. No.
- 20 Q. PLEASE EXPLAIN.

A. The methods in the Worley Parsons reports do not reflect the current state of climate
science for at least three reasons. First, the reports do not include any of the rapid
scientific advances that occurred since our original ClimAID report. For instance, the

Worley Parsons report does not account for certain components that influence sea level rise that were considered in the Climate Reports and the IPCC, such as the regional 'fingerprint' of melting land ice or the effects of global land water storage, such as dams and groundwater withdrawal.

5 Second, as noted above, Worley Parsons chose to consider only a lower-end 6 scenario from our report that does not consider the possibility of rapid ice melt. This is a 7 critical omission, since there has been a growing body of empirical data that the rate of 8 land-based ice melt is accelerating. Numerous studies, including the latest 2013 IPCC 9 Report relative to the prior one of 2007 are now projecting more rapid ice melt and sea 10 level rise than studies from a few years ago. The Worley Parsons reports did not justify 11 this decision to ignore the acceleration of ice melt.

12 Third, it appears that the Worley Parsons reports linearly extrapolate historic 13 observations of sea level rise into the future. This method is not scientifically sound 14 because sea level rise is projected to accelerate dramatically this century due to 15 increasing concentrations of greenhouse gases and associated warming of the atmosphere 16 and the upper ocean. The linear extrapolation does not account for this acceleration.

For all of these reasons, the projections of sea level rise presented in the Worley Parsons reports are inaccurate, stale, and unreliable. Moreover, by choosing to ignore the more basic 'rapid ice melt scenario' in our original ClimAID study, the Worley Parsons report was selective in its use of the science available at that time by picking the lower of two scenarios without explaining that choice.

Q. DID PSEG-LI ACKNOWLEDGE THAT DATA IN THE REPORTS MAY BE OUTDATED?

A. I believe so, yes. PSEG-LI stated in response to City-33 that "the report was prepared
with the best available data at the time." PSEG-LI included the same statement in
response to City-36. I interpret these statements as acknowledging that the data
underlying the reports is stale. I also disagree that the report used the "best available data
at the time," for the reasons set forth in my previous answers.

Q. WHAT SEA LEVEL RISE PROJECTIONS SHOULD PSEG-LI USE AS THE DESIGN BASIS FOR RELEVANT STORM HARDENING PROJECTS?

A. PSEG-LI should consider relying on the projections presented in the Climate Reports,
which are 2 to 10 inches by the 2020s, 8 to 30 inches by the 2050s, and 13 to 58 inches
by the 2080s. The lower range of sea level rise projections arguably is a weak design
basis for an electric system, the reliable operation of which is essential to our modern
society. These projections should be reviewed and updated periodically to keep pace
with improvements in climate change projections and advances in climate science.

14 Q. DO YOU HAVE ANY RECOMMENDATION REGARDING EQUIPMENT

15 ELEVATION AND OTHER STORM HARDENING PROJECTS THAT RELIED 16 ON WORLEY PARSONS' SEA LEVEL RISE PROJECTIONS AND ALREADY 17 HAVE BEEN COMPLETED?

A. I recommend that PSEG-LI review those projects to determine whether the underlying
 design standards are adequate when judged against current sea level rise projections. For
 projects where the design standard is not adequate, I recommend that PSEG-LI consider
 the benefit and cost of incremental equipment elevations to address current climate
 change projections. I recommend that this review should be conducted as part of the
 holistic collaborative recommended by Mr. Marczewski.

According to Mr. Marczewski, the program currently appears to be focused entirely (or 3 A. 4 almost entirely) on assets that were damaged by Hurricane Sandy. This presents a 5 serious risk that other hazards associated with (i) severe weather events other than coastal storms, and (ii) coastal storms with different characteristics such as more rainfall and 6 7 wind, and less surge, or different strike locations, will be underemphasized. This would leave sections of the LIPA electric system at a higher risk of damage from future climate 8 9 Accordingly, I support Mr. Marczewski's recommendations that a events. 10 comprehensive collaborative be initiated that studies storm hardening solutions for the entire system, with prioritization for the most vulnerable areas. 11

12 Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?

13 A. Yes.

JUDGE PHILLIPS: I believe next it is counsel for LIPA. 1 2 MR. BROCKS: Your Honor, I would like to hand you and Your 3 Honors an affidavit for Mr. Kane and Mr. Shansky. Your Honor, the affidavit of Mr. Kane covers the testimony consisting of 18 4 5 pages as well as exhibits that were pre-marked Exhibit 3 and 6 Exhibit 4. The affidavit of Mr. Shansky addresses pre-filed 7 testimony consisting of 11 pages, and there are no exhibits with 8 that testimony (handing). 9 JUDGE PHILLIPS: The affidavit of Mr. Kane has been marked

for identification as Exhibit 129. And that basis, we request his direct testimony consisting of 18 pages be copied into the record as though given orally today. The affidavit of Mr. Rick Shansky has been marked for identification as Exhibit 130, and on that basis we ask that his direct testimony consisting of 11 pages be copied into the record as though given orally today. MR. BROCKS: Thank you.

899

17

18

19

20

21

22

23

24

25

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Matter Number: 15-____

DIRECT TESTIMONY OF

KENNETH KANE

LONG ISLAND POWER AUTHORITY

JANUARY 30, 2015
1	Q.	PLEASE STATE YOUR NAME, TITLE AND BUSINESS ADDRESS.
2	A.	Kenneth Kane, CPA, Managing Director of Finance and Budgeting, Long
3		Island Power Authority, 333 Earle Ovington Boulevard, Suite 403, Uniondale,
4		New York 11553.
5		
6	Q.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND
7		PROFESSIONAL EXPERIENCE.
8	А.	I have a BA from Pace University and a MBA in Finance from Hofstra
9		University. I worked in public accounting beginning in 1984 and joined the
10		Long Island Lighting Company ("LILCO") as an accountant in 1988. I joined
11		the Authority in 1999 and served as Director of Financial Reporting until 2001
12		when I was named Controller. I was appointed Managing Director of Finance
13		and Budgeting in late 2013. I am responsible for the finance and budgeting
14		operations, as well as our efforts to obtain and administer various grants,
15		including those associated with storm recovery and hardening.
16		
17	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
18	А.	My testimony presents our projections of the Authority's portion of general
19		and administrative ("G&A") expense and the costs of financing the

1		Authority's electric system, which consists of debt service (including
2		principal and interest expenses and related fees, such as remarketing fees,
3		broker dealer fees, and letter of credit fees). I will also present the projections
4		of amounts that have been deferred and their subsequent amortizations,
5		Federal Grants and Other Income and Deductions, which include grant
6		income. Lastly, I will provide the debt service amounts that are used to
7		determine revenue requirements under the Public Power Model that is
8		discussed in the testimony of Thomas Falcone, the Authority's Chief
9		Financial Officer.
10		
11	Q.	CAN YOU EXPLAIN THE AUTHORITY'S BUDGET PROCESS?
12	A.	Yes. The Rate Plan projections of the Authority's portion of the budget are
13		contained in PSEG Long Island ("PSEG-LI") Ratemaking and Revenue
14		Requirements Panel Exhibit (RRP-1), Schedule A-5. The Authority's
15		structure, operations, and staffing have been dramatically changed by the
16		"Amended and Restated Operating Service Agreement" ("OSA"), pursuant to
17		which PSEG-LI became the system operator on January 1, 2014. The
18		Authority's 2015 Budget was prepared through an iterative process involving

1		Operating Budget in December 2014. This filing also contains projected
2		budgets through 2018. Those projected budgets have not been approved by
3		the Board. The Authority presents its budgets for approval in December of
4		each year for the coming year; that is, the budget for 2016 will be presented in
5		December 2015, and so forth.
6		
7	Q.	DOES THE 2015 BUDGET INCLUDE THE AUTHORITY PORTION
8		OF THE OPERATING BUDGET?
9	A.	Yes. The total consolidated 2015 Operating Budget of the Authority and
10		PSEG-LI is \$3.6 billion. The 2015 Authority Operating Budget totals \$61
11		million, which includes the expense portion of the PSEG-LI management fee
12		of \$35.4 million (\$10.0 million of the total fee of \$45.3 million, including
13		performance based compensation if fully paid out, will be capitalized). The
14		\$61 million excludes approximately \$4.5 million of transition costs being
15		deferred. The OSA has established the PSEG-LI management compensation
16		at a fixed annual rate (with escalation clauses based on the CPI), and provides
17		PSEG-LI the ability to earn additional compensation if certain agreed upon
18		levels of performance are reached. The amounts within this case assume that
19		PSEG-LI will reach such performance levels. The Authority's Operating

1		Expense Budget for 2015 is \$25.5 million, a reduction of \$13.6 million from
2		2014. Total Authority staffing is 40 FTE employees, down from
3		approximately 50 employees in 2014 and 100 employees in 2013. Total
4		Authority labor costs, which include salaries and benefits, are budgeted at
5		\$10.1 million for 2015, a reduction of \$4.6 million from 2014. Professional
6		services in 2015 were budgeted at \$9.9 million, a reduction of \$7.9 million
7		from 2014. The primary cost changes in professional services are due to
8		reductions in expenses related to the Power Markets Department moving to
9		PSEG-LI, and the absence of fees associated with the Management Audit,
10		FEMA, and CDBG claims administration. The Authority's expenses are
11		shown in the PSEG-LI Ratemaking and Revenue Requirements Panel Exhibit
12		(RRP-1), Schedule A-5.
13		
14	Q.	HOW DID YOU FORECAST THE AUTHORITY'S EXPENSES FOR
15		THE THREE-YEAR RATE PLAN?
16	A.	Projected Consolidated Operating Budgets through 2018, including the
17		Authority's projected operating expenses, are presented in PSEG-LI
18		Ratemaking and Revenue Requirements Panel Exhibit (RRP-1), Schedule
19		A-5. The Authority's labor is based on a head count of 40, with compensation

1		adjusted for inflation through 2018. Professional services are based on
2		projected activity levels, primarily associated with audits and operator
3		oversight. Each department head who will incur such costs was asked to
4		provide an estimate for the upcoming periods. Such estimates are based upon
5		anticipated work efforts and billing rates.
6		
7	Q.	HAS THE AUTHORITY RECEIVED FEMA FUNDING?
8	А.	Yes. As a public power entity, the Authority is eligible for certain damage
9		reimbursements from the Federal Emergency Management Agency
10		("FEMA") not available to investor-owned utilities. The Authority estimates
11		that it will spend approximately \$806 million to repair and replace its facilities
12		damaged by Superstorm Sandy that struck in October 2012. While normally
13		limited to 75% reimbursement, damage was so extensive that the Authority
14		(and all other New York State applicants) was entitled to 90% reimbursement.
15		We have recovered \$704 million from FEMA related to Superstorm Sandy.
16		This was the most expensive storm to ever impact the electrical system on
17		Long Island. In August 2011, Long Island was struck by Hurricane Irene,
18		which at that time was the most expensive storm to strike Long Island's
19		electric grid. The Authority incurred approximately \$155 million to repair

1		and replace damaged facilities. LIPA has to date recovered approximately
2		\$113 million from FEMA related to Hurricane Irene. In February 2013, Long
3		Island was struck by a nor'ester that was named NEMO. LIPA incurred just
4		over \$17 million to restore power after that event. LIPA is working with
5		FEMA to settle that claim. The Federal disaster area was identified as Suffolk
6		County only, and LIPA estimated that approximately 75% of the \$17 million
7		of costs noted above was related to damages in Suffolk County. Several
8		meetings have been held with FEMA regarding NEMO, but to date no
9		reimbursement has been provided.
10		
11	Q.	ARE OTHER FEMA BENEFITS AVAILABLE TO THE AUTHORITY?
11 12	Q. A.	ARE OTHER FEMA BENEFITS AVAILABLE TO THE AUTHORITY? Yes. The Authority has applied for and been awarded 90% funding for a \$730
11 12 13	Q. A.	ARE OTHER FEMA BENEFITS AVAILABLE TO THE AUTHORITY? Yes. The Authority has applied for and been awarded 90% funding for a \$730 million storm hardening program under FEMA's 428 program. This program
11 12 13 14	Q. A.	ARE OTHER FEMA BENEFITS AVAILABLE TO THE AUTHORITY? Yes. The Authority has applied for and been awarded 90% funding for a \$730 million storm hardening program under FEMA's 428 program. This program is intended to improve system resilience and mitigate the impact of future
11 12 13 14 15	Q. A.	ARE OTHER FEMA BENEFITS AVAILABLE TO THE AUTHORITY?Yes. The Authority has applied for and been awarded 90% funding for a \$730million storm hardening program under FEMA's 428 program. This programis intended to improve system resilience and mitigate the impact of futurestorms and will also benefit day-to-day reliability. Those incremental capital
11 12 13 14 15 16	Q. A.	ARE OTHER FEMA BENEFITS AVAILABLE TO THE AUTHORITY?Yes. The Authority has applied for and been awarded 90% funding for a \$730million storm hardening program under FEMA's 428 program. This programis intended to improve system resilience and mitigate the impact of futurestorms and will also benefit day-to-day reliability. Those incremental capitalexpenditures are projected to take place from 2014 to 2019. The expenditures
11 12 13 14 15 16 17	Q. A.	ARE OTHER FEMA BENEFITS AVAILABLE TO THE AUTHORITY? Yes. The Authority has applied for and been awarded 90% funding for a \$730 million storm hardening program under FEMA's 428 program. This program is intended to improve system resilience and mitigate the impact of future storms and will also benefit day-to-day reliability. Those incremental capital expenditures are projected to take place from 2014 to 2019. The expenditures for storm hardening and mitigation are in addition to the normal annual Capital
11 12 13 14 15 16 17 18	Q. A.	ARE OTHER FEMA BENEFITS AVAILABLE TO THE AUTHORITY? Yes. The Authority has applied for and been awarded 90% funding for a \$730 million storm hardening program under FEMA's 428 program. This program is intended to improve system resilience and mitigate the impact of future storms and will also benefit day-to-day reliability. Those incremental capital expenditures are projected to take place from 2014 to 2019. The expenditures for storm hardening and mitigation are in addition to the normal annual Capital Budgets. The Capital Budgets are set out in PSEG-LI's Exhibits, and

Q. DOES THE AUTHORITY ANTICIPATE RECEIVING GRANT INCOME?

3 A. Yes. In September 2014, the Authority signed a Community Development 4 Block Grant ("CDBG") agreement for \$143.2 million. The grant is funded by 5 the United Stated Department of Housing and Urban Development ("HUD"). 6 This grant is to reimburse the Authority for some of the non-match FEMA 7 funding related to Superstorm Sandy and Hurricane Irene, and to fund \$36 8 million of storm mitigation protective measures. The storm mitigation 9 protective measures are reflected in the approved Operating Budget for 2015. 10 The Authority had anticipated recovery of the \$107 million balance of this 11 grant during 2014. However, \$80 million was received in January 2015. The 12 Authority now expects to recover the remaining \$27 million during 2015, plus 13 the \$36 million for storm mitigation protective measures. The 2015 grant 14 income is budgeted at \$76 million, which is down from 2014. Beyond the 15 CDBG grant agreement, grant income is primarily Regional Greenhouse Gas 16 Initiative ("RGGI") funds to support energy efficiency programs of \$34.6 17 million and \$3.8 million related to a Build America Bond subsidy. We are 18 projecting grant income of \$40.5 million, \$45.1 million, and \$49.6 million in

1		2016, 2017, and 2018, respectively. That is shown on PSEG-LI Ratemaking
2		and Revenue Requirements Panel Exhibit (RRP-1), Schedule A-9.
3		
4	Q.	WHAT IS THE AUTHORITY'S PROJECTION OF OTHER INCOME
5		AND DEDUCTIONS?
6	А	The Authority expects to generate other income that reduces revenue
7		requirements from a number of sources. Other income includes interest
8		income earned on the Authority's cash balances, the nuclear decommissioning
9		trust fund related to the Authority's 18% interest in Unit 2 of the Nine Mile
10		Point Nuclear Station (the earnings on which remain in the trust), the Suffolk
11		Property Tax Settlement (which offsets the interest expense incurred on the
12		Property Tax Settlement debt issued to fund customer rebates), the Visual
13		Benefits Assessment, the OPEB Account (the earnings on which remain in the
14		account), and other miscellaneous items. Investment earnings on projected
15		account balances are based on reasonable interest rate assumptions for
16		planning purposes provided by the Authority's financial advisor, Public
17		Financial Management, Inc. ("PFM"). That forecast assumes rising interest
18		rates over the Rate Plan period. The Authority has little control over the actual
19		investment earnings, which are dependent on market-based rates of return.

1		Our projection of Other Income is shown on PSEG-LI Ratemaking and
2		Revenue Requirements Panel Exhibit (RRP-1), Schedule A-8.
3		
4	Q.	CAN YOU EXPLAIN DEFERRALS AND AMORTIZATIONS?
5	A.	Deferrals and amortizations are shown on Exhibit(KK-1). Deferrals (and
6		their subsequent amortizations) represent items other than physical plant that
7		are placed on the balance sheet after Board approval, which are typically
8		recovered from customers through an amortization over the useful life of the
9		expenditure, unless such recovery period is modified to ameliorate a rate
10		impact. The Authority's deferrals total approximately \$3.2 billion. For
11		financial statement reporting purposes, the amortization of such deferrals are
12		projected to be between \$212 million and \$215 million each year during the
13		period of this Rate Plan. However, under the Public Power Model of rate
14		setting, these amortizations are not explicitly part of the revenue requirement
15		as they are non-cash expenses in each year. Instead, our customers repay the
16		monies borrowed to fund the deferrals at the time the cash expenditure was
17		incurred. It is also important to note that the Authority spreads the recovery
18		of these costs over the period of benefit through the debt issuance used to fund
19		the deferral rather than the amortization period of the deferral, thereby

1		minimizing the current period rate impact. For example, the Authority funded
2		the Outage Management System with bonds that mature over the life of the
3		OSA contract with PSEG-LI, so the period of cost recovery (principal and
4		interest) is aligned with the period of benefit to the customer.
5		
6	Q.	PLEASE CONTINUE.
7	A.	The largest deferral is the Acquisition Adjustment at \$2.1 billion. The
8		Acquisition Adjustment represents the unamortized balance of the premium in
9		excess of the book value of plant and certain other assets (customer accounts
10		receivables) that the Authority paid for the acquisition of LILCO in 1998.
11		That premium is being amortized straight-line over a 35-year period that
12		began in June 1998.
13		
14		The Suffolk Property Tax Settlement (\$505 million) represents the
15		unamortized balance of the rebates and credits required to be provided to all
16		ratepayers over the five-year period that began in May 1998 in accordance
17		with the Property Tax Settlement, which includes annual debt service costs on
18		the bonds issued (as part of Bond Series 1998A and 2000A) to finance the
19		Settlement. Beginning in June 2003, Suffolk County customer bills have

1	included a surcharge that is being collected over the succeeding 25-year
2	period to pay the associated debt service.
3	
4	The Visual Benefits Assessment is the money due from customers in the
5	designated area of the Town of Southampton for the incremental expense of
6	burying a portion of a transmission line.
7	
8	Debt issuance costs include underwriters' discounts, legal and accounting fees
9	incurred when the Authority issues debt. These costs are amortized over the
10	life of each debt issue in accordance with the provision of GASB 62, which
11	incorporated regulatory accounting (ASC 980/FASB 71) into the
12	governmental standards.
13	
14	The Authority also deferred the costs it incurred related primarily to facilities
15	owned by others necessary for the operation of the generating stations under
16	contract to the Authority not owned by National Grid. For example, the
17	Authority funded the gas pipe and compressor station necessary to supply
18	natural gas to a recently completed power station, but as those facilities are
19	owned by the local gas distribution company, the costs were deferred and are

1		being amortized over the life of the PPA to Fuel and Purchased Power at a
2		rate of approximately \$3 million per year.
3		
4	Q.	WHAT COSTS ASSOCIATED WITH THE TRANSITION HAVE
5		BEEN DEFERRED FOR FUTURE RECOVERY?
6	А.	In order to support the three-year rate freeze that includes 2015, certain costs
7		associated with the transition from National Grid to PSEG-LI as service
8		provider were deferred, including: i) costs expended by the Authority in 2012
9		through 2013 to prepare for the transition; ii) costs expended on the new
10		Outage Management System ("OMS") and Enterprise Resource Planning
11		("ERP") system; iii) costs to settle the outstanding pension and other post-
12		employment benefits ("OPEB") with the termination of the National Grid
13		contract; iv) retirement benefits (pension and OPEB obligations) related to
14		the PSEG-LI employees that transitioned from National Grid; v) costs to
15		prepare and support this rate plan; and vi) costs incurred in 2014 to transition
16		the Power Supply Management function to PSEG-LI beginning January 1,
17		2015. Estimates of the costs that were deferred and the proposed period of
18		recognition in the financial statements are shown on Exhibit (KK-1). Each

1 of these deferrals and subsequent amortizations has been approved by the 2 Authority's Board of Trustees. 3 4 Q. PLEASE EXPLAIN UTILITY DEPRECIATION EXPENSE. 5 A. Forecasted depreciation expense for the three years of the Rate Plan is shown 6 on PSEG-LI's Ratemaking and Revenue Requirements Panel Exhibit 7 (RRP-1), Schedule A-6. This forecast was prepared by PSEG-LI, which 8 maintains the Authority's plant accounting records under the OSA. Foster and 9 Associates completed a depreciation study on behalf of the Authority in 2014. 10 The study concluded that the Authority's assets have longer useful lives than 11 is currently reflected in depreciation rates, and as such utility depreciation 12 expense is budgeted at \$109.4 million in 2015, a reduction of \$51.2 million 13 from the 2014 budget. The study also determined that the Authority had a 14 reserve imbalance (surplus) of \$815 million. Foster Associates offered four 15 alternative treatments to deal with this imbalance, one of which is to offset 16 that balance against the unamortized balance of the Acquisition Adjustment. As noted in the Foster Associates report, this option would require restating 17 18 the recorded reserves for each plant account to that which was computed 19 within the study, and transferring the difference to the Acquisition

1		Adjustment. The report goes on to note that "this treatment would be
2		fitting for the Authority if service rates are set to produce cash flows sufficient
3		to cover debt service obligations [the public power model] rather than a
4		traditional rate base/rate of return formulation of revenue requirements." As
5		the Authority finds the approach outlined by Foster and Associates to be
6		reasonable, it has been reflected in this filing as being instituted effective
7		January 1, 2016. Accordingly, the unamortized balance of the Acquisition
8		Adjustment will be reduced by approximately \$775 million, which is the
9		estimated balance of the reserve imbalance as of January 1, 2016. With the
10		Board's approval, the offset to the Acquisition Adjustment will be recorded at
11		the same time, which will reduce the period of amortization from 35 years to
12		28 years.
13		
14	Q	PLEASE DESCRIBE THE AUTHORITY'S CAPITAL STRUCTURE.
15	A.	Exhibit (KK-2) shows the Authority's projected capital structure through
16		2018. The Capital Budget for 2015 was approved by the Board in December
17		2014 and was provided to the DPS in January 2015. The projected Capital
18		Budgets for 2016 to 2018 are described in the testimony of PSEG-LI's Capital
19		Panel.

1	Q.	PLEASE DESCRIBE THE AUTHORITY'S INTEREST EXPENSE.
2	A.	Interest expense is projected to be \$365 million in 2015. Projected expense
3		for the three years of the Rate Plan is shown on PSEG-LI Ratemaking and
4		Revenue Requirements Panel Exhibit (RRP-1), Schedule A-10. The
5		projection of interest expense is based on the amount of debt outstanding in
6		each year, the interest associated with each series, and the amortization of
7		expenses related to the issuance of each series (cost of issuance, bond
8		premiums or discounts, and deferred gains or losses on early retirement of
9		debt). Interest and related expenses are forecast to be \$345 million in 2016;
10		\$346 million in 2017; and \$360 million in 2018. The forecasted cost for new
11		tax exempt debt is 4.5% for 2015, increasing to 5.0% in 2018. Short-term
12		variable rate instruments are assumed to cost 0.375% in 2015 escalating to
13		2.5% in 2018. The interest rates used to calculate interest expense are
14		provided by the Authority's financial advisor, PFM, and are reasonable
15		planning assumptions.

16

17 Q. WHAT IS DEBT SERVICE AND HOW IS IT DIFFERENT FROM 18 INTEREST EXPENSE?

1	A.	Interest expense is the amount of interest and related expense that is
2		recognized in the financial statements each year in accordance with generally
3		accepted accounting principles. It is not necessarily cash paid. Debt service
4		is the amount of principal and interest paid each year to bond holders. Debt
5		service schedules are established for each bond when it is issued, and must be
6		paid according to that schedule to avoid defaulting on that bond. As described
7		in the testimony of Thomas Falcone, the rating agencies look at the coverage
8		required on the Authority's fixed obligations, which looks not only at debt,
9		but "debt-like" obligations, such as payments made under capitalized leases.
10		The fixed coverage ratio is often used by investors and rating agencies, and as
11		such will be shown in this case. For capitalized leases, LIPA also prepares a
12		minimum lease payments table that shows the fixed monthly payments over
13		the life of the lease, which must be paid to avoid defaulting on the lease.
14		
15		Total debt service (including LIPA and UDSA) is included in PSEG-LI
16		Ratemaking and Revenue Requirements Panel Exhibit (RRP-1), Schedule
17		A-11, and is estimated at \$573 million, \$547 million, and \$592 million in
18		2016, 2017, and 2018, respectively, before giving effect for the savings from
19		the proposed securitization legislation. With refinancing, total debt service is

1	projected at \$502 million, \$518 million, and \$538 million in 2016, 2017, and
2	2018, respectively. This projection assumes significant bond refinancing
3	savings using the Utility Debt Securitization Authority, as illustrated in the
4	Exhibit and described in Authority Witness Falcone's testimony. Debt service
5	associated with existing debt will be approximately \$497 million, \$496
6	million, and \$463 million in 2016, 2017, and 2018, respectively, if the
7	refinancing savings are achieved as projected. Debt service associated with
8	new debt issued during the period of this case to fund system improvements
9	will be approximately \$4 million, \$18 million, and \$35 million in 2016, 2017,
10	and 2018, respectively.
11	
12	As noted in the testimony of Mr. Falcone, coverage on debt service plus
13	capitalized lease obligations (fixed obligation coverage) is a commonly used
14	metric by investors and rating agencies. The Authority's debt-related
15	recoveries, including debt service and coverage requirements, are projected at
16	\$623 million in 2016, \$681 million in 2017, and \$742 million in 2018.
17	Coverage on fixed obligations is projected to be \$121 million in 2016, \$163
18	million in 2017, and \$205 million in 2018.
10	

1	Q.	DOES THIS COMPLETE YOUR PRE-FILED DIRECT TESTIMONY
2		AT THIS TIME?
3	A.	Yes.
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		

BEFORE THE LONG ISLAND POWER AUTHORITY

IN THE MATTER of a Three-Year Rate Plan

Matter Number: 15-____

DIRECT TESTIMONY OF RICK SHANSKY

LONG ISLAND POWER AUTHORITY

JANUARY 30, 2015

1	Q.	PLEASE STATE YOUR NAME, TITLE AND BUSINESS ADDRESS.
2	А.	Rick Shansky, Managing Director of Contract Oversight, Long Island Power
3		Authority ("Authority"), 333 Earle Ovington Boulevard, Suite 403, Uniondale,
4		New York 11553.
5		
6	Q.	WHAT ARE YOUR RESPONSIBILITIES AT THE AUTHORITY?
7	A.	I direct the Authority's oversight of its primary contractor PSEG Long Island
8		("PSEG-LI"), as well as its affiliate that performs day-to-day power and fuel
9		procurement. I am also responsible for managing the Authority's participation
10		in wholesale power markets.
11		
12	Q.	PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND
13		PROFESSIONAL EXPERIENCE.
14	А.	I have a Bachelor of Science in Electrical Engineering from Rensselaer
15		Polytechnic Institute and a Master of Science in Energy Management from NY
16		Institute of Technology. I am licensed as a Professional Engineer in the State
17		of New York. I have more than 30 years of experience in the electric utility
18		industry, and previously held positions at Consolidated Edison Company of
19		New York ("Con Edison") and the Long Island Lighting Company ("LILCO")
20		in the areas of energy management, resource planning, fuel and purchased

1		power, and generation planning. I joined the Authority in 2008 and held
2		management positions in the Power Markets department before assuming my
3		current position in September 2014.
4		
5	Q.	HAVE YOU PREVIOUSLY TESTIFIED IN RATE PROCEEDINGS IN
6		NEW YORK STATE?
7	A.	Yes. I testified as a witness for Con Edison in Public Service Commission
8		("PSC") Cases 07-S-1315, 05-S-1376, 03-S-1672, 99-S-1621, and 94-E-0334.
9		
10	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
11	A.	The purpose of my testimony is to describe the Authority's oversight of PSEG-
12		LI's operations.
13		
14	Q.	HOW IS THE AUTHORITY ORGANIZED TO CONDUCT
15		OVERSIGHT?
16	A.	The Authority's Overview Panel testimony explains how the Authority is
17		organized. While each department within the Authority plays a role in the
18		oversight process, the Contract Oversight Department, which consists of nine
19		positions, is dedicated to overseeing PSEG-LI's performance of operations
20		services under the Amended & Restated Operations Services Agreement

1	("OSA"). The Overview Panel explains the background of the OSA in its
2	testimony. The Contract Oversight Department is staffed with experts in the
3	areas it covers, including transmission and distribution system operation,
4	power and fuel procurement and planning, energy efficiency program
5	management, and customer service, among others. When appropriate, we can
6	supplement our staff with technical consultants who may be engaged to
7	investigate particular issues. During 2014, we engaged several consultants to
8	assist with the verification of data used by PSEG-LI in reporting its
9	performance under the metrics established by the OSA. The department also
10	carries out contract administration of the OSA, administers PSEG-LI's
11	performance metrics, and advises Authority Staff and the Board of Trustees on
12	OSA matters, including approval of budgets, rate plans, and power contracts.
13	Periodically, we report such matters to the Contract Oversight Committee of
14	the Board of Trustees, which leads the Board's oversight of PSEG-LI. During
15	2014, the Committee held sessions involving a variety of issues, including
16	staff's oversight process, OSA performance metrics, PSEG's operational
17	readiness, and process improvements, such as PSEG-LI's new outage
18	management system ("OMS"). We also manage the Authority's response to
19	customer appeals on tariff or service issues that sometimes arise following
20	determinations by PSEG-LI and DPS-LI; direct the activities of PSEG Energy

1		Resources & Trade, the PSEG-LI affiliate that conducts day-to-day
2		procurement of fuel and power for the Authority; and coordinate PSEG-LI's
3		representation of the Authority in various rulemaking processes by the
4		regional market operators and in State regulatory proceedings, such as the
5		PSC's REV proceeding.
6		
7	Q.	WHAT IS THE PURPOSE AND GOAL OF CONTRACT OVERSIGHT?
8	A.	Under the OSA, PSEG-LI is the "name and face" of electric utility service on
9		Long Island, and it is responsible for management, operation, and maintenance
10		of the Long Island utility system, including power supply planning and
11		procurement. The OSA reserves decision-making authority to the Authority in
12		certain areas, such as approval of rates and budgets and power contracts. In
13		most other areas, the Authority carries out its oversight by assessing and
14		enforcing PSEG-LI's compliance with the performance standards in the OSA,
15		which include performance metrics and associated incentive compensation in
16		key areas, such as cost control, reliability, and customer satisfaction. The 2013
17		NorthStar audit report summarized the goal of oversight: "The service
18		provider contract must drive performance, allowing LIPA to exercise its
19		responsibilities as system owner and intervene as necessary to improve
20		performance." (NorthStar audit report, p. 1-6). Thus, the Authority monitors

1		PSEG-LI's operations and activities, assesses performance and consistency
2		with established regulations and policies, and provides feedback to PSEG-LI
3		as appropriate.
4		
5	Q.	PLEASE DESCRIBE THE PERFORMANCE MONITORING
6		PROCESS.
7	А.	While the process begins with monitoring the OSA performance metrics, it is
8		much more than that. Each month, PSEG-LI prepares a detailed report on its
9		performance against targets for the 20 high-level (i.e., Tier 1) metrics specified
10		in the OSA in the areas of technical performance, customer satisfaction, and
11		financial performance. The report also provides data on a greater number of
12		Tier 2 metrics, though not tied to incentive compensation, provide a broad
13		view of PSEG-LI's operation of the utility. The monthly report provides trend
14		analysis and breaks down each metric into component parts (e.g., location or
15		cause), which facilitates identification of problems and highlights successes.
16		This information is reviewed with Authority staff and senior management at
17		monthly meetings, during which the need for follow-up actions may be
18		determined. Process reviews of PSEG-LI's performance reporting are also
19		done. These detailed reviews validate the calculations, data exclusions, and
20		associated controls from original data entry in the field through the end report

924

1	that is generated by PSEG-LI's information systems. These reviews are
2	conducted for each performance metric in the first year of use or when a
3	process change is introduced. During 2014 we conducted such reviews for all
4	of the Tier 1 metrics. During the first quarter of 2015, PSEG-LI will submit
5	documentation of its 2014 performance for review by the Authority and the
6	New York State Department of Public Service ("DPS").
7	
8	In addition to the OSA performance metrics, we monitor key operating
9	activities, such as field activities, staffing levels, customer collections, through
10	review of reports and direct observation. PSEG-LI's progress on capital
11	projects is assessed at project review meetings and review of monthly variance
12	analysis. An area of particular interest in 2014 was PSEG-LI's development of
13	a new outage management system ("OMS"). When a storm occurs, we
14	monitor PSEG-LI's preparation and its response, and ascertain its compliance
15	with the emergency response plan that it submitted to the DPS. A detailed
16	review of each storm's expenses is also conducted. On a day-to-day basis, we
17	observe PSEG-LI's activities, review incident reports and follow-up actions,
18	and interact with PSEG-LI on numerous matters. During 2014, the Authority
19	assessed PSEG-LI's performance in responding to outages following more
20	than a dozen storms, as well as its response to several high voltage cable

1		failures that did not cause any customer outages. We also requested and
2		received analyses of the cause and duration of distribution outages, even when
3		not a result of a storm, and we assessed PSEG-LI's readiness to meet peak
4		loads and its compliance with federally mandated reliability rules.
5		
6	Q.	WHAT OTHER ACTIVITIES DOES CONTRACT OVERSIGHT
7		PERFORM?
8	A.	Each year we review and make recommendations to the Authority's Board of
9		Trustees regarding PSEG-LI's capital and operating budgets. We also
10		reviewed PSEG-LI's Utility 2.0 Long Range Plan, and will continue to do so
11		annually. In addition, as noted above, we oversee and coordinate PSEG-LI's
12		representation of the Authority in wholesale market stakeholder processes
13		before regulatory bodies, including the PSC, where applicable to utility service
14		on Long Island.
15		
16	Q.	DOES THE AUTHORITY COORDINATE ITS OVERSIGHT WITH
17		DPS?
18	A.	Yes. The Authority's oversight complements that of the DPS, and we consult
19		with the DPS to avoid any unnecessary duplication of effort. While the DPS
20		conducts oversight that is analogous to its role with respect to the investor-

1		owned utilities in New York State, the Authority's oversight is aimed at
2		carrying out its contractual obligations under the OSA, and assuring that its
3		interests as asset owner on behalf of our customers are being served.
4		
5	Q.	HAS THE AUTHORITY REVIEWED PSEG-LI'S PROPOSED 2016-
6		2018 BUDGETS?
7	A.	Yes, we have. Authority staff met with PSEG-LI to review the proposed
8		2016-2018 budgets. We evaluated the proposed spending levels for
9		consistency with actual 2014 and proposed 2015 levels, as well as PSEG-LI's
10		planned change initiatives. Our review was aided by PSEG-LI's responses to
11		approximately 100 questions from Authority staff, and was also coordinated
12		with staff of the DPS Long Island Office. As a general matter, we ascertained
13		that PSEG-LI had reasonable methods for establishing these budgets, and that
14		the budgets were intended to support the maintenance or attainment of
15		performance goals under the OSA. It should be noted that the review of
16		PSEG-LI operating costs is an ongoing process.
17		
18	Q.	WHAT MAJOR INITIATIVES DOES THE AUTHORITY PLAN TO
19		OVERSEE IN 2015?
20		

1	A.	We look forward to reviewing PSEG-LI's development of an Integrated
2		Resource Plan ("IRP") during 2015, which will address many important power
3		supply issues, including integration of renewable and distributed resources,
4		repowering of the former LILCO power plants, and a strategy for restructuring
5		the Authority's power contract portfolio to achieve cost-effective, reliable
6		service. We also expect PSEG-LI to continue to actively participate in the
7		PSC's REV proceeding and to incorporate that vision into its planning and
8		operations. Along with these activities, the Authority will continue to assess
9		PSEG-LI's progress toward achieving the OSA's performance goals, as well
10		as any changes in the performance metrics that may be appropriate to
11		maximize their effectiveness and to focus the metrics on areas that are
12		determined to be important for quality electric service.
13		
14	Q.	YOU MENTIONED THE AUTHORITY'S CONTRACT PORTFOLIO.
15		HAVE THERE BEEN ANY CHANGES IN THOSE CONTRACTS NOW
16		THAT PSEG-LI AND ITS AFFILIATE HAVE ASSUMED
17		RESPONSIBILITY FOR THE AUTHORITY'S POWER SUPPLY?
18	A.	No, but the contracts are now administered and managed by PSEG-LI. In
19		accordance with the OSA, PSEG-LI is now performing all of the functions of
20		the Authority's former Power Markets department, except for decision-making

1		and wholesale market policy responsibilities that remain with the Authority.
2		Accordingly, the Authority retains title to the power it purchases under its
3		power contracts; but PSEG-LI, which is responsible for managing the overall
4		cost of such power, now exercises the Authority's rights under the contracts.
5		
6	Q.	ARE ANY COSTS INCURRED UNDER POWER SUPPLY
7		CONTRACTS INCLUDED IN THE THREE-YEAR RATE PLAN?
8	A.	The cost of the Power Supply Agreement ("PSA") with National Grid
9		Generation LLC ("NGG") is currently collected through delivery rates.
10		
11	Q.	PLEASE EXPLAIN HOW CHARGES UNDER THE PSA CAN VARY?
12	А.	The PSA is a cost-of-service contract, which means that NGG recovers its
12 13	A.	The PSA is a cost-of-service contract, which means that NGG recovers its operating costs plus a return of and on the capital it invests in its plants
12 13 14	A.	The PSA is a cost-of-service contract, which means that NGG recovers its operating costs plus a return of and on the capital it invests in its plants ("Carrying Charges"). NGG's rates are filed with and approved by the Federal
12 13 14 15	A.	The PSA is a cost-of-service contract, which means that NGG recovers its operating costs plus a return of and on the capital it invests in its plants ("Carrying Charges"). NGG's rates are filed with and approved by the Federal Energy Regulatory Commission ("FERC"). While the Authority (through
12 13 14 15 16	A.	The PSA is a cost-of-service contract, which means that NGG recovers its operating costs plus a return of and on the capital it invests in its plants ("Carrying Charges"). NGG's rates are filed with and approved by the Federal Energy Regulatory Commission ("FERC"). While the Authority (through PSEG-LI as its agent) has the right to approve (or reject) NGG's proposed
12 13 14 15 16 17	A.	The PSA is a cost-of-service contract, which means that NGG recovers its operating costs plus a return of and on the capital it invests in its plants ("Carrying Charges"). NGG's rates are filed with and approved by the Federal Energy Regulatory Commission ("FERC"). While the Authority (through PSEG-LI as its agent) has the right to approve (or reject) NGG's proposed capital budgets for its power plants, such investments may be required for
12 13 14 15 16 17 18	A.	The PSA is a cost-of-service contract, which means that NGG recovers its operating costs plus a return of and on the capital it invests in its plants ("Carrying Charges"). NGG's rates are filed with and approved by the Federal Energy Regulatory Commission ("FERC"). While the Authority (through PSEG-LI as its agent) has the right to approve (or reject) NGG's proposed capital budgets for its power plants, such investments may be required for NGG to comply with government regulations and to meet the performance
12 13 14 15 16 17 18 19	A.	The PSA is a cost-of-service contract, which means that NGG recovers its operating costs plus a return of and on the capital it invests in its plants ("Carrying Charges"). NGG's rates are filed with and approved by the Federal Energy Regulatory Commission ("FERC"). While the Authority (through PSEG-LI as its agent) has the right to approve (or reject) NGG's proposed capital budgets for its power plants, such investments may be required for NGG to comply with government regulations and to meet the performance standards set in the PSA. Under the rate formula approved by FERC, capital

1		increased Carrying Charges in the next year. Certain costs, including property
2		taxes, and pension-related expenses, are subject to annual adjustment and can
3		be very difficult to predict. The PSA originated in 1998 as a vehicle for
4		assigning the cost of the former LILCO power plants to the Authority. The
5		original PSA expired in 2013. An amended and restated PSA took effect in
6		2013 and will expire in 2028. However, the Authority has the right to
7		terminate the PSA as early as 2025. During the term of the PSA, the Authority
8		also has the right to direct NGG to repower certain plants or to remove any or
9		all of the plants from the contract in exchange for a lump sum payment to
10		NGG. Such decisions, which will be studied by PSEG-LI in the IRP, can also
11		substantially change the Authority's costs under the PSA.
12		
13	Q.	DOES THIS COMPLETE YOUR PRE-FILED DIRECT TESTIMONY
14		AT THIS TIME?
15	A.	Yes.
16		
17		
17 18		
17 18 19		
17 18 19 20		

1	JUDGE PHILLIPS: I believe that concludes the witnesses and					
2	testimony that were going to be entered today by affidavit; is					
3	that correct?					
4	MR. WEISSMAN: Correct.					
5	JUDGE PHILLIPS: Everyone is nodding. Do we have any other					
6	matters that we need to address before we turn to whether or not					
7	to enter the exhibits that have been marked.					
8	MR. FAVREAU: At this time, do we want to discuss the					
9	exhibits containing the IR responses from PSEG or want to wait					
10	until tomorrow?					
11	JUDGE PHILLIPS: I see a head shaking no in the audience.					
12	MR. FAVREAU: I leave it up to you, Your Honor.					
13	JUDGE PHILLIPS: At this point we would like to address					
14	that tomorrow. I think some people need a break at this point.					
15	Are there any other matters before we turn to whether or not to					
16	admit the exhibits that have been marked to into the record?					
17	No? So, absent any objections, the exhibits that we have marked					
18	today have gone from Exhibit 1 through Exhibit 130. They will					
19	be loaded into the record absent any objection. Objections?					
20	MR. BROCKS: No objection.					
21	JUDGE PHILLIPS: Barring none, we now have our first 130					
22	exhibits. Are there any other matters.					
23	MR. FAVREAU: Your Honor, I'm sorry.					
24	JUDGE PHILLIPS: Use your microphone.					
25	MR. FAVREAU: The exhibits I think that are in question					

1	that are PSEG's IRs they are attempting to introduce themselves,				
2	I think they are listed as 98 and 99, those I think are the same				
3	type of exhibits that we are going to put off until tomorrow.				
4	MR. WEISSMAN: That's correct.				
5	MR. FAVREAU: We will be objecting to those. I don't know				
6	if you want to keep a placeholders or how you want to do that.				
7	JUDGE PHILLIPS: On the basis of what you just stated, you				
8	said it is 98 and 99; is that correct.				
9	MR. FAVREAU: I believe that is what we have; is that				
10	correct?				
11	MR. WEISSMAN: That's correct.				
12	JUDGE PHILLIPS: I will amend my previous statement. We do				
13	have objections to exhibits that were marked as 98 and 99.				
14	Excluding those, the other exhibits will be entered into the				
15	record and we will reserve and discuss tomorrow whether or not				
16	to enter exhibits that have been pre-marked for identification				
17	as 98 and 99; is that correct.				
18	MR. FAVREAU: Correct, Your Honor.				
19	MR. WEISSMAN: Correct.				
20	JUDGE PHILLIPS: Everyone is nodding yes and is saying yes.				
21	Again, any other matters before we adjourn? Any objections to				
22	starting again at 9:30 tomorrow.				
23	Hearing none, I will note for the record that we will				
24	adjourn but we will resume here tomorrow at 9:30 a.m. I thank				
25	everyone for their time.				

1		(Whereupon,	the	Evidentiary	Hearing	was	adjourned,
2	2 : 34	p.m.)					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

$\underline{C} \ \underline{E} \ \underline{R} \ \underline{T} \ \underline{I} \ \underline{F} \ \underline{I} \ \underline{C} \ \underline{A} \ \underline{T} \ \underline{E}$

I, Laurae Cohen, a reporter and Notary Public within and for the State of New York, do hereby certify:

That the witness(es) whose testimony is hereinbefore set forth was duly sworn by me, and the foregoing transcript is a true record of the testimony given by such witness(es).

I further certify that I am not related to any of the parties to this action by blood or marriage, and that I am in no way interested in the outcome of this matter.

Laurae Coh

LAURAE COHEN