STATE OF NEW YORK

PUBLIC SERVICE COMMISSION

Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of Niagara Mohawk Power Corporation for electric service

Case 10-E-0050

EVIDENTIARY HEARING

Thursday, September 9 2010 10:00 a.m.
Public Service Commission 3 Empire Plaza, 3rd Floor Albany, New York

BEFORE: WILLIAM BOUTEILLER, ALJ

APPEARANCES:

FOR THE NYS PUBLIC SERVICE COMMISSION

NYS OFFICE OF GENERAL COUNSEL Three Empire State Plaza Albany, New York 12223-1350 BY: JANE CICERANI, ESQ. DAKIN D. LECAKES, ESQ.

FOR NATIONAL GRID

NATIONAL GRID 300 Erie Boulevard West Syracuse, New York 13292 BY: KERI SWEET ZAVAGLIA, ESQ.

NATIONAL GRID
40 Sylvan Road
Waltham, Massachusetts 02451-1120
BY: PATRIC O'BRIEN, ESQ.
PETER G. FLYNN, ESQ.

1	FOR NATIONAL GRID (Cont'd)
2	CATHERINE NESSER, ESQ. One Metrotech Center
3	Brooklyn, New York
4	CULLEN and DYKMAN, LLP 1101 14th Street, N.W.
5	WASHINGTON, DC 20005 BY: KENNETH T. MALONEY, ESQ.
6	
7	HISCOCK & BARCLAY 50 Beaver Street Albany, New York 12207
8	BY: CARLOS GAVILONDO, ESQ.
9	FOR MULTIPLE INTERVENORS
10	COUCH WHITE, LLP 540 Broadway, P.O. Box 22222
11	Albany, New York 12201 BY: MICHAEL B. MAGER, ESQ.
12	S. JAY GOODMAN, ESQ.
13	FOR NEW YORK POWER AUTHORITY
14	NEW YORK POWER AUTHORITY 123 Main Street
15	White Plains, New York 10601 BY: EILEEN FLYNN, ESQ.
16	FOR NEW YORK STATE CONSUMER PROTECTION BOARD
17	NEW YORK STATE CONSUMER PROTECTION BOARD
18	5 Empire Plaza, Suite 2100 Albany, New York
19	BY: JOHN WALTERS, ESQ.
20	FOR IBEW LOCAL 97
21	KODA CONSULTING, INC. 409 Main Street
22	Ridgefield, CT 06877 BY: RICHARD J. KODA
23	
24	ALSO PRESENT CHRISTOPHER SMITH, ESQ.
25	CHRISTOFHER SMITH, ESQ.

1	ALJ BOUTEILLER: Let my call this case.
2	This is case number 10-E-0050. This is the
3	Commission's proceeding on its own motion concerning
4	National Grid and the rates being proposed for the
5	Niagara Mohawk Power Company, its electric rates.
6	We had appearances last week. We don't need
7	to make any new appearances for people who have
8	previously provided their appearance, but if you were
9	not in attendance during the hearing last week we can
10	note your appearance now. Mr. Koda.
11	MR. KODA: Richard J. Koda of Koda
12	Consulting, Inc., on behalf of the IBEW Local 97.
13	ALJ BOUTEILLER: Thank you, Mr. Koda. Is
14	there anyone else who needs to make an appearance in
15	this case?
16	MS. NESSER: Your Honor, for the company,
17	Carlos Gavilondo.
18	ALJ BOUTEILLER: Thank you for your
19	additional appearance.
20	Before we turn to our first witness today,
21	let's take care of any housekeeping and preliminary
22	matters that we need to address. Let's turn first to
23	Mr. Koda. While off the record you indicated there
24	is no cross-examination for your witness. You've
25	polled the parties, and they've told you that.

1	MR. KODA: That's my understanding, Your
2	Honor.
3	ALJ BOUTEILLER: Okay. With that
4	understanding and with the parties present in the
5	room, I'm prepared to receive your witness by
6	affidavit, so and I know you've provided the
7	testimony and there's been no changes to your
8	testimony since the time it was pre-filed?
9	MR. KODA: That's correct.
10	ALJ BOUTEILLER: Okay. I know you provided
11	a digital copy of your testimony to the reporter. I
12	have your pre-filed testimony, so that will suffice
13	for me as well. I understand that you have an
14	affidavit executed?
15	MR. KODA: I do.
16	ALJ BOUTEILLER: Okay. Can you provide me
17	one for the record up here? If there's any party in
18	attendance who wants a copy I know you have some
19	limited copies available.
20	MR. KODA: This is the original, Your Honor.
21	ALJ BOUTEILLER: Can you afford a copy?
22	MR. KODA: And a copy.
23	ALJ BOUTEILLER: Okay, thank you.
24	MR. KODA: You're welcome.
25	ALJ BOUTEILLER: Can you distribute those to

1	anyone in the room who cares to have for their
2	records a copy of your affidavit? So to begin with
3	we will mark for identification as Exhibit Number
4	325 did I get that correct?
5	MR. O'BRIEN: That's correct.
6	ALJ BOUTEILLER: as Exhibit 325, the
7	affidavit offered by Mr. Koda for his witness whose
8	name I'll spell, S-k-e-r-p-o-n.
9	(Exhibit No. 325 was marked for
10	identification.)
11	ALJ BOUTEILLER: Absent any objection from
12	the parties present in the room, I will instruct the
13	reporter to copy his testimony into the record as if
14	it were given orally today.
15	(The referenced testimony is inserted into
16	the record as follows.)
17	
18	
19	
20	
21	
22	
23	
24	
25	

STATE OF NEW YORK PUBLIC SERVICE COMMISSION

PROCEEDING ON MOTION OF THE COMMISSION AS TO THE RATES, CHARGES, RULES AND REGULATIONS OF NIAGARA MOHAWK POWER CORPORATION FOR ELECTRIC SERVICE

CASE NO. 10-E-0050

DIRECT TESTIMONY OF

THEODORE SKERPON

ON BEHALF OF

INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS, LOCAL 97

I. STATEMENT OF QUALIFICATIONS

2 Q. WHAT IS YOUR NAME AND ADDRESS?

- 3 A. My name is Theodore Skerpon and my business address is 713 Erie Boulevard West,
- 4 Syracuse, New York 13204.

1

21

22

23

24

5 O. BY WHOM ARE YOU EMPLOYED?

- 6 A. I am the President and Business Manager of International Brotherhood of Electrical
- Workers ("IBEW"), Local 97, AFL-CIO ("Local 97" or "Union"). I had been
- 8 employed by Niagara Mohawk Power Corporation, Inc. ("Niagara Mohawk") for
- 9 over twenty-four years. Since 1986, my job classification had reflected my work
- within various departments; my most recent classification was Customer Service
- 11 Representative. I have held positions within the Union since 1992 -- first as Steward
- and then as Chief Steward from 1995 to 1997. In 1997, I was appointed to Local 97's
- Executive Board. In 2004, I was appointed to the position of Treasurer of Local 97.
- On July 13, 2010, I was sworn in as President/Business Manager of IBEW, Local 97.

15 Q. WHAT IS THE NATURE OF YOUR WORK IN YOUR CURRENT POSITION WITH LOCAL 97?

17 A. As Business Manager of Local 97, I have primary responsibility for directing and

18 coordinating Union affairs throughout National Grid's entire area of what was

Niagara Mohawk's operations. Local 97, with offices in Syracuse, Buffalo, Albany

and Oswego, represents approximately 3,200 men and women who are directly

involved in operating the electric and gas, transmission and distribution system of

National Grid in the New York jurisdiction. Local 97 also represents over 1,500

workers presently employed in the nuclear, fossil, hydro, gas, highway and clerical

units of other utility and non-utility companies in New York. Without the dedicated

25 efforts of Local 97 members, the quality electric and gas service experienced today

by customers throughout Upstate New York would not be as high as it is.

With regard to the electric service rate filing made by Niagara Mohawk Power

Corporation, d/b/a National Grid ("Niagara Mohawk" or "Company"), while the

interests of ratepayers, commercial, shareholder and others are represented by a

variety of parties, no party other than Local 97 represents the interests of the rank and

file workers employed by Niagara Mohawk.

7 II. SCOPE AND PURPOSE OF TESTIMONY

13

8 Q. WHAT IS THE PURPOSE OF THIS TESTIMONY?

9 A. The purpose of this testimony is to present to the Commission the reasons why Local
10 97 believes that the full request of the Company for its revenue requirement in this
11 proceeding should be approved by the Commission.

12 Q. WHAT DOCUMENTS DID YOU REVIEW AND EVALUATE IN

PREPARING YOUR PREFILED DIRECT TESTIMONY?

14 A. In preparing this testimony, I reviewed certain direct testimony and exhibits filed by
15 the Company and its responses to various interrogatories of the parties in this
16 proceeding, specifically those involving employees and their ability to perform their
17 work to provide safe and adequate electric service to Niagara Mohawk customers, as
18 well as a variety of other documents related to the reliability of the Company's
19 operations and provision of electric service.

1	Q.	WAS THIS TESTIMONY PREPARED BY YOU OR UNDER YOUR DIRECT
2		SUPERVISION?
3	A.	Yes, it was.
4	III.	CONCLUSIONS AND RECOMMENDATIONS
5	Q.	WHAT CONCLUSIONS AND RECOMMENDATIONS HAVE YOU
6		REACHED REGARDING AMOUNTS FILED BY THE COMPANY IN THIS
7		PROCEEDING PERTAINING TO CAPITAL EXPENDITURES, AS WELL AS
8		OPERATIONS AND MAINTENANCE PROPOSALS?

Based on my review of the Company's filing, I conclude that the amounts the

Company has requested in its filing for construction and operations expenditures are

appropriate to maintain and continue to improve the operation and reliability of the

Company. I recommend that the Commission adopt the requested revenue

requirement proposal of the Company, especially in both areas of construction and

operations and maintenance expenditures.

- 1 2 Q. WHAT IS THE BASIS FOR YOUR CONCLUSION THAT THE LEVEL OF 3 EXPENDITURES REQUESTED BY THE COMPANY IN THIS 4 PROCEEDING SHOULD BE ADOPTED BY THE COMMISSION IN THEIR 5 **ENTIRETY?** 6 Α. Given that the Company serves approximately 1.59 million customers across upstate 7 New York in territories including metropolitan areas, such as the cities of Albany, 8 Buffalo and Syracuse as well as many rural areas in northern New York and the 9 Adirondacks, it is important that the electric service provided to customers in these 10 areas be adequate, safe and reliable. In the period 2005 through 2007, the Company's reliability performance was 11 12 not up to what the Commission required and what customers in the Company's 13 territories have come to expect. The Company missed both its reliability performance 14 mechanism targets for System Average Interruption Frequency Index ("SAIFI") 15 and Customer Average Interruption Duration Index ("CAIDI") in 2005 and also 16 missed the SAIFI target in both 2006 and 2007. This unfortunate performance began 17 to turn around dramatically in 2008 and 2009 when the Company made both its
- 19 spending and improved performance.

18

SAIFI and CAIDI targets due in part to increased capital investment, operational

In my opinion, a factor that contributed to the improved performance was an agreement that was entered into in late May 2007 between Local 97 and the Company regarding transmission line and substation construction services. As a result of this agreement, two new and separate work groups were established entitled Transmission Line Services and Substation Construction Services. These work groups were initially comprised of represented workers who applied for at least ten posted Line Mechanic positions per Division (Central, Eastern and Western) for transmission line work, and at least ten Electrician positions per division for substation construction work. In addition, it was agreed that Fleet Technician positions may be posted to perform vehicle and equipment maintenance. These positions have divisional responsibilities and can be assigned to work anywhere within the Division. In addition, crews may also be assigned to work outside their Division or in other Divisions by mutual agreement. The new structure and added employees improved electric service.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23 24

As noted in the Company's Petition for Authorization to Defer Electric Transmission and Distribution Investment Costs, recent expenditures by the Company have exceeded what was originally thought to be adequate in the context of the Company's Merger Petition back in 2001:

National Grid's spending both on T&D capital investments and on T&D O&M expenses during 2009 substantially exceeds the annual levels projected in the forecast underlying the Merger Rate Plan rates. The Merger Rate Plan projected T&D capital expenditures during 2009 of \$144.5 million and T&D-related O&M expenses during 2009 of \$193 million. In contrast, National Grid invested a total of \$313.1 million in

¹ National Grid USA and Niagara Mohawk Merger Petition and Joint Proposal, Financial Forecast and Supporting Workpapers, Volume II, January 17, 2001, pp.377-378 updated by IR-RAV 27 that includes

T&D capital projects de	uring 2009	and spent \$	\$306.2 million	on T&D-
related O&M. ²				

Also, as noted in the Company's 2010 Electric Service Reliability Report to the Commission, the Company's internal field and construction workforce levels increased from 2007 to 2008, and were relatively stable from 2008 to 2009.³

The Company has also recently undertaken a comprehensive Transformation Initiative ("TI"). ⁴ The purpose of the TI is to improve customer service, while promoting increased safety, network reliability and performance, and efficiency. As a result of the TI, the Company has identified opportunities to increase existing field force productivity. The Company, together with IBEW Local 97, has established an internal Distribution Line Construction ("DLC") workforce pilot to undertake construction of Distribution Line projects on a dedicated basis in order to make most effective use of the capacity created by TI productivity improvements.

The DLC pilot is discussed in testimony submitted by the Company in this rate case.⁵ It was undertaken to create a framework for in-house crews to perform distribution construction line work typically performed by contractors in the past. Pilot development began in October 2009, with pilot implementation targeted for April 1, 2010 through April 1, 2011. The pilot actually started on April 5, 2010. This initiative provides new construction capabilities that enable an internal workforce,

AFUDC and O&M expenditures per Exhibit 1 based on the MJP.

⁵ ibid. at 150-151.

1 2

² Case 07-E-1533, Petition of Niagara Mohawk Power Corporation for Authorization to Defer Electric Transmission and Distribution Investment Costs, May 28, 2010 at Executive Summary I-5.

³ 2010 National Grid, Niagara Mohawk Electric Service Reliability Report, at B-7 - B-9.

⁴ Case 10-E-0050, Proceeding on the Motion of the Commission as to the Rates, Charges, Rules and Regulations of Niagara Mohawk Power Corporation d/b/a National Grid for Electric Service, *Testimony of the Infrastructure and Operations Panel*, Book 26, at 43-49.

Case 10-E-0050 Theodore Skerpon

dedicated to capital construction, to perform a larger portion of the infrastructure investment program while providing for greater visibility of and comparison to the value of work delivered by the external third party vendors. This also enables benchmarking opportunities to develop further value.

It is my understanding and belief that these appropriate spending increases and initiatives have gone a long way to improving customer service and reliability. It is also important to note that through its provision of safe, adequate and reliable service, Niagara Mohawk supports a significant portion of the overall economy in upstate New York. The dollars expended on management and non-management payrolls, as well as the Company's expenditures for capital construction and operations and maintenance projects which enable electric services to be maintained and improved, contribute to the overall well-being of the upstate economy.

Q. PLEASE SUMMARIZE YOUR CONCLUSIONS AND

RECOMMENDATIONS.

A. Based on my review of the Company's filing and my experience in the field operations of Niagara Mohawk, I conclude that the amount of capital and operations and maintenance expenditures the Company has requested in its filing will continue to support and improve the Company's provision of safe, adequate and reliable electric service for its New York customers by funding adequate levels of internal and external labor elements that would perform the necessary activities to keep the electric system in proper, and increasingly improving, working order.

Q. DOES THIS CONCLUDE YOUR PREFILED TESTIMONY?

A. Yes, it does.

1	ALJ BOUTEILLER: So we now have your
2	affidavit in the record. We also have in the record
3	your pre-filed testimony. Is there anything further,
4	Mr. Koda, that we need to accomplish with your
5	witness?
6	MR. KODA: No, Your Honor.
7	ALJ BOUTEILLER: Okay. What other
8	preliminaries or initial matters can we take care of
9	at this point?
10	MS. NESSER: Your Honor, yesterday the
11	company filed a motion for a Protective Order asking
12	that certain information be redacted from the public
13	record in both the Staff Accounting Panel Number 5
14	and Mr. Sloey's AFS-1S. Your Honor hasn't had an
15	opportunity to rule on that motion, but I see that
16	staff counsel can speak for herself. I understand
17	that she will not oppose it. And we have taken the
18	liberty of redacting the information from the
19	exhibits that we've provided to Your Honor.
20	ALJ BOUTEILLER: Okay. Let's go off the
21	record.
22	(Discussion off the record.)
23	ALJ BOUTEILLER: Can I hear from staff since
24	you've been referred to?
25	MS. CICERANI: Yes, Your Honor. Ms. Nesser

is correct that staff has no objection. In fact, we support the motion.

2.

2.4

ALJ BOUTEILLER: Thank you very much. I note that they are proposing a reduction from a staff-provided exhibit in the case, so that's why it's necessary to hear from you. Does any other party care to address the motion or my taking it up at this time? Okay.

I will rule from the Bench. I have been previously contacted by counsel for the company and notified in advance of the submission of the motion which came in late yesterday afternoon. In anticipation of the motion I was asked to consider whether or not we could modify in the document management system that we have here the pre-filings that were provided by the company and by staff. So to set the stage for this motion I did, in fact, contact our keepers of the DMM system, and yesterday we did accomplish including in the DMM system the redacted versions of the documents that you've provided. I did that based upon a conversation I had with company counsel where I got my first understanding of what the motion is about.

The motion deals with the given names for certain employee children who are minors. It also

deals with the specific identification of the schools, educational institutions that they are attending. And in one instance it deals with certain medical information of a current employee which was contained in information provided in response to discovery both in Massachusetts and here in New York.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

2.4

25

Is my characterization of the information correct, Counsel?

MS. NESSER: It is, Your Honor.

ALJ BOUTEILLER: Okay. Unless some party can convince me otherwise that the public interest and the consideration of these issues in the case would require that level of detail, I'm prepared to rule that this information is, in fact, of a personal nature, probably of no relevance or material import for purposes of the proceeding, and it would be important from my perspective to maintain the privacy of minor children in their educational institutions and an individual who cares not to make public his or her medical condition. So I'm prepared to rule at this time from the Bench that that information is protected. Our record doesn't require or need that information at that level of detail. If at some time in this proceeding somebody were to suggest that we need on the record specific identification of minor

1	children or specific identification of some
2	educational institution, we can take that matter up
3	at the time that some party seeks to elicit that
4	information in the record, but at this point I'm
5	ruling as a general matter that that information is
6	private and will not be included in the record.
7	MS. NESSER: Thank you, Your Honor.
8	ALJ BOUTEILLER: Is there anything further
9	with respect to your motion I need to accomplish?
10	MS. NESSER: No, there isn't.
11	ALJ BOUTEILLER: Any further preliminaries
12	before we take up the first witness for today? Very
13	good start. In ten minutes we've accomplished two
14	major things.
15	Now let me turn to the company counsel and
16	ask you to call your first witness for today.
17	MS. SWEET ZAVAGLIA: Thank you, Your Honor.
18	Company calls Andrew Sloey.
19	ALJ BOUTEILLER: Mr. Sloey, please rise.
20	ANDREW F. SLOEY,
21	having been first duly sworn by the notary public,
22	was examined and testified as follows:
23	ALJ BOUTEILLER: Please be seated. For our
24	official purposes I need to have you state both your
25	name and your business address for our record.

- 1 THE WITNESS: My name is Andrew Sloey. My
- business is One Metrotech Center, Brooklyn, New York.
- 3 ALJ BOUTEILLER: Thank you very much. At
- 4 this point we turn to your counsel who will assist us
- 5 in getting your pre-filed documents into the record.
- MS. SWEET ZAVAGLIA: Thank you, Your Honor.
- 7 DIRECT EXAMINATION
- 8 BY MS. SWEET ZAVAGLIA:
- 9 Q Mr. Sloey, do you have before you a document entitled
- 10 "The Direct Testimony of Andrew Sloey" dated January 29,
- 11 2010, consisting of a cover sheet and 26 pages?
- 12 A I do.
- 13 Q Do you also have before you a document entitled "The
- 14 Supplemental Testimony of Andrew Sloey" dated May 3, 2010,
- consisting of a cover sheet and six pages?
- 16 A I think I do.
- 17 Q Do you have further before you a copy of a document
- 18 entitled "The Rebuttal Testimony of Andrew Sloey" dated
- 19 August 6, 2010, consisting of a cover sheet and 68 pages?
- 20 A I do.
- 21 Q Do you have any corrections to that testimony?
- 22 A Yes, we have two corrections.
- 23 0 What would those corrections be?
- 24 A On page 4, line 20, we need to change the title of
- 25 the exhibit to Rate Year/Historic Year Comparison.

1	ALJ BOUTEILLER: Okay.
2	MS. CICERANI: Which testimony?
3	THE WITNESS: Apologies. The rebuttal
4	filing dated August 6, page 4, row 20. And we would
5	just change the title of that exhibit from "Rate
6	Year" to "Rate Year To Historic Year Comparison."
7	ALJ BOUTEILLER: Let's go off the record.
8	(Discussion off the record.)
9	ALJ BOUTEILLER: Off the record I just was
10	able to follow you precisely to the exact location,
11	and now I understand the nature of your change. Can
12	you tell us what your next change is?
13	THE WITNESS: Certainly. Same testimony,
14	rebuttal testimony, page 45 of 68. It's row 10. And
15	the percentage that's sort of like a third of the way
16	along the line, currently it says "24.52." That
17	should say "23.52."
18	BY MS. SWEET ZAVAGLIA:
19	Q Mr. Sloey, do you finally have before you a document
20	entitled "The Supplemental Testimony of Andrew Sloey"
21	dated August 30, 2010, consisting of a cover sheet and
22	four pages?
23	A Yes, I do.
24	Q If I were to ask you the questions contained in the
25	documents before you today, would your answers be the

2	A	Correct.
3	Q	Do you adopt those documents as your testimony in the
4	proc	eeding?
5	A	Yes, I do.
6	Q	Do you also sponsor exhibits pre-marked for
7	iden	tification Number 54 through 80?
8	A	Yes.
9	Q	Were those exhibits prepared by you or under your
10	dire	ction and supervision?
11	А	They were.
12		MS. SWEET ZAVAGLIA: Your Honor, the company
13		offers Mr. Sloey for cross.
14		ALJ BOUTEILLER: And you've provided the
15		reporter the pre-filed testimony of this witness in
16		digital form?
17		MS. SWEET ZAVAGLIA: Either have been or
18		will be on PDF.
19		ALJ BOUTEILLER: Off the record.
20		(Discussion off the record.)
21		ALJ BOUTEILLER: The pre-filed information
22		in this case is being provided to the reporter in
23		digital form. She has previously received the bulk
24		of the pre-filing here, but, however, you've just
25		made two corrections on the record, and those

1 same?

1	corrections have not been provided to the reporter in
2	her digital form. So with knowing that, I will
3	instruct the reporter to copy into the record as if
4	given orally today the pre-filed testimony of this
5	witness with the corrections that you've just
6	identified for our record.
7	(The referenced testimony is inserted into
8	the record as follows.)
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

Before the Public Service Commission

NIAGARA MOHAWK POWER CORPORATION d/b/a NATIONAL GRID

Direct Testimony

<u>of</u>

Andrew F. Sloey

Chief Financial Officer, US Financial Services

Dated: January 29, 2010

1	Q.	Please state your name and business address.
2	A.	My name is Andrew F. Sloey. My business address is One MetroTech
3		Center, Brooklyn, NY 11201.
4		
5	Q.	By whom are you employed and in what capacity?
6	A.	I am employed by National Grid USA Service Company ("National Grid
7		Service Company") as Chief Financial Officer, US Financial Services.
8		
9	Q.	Please briefly describe your educational background.
10	A.	I hold a Bachelor of Business degree from Kuringai College (now the
11		University of Technology, Sydney) and I am a fellow of CPA Australia.
12		
13	Q.	What is your professional background?
14	A.	I am presently CFO of the US Financial Services group for National Grid
15		plc ("National Grid") businesses in the United States. I relocated to the
16		US in 2007 to integrate the accounting, financial reporting and planning
17		functions of National Grid's existing US business (consisting of utility
18		companies in Upstate New York, Massachusetts, Rhode Island and New
19		Hampshire) with its recently acquired subsidiary, KeySpan Corporation
20		(serving customers in Brooklyn, Long Island, Massachusetts and New
21		Hampshire). Prior to this, I was based in the United Kingdom where I was

responsible for consolidating the accounting, financial reporting and planning operation within a Shared Services Organization established to support the UK operations. I joined National Grid in August 2004 when National Grid acquired the UK subsidiary of Crown Castle International, an owner/operator of infrastructure for the cellular network and television/radio broadcast operators in the UK. At the time that Crown Castle UK was acquired, I was Finance Director of that business, having relocated from Crown Castle's Australian subsidiary in 2002 where I served as the General Manager of Finance & Administration for Crown Castle's business in Australia. Prior to Crown Castle, I spent just under 20 years with the multi-national consumer goods company, Reckitt & Colman, where I served in a number of senior finance and planning roles. What is the purpose of your testimony? The purpose of my testimony is to describe the Service Company structure

13

14

15

16

17

18

19

20

21

A.

12

1

2

3

4

5

6

7

8

9

10

11

Q.

used by National Grid in the US, to explain the charges that have been assessed to and incurred by Niagara Mohawk Power Corporation d/b/a National Grid ("Niagara Mohawk") during the Historical Test Year ending September 30, 2009 ("Historical Test Year" or "Test Year"), and the bases upon which those charges have been assessed and incurred. I also discuss the Transaction Delivery Center and the transition of services to Syracuse.

1	Q.	How is your testimony organized?
2	A.	In the first section I discuss the structure of the Service Companies and
3		their contracts with Niagara Mohawk. In the second section I discuss
4		Service Company accounting and include a description of the types of
5		charges assessed by the Service Companies, as well as a summary of the
6		Historical Test Year charges in total and the specific charges assessed to
7		Niagara Mohawk's electric operations. In the third section I describe the
8		Transaction Delivery Center and the transition of services to Syracuse.
9		
10	Q.	Do you sponsor any exhibits as part of your testimony?
11	A.	Yes. I sponsor the following 17 exhibits, which were prepared or
12		compiled by me or under my supervision and direction:
13		(i) Exhibit (AFS-1): Service Company and Affiliate Company
14		structure;
15		(ii) Exhibit (AFS-2): National Grid USA Service Company Inc.
16		Agreement with Niagara Mohawk;
17		(iii) Exhibit (AFS-3): National Grid Corporate Services LLC
18		Agreement with Niagara Mohawk including 2009 and 2010
19		Service Requests;

1	(iv) Exhibit (AFS-4): National Grid Engineering & Survey, Inc.
2	Agreement with Niagara Mohawk including 2009 and 2010
3	Service Requests;
4	(v) Exhibit (AFS-5): National Grid Utilities Services LLC Agreement
5	with Niagara Mohawk including 2009 and 2010 Service Requests;
6	(vi) Exhibit (AFS-6): Cost Allocation Policies & Procedures Manual
7	for legacy National Grid;
8	(vii) Exhibit (AFS-7): Cost Allocation Policies & Procedures Manual
9	for legacy KeySpan Corporation;
10	(viii) Exhibit (AFS-8): National Grid USA Cost Allocation Training
11	Presentation Deck;
12	(ix) Exhibit (AFS-9): Example of Service Company Cost Allocation
13	Methodology;
14	(x) Exhibit (AFS-10): National Grid USA Service Company, Inc.
15	Expenditures by Expense Type/Total Charges for the Year Ended
16	September 30, 2009;
17	(xi) Exhibit (AFS-11): National Grid USA Service Company, Inc.
18	Expenditures by Charged Entity/Total Charges for the Year Ended
19	September 30, 2009;

1		(xii) Exhibit (AFS-12): KeySpan Service Companies Expenditures
2		Allocated to Niagara Mohawk for the Year Ended September 30,
3		2009;
4		(xiii) Exhibit (AFS-13): Cost Allocations Driver Summary - Legacy
5		National Grid and KeySpan Service Companies;
6		(xiv) Exhibit (AFS-14): FERC Form 60 National Grid USA Service
7		Company Inc.;
8		(xv) Exhibit (AFS-15): FERC Form 60 KeySpan Corporate Services
9		LLC;
10		(xvi) Exhibit (AFS-16): FERC Form 60 KeySpan Engineering &
11		Survey, Inc.; and
12		(xvii) Exhibit (AFS-17): FERC Form 60 KeySpan Utilities Services
13		LLC.
14		
15	Q.	How are the Service Companies' costs reflected in Niagara Mohawk's
16		rate filing in this proceeding?
17	A.	The Service Company data I sponsor for the Historical Test Year is used
18		as the starting point for projecting Niagara Mohawk's Service Company
19		costs in the Rate Years ending December 31, 2011, December 31, 2012
20		and December 31, 2013 (collectively, the "Rate Years"). The projection

1		of these costs from the Historical Test Year through the end of the Rate
2		Years is supported by the Revenue Requirements Panel.
3		
4		Service Company Structure
5	Q.	Please provide a brief description of National Grid's Service
6		Company structure.
7	A.	In the United States, National Grid is a multi-state utility holding
8		company, with state-jurisdictional operating affiliates in New York,
9		Massachusetts, New Hampshire and Rhode Island. National Grid uses
10		mutual service companies ("Service Companies") in order to enable the
11		state operating affiliates, including Niagara Mohawk, to deliver high
12		quality and efficient service to customers. As shown in Exhibit (AFS-
13		1), as of September 30, 2009, there are four Service Companies in
14		operation at National Grid. The Service Companies provide services to
15		the National Grid regulated utilities as shown in Exhibit (AFS-1) and
16		the unregulated companies (collectively, "Affiliate Companies").
17		National Grid Service Company is the only legacy National Grid service
18		company and provides a full range of support services including corporate
19		functions such as accounting, auditing, employee, tax, treasury and
20		information services as well as construction, engineering and power
21		supply services and has approximately 2,800 employees. National Grid

Service Company provides services to all the regulated utilities as well as
the unregulated companies owned by National Grid USA, Inc. ("National
Grid USA"). In contrast, the three legacy KeySpan Corporation Service
Companies have been organized to provide separate areas of service that
are, in the aggregate, comparable to the full range of services provided by
National Grid Service Company. The three legacy KeySpan Corporation
Service Companies are: (i) National Grid Corporate Services LLC, with
approximately 3,400 employees, (ii) National Grid Engineering & Survey,
Inc., with approximately 650 employees and (iii) National Grid Utilities
Services LLC, with approximately 150 employees (collectively the
"KeySpan Service Companies" and, collectively with National Grid
Service Company, the "Service Companies"). National Grid Corporate
Services provides traditional corporate and administrative services,
National Grid Engineering & Survey provides engineering and surveying
services and National Grid Utility Services provides gas and electric
transmission and distribution systems planning, marketing and gas supply
planning and procurement services. Prior to the repeal of the Public
Utility Holding Company Act of 1935 ("PUHCA"), National Grid USA
and KeySpan Corporation were subject to the jurisdiction of the Securities
Exchange Commission ("SEC") under PUHCA. As part of the regulatory
provisions of PUHCA, the SEC regulated various transactions among

1		affiliates within a holding company structure. Allocation methodologies
2		approved by the SEC continue to be used to allocate Service Company
3		costs to affiliates.
4		
5	Q.	What agreements for services does Niagara Mohawk have with the
6		Service Companies?
7	A.	Niagara Mohawk contracts with National Grid USA Service Company,
8		Inc. for services. Attached as Exhibit (AFS-2) is the Service Company
9		Agreement between Niagara Mohawk and National Grid USA Service
10		Company, Inc. Niagara Mohawk also contracts with the KeySpan Service
11		Companies for services. Attached as Exhibit (AFS-3), Exhibit
12		(AFS-4) and Exhibit (AFS-5) are the Service Company Agreements
13		between Niagara Mohawk and the KeySpan Service Companies.
14		
15	Q.	What types of services are provided by the Service Companies?
16	A.	The Service Company Agreements included as Exhibit (AFS-2),
17		Exhibit (AFS-3), Exhibit (AFS-4) and Exhibit (AFS-5) provide a
18		description of the services provided. Further description of the services
19		provided is also included in Appendix B of the legacy National Grid Cost
20		Allocation Policies & Procedures Manual provided in Exhibit (AFS-6)
21		and Appendix A of the legacy KeySpan Cost Allocation Policies &

1		Procedures Manual provided in Exhibit (AFS-7). In general, the
2		services provided are those typically required to operate a gas distribution
3		or electric transmission or distribution utility and include, for example,
4		accounting, construction, engineering, information systems, rates and
5		regulatory support and treasury services. The costs of these services
6		include payroll, outside vendors, materials, personnel expenses and
7		computer expenses, to name a few.
8		
9	Q.	Do the Service Company Agreements with Niagara Mohawk
10		discussed above establish performance thresholds and levels of
11		services?
12	A.	No. The Service Company Agreements form a contract between the
13		Service Companies and Niagara Mohawk as to what type of services will
14		be performed and the basis upon which the cost of delivering these
15		services is to be charged.
16		
17	Q.	Is National Grid developing agreements to define the level of services
18		provided by the Service Companies to the Affiliate Companies?
19	A.	Yes. Consistent with the recommendations set forth in the Niagara
20		Mohawk Management Audit, National Grid is developing Service Level
21		Agreements between the US Electric Transmission, Electric Distribution

1		and Gas lines of business ("Lines of Business") and organizational groups
2		and departments that provide shared services to these Lines of Business
3		("Organizations").
4		
5	Q.	What is the purpose of the Service Level Agreements?
6	A.	The Service Level Agreements are separate from the Service Company
7		contracts and are intended to focus on the efficiency and quality aspects of
8		the services being provided to the Affiliate Companies and to establish
9		clear performance measures.
10		
11	Q.	Please explain the process for developing the Service Level
12		Agreements.
13	A.	National Grid has created a two-tier approach for developing the Service
14		Level Agreements. The first tier incorporates the Master Service Level
15		Agreements ("MSLA") that generally describe each Organization's annual
16		objectives, services provided, key dependencies, costs, performance
17		reporting and commitments to continuous improvement. The second tier
18		incorporates the Functional Service Level Agreements. These agreements
19		are more detailed and establish the key performance measures that will
20		measure efficiency and quality.
21		

1	Q.	When does National Grid anticipate that the Master Service Level
2		Agreements and Functional Service Level Agreements will be
3		executed?
4	A.	National Grid is in the process of developing Service Level Agreements
5		that cover the functions that deliver services across the Lines of Business.
6		The review and completion of these Service Level Agreements may take
7		up to a year. As explained in Niagara Mohawk's response to the
8		Management Audit Report, the Company will file the final agreements
9		with the Commission. Further detail on the Company's implementation
10		efforts relative to Service Level Agreements is set forth in the Company's
11		implementation plan being submitted in Case 08-E-0827. A copy of that
12		plan is also included with Mr. Zschokke's testimony in this rate case.
13		
14	Q.	Does National Grid's Service Company structure benefit customers of
15		Niagara Mohawk?
16	A.	Yes. The Service Company framework creates efficiencies of scale for
17		Niagara Mohawk and all other Affiliate Companies. By establishing a
18		centralized entity to provide service to designated affiliates, National Grid
19		is able to implement common corporate policies, streamlined business
20		processes and integrated information services, all of which enhance the
21		cost effectiveness of the services provided. National Grid is able to obtain

1		advantages in purchasing certain goods and services from third parties
2		because of the volume of purchases made by the Service Companies. The
3		Service Company framework provides for the consolidation and
4		integration of common systems and the assignment of costs to the Affiliate
5		Companies that are supported by each Service Company.
6		
7	Q.	Do the Historical Test Year Service Company costs reflect the impact
8		of the completed acquisition of KeySpan Corporation by National
9		Grid?
10	A.	The acquisition of KeySpan Corporation by National Grid was completed
11		in August 2007. Since that time there has been a progressive
12		consolidation of several Service Company functions across legacy
13		National Grid and KeySpan Corporation. One of the key strategies
14		associated with the KeySpan Corporation acquisition was the realization
15		of synergy savings for the benefit of customers and shareholders.
16		Significant progress and synergies have been achieved to date through the
17		consolidation of Service Company departments and locations. However,
18		integration to a single set of processes through implementation of a
19		common platform is required to fully realize the synergy savings
20		contemplated at the time of the KeySpan merger.
21		

Does National Grid intend to combine or reorganize the existing

2		Service Companies?
3	A.	Yes. As explained in Appendix 4 of the National Grid/KeySpan Merger
4		and Gas Revenue Joint Proposal, National Grid USA intends to combine
5		or reorganize the existing Service Companies. 1 To date, none of the
6		Service Companies have been restructured; however, National Grid USA
7		remains committed to consolidating three of its four Service Companies
8		(excluding National Grid Engineering and Survey, Inc.) once any
9		necessary regulatory approvals are obtained and the Companies can be
10		unified on a common financial systems platform with common allocation
11		methodologies. The Service Companies will propose a new consistent

allocation methodology. To the extent that costs increase or decrease to

Niagara Mohawk as a result of this change, Niagara Mohawk will reflect

the credit or debit to customers in a deferral account as identified in the

testimony of the Revenue Requirement Panel.

16

15

12

13

14

1

Q.

¹ Case No. 06-M-0878 et,al, *Joint Petition of National Grid PLC and KeySpan Corporation for Approval of Stock Acquisition and other Regulatory Authorizations, Merger and Gas Revenue Requirement Joint Proposal* dated July 6, 2007. Also see, *Order Authorizing Acquisition Subject to Conditions and Making Some Revenue Requirement Determinations for KeySpan Energy Delivery New York and KeySpan Energy Delivery Long Island* (Issued and Effective September 17, 2007). The recently released management audit report in Case 08-E-0827acknowledges the initiative to consolidate the Service Companies and recommends continuation of that effort.

1	Q.	Is the Company proposing any changes to the current allocation
2		methodologies in this proceeding?
3	A.	No. At this time, the platforms and systems needed to facilitate the
4		consolidation have not been implemented. Until the Service Companies
5		are consolidated, we propose to maintain the current cost allocation
6		methodologies.
7		
8	Q.	Will the scope of services provided by the Service Company to
9		Niagara Mohawk change between now and the end of the Rate Years?
10	A.	National Grid plans to continue to provide Niagara Mohawk the same
11		Service Company services that were provided in the Historical Test Year
12		through the end of the Rate Years.
13		
14		Service Company Charges
15	Q.	Please describe how National Grid Service Company charges for its
16		services.
17	A.	National Grid Service Company charges are either directly charged to
18		individual Affiliate Companies (where a service is performed for the
19		benefit of a single Affiliate Company) or, when the service performed is
20		for the benefit of multiple Affiliate Companies, charges are aggregated
21		into Service Company "bill pools" and allocated to each Affiliate

Company that benefits from the service using approved allocation methodologies. As shown in Exhibit __ (AFS-13), the cost allocation methodologies are determined by cost drivers (for example the number of employees in each company or the number of customers) to ensure that each Affiliate Company receives its appropriate share of the cost. Bill pools have been established to accommodate different types of expense that are incurred by the Service Companies (for example, employee time, travel expenses and third party invoice costs). Where it is not possible to use a specific cost driver as an allocator, a general allocator is used to distribute the cost based on the proportion of operation and maintenance costs of each Affiliate Company using the service. To support compliance with the Service Company Agreements, validation rules have been established within legacy National Grid's PeopleSoft general ledger that restrict service providing departments to only the appropriate ranges of bill pools. To further explain the National Grid Service Company accounting, a presentation is included as Exhibit __ (AFS-8), the National Grid USA Cost Allocation Training Presentation Deck. Please explain how the cost drivers for National Grid Service

18

19

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

Q.

20 Company bill pools are determined.

1	A.	We look for cost causation. For example, the cost driver for the bill pool
2		used to allocate Data Center costs is CPU usage by company. Another
3		example is the cost driver for the bill pool used for allocating Human
4		Resource costs is the number of employees at each company. Bill pools
5		are established at the beginning of the fiscal year and reflect the prior
6		year's actual data or budget data for the upcoming year. Bill pools may be
7		updated during the year if there is a significant structural change to the
8		organization such as a merger or sale of a business unit.
9		
10	Q.	Please describe how the KeySpan Service Companies charge for their
11		services.
12	A.	All costs incurred by the KeySpan Service Companies are recorded on
13		their books before being allocated. The process of allocating Service
14		Company costs to Affiliate Companies is accomplished using functionality
15		contained in Oracle General Ledger ("Oracle"), which supports an
16		automated, rules-driven process known as "Mass Allocations." Mass

21

17

18

19

20

Allocations is a recurring routine, run as a part of the monthly closing

cycle that: (i) aggregates KeySpan Service Companies costs into "cost

(iii) generates and posts all required journal entries.

pools" (ii) calculates the amounts allocable to each Affiliate Company and

I	Q.	Please explain the allocation rule designed to aggregate KeySpan
2		Service Company costs into "cost pools".
3	A.	A KeySpan Service Company cost pool is the aggregation of costs with a
4		common set of attributes. These attributes are reflected in the appropriate
5		Oracle account code segments to define the cost of the underlying services
6		or activities that are then distributed to the Affiliate Companies utilizing
7		the service using an appropriate allocation code.
8		
9	Q.	Please explain the allocation rule designed to calculate the amounts
9 10	Q.	Please explain the allocation rule designed to calculate the amounts allocable to each Affiliate Company.
	Q. A.	
10		allocable to each Affiliate Company.
10 11		allocable to each Affiliate Company. Each KeySpan Service Company cost pool is assigned a specific
10 11 12		allocable to each Affiliate Company. Each KeySpan Service Company cost pool is assigned a specific "allocation code" that defines the basis used to distribute costs from the
10 11 12 13		allocable to each Affiliate Company. Each KeySpan Service Company cost pool is assigned a specific "allocation code" that defines the basis used to distribute costs from the pool to the various Affiliate Companies. Cost pools and allocation codes

16

17

18

19

20

21

1		make an allocation based on either a direct or indirect allocation code,
2		then a general allocator is used to distribute charges to Affiliate
3		Companies that use a particular service. For the KeySpan Service
4		Companies, the approved general allocator is the "3 Point Formula." To
5		further explain the KeySpan Service Companies' accounting, a
6		presentation is included in Exhibit (AFS-7).
7		
8	Q.	What is the 3 Point Formula?
9	A.	The formula consists of three factors that achieve an appropriate allocation
10		of costs to Affiliate Companies when direct charging or cost causal
11		relationships can not be established. It is a calculated ratio that compares
12		each of the formula factors for the Affiliate Company to the total of the
13		same factors for all recipient Affiliate Companies. The factors are an
14		equal weighting of Revenue, Assets, and Expenses. These ratios are
15		calculated annually based on actual reported in the books and records of
16		the Affiliate Companies.
17		
18	Q.	Please describe the accounting for shared assets owned or leased by
19		the Service Companies.
20	A.	In order to provide support to the Affiliate Companies, the Service
21		Companies own and lease a number of shared assets that are used either

1	by Service Company employees to provide services to the Affiliate
2	Companies or used by the Affiliate Companies themselves on a shared
3	basis. These are principally shared office facilities and information
4	technology ("IT") equipment and software.
5	
6	Where assets are leased, the lease rentals are charged to Affiliate
7	Companies at cost, consistent with the allocation methodologies explained
8	above. Where the Service Companies finance and own shared assets, the
9	Service Companies charge Affiliate Companies an incurred return on the
10	asset, booked depreciation expense, incurred operating and maintenance
11	expense and any applicable taxes. National Grid Service Company's
12	charges to affiliate companies include an operating charge determined in
13	accordance with these principles and a financing charge that reflects a
14	return on the debt and equity used by National Grid Service Company to
15	finance the shared assets.
16	
17	KeySpan Corporate Services also assesses a charge for shared assets on
18	the same basis.
19	
20	The financing charge assessed by the Service Companies is derived from
21	their actual capitalization. National Grid Service Company has a modest

1		equity component that is charged out at a 10.5 percent return and a much
2		larger debt component that is derived from external loans obtained by
3		KeySpan Corporation at an interest rate of 5.803 percent. ² The 10.5
4		percent equity component is reflected in Exhibit (RRP-2). KeySpan
5		Corporate Services' similarly assesses interest charges on the minimal
6		costs that flow to Niagara Mohawk as rent expense.
7		
8	Q.	Please describe the accounting for shared assets owned or leased by
9		Niagara Mohawk.
10	A.	In addition to shared assets owned by the Service Companies, there are a
11		number of shared assets owned by Niagara Mohawk that are used to
12		provide service to other Affiliate Companies. An example is the
13		Investment Recovery Center. Where assets are leased, the lease rentals
14		are charged to Affiliate Companies at cost, consistent with the allocation
15		methodologies explained above.
16		
17		Where Niagara Mohawk finances and owns shared assets, Affiliate
18		Companies also receive a charge that recovers Niagara Mohawk's
19		incurred return on the asset, booked depreciation expense, incurred

² National Grid Service Company was authorized by the Securities and Exchange Commission on January 5, 2001 to earn a rate of return equal to 10.50% of contributed common equity. See, 74 S.E.C. Docket 183, 2000, National Grid USA Service Company, Inc. 70-9673 (Issued January 5, 2001).

1		operating and maintenance expense and applicable taxes. An example of
2		how the charges are calculated is included as Exhibit (AFS-9).
3		
4	Q.	Does National Grid have a process to ensure that Service Company
5		costs are being accurately captured and allocated among its various
6		business units?
7	A.	Yes. There are numerous controls in place aimed at ensuring the accuracy
8		of charges from the Service Companies to the Affiliate Companies.
9		National Grid utilizes a cost allocation integrity compliance framework to
10		provide assurance that Service Company costs are being accurately
11		captured and allocated among its various business units. The pillars of
12		this framework are fully documented cost allocation policies and
13		procedures for all Service Companies (Exhibits (AFS-6, 7), a training
14		and awareness program including roles and responsibilities (Exhibits
15		(AFS-8 and 13), a cost allocation compliance testing program, a Cost
16		Allocation Review Committee and oversight provided by a Regulatory
17		Cost Structure committee. Other controls include the annual calculation,
18		updating and approval of billing pool and allocation code percentages
19		including year to year variance analysis, development and monthly review
20		of clearing accounts, development and review of Service Company
21		operating expenses and equity, monthly allocations run controls, monthly

1 review of suspense charges associated with intercompany billing and A/R 2 to A/P monthly reconciliation. In addition to that process, general budget 3 reviews performed by Line of Business Finance departments identify and 4 address any cost allocation issues that arise. Please also refer to Exhibit 5 __ (AFS-6), the Cost Allocation Policies & Procedures Manual for legacy 6 National Grid and Exhibit __ (AFS-7), the Cost Allocation Policies & 7 Procedures Manual for legacy KeySpan Corporation. 8 9 Q. What actions is the Company taking in response to the Commission's 10 Order in Case No. 09-E- 0953? 11 A. On December 23, 2009 the Commission issued an Order in the above 12 referenced proceeding regarding the accounting treatment of the Texaco 13 Tank Farm. The Commission directed the Company to address in its next 14 electric rate case filing how it has accounted for all operation and 15 maintenance expenses, property taxes, SIR costs and capitalized costs 16 relating to properties that are classified or should be classified as Non-17 Utility Property in the Historical Test Year and Rate Years. Accordingly, 18 the Company has commenced a review of all plant including Non-Utility 19 Plant. The review is on-going and expected to be complete by May 1, 20 2010. As explained in the testimony of the Revenue Requirement Panel,

1		any adjustments based on this review will be provided in Corrections and
2		Updates submitted in this proceeding.
3		
4	Q.	Have you summarized the charges from the Service Companies to
5		Niagara Mohawk in the Historical Test Year?
6	A.	Yes. Please see Exhibits (AFS-10, 11 and 12) for a summary of all
7		Service Company charges for the Historical Test Year ended September
8		30, 2009.
9		
10	Q.	Please describe Exhibits (AFS-10, 11 & 12).
11	A.	Exhibits (AFS-10 and 11) present National Grid Service Company
12		charges in several ways. First, the charges are sorted by charged company
13		and segment in total and by bill pool. Second, the charges are sorted by
14		expense type in total and by bill pool. Exhibit (AFS-12) presents the
15		KeySpan Service Companies charges as allocated to Niagara Mohawk for
16		the year ended September 30, 2009.
17		
18	Q.	For calendar year 2008, was National Grid required to make any
19		regulatory filings setting forth its Service Company charges and their
20		allocation among various business units?

1	A.	Yes. FERC Form 60, attached as Exhibits (AFS- 14, 15, 16 and 17),
2		reflects these charges for the twelve months ended December 31, 2008.
3		
4	Q.	How does the summary on Exhibits (AFS-10 and 11) compare to
5		Exhibit(AFS-14)?
6	A.	The costs reflected on Exhibits (AFS-10 and 11) are higher than those
7		reflected in the FERC Form 60 for National Grid Service Company
8		because Exhibits (AFS-10 and 11) amounts include "convenience"
9		payments while the FERC Form 60 does not. Convenience payments are
10		invoices paid by the Service Company on behalf of the Affiliate
11		Companies where this is the only service the Service Company is
12		providing. An example of this is payroll taxes. Rather than send many
13		checks to the IRS, the Service Company remits one check from the
14		Service Company to the IRS, but directly allocates the appropriate
15		expense amount to the Affiliate Companies in the general ledger. Because
16		National Grid Service Company creates the payment and directly allocates
17		the costs, the originating company in the system is the Service Company.
18		
19		Transaction Delivery Center
20	Q.	Please explain the transition of services to Syracuse.

1	A.	Following National Grid's acquisition of KeySpan Corporation there are
2		numerous employees in various locations providing substantially similar
3		support services of a transactional nature to the Affiliate Companies.
4		National Grid is in the process of consolidating these support functions to
5		the Syracuse Office Complex ("SOC"). Functions being consolidated in
6		the SOC include, Payroll, Accounts Payable, Employees Services and
7		Transactional Procurement
8	Q.	What is the Transaction Delivery Center?
9	A.	The ability to attract talented and skilled workforce in our upstate New
10		York region and the favorable operating economics make Syracuse an
11		attractive location within National Grid's US footprint. As functions are
12		transitioned to or consolidated in the SOC they are brought into National
13		Grid's newly created Transactions Delivery Center ("TDC") located in
14		Syracuse. The TDC is designed to:
15 16		· facilitate better standards of service, greater efficiency and cost
17		savings;
18		· centralize and streamline transactional activities;
19		· deliver high-quality services at the right cost; and
20		· design a TDC that is scalable and can accommodate future growth

1		The TDC enables the consolidation of facilities in Melville, Waltham and
2		MetroTech to Syracuse. In addition, process improvements are
3		continually being implemented as the transition occurs. The TDC enables
4		the Company to achieve synergy savings identified in the KeySpan merger
5		proceeding.
6		
7	Q.	Has the Company included the capital costs associated with the
8		Transaction Delivery Center in the Rate Years?
9	A.	Yes. The Company has included capital investment costs associated with
9	A.	Yes. The Company has included capital investment costs associated with the TDC in the Rate Years as supported by the Infrastructure and
	A.	
10	A.	the TDC in the Rate Years as supported by the Infrastructure and
10 11	A. Q.	the TDC in the Rate Years as supported by the Infrastructure and

Before the Public Service Commission

NIAGARA MOHAWK POWER CORPORATION d/b/a NATIONAL GRID

PSC Case No. 10-E-0050

Supplemental Testimony of

Andrew F. Sloey

Dated: May 3, 2010

1	Q.	Please state your name.
2	A.	My name is Andrew F. Sloey.
3		
4	Q.	Are you the same Andrew F. Sloey that previously provided testimony
5		in this proceeding?
6	A.	Yes. I provided direct testimony as part of the Company's January 29,
7		2010 filing.
8		
9	Q.	What is the purpose of your supplemental testimony?
10	A.	The purpose of my testimony is to provide an update on the Company's
11		review of Non-Utility Property as required by the Commission's Order in
12		Case 09-E-0593.
13		
14	Q.	Please explain the review that the Company was required to conduct.
15	A.	As discussed in my direct testimony, on December 23, 2009, the
16		Commission issued an Order in the above referenced proceeding regarding
17		the accounting treatment of the Texaco Tank Farm. The Commission
18		directed the Company to address in its next electric rate case filing how it
19		has accounted for all operation and maintenance expenses, property taxes,
20		SIR costs and capitalized costs relating to properties that are classified or

1 should be classified as Non-Utility Property in the Historical Test Year 2 and Rate Years. 3 4 Q. What actions did the Company take in response to the Commission's 5 Order? 6 A. The Company commenced two reviews of plant. Those reviews were not 7 complete at the time of the Company's January 29, 2010 filing in this 8 proceeding. Accordingly, the Company provided that any adjustments 9 resulting from these reviews would be submitted in its Corrections and 10 Updates filing. 11 12 0. Please explain the Company's reviews of plant. 13 A. The first review involved a review of land parcels in rate base. The 14 purpose of this review was to identify parcels that should be retired from 15 rate base because of a sale or divestiture or transferred from rate base to 16 Non-Utility Property because the particular parcel was not used or useful. 17 The second review involved research into the status of property currently 18 classified as Non-Utility Property to specifically identify those parcels that 19 were either transferred from rate base and are subject to Site Investigation 20 and Remediation ("SIR") program remediation or were purchased directly 21 to Non- Utility Property to provide benefits to customers by reducing the

1 overall cost of SIR. As explained in the Company's response to 2 Information Request Number NM-200, AAE-14 and discussed in the 3 supplemental testimony of the Revenue Requirement Panel, in some 4 instances it is more cost effective to purchase contaminated property and 5 undertake remediation as the site owner than it is to remediate the property 6 to unrestricted use status. 7 8 Q. Please explain the results of the first review. 9 A. The first review analyzed rate base land parcels by plant location to 10 identify those parcels that did not also contain rate base plant equipment or 11 other non-land assets. This analysis produced a list of approximately 180 12 parcels of land that required further research to determine whether they 13 were used and useful to utility operations. This review indicated that 14 many of these parcels were still used and useful for functions such as 15 inventory storage yards and other utility operations. 16 17 The review also identified parcels that required retirement as follows: 59 18 parcels of land in FERC Account 350, Transmission Substation Land, 19 associated with previously owned hydro station assets that were sold as a 20 part of generation divestiture, required retirement. The Company 21 confirmed that these transmission substation land parcels were sold as a

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

part of divestiture of the hydro stations, that they were removed from the real estate tax assessment basis at the time of sale and that no real estate taxes have been paid on these parcels since that time. However, these parcels were not retired from Plant in Service at the time of the sale. The entries to retire these 59 parcels from Plant in Service were processed in March 2010. In addition, there were four parcels of land that were associated with distribution substations and one parcel of land associated with a former Gas Regulator Station site that upon investigation should have been retired. The entries to retire these five parcels from Plant in Service were also processed in March 2010. The original cost of all 64 parcels retired was \$143,152. This first review further identified 9 parcels of land determined to be no longer used and useful to utility operations and they were transferred to Non-Utility Property, also in March 2010. These 9 parcels had an original cost basis of \$18,011. To comply with the prescribed accounting under the Financial Recovery Agreement ("FRA") approved by the Commission in Case No. 29327, a fair market value appraisal of the parcels transferred has been ordered. The FRA provides that in lieu of sharing net gains or losses from the sale of utility property, the entire net amount (calculated as being the delta between the appraised market value and the historical cost base) is to be

set aside for rate making effective July 1, 1990 utilizing a deferral mechanism used to offset remediation costs associated with other properties in the Non-Utility portfolio that are subject to the SIR program. The market appraisal needed to determine this net amount (either a gain or loss) of the parcels transferred from rate base to Non-Utility Property has been commissioned. Journal entries to complete the transfer and recognize any gain or loss will be processed once these have been received.

Q. Please explain the results of the second review.

A review of existing Non-Utility Property was conducted to specifically identify within the Company's fixed asset system those land assets subject to the SIR program, whether transferred from rate base or acquired directly into Non-Utility Property in order to mitigate what would otherwise be higher SIR costs. Eleven locations encompassing 12 parcels of land were identified with an original cost of \$2,247,643. These 12 parcels have been uniquely tagged within the Company's fixed asset systems so that costs can be effectively tracked. This same tagging system will be used to account for any future additions to the Non-Utility portfolio that are also subject to the SIR Program.

1	Q	How does the Company propose to account for adjustments resulting
2		from the reviews of plant?
3	A.	The Revenue Requirements Panel provides an explanation of the
4		accounting adjustments resulting from the reviews of plant.
5		
6	Q.	Does this conclude your direct testimony?
7	Α	Yes it does

Before the Public Service Commission

NIAGARA MOHAWK POWER CORPORATION d/b/a NATIONAL GRID

Rebuttal Testimony

<u>of</u>

Andrew F. Sloey

Dated: August 6, 2010

Q. Please state your name.

1

9

- 2 A. My name is Andrew F. Sloey.
- 3 Q. Have you previously provided testimony in this proceeding?
- 4 A. Yes. I provided direct testimony as part of Niagara Mohawk Power
- 5 Corporation d/b/a National Grid's ("Niagara Mohawk" or the "Company")
- 6 January 29, 2010 filing and supplemental testimony as part of the Company's
- 7 Corrections and Updates filing submitted on May 3, 2010.

8 I. Introduction

- Q. What is the purpose of your testimony?
- 10 A. The Staff Policy and Accounting Panels raise certain concerns and issues
- relating to Service Company charges to Niagara Mohawk. National Grid plc
- 12 ("National Grid") has four mutual Service Companies and I refer to them
- generally as "Service Company" or "Service Companies" throughout my
- testimony. The purpose of my testimony is to respond to the concerns of the
- 15 Staff Policy and Accounting Panels. Specifically, I address 1) the structure
- and purpose of the Service Companies, including budget development, review
- and challenges, 2) the escalation in costs charged from the Service Company
- to Niagara Mohawk, 3) allocation issues such as cross-subsidization of
- 19 Affiliate Companies, and 4) internal controls and review of Service Company
- 20 charges. My testimony also addresses certain adjustments and issues
- 21 presented by Staff with respect to construction work order closing delays.

- Q The Staff Accounting Panel proposes an approximately \$26 million
- 2 macro adjustment to Service Company charges to Niagara Mohawk.
- 3 Does the Company agree with Staff's macro adjustment?

1

4 A. No. Staff's macro adjustment to the Company's Rate Year forecast of Service 5 Company charges is arbitrary and wholly unsupported. As I will cover later in 6 my testimony, the largest component of Niagara Mohawk's costs are direct 7 charged. For the Legacy National Grid Companies, direct charges are those 8 costs that are either incurred directly within Niagara Mohawk, or originate 9 from the National Grid USA Service Company, Inc., or another Affiliate 10 Company and are directly charged to Niagara Mohawk without the need to 11 use an allocation process (either a cost causal bill pool or a general allocator 12 bill pool). As the Legacy KeySpan companies do not have the ability to direct 13 charge to Niagara Mohawk (or in fact any Affiliate Company in the NGUSA 14 group) an allocation code has been established within the KeySpan Service 15 Companies to allow costs to be directly allocated to Niagara Mohawk where 16 this appropriate. Any costs not direct charged or directly allocated as described above are considered to be "allocated" costs. Of those costs that 17 18 are allocated, the Company has demonstrated clearly that, with a few minor 19 exceptions, the charges and allocation methodologies are appropriately 20 applied. Staff argues that certain adjustments are required to correct specific 21 allocation errors. Even if they were warranted, however, these adjustments

1		total only approximately \$6 million. Staff offers no support for the additional
2		\$20 million adjustment. Staff's macro adjustment in no way relates to the
3		services received by Niagara Mohawk in the Historic Test Year or forecast in
4		the Rate Year. Accordingly, Staff's macro adjustment is without merit and
5		should be denied.
6	Q.	Does the Company agree with Staff's recommendation that the
7		Commission institute a separate proceeding to evaluate all aspects of the
8		Service Company?
9	A.	No. Staff offers no basis for such a proceeding. Contrary to Staff's
10		characterizations, the Company takes cost control and monitoring very
11		seriously. The Company has implemented a number of measures to review
12		and test the accuracy of Service Company charges to affiliate companies.
13		These measures are discussed in detail below. The Company has devoted
14		significant time and resources to the review of its cost allocation
15		methodologies and has sought input and assistance from external resources.
16		For example, as discussed later in my testimony, the Company engaged
17		PricewaterhouseCoopers ("PwC") to assist the Company in its evaluation and
18		testing of its cost allocation process. Furthermore, a Comprehensive
19		Management Audit of Niagara Mohawk Power Corporation was completed in
20		December 2009. The audit did not raise control or Service Company
21		independence concerns nor did it identify the need to implement substantial

1		changes to the budget proces	ss. Moreover, Staff has submitted hundreds of
2		questions relating to Service	Company charges. The Company has in all
3		instances worked with Staff	to provide timely and meaningful responses. The
4		Company agreed to an exten	sion of the suspension period to allow Staff time
5		to conduct its review and do	es not understand why a review of Service
6		Company charges was not p	ossible within the schedule adopted in this
7		proceeding. Staff's recomm	endation that a separate proceeding be instituted
8		to evaluate Service Company	y charges is unnecessary, as Staff may, at any
9		time, conduct an audit of Ni	agara Mohawk's costs, including Service
10		Company charges. A separa	ate proceeding is therefore unwarranted.
11	Q.	Does you Sponsor any exhi	ikita?
11	Q.	Does you sponsor any exin	ibits:
12	Q. A.		llowing exhibits prepared under our direction and
12 13 14 15		Yes. I am sponsoring the fo	
12 13 14 15 16 17 18		Yes. I am sponsoring the fo supervision:	llowing exhibits prepared under our direction and Niagara Mohawk's Cost on a Per Customer
12 13 14 15 16 17 18 19 20		Yes. I am sponsoring the fo supervision: Exhibit (AFS-1R)	llowing exhibits prepared under our direction and Niagara Mohawk's Cost on a Per Customer Basis Illustrative Overview of the Service Company
12 13 14 15 16 17 18 19 20 21 22 23		Yes. I am sponsoring the fo supervision: Exhibit (AFS-1R) Exhibit (AFS-2R)	Niagara Mohawk's Cost on a Per Customer Basis Illustrative Overview of the Service Company Department/Function Budget Process
12 13 14 15 16 17 18 19 20 21 22		Yes. I am sponsoring the fo supervision: Exhibit (AFS-1R) Exhibit (AFS-2R) Exhibit (AFS-3R)	Niagara Mohawk's Cost on a Per Customer Basis Illustrative Overview of the Service Company Department/Function Budget Process Rate Year to Historic Year Comparison Mapping of Service Contract Functions to

1 2		Exhibit (AFS-7R)	Reservoir Woods Bill Pool Comparison
3 4		Exhibit (AFS-8R)	Consultant Invoice Adjustments and Detailed Support
5 6 7		Exhibit (AFS-9R)	Copies of IRs
8	II.	Structure of the Service Co	<u>ompanies</u>
9	Q.	Please explain National Gr	rid's organizational structure as it relates to its
10		Service Companies and Li	nes of Business.
11	A.	National Grid USA is comp	rised of over 100 regulated and non-regulated
12		legal entities. There are app	proximately 20 primary entities that consist of the
13		regulated utilities and contain	in the electric distribution, gas distribution,
14		electric transmission and ge	neration activities that are the core of National
15		Grid's business in the US.	As is shown in Exhibit (AFS-1), accompanying
16		my direct testimony, Nation	al Grid organizes itself along five Lines of
17		Business ("LOB"): (1) Elect	tric Distribution and Generation; (2) Gas
18		Distribution; (3) Transmissi	on; (4) Non Regulated; and (5) Other, with
19		focused (LOB) management	t teams overseeing the relevant activities of the
20		entities within their purview	. As demonstrated in Exhibit (AFS-1), a single
21		legal entity may span more	than a single Line of Business. For example,
22		Niagara Mohawk comprises	the Gas Distribution, Electric Distribution &
23		Generation, and Transmission	on Lines of Business. The four Service
24		Companies in operation at N	National Grid, i.e., National Grid Corporate

1		Services LLC, National Grid Utility Services LLC, National Grid Engineering
2		& Survey, Inc., and National Grid USA Service Company Inc., provide
3		common support for Affiliate Companies and for each of the LOBs.
4	Q.	What role do the Service Companies play in the organization?
5	A.	As noted in the National Grid USA Service Company contract, Exhibit
6		(AFS-2), with Niagara Mohawk Power Corporation, the Service Companies
7		are "engaged primarily in the rendering of services to companies in the
8		National Grid USA holding company system." Services include, among
9		others, executive and administration, human resources, information
10		technology, legal, and regulatory. The service contracts between the four
11		Service Companies and Niagara Mohawk (as well as with all other affiliates),
12		define the range of services that may be provided and require that these
13		services be provided at cost. Within the National Grid USA structure and
14		systems, it is only the Service Companies that contain the mechanisms (bill
15		pools and allocation codes) that allow the sharing of services to a number of
16		affiliated companies within and across various Lines of Business. Therefore,
17		a service company should be viewed as simply a mechanism to share a cost
18		between two or more affiliated companies.
19	Q.	What are the benefits of a service company structure?
20		National Grid USA has established a service company structure to facilitate
21		the efficient, centralized charging of costs for employees who provide services

across multiple regulated (and unregulated) entities. This operating model allows for economies of scale and provides consistency of service delivery, accounting and financial/regulatory reporting that would not be possible if the individual affiliates secured the services on their own. It should be noted that the final report in the Comprehensive Management Audit of Niagara Mohawk included a Finding/Conclusion that the use of service companies to accumulate and allocate costs associated with the services provided to multiple LOBs is appropriate. In Order 667 relating to the "Repeal of the Public Utility Holding Company Act of 1935 and Enactment of the Public Utility Holding Company Act of 2005," the Federal Energy Regulatory Commission ("FERC") agreed with commentators that "centralized provision of accounting, human resources, legal, tax and other such services benefits ratepayers through increased efficiency and economies of scale" (p. 110). FERC further "recognize[d] that it is frequently difficult to define the market value of the specialized services provided by centralized service companies" (p. 110). In setting rates for Massachusetts Electric Company, the Department of Public Utilities (DPU) in Massachusetts recognized that "such services as legal, accounting, regulatory, human resources, and engineering . . . [provided by service companies]... are the types of services that the Company requires on a continuing basis and provide a benefit to the Company for the proper

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1	operation of its business and the delivery of electric service to its customers."
2	The DPU went on to state:
3	It is common for a public utility holding company structure to
4	have centralized accounting, financial, and regulatory
5	functions because these types of services require a close
6	familiarity with both the operating company and its holding
7	company, it is unclear whether an RFP would result in the type
8	of response that would achieve the objective to minimize costs
9	(D.P.U. 09-39, p. 259-60).
10	In the Pennsylvania Public Utility Commission v. Peoples Natural Gas
11	Company (Oct. 26, 1978) decision, the Pennsylvania Public Utility
12	Commission noted that their "approval of the service company charges
13	[wa]s based upon a recognition that respondent [Peoples Natural Gas
14	Company] shares the advantages of lower costs occasioned by
15	economies of scalethat costs to respondent for the services performed
16	by the service corporation would be considerably higher if these
17	services were incurred on an individual basis by respondent"(p. 205-
18	206). Also, the Virginia State Corporation Commission in Case No.
19	PUE-2006-00023 has found that "[m]embers of a public utility holding
20	company that consolidate and centralize corporate services can
21	normally achieve significant economies of scale and other business

1 efficiencies through elimination of duplicative personnel and facilities

2 across the holding company's system."

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Q. Does the Company evaluate whether services can be provided at a lower

cost than are provided by the Service Company?

A. The Company generally relies on Service Companies to provide day- to-day core services such as accounting, human resources and legal to all of the affiliated companies in the National Grid USA holding system. This results in a more efficient, consistent and lower cost delivery than if each affiliate company sourced these services independently. National Grid does not put services such as these out to bid because they require a close familiarity with the operating company, holding company, and National Grid's reporting, systems and controls processes. The Company does not believe that a bidding process would achieve the Company's objective of minimizing costs without introducing an unacceptable level of complexity associated with having multiple external vendors provide these core services. Institutional knowledge is a key component to the provision of core services, particularly in a regulated environment. If, however, the Company has a special project, significant event, or need for supplemental resources that the Service Company is unable to support, the Company uses its competitive bidding process or other standard practice to obtain another provider.

Q. Please continue.

1	A.	Labor costs are a significant percentage of costs charged from the Service
2		Companies to Niagara Mohawk. National Grid analyzes its compensation
3		packages (union and non-union) to determine whether those labor costs are
4		competitive with the market. As shown in Exhibit_(AFS-1R), the
5		Company's total costs on a per customer basis are lower than the costs of all
6		but one utility in the State. The Company's analysis includes both direct and
7		allocated charges as well as, as discussed later, all of the FERC 900 Accounts
8		except Accounts 908 and 928.

Q. Do you agree, as Staff suggests, that it is problematic that most of Niagara Mohawk's management are Service Company employees?

9

10

11 A. No. Where departments and individuals share time across more than one 12 entity, as under our management organizational structure, as a practical 13 matter, those departments and individuals should be employed by a Service 14 Company. This is the only arrangement where costs can be distributed in a 15 consistent manner to a number of affiliated companies. The much less 16 efficient alternative would be to replicate management and support activities 17 in each utility rather than sharing across utilities. Further, as explained above, 18 the primary purpose of the Service Company is to render services to Affiliate 19 Companies. There is no incentive for management to bias their actions in 20 favor of the Service Company. Moreover, Staff's claim unfairly assumes bad 21 faith or a lack of integrity on the part of Niagara Mohawk's management.

Being an employee of a service company does not in any way alter individual and management responsibility and accountability to act in the best interests of each utility that the employee serves. For example, Tom King is President of National Grid USA and Executive Director of the Electric Distribution business. The fact that he is a Service Company employee in no way diminishes his accountability for each affiliated utility or the Electric Distribution & Generation LOB and does not affect the conduct of his duties in any way. Staff's narrative that the Service Company is indifferent, if not hostile, to the interests of Niagara Mohawk is simply not true.

Q. How are costs distributed by the Service Companies to the various Affiliate Companies they support?

A. As explained in my direct testimony, services provided to Affiliate Companies are charged to each company at cost based upon the guidelines set forth in the Service Agreements with the Affiliate Companies. In particular, costs are (1) directly charged; (2) allocated using a reasonable and equitable allocation ratio (a pre-defined bill pool for National Grid USA Service Company or a pre-defined allocation code for KeySpan Service Companies) based upon a cost-causal relationship between the costs and the entity receiving the costs; or (3) allocated using approved general allocation methodologies if the former two approaches are not feasible.

Q.	Staff suggests	that the Company	cannot effective	ly control	costs	without
----	----------------	------------------	------------------	------------	-------	---------

2 maintaining overall Service Company budgets. Does the Company

3 agree?

1

4 A. No. Staff's testimony assumes that because we do not construct budgets on a 5 Service Company basis that costs are not reviewed/controlled. National Grid, 6 however, has an established process in place to develop, review, and control 7 budgets and actual expenses. Budgets are constructed for each Service 8 Company department/function such as Legal, Financial Services, and Human 9 Resources. Each of the Service Company departments form part of the 10 operating expense that will, as described later in my testimony, ultimately be 11 accounted for within one or a number of Service Companies and then 12 allocated to Affiliate Companies as appropriate. By aggregating the budgets 13 for all Service Company departments/functions, an overall service company 14 budget can be derived. However, as I discuss in more detail below, 15 management of costs occurs at the Service Company department/function 16 level (as opposed to a total service company basis). The process of 17 developing, reviewing, and controlling budgets and actual expenses is closely 18 tied to our Line of Business organizational structure, and processes are in 19 place to ensure that budgets and actual costs are actively challenged so that 20 costs are effectively controlled.

1	Q.	Did the Comprehensive Management Audit of Niagara Mohawk address
2		the Company's budget process?
3	A.	The audit did not raise a concern about the overall department/functional
4		budget design. The report noted that the organizational responsibilities for
5		planning priorities and budgeting allocations for the US Transmission and
6		Electric Distribution & Generation ("ED&G") business are appropriate, and
7		that there is a sufficient degree of bottom-up input in the business planning
8		process.
9	Q.	Please describe National Grid's process for developing and reviewing
10		budgets.
11	A.	The annual Business Planning process is a National Grid Group-wide
12		(concerning National Grid's US and UK businesses) initiative focused on
13		developing a five-year financial and operating profile for the organization.
14		The first year of the Business Plan forms the budget for the next financial
15		year, with each department/function (including Service Company
16		departments/functions) constructing a full "bottom up" cost profile.
17	Q.	What is the process for building the budgets for the Service Company
18		departments/functions?
19	A.	Every Service Company department/function undertakes a detailed budget-
20		build analysis, including a consideration of costs for labor, services, and
21		supplies/materials, to determine what each department/function will need to

1		spend in the next financial year. Budgets based on this "pre-allocated" cost
2		profile are allocated to the Affiliate Companies that will receive services and
3		then aggregated to the corresponding Lines of Business. Budgets are
4		constructed in close coordination with the LOBs receiving services.
5	Q.	How are budgets that are initially created within the
6		departments/functions performing Service Company functions assigned
7		to the Lines of Business?
8		Exhibit(AFS-2R) provides an overview of the budget assignment process
9		for a hypothetical Service Company department/function. As explained
10		above, budgets are first allocated to the Affiliate Companies that will receive
11		services and then aggregated to the corresponding Lines of Business. Budgets
12		are allocated to Affiliate Companies following the same methodology used to
13		allocate actual expenses to Affiliate Companies. In particular, pre-allocated
14		budgets are recorded at the appropriate Service Company as the Originating
15		Company and either directly charged to a specific Affiliate Company or
16		allocated to each Affiliate Company using the appropriate allocation codes
17		and billing pools (based on approved SEC methodologies). At this point, the
18		Service Company department/function budgets become "post-allocated."
19		Post-allocation, the Affiliate Company charges aggregate to a budget at the
20		Line of Business level.

1		Each of the Service Company departments/functions then reviews the post-
2		allocated budget with each of the Lines of Business receiving
3		department's/function's services. As explained above, affiliate company
4		budgets are in effect, inherently in the LOB budget. At the review meetings,
5		the Service Company departments/functions and Lines of Business agree upon
6		the actions that need to be taken to improve financial and operating
7		performance.
8	Q.	What controls exist to ensure that budgets are appropriately assigned
9		from the Service Company departments/functions to the LOBs after
10		being allocated to the Affiliate Companies?
11	A.	As explained above, in setting the budgets initially, the Service Company
12		departments/functions review the assigned budgets with the Lines of Business.
13		At the Service Company function/department level, a Vice President or
14		Director is accountable to manage his/her budget within the guidelines
15		established during the Business Planning process. He/she is responsible for
16		reviewing planned activities and services provided, the costs to deliver that
17		service in aggregate at the department/function level, and the Lines of
18		Business to be charged.
19		Finance Decision Support teams have been placed in each LOB. One of their
20		roles is to review and challenge service company department/function budgets

1		assigned to the LOB as well as to prepare, review, and analyze variance
2		reports on actual to budget costs.
3	Q.	What role does the budgeting process have in the control of the actual
4		expenses allocated to affiliate companies and thereby assigned to the
5		Lines of Business?
6	A.	The budgeting process serves as a major control on the allocation and
7		assignment of expenses for services provided by the Service Company
8		departments/functions to the affiliate companies and the Lines of Business
9		respectively. In effect, a comparison of the actual expenses assigned to the
10		Lines of Business to the budgeted costs arrived at during the budgeting
11		process provides a control on the accuracy of the assigned costs to the Lines
12		of Business.
13	Q.	How are actual expenses for services provided by the Service Company
14		departments/functions allocated to affiliate companies and assigned to the
15		Lines of Business?
16	A.	Exhibit(AFS-2R) provides an overview of the process of allocating costs to
17		the Affiliated Companies and assigning them to the Lines of Business. The
18		summation of expenses within a Service Company department creates a "pre-
19		allocated" expense pool. Pre-allocated expenses are recorded at the
20		appropriate Service Company as the Originating Company and either directly
21		charged to a specific Affiliate Company or allocated to each Affiliate

1		Company using the appropriate allocation codes and billing pools. The
2		allocation codes and bill pools effectively allow for one line of accounting to
3		be used to charge multiple Affiliate Companies. The actual expenses
4		allocated to the Affiliate Companies are aggregated within the appropriate
5		Lines of Business to determine the total actual expense (post-allocated charge)
6		assigned to the LOBs.
7	Q.	What controls exist to ensure that each Affiliate Company and Line of
8		Business is being accurately charged for actual expenses?
9	A.	A number of controls exist to ensure appropriate charging to Affiliate
10		Companies and LOBs receiving services from Service Company departments.
11		Service Companies' allocation codes and billing pools, which are used to
12		charge Affiliate Companies, are based on predetermined allocation
13		methodologies approved by the SEC. The allocations and bill pools include
14		an inherent control framework.
15		As discussed later, periodic reviews of allocation codes and billing pools are
16		conducted to ensure that they are maintained in accordance with the
17		established allocation methodology.
18		Furthermore, as discussed above, the budgets generated through the Business
19		Planning process provide a control that allows LOB management to compare
20		the actual expenses charged with the budgeted amounts.

In addition, monthly meetings are held with the LOB management and Service Company department personnel. These meetings provide the opportunity for LOB personnel to discuss and challenge costs that have been allocated and assigned to their respective businesses. Finally, Quarterly Performance Reports ("QPRs") are presented to both executive and LOB management. Sessions reviewing these reports focus on the expense that has been assigned to each LOB after being allocated to the affiliate companies. While QPR's are generally focused on the financial and operating results at the LOB level, sessions also include a review of the Service Company department/function costs being charged to Affiliate Companies. For example, regulated returns and company-specific issues are discussed at the meetings. Detailed reviews in preparation of the reports support the higher level LOB discussions. LOB management and Finance Decision Support teams focus on individual companies' performance and issues as part of the preparation for these meetings. LOB management review company-specific financial results and interact with Service Company management and Decision Support teams to understand results and costs that are being allocated to each Affiliate Company and assigned to the LOB. Q. Is there anything else you would like to note about the Business Planning process and its relation to the allocation of Service Company costs to the **Lines of Business/Affiliate Companies?**

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

1 A. Yes. In sum, while budgets are not constructed at the overall Service 2 Company level, budgets are constructed, managed, reviewed, and challenged 3 by Service Company departments/functions and LOB management 4 responsible for the Affiliate Companies receiving the services. While budgets 5 are not constructed at the overall Service Company level, overall Service 6 Company budgets can be derived by aggregating the department/function 7 budgets flowing through the Service Companies. However, the derivation of 8 overall Service Company budgets would not improve Niagara Mohawk's 9 ability to review, control or monitor its charges from the Service Company. 10 Given all of the controls in the budget development and expense allocation 11 process, there is no reason to question the integrity of the process simply 12 because budgets are not constructed at the overall Service Company level. 13 The current process is better tailored to National Grid's organization because 14 Service Company departments/functions may span more than one Service 15 Company. 16 III. **Cost Escalation** 17 Q. Please address Staff's claim that Service Company charges to Niagara 18 Mohawk in the Historic Test Year have increased 32.58 percent

19

compared to 2008.

1	A.	The Staff Accounting	2 Panel	argues th	at Niagara	Mohawk's	s Service	Company

- 2 charges increased 32.58 percent from the 12 months ended September 30,
- 3 2008 to the Historic Test Year.

4 Q. How did Staff derive the 32.58 percent?

- 5 A. Staff derived the 32.58 percent increase using the Service Company bill
- 6 amounts (from all Service Companies to Niagara Mohawk) provided in IR
- 7 DPS-18 (RAV-13) for the Historic Test Year and the prior year and excluded
- 8 cost to achieve ("CTA") spending from both years. The bill amounts include
- 9 Service Company charges to Niagara Mohawk's electric and gas businesses
- 10 excluding charges relating to capital work or balance sheet charges (for
- example the payment of a previously accrued expense) from Service
- 12 Company. However, Staff used the CTA figure from IR DPS-14 (RAV-10),
- which does not reflect CTA originating at the Service Company exclusively,
- so the calculation needs to be refined. In addition, I need to correctly present
- the calendar year CTA figures into fiscal year figures for comparability. CTA
- amounts originating from the Service Companies in the Historic Test Year
- and the prior year were \$24.4 million and \$14.8 million, respectively,
- 18 compared to the \$18.8 million and \$19.7 million used in Staff's calculation.
 - Q. Does the Company agree that Service Company charges increased in the
- 20 **Historic Test Year from 2008?**

- 1 A. Yes, using Staff's methodology and updating the CTA adjustment, the Service
- 2 Company charges to Niagara Mohawk increased by \$68.2 million or 27.7
- percent from the 12 months ended September 30, 2008 to the Historic Test
- 4 Year, not the 32.58 percent calculated by Staff.

5 Q. Can you explain this increase?

- 6 A. Yes. There are a number of reasons for this increase, some of which were
- 7 outlined in the Company's response to IR DPS-300 (RAV-96) so Staff should
- be aware of many of the underlying drivers. However, drawing a direct
- 9 comparison between the data provided in IR DPS-300 (RAV-96) and this
- analysis is difficult because IR DPS-300 (RAV-96) included all charges
- originating from the Service Companies and thus capital and balance sheet
- charges were included. IR DPS-300 (RAV-96) is therefore a different view
- from the one that Staff used to calculate the percentage increase quoted above.
- Here, I address only increases relating to those percentages Staff quoted
- above. The explanations that follow also address the increase in Service
- 16 Company charges to Niagara Mohawk as compared to the increase in charges
- to other Affiliate Companies.

Q. Please continue.

- 19 A. The explanations for the change in Service Company charges to Niagara
- Mohawk are summarized in two groups. Group 1 lists the incremental costs
- 21 that were driven by additional activity undertaken by the Service Company

- directly on behalf of Niagara Mohawk and Group 2 lists the increased costs and activities that affected Affiliates Companies. The table below (Table AFS-1) summarizes the reasons for the increased charges in these groups.
 - Case 10-E-0050
 Table AFS-1
 Summarized explanations for the increase in Service Company charges to Niagara Mohawk (Historic Test Year vs. Prior year)

	\$M	%
Service Company charges to NMPC 12m ended Sep 2008	246.6	
Increased charges which are NIMO specific - Group 1		
Storms - pre any deferrals	15.7	
Employee migration to Svc Co	4.4	
SIR expense - pre any deferrals	3.3	
Bad debt mitigation	4.1	
Gas rate case support	0.6	
Gas corrosion work	0.4	
NMPC debt issuance costs	0.3	
subtotal	28.8	11.68%
Other increases in levels of Service - Group 2		
Pension/PBOP/Healthcare - pre any deferrals	13.6	
Variable pay	3.7	
Costs incurred for future productivity	4.3	
Information system projects	1.3	
Smart metering	0.7	
Increased time not worked	1.3	
Increased Service Co equity	1.1	
Items excluded from Cost of Svc	5.0	
Inflation at 1.5%	3.7	
Other	4.6	
subtotal	39.4	15.984%
Total Increase in charges	68.2	27.64%
Service Company charges to NMPC 12m ended Sep 2009	314.8	

As shown in the table above, there are four primary drivers of the increase in

Service Company charges to Niagara Mohawk in Group 1 (charges for

activity specific to Niagara Mohawk). These are the storm costs, primarily the

1	December 2008 ice storm, Site Investigation and Remediation ("SIR") costs,
2	employee transfers from Niagara Mohawk to the Service Company, and
3	expanded efforts to mitigate bad debt expense.

Q. Please provide further detail on these additional Service Company charges to Niagara Mohawk that are listed in Group 1 in the above table.

4

5

6 A. The single largest variance is storm charges, primarily relating to the 7 December 2008 ice storm which caused (before deferrals) \$15.7 million to be 8 charged from the Service Company to Niagara Mohawk. This was primarily 9 contractor costs. Also, compared to the prior 12 month period, Niagara 10 Mohawk incurred an additional \$3.3 million of SIR costs (before deferrals) 11 from the Service Company for work done in Niagara Mohawk service 12 territory in the Historic Test Year. In addition, National Grid has been 13 centralizing certain functions within its Service Companies both to align 14 management structures within the Line of Business/Service Company model 15 and to become more efficient. During the Historic Test Year, employees 16 moved from Niagara Mohawk to the Service Company in the Customer 17 Service, Regulation and Pricing, and Operations groups. This change in 18 origination of the service (formerly originating on Niagara Mohawk's books 19 and now originating on the Service Company's books) accounts for \$4.4 20 million of the increase in Service Company charges but is not an overall 21 increase in Niagara Mohawk expense. The final area where activity

undertaken on behalf of Niagara Mohawk has resulted in an increase in Service Company charges is in support of the Company's expanded efforts to mitigate bad debt expense following the deteriorating economic conditions that were experienced across Niagara Mohawk's service areas in 2009. While bad debt expense has increased, these efforts contained what would be a much higher growth in that expense. In support of the Company's bad debt mitigation effort, additional Service Company costs were incurred including an increase in inbound calls. This has driven higher expense of \$4.1 million or 1.7 percent. Finally, there are several smaller items including rate case support, costs for raising Niagara Mohawk debt, and gas corrosion work totaling \$1.3 million. Each of these cost drivers is clearly identifiable as supporting Niagara Mohawk. Removing these items brings the underlying increase in Service Company charges to Niagara Mohawk down to 15.98 percent. As will be shown later in this testimony, this increase is broadly in line with the increases experienced by other affiliates.

Q. Are there other factors driving the increase?

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17 A. Yes. As shown in the table above there are a number of areas where activity
18 and cost increases have affected all affiliates, including Niagara Mohawk.
19 These Group 2 increase in charges from Service Company are pension, other
20 post employment benefits (both before any deferrals) and healthcare costs,
21 which increased \$13.6 million (5.5 percent), collectively. These cost

1 increases in the Historic Test Year were due to actuarial estimates, in the case 2 of pension and post-employment benefits, and to actual claims experience, in 3 the case of healthcare. Second, Niagara Mohawk incurred a \$3.7 million increase related to variable pay for Service Company employees in the 4 5 Historic Test Year. Third, the Company has incurred charges necessary to 6 drive future savings, primarily in support of the Electric Distribution 7 Operations Transformation effort of \$4.3 million. Fourth, \$5.0 million is 8 made up of items that have been excluded from the cost of service.

Q. What are the remaining drivers of the increase?

9

10 A. Other reasons include smart metering \$0.70 million, IS projects \$1.4 million, 11 an increase in time not worked of \$1.3m (these labor charges would have been 12 normalized in the cost of service) and an increase of Service Company equity 13 charges of \$1.2 million. It should be noted that Service Company Equity is a 14 credit to Niagara Mohawk (see attachment 2 to IR DPS-12 (RAV-8)). Using 15 an inflation rate of 1.5 percent as cited by Staff, I derive an inflationary 16 increase of \$3.7 million. The remaining increase of approximately \$4.6 17 million is largely due to additional support required by Niagara Mohawk.

Q. What percentage of Niagara Mohawk's charges from the Service Company are directly charged to the Company?

A. Direct charges represent 44 percent of the O&M charges originating from the
 Service Company to Niagara Mohawk and 57 percent of total charges.

1	Q.	Do you agree with Staff that normanzing adjustments should have been
2		made to the percentage of Historic Test Year costs charged to Niagara
3		Mohawk to align the increase more equally with all other affiliate
4		companies?
5	A.	No. Staff's methodology to determine the normalizing adjustment is to use
6		the 32.58 percent increase to Niagara Mohawk, which I have shown is
7		incorrect, and compare it to Staff's calculated increase to all affiliates, 20.38
8		percent and to apply this difference to the Rate Year forecast of Service
9		Company charges. Like the 32.58 percent figure, Staff's 20.38 percent figure
10		also must be adjusted for CTA and to make normalizing adjustments for two
11		KeySpan entities where year over year movements are materially affecting the
12		results. The two entities that require normalization are the Ravenswood
13		generating station and the KeySpan money pool affiliate. The latter entity is
14		solely used to provide for short-term cash and working capital requirements to
15		the affiliates participating in the legacy KeySpan money pool. Charges to the
16		money pool entity are dissimilar from other types of Service Company
17		charges, as they are not allocated shared costs, and thus this entity should be
18		normalized out of the comparative analysis. Making these adjustments
19		reduces the increase to all affiliates to 18.29 percent. As described above,
20		exclusive of specific items charged to Niagara Mohawk in the Historic Test
21		Year, Niagara Mohawk's increase would be 15.98 percent. Therefore,

applying Staff's methodology to the relevant figures, the comparison is between Niagara Mohawk's increase of 16.98 percent and an overall increase of 18.29 percent. Niagara Mohawk is clearly in line and an adjustment is unwarranted. The following table (Table AFS-2) shows Staff's figures and the Company's figures.

Table AFS-2

1 dole Al 5-2				
Staff view cited in testimony				
	HTY	PY	difference	%
	\$(000s)	\$(000s)	\$(000s)	
Service Company charges to NMPC ex CTA	320,193	241,511	78,682	32.58%
Service Company charges to other affiliates ex CTA	1,020,811	872,509	148,302	17.00%
Total Service Company charges to affiliates ex CTA	1,341,004	1,114,020	226,984	20.38%

National Grid view updated to correct for Svc Co originating	CTA and to exclude R	avenswood and	KSE Money Pool	
	HTY	PY	difference	
	\$(000s)	\$(000s)	\$(000s)	
Service Company charges to NMPC ex CTA	314,655	246,472	68,183	27.66%
Service Company charges to other affiliates ex CTA	1,037,177	896,386	140,790	15.71%
Total Service Company charges to affiliates ex CTA	1,351,832	1,142,859	208,973	18.29%

Further, as discussed in my direct testimony, costs are either directly charged to Niagara Mohawk or allocated using SEC approved cost allocation methodologies. The costs charged to Niagara Mohawk represent Niagara Mohawk's fair and reasonable share of costs for services it received in support of its utility operations. To shift any additional costs to Affiliate Companies would inappropriately and unreasonably allocate Niagara Mohawk's share of costs to other companies thereby undermining the entire process.

Q. Do you believe that reviewing only Service Company charges is the best way to view Niagara Mohawk's costs? Please explain.

1 A. No. What is important for Niagara Mohawk customers is the total level of 2 costs incurred by the Company and that those costs were incurred in a prudent 3 and efficient manner. The origin of those costs is not as important as the total 4 level of costs. Indeed, charges can originate from either Niagara Mohawk 5 itself or one of the Service Companies or, in limited instances, from another 6 affiliate. To cite a specific example, employees in certain functions, such as 7 Accounts Payable, are employed by either Niagara Mohawk or Service 8 Company, as explained in the Company's response to IR DPS-524 (MM-182). 9 What is important for Niagara Mohawk is that Accounts Payable charges are 10 incurred in an efficient, and prudent manner, not what percentage of those 11 costs originates from the Service Company or from Niagara Mohawk. And 12 the Company can show that it is incurring administrative and general (A&G) 13 costs in an efficient and prudent manner. Exhibit (AFS-1R) shows that, 14 since the merger of National Grid and Niagara Mohawk, Niagara Mohawk's 15 electric A&G costs, excluding Customer Assistance Expenses (FERC 908 as 16 the companies being compared have different programs) and Regulatory Commission Expenses (FERC 928 due to the impact of 18-A assessments), 17 18 have decreased on a nominal basis from \$433.8 million in 2001 to \$383.6 19 million in 2009, an 11.6 percent decrease and on a per customer basis from 20 \$272.94 per customer in 2001 to \$236.04 per customer in 2009, or a decrease 21 of 13.5 percent. The Company acknowledges that while A&G costs are

1		higher than they were in 2007, they are still the second lowest among New
2		York utilities. Furthermore, as shown on Exhibit(AFS-3R), absent Pension
3		and OPEB, SIR and storm costs, Niagara Mohawk's A&G costs in the Rate
4		Year are lower than calendar year 2009.
5	Q.	The Staff Accounting Panel says that Service Company charges are
6		"skewed" to Niagara Mohawk. Do you agree?
7	A.	No. As discussed above, the costs charged to Niagara Mohawk reflect direct
8		charges for services provided or Niagara Mohawk's allocable share of costs
9		determined using SEC-approved allocation methodologies. The Staff
0		Accounting Panel argues that its proposed macro adjustment of approximately
1		\$26 million to the Historic Test Year is necessary to correct the "significant
2		skew identified." I explained above that the HTY increase in Niagara
3		Mohawk's charges from the Service Company, both independently and
4		relative to other affiliates, was caused by an increase in Service Company
5		services properly charged to Niagara Mohawk. Moreover, I believe Staff has
6		misinterpreted the Company's response to IR DPS-293 (RAV-89) relating to
7		synergy savings and unreasonably concluded that costs are "skewed" to
8		Niagara Mohawk.
9	Q.	Please explain.
20	A.	The Company's lack of clarity in its response to IR DPS-293 (RAV-89) has
21		led Staff to claim that the Company acknowledges that costs may be skewed

to a particular affiliate. The Company never intended to acknowledge this because it is simply not true. Neither the direct charge nor the allocation of service company costs is skewed. Each company pays the costs directly charged for services provided or its allocable share based on cost causation or approved allocation methodologies. In response to a question regarding synergy savings, the Company was merely attempting to explain why it chose to use a bill pool analysis to determine the synergy savings allocation percentage to Niagara Mohawk as opposed to using the percentage of actual costs charged to Niagara Mohawk. The Company's point was simply that in any year an operating company may have a higher or lower percentage of total costs charged to it based on the level of services being provided. The most fair and reasonable method for allocating savings was therefore to use the bill pool analysis that I explain below.

Q. Please explain IR DPS-293 (RAV-89).

A.

Staff asked the Company to explain how it derived the percentage of the total KeySpan merger savings attributable to Niagara Mohawk. The Company responded by explaining that it had estimated that 24.93 percent of total synergy savings would be attributable to Niagara Mohawk based on a bill pool analysis. As explained in the rebuttal testimony of the Revenue Requirements Panel, KeySpan merger synergy savings were tracked and identified by initiative. To determine the appropriate share of savings attributable to each

1	A CC:1: / C	. 1	. 1 1 1 1 11	1 . 1
ı	Attiliate Company	We accomped at	n individual hill	pool to each initiative.
L	Annau Company,	we assigned an	ii iiiuiviuuai viii	poor to cacin illitiative.

- 2 Savings per initiative would therefore be attributed on the same basis as the
- 3 costs that would otherwise have been incurred.
- 4 Q. Why did the Company use a bill pool methodology to determine the
- 5 percentage of synergy savings attributable to each Affiliate Companies?
- 6 A. The Company believes this methodology provides the most accurate estimate
- 7 of savings attributable to each Affiliate Company because it uses the same
- 8 methodology as is used for shared expenses, and it avoids the anomalies that
- 9 arise from including costs directly charged to individual affiliates in any year.
- In response to IR DPS-293 (RAV-89), the Company attempted to explain that
- this methodology would avoid highs and lows in direct charges to Affiliate
- 12 Companies that can occur because of differing circumstances and activity
- levels. In its response, the Company used the example of Group Audit and
- said that "in any one year Group Audit's actual costs may be skewed to a
- particular operating company." A better way of explaining this would have
- been to say that in any one year Group Audit's costs may be more heavily
- weighted to a particular Affiliate Company because more services were
- 18 provided to that affiliate and therefore more costs were charged to it. For
- example, an audit performed by Group Audit relative to Massachusetts
- 20 Electric Company's ("Mass Electric") service connection procedures would
- 21 result in more costs charged to Mass Electric than if Group Audit were

providing a service that benefited all Affiliate Companies and the costs were shared accordingly. The reverse is also true. In any year, Group Audit's actual costs may be less heavily weighted to a particular Affiliate Company because fewer services were provided to it. Neither of these circumstances should affect the attribution of synergy savings to affiliates. Applying a bill pool to each synergy savings initiative also takes into account that total charges from the Service Companies are driven by many services for which there are no synergy savings initiatives. For example, Mass Electric receives electric transmission support services. If there are no synergy savings associated with these services, it would be inappropriate to include those costs in determining the percentage of synergy savings allocable to Mass Electric and other affiliates.

Q. Is Staff correct in saying that the Company does not monitor costs by the service headings listed in the Service Company Agreements?

Yes. As Staff points out, the Company does not track costs by the list of services provided in the Service Company Agreements. However, Staff's reasoning that because of this the Company can neither specifically identify the costs of those services nor explain and justify any increases in those costs is not correct.

Q. Please explain.

A.

1 A. As the National Grid organization has changed over the years, certain services 2 identified in and provided under the Service Company Agreements have 3 moved to different areas of the Service Company organizations. For example, 4 payroll (a service listed under Accounting in the Service Company 5 Agreements) is now part of the Transaction Delivery Center. Another 6 example is Customer Service. That service is now located within the 7 Customer Energy Services and Customer Service Operations functions. As 8 shown in Exhibit (AFS-4R), there are a number of these situations. The 9 Company's operating departments budget and monitor their costs on a 10 functional basis, with reference to the services provided, not by the headings 11 in the Service Company Agreements. This does not in any way lessen 12 National Grid's ability to track or monitor costs, nor does it invalidate the list 13 of services set out in the Service Company Agreements that have been in 14 place in largely their current form for some years. 15

Q. **Did Staff submit Information Requests on this issue?**

16

17

18

19

20

21

A. Yes. Staff first submitted IR DPS-299 (RAV-95), which requested all charges to Niagara Mohawk from the National Grid Service Company broken down by the services listed in the agreements for the calendar years 2006 through 2008 and for the Historic Test Year. The Company provided this information to Staff in the format requested. Then, in IR DPS-300 (RAV-96), Staff asked the Company to explain every increase greater than inflation for those services

1 by listing in the agreements. The Company discussed the question with Staff 2 and explained that, for the reason identified above, it does not monitor 3 increases in costs by the headings in the Service Company Agreements. The 4 Company explained that significant work would be required to reclassify data 5 from the Company's current reporting and tracking system to the Service 6 Company Agreement headings. The Company provided the information in 7 the format available (by department code/function). The Company also 8 prepared a reconciliation of the Historic Test Year costs to the prior year that 9 included 41 line items with specific explanations and justifications for 10 increased charges from the National Grid USA Service Company to Niagara 11 Mohawk and additional information explaining charges from the KeySpan 12 Service Companies to Niagara Mohawk. As identified in that response, the 13 most significant drivers of the increase were storm and pension costs. The 14 fact that the Company does not track Service Company costs in the format 15 sought by Staff does not mean that the Company can not or does not 16 effectively control and monitor Service Company costs. 17

O. What are convenience payments?

18

19

20

21

A.

As explained in IR DPS-340 (RAV-118), convenience payments are amounts paid by a Service Company on behalf of an Affiliate Company that has incurred the cost directly. Examples of the types of charges that are paid by a Service Company on behalf of Niagara Mohawk include employee benefits

1 (such as health insurance) and income taxes. For example, the Service

2 Company will send one check to the insurer on behalf of one or more

affiliates, and charge back the amount owed. No interest or premium is

4 charged by the Service Company for this service.

A.

Please address Staff's claim that Niagara Mohawk's failure to monitor

convenience payments independently means that the Company does not

have the information necessary to monitor Service Company costs. (Staff

Accounting Panel at 94).

This is a *non sequitur*. While the Company has not been able to track convenience payments (where the service company merely makes the payment for a cost that has been directly incurred within an affiliate) separately, this information would do nothing to improve its ability to monitor its Service Company charges for services rendered to affiliates. More importantly, Niagara Mohawk tracks all of its costs by the relevant cost component/ expense types. The fact that the costs were paid by the Service Company and charged back to Niagara Mohawk as convenience payments instead of being paid directly has no impact on Niagara Mohawk's overall costs. In Staff's example of a convenience payment relating to payroll taxes, Staff correctly explains that the Service Company writes one check to the Internal Revenue Service for payroll taxes in lieu of multiple checks from affiliates, and charges back to each affiliate the amount it owes. In its January

1	29, 2010 filing, the Company included a comprehensive calculation of payroll
2	taxes, which had been paid by Service Company and charged back to Niagara
3	Mohawk as convenience payments.

Q.

A.

Has the Company evaluated Staff's concern that Service Company charges to unregulated affiliate companies appears to have declined 17.5 percent and that Niagara Mohawk and its regulated affiliates may be subsidizing this decrease (Staff Accounting Panel at 77)?

Yes, and we do not agree. As Staff point out, this figure should be normalized for the sale of Ravenswood generating station, which reduces the amount to a 6.2 percent decline. In addition, as I discuss above, charges associated with the KeySpan money pool entity should also be normalized. Making this adjustment reduces the decrease in Service Company charges to unregulated affiliates to 2.5 percent. However, even if the decrease in costs charged to unregulated affiliates were significant, it would provide no foundation for Staff's statements that this "means more is being charged to the regulated affiliates, all else equal" or that this "could mean the regulated affiliates are subsidizing the costs of the unregulated affiliates." Staff ignores the fact that Service Company charges are not static from year to year. Rather, annual direct and allocated charges from the Service Companies are based on the nature and magnitude of work required by the Affiliate Companies in that year. No sound conclusion or fair allegation about subsidization can be based

1		on the fact that Service Company charges to unregulated affiliates declined in
2		the Historic Test year.
3	Q.	Staff provides two examples where they believe Niagara Mohawk may be
4		subsidizing unregulated Affiliate Companies (Staff Accounting Panel at
5		75). Did the Company review these allocations?
6	A.	Yes. Specifically, Staff questions allocations relating to software license
7		permit costs and PeopleSoft ERP costs. The Company reviewed these
8		invoices and determined that an adjustment needs to be made to the software
9		license permit costs, but that the PeopleSoft ERP allocation is correct.
10	Q.	Please explain.
11	A.	First, Staff questions a purchase order relating to a software license
12		agreement. The purchase order was provided in response to IR DPS-282
13		(DAG-27) and says: "this purchase order funds a multi-site license term for
14		use by National Grid companies for the cost of \$127,500 per year for a three
15		year commitment. This license permits National Grid to use the software for
16		the benefit of LIPA." Staff concludes that LIPA is being subsidized by
17		regulated National Grid affiliates because LIPA was not allocated a share of
18		the costs.
19	Q.	Is it appropriate that the regulated Affiliate Companies receive charges
20		for this software?

1	A.	The software at issue is a GE maps product that is used by the Transmission
2		Planning functions in the Legacy National Grid and LIPA. Prior to the
3		KeySpan merger, separate contracts existed for the Legacy National Grid and
4		KeySpan (on behalf of LIPA). The contracts were consolidated after the
5		merger and the purchase requisition language clearly provides that the costs
6		are to be allocated 33.4 percent to National Grid and 66.6 percent to LIPA
7		(through the MSA with LIPA) to accurately reflect use of the software. It is
8		therefore appropriate to charge the regulated affiliate companies their
9		appropriate share of these costs. In reviewing the charges, however, the
10		Company discovered that the costs were charged to the legacy National Grid
11		companies as if the contract consolidation had not occurred. An adjustment is
12		therefore required to reflect LIPA's 66.6 percent of the costs and this change
13		will be reflected going forward.
14	Q.	Staff says that Niagara Mohawk's allocated share of the legacy National
15		Grid license software costs (33.4 percent of the total) is overstated at
16		56.43 percent. Do you agree?
17	A.	No. Niagara Mohawk's share of the costs is not overstated. The SEC
18		approved bill pool allocator uses a simple mathematical calculation to
19		determine the fair and reasonable costs to be borne by each company based on
20		their respective use of the software. That mathematical calculation is the
21		transmission operation and maintenance costs of each affiliate company over

total transmission operation and maintenance costs. This calculation fairly and reasonably identifies the appropriate cost drivers and allocates costs accordingly.

Q. Please explain the Company's review of PeopleSoft ERP costs.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

A.

As identified in response to IR DPS-36 (RAV-22), PeopleSoft ERP costs are allocated through bill pool 00380 to all legacy National Grid Companies based on Operation and Maintenance Expenses. This is an SEC approved allocation methodology. All of the legacy National Grid companies use the PeopleSoft system as their financial ledger. Accordingly, it is appropriate that all of these companies should bear their fair share of the costs. Niagara Mohawk pays the greatest percentage of PeopleSoft costs because Niagara Mohawk has the highest percentage of the total Operation and Maintenance expenses. The other companies are smaller and their total Operation and Maintenance expenses represent a smaller percentage of the total. Their allocated share of PeopleSoft costs is less than Niagara Mohawk but proportionately the same. The Company has reviewed the allocation methodology and bill pool and determined that the PeopleSoft costs are being fairly and appropriately allocated to the legacy National Grid companies. Exhibit (AFS-5R) shows how bill pool 00380 allocates costs to the various operating companies. As can be seen, the Operation and Maintenance costs for the two unregulated affiliates mentioned by Staff for comparative purposes

1		(Wayfinder Group Inc. and Valley Appliance and Merchandise ("VAMCO"))
2		are extremely small, both representing less than 1 tenth of 1 percent of total
3		O&M expense, respectively. These unregulated affiliates are effectively
4		dormant, which accounts for the fact that they have de minimis O&M and
5		therefore received de minimis charges.
6		Exhibit(AFS-5R) also shows that Niagara Mohawk, the largest of the
7		legacy National Grid companies, is allocated 52.9 percent of the total
8		PeopleSoft ERP because Niagara Mohawk has 52.9 percent of the total
9		Operation and Maintenance costs. Niagara Mohawk is not subsidizing
10		unregulated Affiliate Companies, but rather is paying its fair and reasonable
11		share of costs based on an approved cost allocation methodology.
12	Q.	Based on your analysis, do you agree with the Staff Accounting Panel
13		conclusion that unregulated affiliates are being undercharged or cross
14		subsidized?
15	A.	No. As stated above, the examples offered by Staff do not indicate that there
16		is any systematic undercharging or subsidies to unregulated affiliates or that
17		Niagara Mohawk is being systematically overcharged. The allocation review
18		done at the end of FY2009 found that two percent of invoices over \$100,000
19		utilized an inappropriate allocation methodology. The GE Maps software
20		invoice referenced above would fall into this category. The allocation of the
21		PeopleSoft ERP costs is correct.

IV. <u>Cost Allocation – Rent Expense</u>

- 2 Q. Please explain the Staff Accounting Panel's adjustment to the Reservoir
- Woods facility.

1

4 The Staff Accounting Panel proposes a \$1.925 million adjustment to rent A. 5 expense for the Reservoir Woods facility. Staff claims the cost of Reservoir 6 Woods and the Westborough facility are allocated to affiliates based on the 7 time charged to the Service Company departments at these facilities. 8 According to Staff, because Reservoir Woods is allocated among 30 9 companies or segments, whereas Westborough was allocated among 14 10 companies or segments, Niagara Mohawk's 32 percent allocation of Reservoir 11 Woods should be lower than its 24.6 percent share of Westborough. Staff 12 claims the Company's allocation methodology is inconsistent and proposes to 13 fix this inconsistency by creating a new methodology based on the percentage 14 of total service costs allocated to Niagara Mohawk from both the National 15 Grid USA and KeySpan Service Companies in 2009. This would result in an 16 allocation of 21.15 percent of the costs of Reservoir Woods to Niagara 17 Mohawk.

18 Q. Does the Company agree with the rationale for Staff's adjustment?

19 A. No. We disagree with Staff's arguments in support of the adjustment for the 20 following four reasons. First, Staff misstates the allocation methodology. 21 Second, Staff fails to recognize the fundamental difference between the services Niagara Mohawk receives from Reservoir Woods and the services it previously received from the Westborough facility. Third, the Company's allocation methodology is not inconsistent; it has been filed with the SEC and is the same methodology used by the Company in its recent gas rate case, Case 08-G-0609. Fourth, Staff's proposed allocation of 21.15 percent is arbitrary and without evidentiary support.

Q. Please explain your first issue with Staff's adjustment.

A.

The allocation methodology for the Reservoir Woods and Westborough facilities is not based solely on time charged, as Staff indicates. Rather, as explained in the Company's response to IR DPS-182 (AAE-20) cited by Staff, the allocation is based on "the time charged to the National Grid system companies by Service Company departments that use the National Grid facilities . . . weighted by the amount of square footage occupied by each such department at each respective facility." (emphasis added). Therefore, facility costs allocated to affiliates can and will vary depending on (a) the number of departments that occupy a particular facility, (b) the floor area that each department occupies as a proportion of the total floor area, and (c) the time that each occupying department charges to each affiliate for services rendered. As the Westborough and Reservoir Woods facilities had very different occupancy and service delivery profiles the affiliate locations will also vary.

- 1 combined with the increased level of services being provided by them to
- Niagara Mohawk that explains the difference in the percentage of expenses
- allocated between Reservoir Woods and Westborough to Niagara Mohawk.
- 4 Staff's failure to identify the proper allocation methodology and the difference
- 5 in occupancy patterns calls into question the basis for the adjustment.
- 6 Q. Please discuss your second issue with Staff's adjustment and explain how
- 7 the Reservoir Woods facility provides an increased level of service to
- 8 Niagara Mohawk compared to the Westborough facility.

20

9 A. Staff's assumes that the Reservoir Woods facility provides the same level of 10 services to Niagara Mohawk as the Westborough facility once did. This is not 11 the case, however. As the Company explained in its response to IR DPS-182 12 (AAE-20), Reservoir Woods and Westborough are two entirely different 13 facilities that provide different levels of service to Niagara Mohawk. 14 Specifically, the departments that formerly occupied the Westborough facility 15 provided a greater proportion of services to National Grid's New England 16 affiliates than to Niagara Mohawk. The New England Control Center, for example, occupied 14 percent of Westborough, and provided services directly 17 18 to the New England affiliates. The Legal, Load Research, and Regulatory 19 departments at Westborough also provided services primarily dedicated to the

New England affiliates. Niagara Mohawk's former allocation of 24.6 percent

- of the costs of the Westborough facility reflected the level of services and floor space dedicated to the Company.
- Q. How does Reservoir Woods compare to Westborough in terms of servicesand floor space dedicated to Niagara Mohawk?
- 5 A. In contrast to the Westborough facility, the departments at the Reservoir 6 Woods facility occupy a larger percentage of floor space and provide a greater 7 percentage of services to Niagara Mohawk. Reservoir Woods represented a 8 reorganization of National Grid. The construction of Reservoir Woods 9 allowed National Grid to move departments that were previously located in 10 facilities other than Westborough to a single, centralized location. 11 Electric Delivery Operations organization is a prime example. Departments 12 within this organization include Distribution Asset Management and Project 13 Management & Construction, to name two. These departments all provide a 14 large percentage of services to Niagara Mohawk and occupy a significant 15 amount of floor space, whereas in the past, they served Niagara Mohawk from 16 facilities other than Westborough, such as the Northborough facility.
- Q. Staff claims the Company did not provide any calculations to explain why
 Niagara Mohawk's share of Reservoir Woods is more than its share of
 Westborough. Is that a correct statement?
- 20 A. No, it is not. Attachment 1 to IR DPS-182 (AAE-20) is a table comparing the 21 Reservoir Woods and Westborough facilities. It clearly shows why Niagara

Mohawk is allocated a greater percentage of the costs of Reservoir Woods than it was from Westborough. Specifically, the table shows the departments at Reservoir Woods and Westborough, the percentage of total square feet each occupied by each and the percentage of costs each department charged to Niagara Mohawk. As Attachment 1 shows, the total square footage of the departments providing services to Niagara Mohawk in Reservoir Woods totals 195,506 square feet with a total allocation rate of 32.02 percent. By comparison, the total square footage of the departments in Westborough that provided service to Niagara Mohawk totaled only 178,900 square feet with a total allocation rate of 23.54 percent. Staff fails to address Attachment 1 in their testimony.

- Q. Does the Company have any additional calculations to further demonstrate that the costs of Reservoir Woods and Westborough are being properly allocated?
- 15 A. Yes. Exhibit ____ (AFS-6R) is a table that provides a square footage
 16 comparison by functional area of Reservoir Woods and Westborough. The
 17 exhibit shows that 68.7 percent of Reservoir Woods is dedicated to
 18 operational functions, with 43.8 percent of the facility dedicated specifically
 19 to electric distribution. This is significant considering that Niagara Mohawk
 20 accounts for almost 50 percent of National Grid's US electric distribution

business. In contrast, Westborough was almost the complete opposite, as 67.6
 percent of the building was dedicated to shared services functions.

Q. What is the significance of these figures?

3

19

4 A. Staff's analysis assumes that Reservoir Woods is a shared services facility 5 building - one that allocates a greater percentage of its time across all of the 6 National Grid companies - similar to Westborough; therefore, following 7 Staff's logic, the costs to Niagara Mohawk should be the same. As Exhibit 8 (AFS-6R) shows, however, this is not the case. Staff fails to recognize the 9 fundamental shift in services now being provided to Niagara Mohawk from 10 Reservoir Woods. Reservoir Woods is more of an operational building, with 11 43.8 percent of the facility dedicated specifically to electric distribution. This 12 means Reservoir Woods contains a greater concentration of departments that 13 provide direct services to Niagara Mohawk. In addition to the direct services 14 being provided from these operational departments, Niagara Mohawk is also 15 receiving its allocated percentage of shared services costs from Reservoir 16 Woods. Simply put, the departments in the Reservoir Woods facility occupy a 17 larger percentage of floor space and provide a greater percentage of services 18 to Niagara Mohawk.

Q. Please discuss your third issue with Staff's adjustment.

A. Staff's argument that the Company's allocation methodology is inconsistent is false. The Company's methodology for the allocation of costs between

Reservoir Woods and Westborough has been filed with the SEC. It is also the same methodology that the Company used to allocate the costs of the

Westborough facility in the Company's recent gas rate case, Case 08-G-0609.

3

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

A.

Q. Please discuss your fourth issue that Staff's proposed allocation of 21.15
percent for the Reservoir Woods facility is arbitrary and without
evidentiary support.

Staff's proposed allocation of 21.15 percent is based on the percentage of total costs allocated to Niagara Mohawk from both the National Grid USA and KeySpan Service Companies in 2009. There is no evidence to support such an allocation. Indeed, Staff's 21.15 percent allocation is lower than the 24.6 percent that was previously allocated to Niagara Mohawk from the Westborough facility, which, as demonstrated above, houses far fewer services and devotes much less floor space to Niagara Mohawk than the Reservoir Woods facility. Further, the KeySpan Service Companies provide significant amounts of service to the gas companies. As discussed above, Reservoir Woods is primarily dedicated to the electric business. In the response to IR DPS-18 (RAV-13), the Company indicated that the KeySpan Service Companies charged Niagara Mohawk only 4.6 percent in 2009. Thus, Staff's inclusion of the KeySpan Service Companies in this equation fails to take into account cost causation factors, and serves only to drive down the allocation factor. Staff's position has no merit.

1	Given that approximately 86 percent of employees occupying
2	Reservoir Woods are employed by National Grid USA Service Company, a
3	more accurate comparison would be to compare the percentage of costs
4	charged to Niagara Mohawk by National Grid USA Service Company in
5	2009. Utilizing the data supplied by the Company in its response to IR DPS-
6	18 (RAV-13), the following percentage of National Grid USA Service
7	Company charges were allocated to Niagara Mohawk electric:
8 9 10 11 12	 2006 = 34.5 percent (Dist 28.5%, Trans 6.0%) 2007 = 36.1 percent (Dist 29.1%, Trans 7.0%) 2008 = 34.3 percent (Dist 27.4%, Trans 6.9%) 2009 = 34.4 percent (Dist 27.8%, Trans 6.6%) AVERAGE = 34.9 percent (Dist 28.2%, Trans 6.7%)
13	This data indicates that, on average over the last four years, 34.9 percent of
14	the costs of the National Grid USA Service Company have been allocated to
15	Niagara Mohawk electric. If the Company were to allocate the costs of the

the costs of the National Grid USA Service Company have been allocated to Niagara Mohawk electric. If the Company were to allocate the costs of the Reservoir Woods property on the same basis, an overall rate of 32 percent of costs being allocated to Niagara Mohawk would be in line with the allocations of the overall National Grid USA Service Company costs.

Q. Please explain the Staff Accounting Panel's adjustment to the SOC facility.

16

17

- 21 A. The Staff Accounting Panel proposes four adjustments related to the SOC.
- The first three of these adjustments reduce facilities expense, depreciation

expense, and plant in service by \$0.082 million, \$0.092 million, and \$1.605 million, respectively. The final adjustment increases SOC accumulated deferred income taxes by \$0.118 million. In support of the adjustments, Staff merely states that the Niagara Mohawk allocation rate for Reservoir Woods and Syracuse are different and that to fix this alleged inconsistency, Staff proposes a 21.15 percent allocation to SOC in line with the allocation they proposed for Reservoir Woods above.

8 Q. Does the Company agree with Staff's adjustment?

A.

No. Similar to the Reservoir Woods adjustment, the SOC adjustment is arbitrary and made without factual support. Historically, the Company has allocated affiliate owned facilities and Service Company owned or leased facilities differently. Niagara Mohawk owned facilities, like SOC, have been allocated based on O&M expense, whereas Service Company owned or leased facilities, like Reservoir Woods, have been allocated based on time charged, weighted by floor space occupancy, as discussed above. The Company allocated the costs of SOC in the same way in the Company's last gas rate case.

Q. Do you have any further comments on Staff's adjustments to facility costs?

1 A. Yes. At page 130, lines 8 to 14, of the Staff Accounting Panel's testimony, 2 they state that, "[i]f the Commission does not agree that the allocations should 3 be reduced to 21.15 percent, then the allocation for Reservoir Woods should at 4 least be reduced to the 25.6 percent allocation factor used by National Grid on 5 the SOC for consistency." We note that if the Company were to allocate 6 Reservoir Woods based on the SOC bill pool, the costs of the facility would 7 shift to customers of the legacy KeySpan utilities in Downstate New York, 8 which currently receive only a small percentage of services from Reservoir 9 Woods, consistent with the services they receive Exhibit (AFS-7R) is a comparison showing the current bill pool for Reservoir Woods and using the 10 11 25.6 percent allocation factor proposed by Staff. It demonstrates that the costs 12 allocated to Downstate New York customers would increase from \$4.324 13 million to \$5.843 million in the Rate Year, an increase of \$1.519 million. The 14 costs allocated to Upstate New York customers would decrease from \$6.378 15 million to \$5.390 million, a decrease of \$0.988 million, and therefore a net 16 increase to total New York State of \$0.531 million. Thus, Staff's method would inappropriately shift costs from Niagara Mohawk to the KeySpan 17 18 utilities without regard to cost causation.

Q. Please continue.

19

A. The Company also notes that if the Commission were to adopt Staff's theory that any facility that houses shared service functions should be allocated based

on the percentage of total service company charges to the affiliates, the Company would need to increase the allocations to Niagara Mohawk from facilities such as MetroTech in Brooklyn. MetroTech's rent expense in the Historic Test Year was \$11 million, of which only two percent was charged to Niagara Mohawk. If we were to increase the allocation to 21.15 percent, in accordance with Staff's rationale, this would require an increase of approximately \$2 million in Niagara Mohawk's rent expense in this case.

A.

V. Cost Allocation - Consultant Expense

Q. Please summarize the issues Staff raises relating to cost allocation of Consultant Expense.

Staff primarily raises three issues. First, Staff asserts that certain costs have been "misallocated" due to the use of an inappropriate bill pool. Second, Staff asserts that certain costs have been "mismapped" between legacy accounting systems. Third, Staff proposes a number of normalizing adjustments to the Historic Test Year. Staff cites a number of specific invoices to support its position and proposes a normalizing adjustment of \$3.2 million to remove certain charges originating from and charged to Niagara Mohawk in the Historic Test Year. Staff submits that the remaining \$6 million of adjustments relating to specific invoices supports its request for a \$26 million macro adjustment. However, although the Company agrees that certain isolated

adjustments are appropriate, the vast majority of Staff's adjustments are inappropriate and unsupported. Exhibit __ (AFS-8R) provides detailed supporting information relating to each of the invoices discussed below including a comparison of the Company's and Staff's adjustments.

1) <u>Allocation Issues</u>

A.

Q. Please summarize Staff's adjustments relating to alleged allocation issues.

First, Staff argues that the Historic Test Year costs for Morgan Lewis's work on four matters should be normalized out, either in whole, or in part, because they were either an inappropriate allocation to Niagara Mohawk or a non-recurring cost. Next, Staff proposes adjustments to remove costs associated with International Computer Marketing Corporation ("ICM") and Vitec Solutions ("Vitec") on the basis of allegedly improper allocations to Niagara Mohawk. The Company disagrees with Staff's position for three reasons. First, Staff points to a sample of invoices to make a wholesale disallowance of legitimately incurred costs. This is inappropriate and arbitrary, as Staff is performing a selective look at only limited invoices. Second, it is incorrect for Staff to allocate charges based on the geographical locations referenced in the invoices. Third, it is also incorrect for Staff to conclude that, because various invoices have different allocation rates to Niagara Mohawk, the entire costs should be disallowed. As shown on Exhibit __ (AFS-8R), the

1		Company is making certain adjustments to more accurately allocate charges to
2		Niagara Mohawk. The Company is also reviewing how Morgan Lewis bills
3		the Company to make sure cost allocation is correct.
4		2) <u>Mapping Between Service Company Accounting Systems</u>
5	Q.	Staff says that double counts and errors could have occurred when
6		transitioning costs between legacy National Grid and KeySpan Service
7		Company accounting systems (Staff Accounting Panel at 303). Does the
8		Company agree with this statement?
9	A.	No. It is not possible. During the planning phase of the 2007 merger of
10		KeySpan and National Grid, it was determined that it would not be possible to
11		fully assimilate KeySpan companies onto the legacy National Grid financial
12		system (PeopleSoft) in time to allow for uninterrupted financial and
13		management reporting. Therefore an interim solution was designed to pass
14		data between KeySpan's ledger system (Oracle) to PeopleSoft and vice versa.
15		This two-way integration includes a mapping of the Oracle to PeopleSoft
16		account codes and incorporates internal control and correction procedures for
17		any transactions that have no mapping. This design is referred to within
18		National Grid as "The Bridge."
19		
20		In summary, transactions are processed by a Service Company and then
21		passed between systems and converted to the receiving system's charts of

accounts. If no mapping can be derived, transactions are mapped to a suspense account to ensure they are represented in the financial balances of the receiving system. Through a reconciliation, suspense balances are eliminated as account codes are subsequently reviewed and mapped, or the subject transaction is reversed in the sending system if upon review the transaction is determined to be erroneous. Controls exist within both the Accounting group and the Financial Solutions group to monitor and manage suspense balances.

A.

Q. Can transactions be double counted as they pass between systems?

No. It is not possible for transactions to be double-counted or duplicated as they are passed from one system to the other, nor can they be mapped to multiple accounting strings. The Bridge was designed to not include any cross charging of the Service Companies' Income Statements for the express purpose of avoiding double allocations. National Grid bill pools do not include any KeySpan Service Companies to prevent charges entering the KeySpan system and subsequently being returned to any National Grid operating company that may have already been charged. As a further enhancement to the system, validation rules are now in place to prohibit any expenses being charged to a Service Company Billing Entity that would be passed over the Bridge. There are also reconciliation reviews to ensure that each transferred file between KeySpan and National Grid is received only

1	once and that t	he two systems	are always in sync.	Variance reports are used
---	-----------------	----------------	---------------------	---------------------------

- 2 to determine that all transactions are received in total and that ledger balances
- 3 tie between the two systems.

4 Q. Please summarize the Staff Accounting Panel's normalizing adjustments

- 5 to contractor expense.
- 6 A. Staff proposes an adjustment to remove certain NESCO contractor credit and 7 collections and call center costs on the basis that they are not recurring and 8 that the Company's labor forecast reflects the transfer of employee recruiting 9 services to be performed internally by the Company. Staff proposes second 10 adjustment to contractor costs on the basis that certain Mercer Human 11 Resources costs have not been sufficiently supported and are not recurring in 12 the Rate Year. Finally, Staff proposes a third adjustment to remove KeySpan 13 Corporate Services LLC consulting costs due to a lack of supporting invoice 14 documentation.

15 Q. Please summarize the Company's response to these adjustments.

A. First, the Company agrees that in certain limited instances adjustments are appropriate. The Company has, however, in all cases provided sufficient documentation and support for the Historic Test Year costs. Second, in addition to the information provided in Direct Testimony and discovery, I have included Exhibit __ (AFS-8R) to support certain vendor costs. Finally, an inadvertent production error resulted in supporting documentation

1	inadvertently	being	omitted	from	a	discovery	response	to	Staff.	The
2	information ha	as been	produced	l and th	ne (costs fully s	supported.			

3

4

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

A.

VI. Cost Allocation Review

5 Q. Does the Company agree with Staff's position that the Service Company cost review process is ineffective?

No. Staff argues that the process is ineffective for the reasons explained previously relating to lack of independence. Following the merger with KeySpan, National Grid underwent significant organizational change. National Grid assumed responsibility for operating four service companies under two separate and distinct accounting systems with very different processes. The accuracy and integrity of cost allocations was of paramount importance. In the first few months after the KeySpan merger, National Grid reiterated its commitment to ensuring that cost allocations are appropriate and management commissioned a Cost Allocation Integrity Project team. National Grid committed some of its most experienced resources to work on the project team, including two former Internal Audit Directors and a former Internal Audit Manager, whose combined experience includes several decades of service working for National Grid and predecessor companies, including Niagara Mohawk. The Project Team was governed by a Cost Allocation Integrity Steering Group, as documented in the Company's response to IR

1	DPS-338 (RAV-116). The Project Team performed a comprehensive review
2	of Service Company employee labor allocations and non-labor transactions
3	for the period April 2008 through January 2009. The project review
4	population consisted of 3,538 invoices with a total value in excess of \$3.2
5	billion and a review of the labor allocations of over 7,200 Service Company
6	employees. The results of the review were that 98 percent of the invoices
7	reviewed were found to have correctly applied an approved allocation. Also,
8	92 percent of the labor allocations were found to have correctly applied an
9	approved allocation methodology. It was noted that some of the exceptions
10	were due to the gradual transition, integration and consolidation of services
11	that occurred in the first year after the KeySpan merger.
12	In addition to the work performed by the Company around cost allocation
13	integrity, the Company engaged PricewaterhouseCoopers ("PwC") to assist
14	the Company in its evaluation and testing of the cost allocation process. PwC
15	provided advisory services and issued a report dated May 15, 2009. In its
16	overall observations, PwC states that while some exceptions were noted
17	through the testing conducted, there were no pervasive trends or large errors
18	noted.
19	National Grid continuously strives for better procedures and greater accuracy.
20	While the Company acknowledges that in limited and isolated situations the
21	cost allocation process is subject to coding errors that result in over or under

allocations, the Company maintains a culture of compliance and commitment
to constant improvement that includes comprehensive review and testing
procedures to minimize any such errors. The Company believes that with
well designed controls and effective review, the overall impact of errors is not
material.
While isolated errors have been identified, based on the review work
performed by the Company and PwC, these errors are not indicative of any
larger, systemic issues.

Q. What did the team do with the results of the review?

A.

The Project Team took actions including making invoice corrections that resulted in a net allocation shift of \$0.3 million from legacy KeySpan affiliates to legacy National Grid affiliates. All Service Company employee labor allocations that were noted as being in need of an update were made on a prospective basis as discovered. The Project Team conducted a cost allocation training campaign to foster a culture of cost allocation awareness across the newly restructured organization. The Cost Allocation Integrity Project Team also updated the Cost Allocation Policies and Procedures and other cost allocation tools that were then posted on the Company's Infonet website for employees to reference.

Q. Has the Cost Allocation Integrity Steering Committee made any recommendations?

1	A.	Yes. One recommendation is that a permanent Cost Allocation Review
2		Committee take over responsibility for the on-going review of Service
3		Company allocations after the Project Team is disbanded. As described in the
4		Company's response to IR DPS-336 (RAV-114), the Cost Allocation Review
5		Committee is comprised of representatives of each of the National Grid Lines
6		of Business who are accountable for the financial results of each business
7		segment so that a meaningful review and challenge of Service Company
8		allocations can be conducted. In addition, there is also representation from the
9		National Grid's Legal and Regulation & Pricing Departments. The
10		Committee has met on a regular basis since the disbanding of the Cost
11		Allocation Integrity Project team and the results of their reviews and meeting
12		minutes were provided to Staff in response to IR DPS-336 (RAV-114). And
13		while Review Committee members are employees of one of the Service
14		Companies, they are charged with ensuring allocations are correct across all of
15		National Grid's entities.
16	VII.	Construction Work Order Closings
17	Q.	What adjustments does the Staff Accounting Panel propose with respect
18		to plant accounting for CWIP work orders closings?
19	A.	Staff recommends that the Company expense \$6.827 million as depreciation
20		within 30 days of the Order in this case and make a corresponding reduction
21		of \$6.827 to rate year net plant.

Q. What is the basis for Staff's adjustment?

A.

A. The basis for staff's adjustment is an assertion that there have been unusual delays in the processing time to close construction work orders to plant in service and that this has resulted in an understatement of depreciation expense. Staff then performed the calculations summarized below to produce an estimate of the depreciation expense that would have been charged had work order closure been completed within 1 month of the advised plant in service date.

O. Please describe staff's calculation

First, in response to IR DPS-3 (AAE-3), the Company provided an estimate of \$3.526 million representing depreciation expense for the period between January 1, 2005 through December 31, 2009 for projects that have greater than a six month period between the in-service date and the closing date, allowing for a one month closing lag. Second, Staff calculated an additional \$1.35 million of depreciation for the same period January 1, 2005 through December 31, 2009 for projects closed less than six months from the inservice date, allowing for a one month closing lag to increase calculated depreciation expense for that period by \$4.876. Third, to account for 2003 and 2004, for which information was not available, Staff then calculated an average annual depreciation expense of \$.975 million and applied that average

to the entire seven year period to arrive at their proposed adjustment of \$6.827 million. (Staff Accounting Panel at 368-375).

- Q. Please summarize Staff's position with respect to its proposed write-off of \$6.827 million of depreciation and the corresponding reduction in rate year net plant.
- 6 A. Staff states that delayed closings of construction work orders to plant in 7 service results in avoided depreciation expense during the period of delay. 8 Staff cites the Uniform System of Accounts (USOA) by stating that "Work 9 orders shall be cleared from [Construction Work in Progress] as soon as 10 practicable after completion of the job." Staff interprets "as soon as 11 practicable" to be within one month of the plant being placed in service. Staff 12 further states that when it is not possible to achieve the 1 month work order 13 processing time that the Company should true up depreciation expense as if 14 closure had occurred in 1 month. As I will discuss later in my testimony, this 15 true up process would have to be executed manually and would apply to the 16 majority of work orders closed in any year. Staff further argues that the virtue of its recommended adjustment is to ensure that the shareholders would bear 17 18 the cost of closure processing time that is greater 1 month. Staff have not 19 provided any support for the 1 month work order closure processing time and 20 as I will show later in this testimony, this is an unreasonably short processing 21 time that is out of step with industry practice and would be very costly to

rectify using manual procedures with minimal impact on either the depreciation expense charged in the period or rate base. Staff's proposed adjustment for prior periods is therefore inequitable and unreasonable and should be rejected.

Q. Please summarize the Company's response to this adjustment.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

A.

The Company does not agree with Staff's proposed adjustment for two principal reasons. First, Staff's adjustment is inequitable and unreasonable as it requires the Company to incur retroactive depreciation expense without any corresponding adjustment to remove any excess depreciation incurred on assets replaced by a new construction work order and that would have retired effective from the same work order closure date. There will also be other retirements processed in the same period that also have processing times greater than 1 month. In addition, Staff does not propose to compensate the Company for its foregone return for those assets retroactively assumed to be in service but never included in rate base. Second, Staff's proposal that all closings occur within one month of in service dates is not reflective of the specific work performed or practical implementation constraints. Further, Staff's proposal does not consider the cost of the significant manual work that will be required to true up these offsetting impacts in depreciation, and the resulting change to rate base relative to the minimal improvement in accuracy that will be achieved.

Q.	Please explain in more detail	why Staff's pr	oposal is inequita	able and
•	1	· I		

2 unreasonable?

1

3 A. Staff's proposal requires that the Company incur the depreciation expense 4 retroactively to 2003 thereby increasing the depreciation reserve and reducing 5 the Company's rate base. Under Staff's proposal, the Company must 6 retroactively incur the depreciation expense for newly constructed assets that 7 have not been depreciated from the in-service date to the closing into FERC 8 106 – Completed Construction Not Classified ("CCNC"). Staff fails, 9 however, to recommend a corresponding adjustment to reverse the excess 10 depreciation incurred on assets that would have been retired for that same 11 period assuming the one-month closing rule. For the duration of the delay in 12 closing the new project work order, the assets to be retired continued to 13 depreciate until they were finally closed to FERC 108 ("Accumulated Reserve 14 for Depreciation"). This one-sided proposal is inequitable to the Company 15 and unreasonable because it would afford customers a benefit they are not 16 owed. Staff's adjustment is also inequitable because it seeks to reduce rate base for 17 18 the benefit of customers without compensating the Company for the 19 corresponding foregone return. Based on Staff's assumption of consistent 20 closing delays, the Company's rate base would have been understated in 2001 21 when rates were last established and remain understated today. Customers

have therefore already been receiving the benefit of lower rate base in the current rate plan. Staff nevertheless proposes that this understated rate base be reduced further by \$6.827. At the same time, Staff does not propose that the Company be compensated for its foregone return for in-service assets where the work order was delayed past when rate base was established. In any case, Staff's interpretation that closing work orders "as soon as practicable" means closing within one month of in service dates is not reasonable and is not achievable.

A.

Q. Why does the Company believe that a one month construction work order close processing time is not reasonable or achievable?

The issue of construction work order close processing times is industry-wide and not specific to National Grid. The nature, scope and scale of construction projects varies widely and inevitably some work orders will have shorter processing times to close to plant in service while others will take longer. There are two main reasons driving work order close processing times. First, processing times will be extended when work orders do not include all of the necessary accounting requirements required by the company's fixed asset accounting system, PowerPlant. In complex projects where this information is more difficult to source an estimate is required in PowerPlant for transferring costs to FERC 106, CCNC. Second, close processing times will be extended when multiple work orders are generated to plan, schedule and execute the

5	0.	Please explain how completing the accounting estimates required by
4		stage/complexity of the project will then be retrospectively set.
3		until the project in total is complete. The in service dates for each
2		work orders for the various stages/components of the project will remain open
1		various stages in what is a single construction project. In these situations the

Please explain how completing the accounting estimates required by PowerPlant in order to close construction work orders drives processing time.

A. The functions that experience the longest work order close processing times are transmission work over 115kV, distribution and transmission sub-stations and facility projects. These projects tend to be larger and more complex, so making the required information more difficult to produce. Also, there is not an automated interface between the various estimating systems and PowerPlant, these complex project estimates (that are generally prepared outside of PowerPlant) must be manually entered into the Company's PowerPlant accounting system, which is a significant effort. All other capital projects have standardized compatible units that automatically generate estimates in PowerPlant, which will shorten work order closure processing times.

Q. Why are in-service dates backdated?

A. Because of the information required to close construction work orders it is not possible to simultaneously record a plant in service date and close the related

work order. All in service dates will therefore be backdated to some extent.

However, as I have covered in previous testimony, there are a number of factors that drive the processing time between the reporting of a plant in service date and work order closure. More simple, smaller projects will tend to have shorter close processing times while the larger and more complex projects that often contain multiple work orders reflecting each stage in the project will have longer close processing times and therefore a longer back dated in service date. Processing times will also be extended where a project is waiting for a customer interruption to allow newly constructed assets to be energized. This process can take considerable time, even though the project may have been completed months previously.

Q. Has the Company taken any action to improve its closing process?

A.

Yes. National Grid has been proactively striving to improve closing work orders to plant in-service by undertaking a comprehensive plan. As noted above, extended work order close processing times are driven by the underlying nature of the construction work, are not specific to National Grid and have historically impacted all utilities. Prior to system automation, all work orders were closed manually from maps and paperwork handed off to accounting from the field. With the development of work management systems, Niagara Mohawk, like other utilities, began automating this process by building interfaces between work management and the fixed assets system.

However, as noted above, not all of Niagara Mohawk's work can currently be managed automatically in work management systems and as a result, manual work is still required. Solutions for this manual work, which include transmission, sub-stations, and facility projects are not available in PowerPlant and are still to be developed. Prior to the implementation of the Enterprise Resource Planning System in 2004, the Company closed many more "blanket" work orders automatically. The Company now has greater detail to support individual work order closings, but also increased close-out volume. In addition, Plant Accounting has implemented internal controls to ensure the proper and timely closing of CWIP dollars. As part of the CWIP analysis process, system and process training for individuals involved in the work order process has been reinforced. Reports have been generated to address inactive work orders to improve on the timely reporting of in-service dates. Project engineers are alerted when a project is estimated at over one hundred thousand dollars and actual dollars have reached seventy five percent of budgeted dollars. The engineers are required to reply regarding the status of the project and Plant Accounting responds accordingly. A quarterly review process has been implemented to review all work orders with total costs exceeding one million dollars and monthly aging reports are available to project engineers to be reviewed for project status.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Rebuttal Testimony of Andrew F. Sloey

1	Q.	Does the Company agree with Staff's recommendation to automatically
2		true up depreciation when the one month closing period can not be
3		achieved?
4	A.	No. Aside from the practical reasons stated above for closings exceeding one
5		month, Company does not have the functionality to true up depreciation
6		expense (on either newly constructed assets or retirements) back to a
7		retrospective in service date. Any true up would therefore be a complex
8		manual calculation that would have to be applied to [many/the majority] of
9		work orders. This would impose a significant additional cost.
10	Q.	What other recommendations does the Staff Accounting Panel propose
11		with respect to plant accounting for CWIP work order close processing
12		times?
13	A.	Staff recommends that the Commission in its order require the Company to
14		include a comprehensive analysis of avoided depreciation in the Company's
15		next gas and electric rate cases.
16	Q.	Does the Company agree with these recommendations?
17	A	No. As stated above, the Company does not believe that Staff's depreciation
18		adjustment is necessary or appropriate. Therefore, it also does not believe that
19		the recommended analysis is necessary.
20	Q.	Does this conclude your testimony?
21	A.	Yes.

Before the Public Service Commission

NIAGARA MOHAWK POWER CORPORATION d/b/a NATIONAL GRID

Supplemental Testimony

<u>of</u>

Andrew F. Sloey

Dated: August 30, 2010

1	Q.	Please state your name.
2	A.	My name is Andrew F. Sloey.
3		
4	Q.	Have you previously provided testimony in this proceeding?
5	A.	Yes. I provided direct testimony as part of Niagara Mohawk Power Corporation's
6		d/b/a National Grid ("Niagara Mohawk" or the "Company") January 29, 2010
7		filing, Corrections and Updates testimony submitted on May 3, 2010, and
8		Rebuttal Testimony filed on August 6, 2010.
9		
10	Q.	What is the purpose of your testimony?
11	A.	We are responding to the Supplemental Testimony of the Staff Accounting Panel
12		dated August 6, 2010. Specifically, we address Staff's comments on certain
13		employee expenses.
14		
15	Q.	Do you sponsor any exhibits?
16	A.	Yes. I sponsor the following exhibit:
17 18 19		Exhibit (AFS-1S): Expatriate and Other Employee Expenses Reviewed for the Historic Test Year
20	Q.	Please explain the Staff Accounting Panel's comments on employee expenses.
21	A.	The Staff Accounting Panel questions the appropriateness of certain employee
22		expenses identified by the Massachusetts Attorney General's office in Docket No
23		10-55. Staff does not propose any specific adjustments relating to these expenses

1		but offers them in support of its \$26 million macro adjustment to Service
2		Company charges.
3	Q.	Did the Company review the specific employee expenses questioned by Staff?
4	A.	Yes. The Company found that these specific expenses fall into two general
5		categories.
6		Certain costs relate to expatriate employee expenses that the Company is
7		removing from the cost of service and the other costs have been identified as
8		officer and director employee expenses.
9	Q.	Is the Company proposing an adjustment to its revenue requirement?
10	A.	Yes. As shown on Exhibit_(AFS-1S), Summary Sheet, the Company is
11		removing \$4.266 million from its cost of service. This adjustment consists of
12		\$3.378 million of expatriate expenses, approximately \$784,000 of officer and
13		director employee expenses and inflation.
14	Q.	Please explain the Company's review of expatriate expenses.
15	A.	As explained in a letter dated August 12, 2010 to the Administrative Law Judges
16		in this proceeding, the Company noted that expatriate employee expenses would
17		be removed from the revenue requirement as those expenses should properly be
18		borne by shareholders. At this time, the Company is removing expatriate
19		employee payroll and benefit costs from Niagara Mohawk's cost of service. We
20		are also removing living and relocation costs that have been identified as
21		expatriate expenses. Exhibit(AFS-1S), Summary Sheet and Sheets 1 through 6
22		include Niagara Mohawk's allocated share of the total expatriate expenses, which
23		is being removed from the revenue requirement. In total, the Company is

1		removing approximately \$3.4 million of expatriate expenses. Sheets I through 6
2		reflect the total expatriate expenses billed from United Kingdom affiliate
3		companies or paid through the Company's Expense Report System or Accounts
4		Payable in the Historic Test Year. The sum of these expenses is reflected on the
5		Summary Sheet of Exhibit_(AFS-1S).
6	Q.	Why is the Company removing expatriate expenses from Niagara Mohawk's
7		cost of service?
8	A.	Although National Grid believes the expatriate program provides value to all of
9		its operating companies, it has become apparent from our review that some
10		expatriate costs were misallocated or should have been charged to shareholders.
11		In order to prevent future errors, National Grid intends to retain an outside,
12		independent firm to conduct a comprehensive review of Company policies and
13		practices to distinguish between the expatriate costs that are appropriate for
14		inclusion in a cost of service and those that are not and to ensure the proper
15		allocation of those costs. The Company looks forward to continuing its
16		relationship of transparency by sharing the lessons learned in that review with the
17		Commission at the appropriate time. For purposes of this case and in the interests
18		of expediency, however, we are simply removing expatriate costs as described
19		above.
20	Q.	Did the Company review the other specific expenses questioned by Staff?
21	A.	Yes. In addition to expatriate expenses, Staff questioned other employee expense
22		items determined to have been incurred by officers and directors of the Service
23		Companies or the Massachusetts Gas Companies and charged to Niagara

Mohawk. The Summary Sheet of Exhibit__(AFS-1S) reflects expenses that the Company agrees should be removed from the Company's revenue requirement totaling \$784,028. The costs we are excluding comprise the employee expenses for officers and directors of Niagara Mohawk in addition to the employee expenses for officers and directors of the aforementioned companies. The word "directors" is used here to refer to those employees who serve on the Board of Directors of the respective companies. Although the majority of these costs are properly included in the costs of service, our review has revealed that some employee expenses were misallocated or should have been charged to shareholders. Similar to the approach that we plan to take with respect to expatriate costs, National Grid intends to retain an outside, independent firm to conduct a comprehensive review of Company policies and practices to distinguish between officer and director employee expenses that are appropriate for inclusion in a cost of service and those that are not and to ensure the proper allocation of those costs. The Company will also share the lessons learned in that review with the Commission at the appropriate time. For purposes of this case and in the interests of expediency, however, we are simply removing the employee expenses for the officers and directors of the companies listed above.

Q. Does this conclude your testimony?

20 A. Yes.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

1	ALJ BOUTEILLER: We have identified all of
2	your exhibits with a preliminary numbering from 54 to
3	80.
4	And I believe you said that the witness is
5	available for cross-examination. Let's turn first to
6	staff for cross-examination of this witness.
7	MS. CICERANI: Thank you, Your Honor.
8	CROSS-EXAMINATION
9	BY MS. CICERANI:
10	Q Good morning, Mr. Sloey.
11	A Good morning.
12	MS. CICERANI: Your Honor, first I had sent
13	an e-mail to the parties and to Your Honors
14	concerning a large exhibit that contains IR responses
15	that staff would be using to try to move this along a
16	little bit, and it has IR responses not only that we
17	used with Mr. Sloey but other IR responses, and I'd
18	like to mark that for identification. It is an
19	exhibit of the Department of Public Service staff
20	concerning certain Information Requests, and it is
21	312 pages long.
22	ALJ BOUTEILLER: Okay. Let's go off the
23	record while you distribute that around, and while
24	we're off the record I'll find out if this is
25	supposed to be 326.

1	MR. O'BRIEN: 326.
2	(Discussion off the record.)
3	ALJ BOUTEILLER: While off the record we had
4	copies distributed to everyone in attendance, and we
5	can mark this for identification as Exhibit Number
6	326.
7	(Exhibit No. 326 was marked for
8	identification.)
9	MS. CICERANI: Thank you, Your Honor.
10	BY MS. CICERANI:
11	Q Mr. Sloey, if you could turn to page 17, lines 11 to
12	13 of your rebuttal testimony, there you state that one of
13	the controls to ensure proper charges to affiliates is
14	that service companies allocation codes and billing pools,
15	which are used to charge affiliate companies, are based on
16	predetermined allocation methodologies approved by the
17	SEC, is that correct?
18	A That's correct.
19	Q And then on page 7 of your direct testimony, if I
20	could refer you there
21	A I'm there.
22	Q at about line 3 you state that "before the repeal
23	of the Public Utility Holding Company Act of 1935 the SEC
24	had jurisdiction over the regulated over and regulated

25

such service company transactions and that the allocation

- 1 methods approved by the SEC continued to be used by the
- 2 company that allocates service company costs, " is that
- 3 correct? I'm sorry. Page 7, line 17?
- 4 A Oh, thank you. That's correct.
- 5 Q Do you agree that the SEC jurisdiction over these
- 6 transactions was repealed by the Energy Act of 2005 and
- 7 the passage of the Public Utility Holding Company Act of
- 8 2005?
- 9 A I believe that's the case.
- 10 Q And FERC assumed jurisdiction over these types of
- 11 transactions in 2005 with the enactment of the Public
- 12 Utility Holding Company Act of 2005, is that correct?
- 13 A I believe that also to be the case.
- 14 Q Does FERC require that National Grid service company
- 15 contracts and their underlying cost allocation methods be
- approved or authorized by FERC?
- 17 A I believe they're required to be approved by FERC,
- 18 correct.
- 19 Q Do you know under what section they would require
- 20 that?
- 21 A I don't.
- MS. CICERANI: Your Honor, we'd like to make
- a record request that Mr. Sloey identify under which
- 24 section the company is using to indicate that FERC
- 25 actually requires that these contracts be approved or

- 1 authorized.
- 2 ALJ BOUTEILLER: You have no objection to
- 3 him conferring with his own counsel to provide you a
- 4 response they'll provide?
- 5 MS. CICERANI: I do not.
- 6 ALJ BOUTEILLER: Okay.
- 7 BY MS. CICERANI:
- 8 Q Do you know whether FERC requires that the National
- 9 Grid service company contracts and their underlying cost
- 10 allocation methods have to be filed with FERC, just filed?
- 11 A I don't believe that they have to be filed with FERC.
- 12 And when you say "contracts," we're actually talking about
- the allocation methodology, so there are service company
- 14 agreements and contracts between the service company
- 15 affiliates for the allocation methodologies that are
- 16 contained therein.
- 17 Q We're actually referring to both.
- 18 A I don't believe -- I don't believe either are
- 19 required to be filed. I just believe -- my understanding
- is that the allocation methodology needs to be approved.
- 21 Q By FERC?
- 22 A By FERC.
- 23 Q And you will provide the information as to where --
- 24 underlying that belief?
- 25 A We will.

1	ALJ BOUTEILLER: Let me just be clear. The
2	first request that you made was what kind of
3	provision of federal law required that they provide
4	submission of their items for approval. Now you're
5	asking a factual question, I believe, and the
6	question, I think, that might follow up from there is
7	to your knowledge, has the company submitted its
8	allocation methodologies to FERC and had them
9	approved?
10	THE WITNESS: To my knowledge, we have. All
11	of the methodologies we're using across the Legacy
12	service companies have been approved by FERC, and we
13	can provide the date and reference of that approval.
14	ALJ BOUTEILLER: Okay. By reference to the
15	approval, the actual documentation you received from
16	FERC approving your proposal?
17	THE WITNESS: I would have to confer to find
18	out what sits below the approval, but we maintain as
19	part of our records and our compliance the date we
20	got approval for a particular methodology. These
21	methodologies have been very stable and have been in
22	place for quite some time on both the Legacy Grid
23	side and the Legacy KeySpan side. In fact, I'm
24	actually struggling to recall when we actually had a
25	new methodology approved. They tend to be very

stable.
ALJ BOUTEILLER: Okay. But the nature of
regulation of your company has gone through major
modifications within the last decade, I would
suggest, and I guess what we'd like to understand in
the first instance is if you have a required
allocation method which is binding and imposed by the
federal government, that being FERC, can you give us
the transaction that led to the process that you're
employing now? And I think that's the call of the
inquiry, to find out exactly what's mandated or
required by FERC.
THE WITNESS: Correct.
ALJ BOUTEILLER: Thank you.
MS. CICERANI: Thank you, Your Honor.
BY MS. CICERANI:
Q Mr. Sloey, at page 17, lines 13 and 14 of your
rebuttal, you indicate that the company's allocations and
bill pools include an inherent control framework, is that
correct?
A Correct.
Q Considering that the SEC no longer has jurisdiction
over these, can you explain how the allocations and the
bill pools include an inherent control framework?

Yes, because the approval defines how -- defines how

25

Α

- the allocation methodology will be applied. And then
- within our accounting systems, we use those bill pools and
- 3 we record accounting strings, so people only have to
- 4 record an activity that points to the way the allocation
- of the bill pool will work. So we take that
- 6 decision-making away, and it's actually executed through
- 7 the system.
- 8 Q Okay. We're operating now under the assumption that
- 9 you received an approval from the FERC who now regulates
- 10 these issues?
- 11 A Correct.
- 12 Q So I guess we'll wait to see what the response is to
- determine that. Thank you.
- 14 At page 46 of your rebuttal, line 21 --
- 15 A Rebuttal, did you say?
- 16 Q Yes.
- 17 A Yes.
- 18 O You state that the company's methodology for the
- 19 allocation of costs between Reservoir Woods and
- 20 Westborough has been filed with the SEC. On what date did
- 21 the company file its allocation methodology with the SEC,
- do you know?
- 23 A I don't know, Counsel. I'd have to make an inquiry.
- 24 Q Could you please provide the date that the company
- 25 filed its allocation methodology for Reservoir Woods with

- 1 the SEC to us?
- 2 A We will.
- 3 ALJ BOUTEILLER: Yes. And for purposes of
- 4 the record, unless counsel objects to any information
- 5 request, we will assume that your silence means that
- 6 you're accepting the information request and will
- 7 respond to it as quickly as you can reasonably do?
- MS. SWEET ZAVAGLIA: Yes, Your Honor.
- 9 ALJ BOUTEILLER: Okay. We'll turn back
- 10 again to staff counsel.
- MS. CICERANI: Thank you.
- 12 BY MS. CICERANI:
- 13 O Do you know whether the reservation woods allocation
- methodology was approved?
- 15 A I believe it was, correct -- Reservoir Woods,
- 16 Counselor.
- 17 Q Okay. Could you provide that approval, also?
- 18 A We will.
- 19 Q Thank you. If you could turn to page 9, line 17 of
- 20 your direct testimony --
- MS. NESSER: What page, Jane?
- MS. CICERANI: Page 9, line 17, of direct
- 23 testimony.
- MS. NESSER: Thank you.
- 25 A Line 17?

ALEXY ASSOCIATES, INC. (518) 798-6109

- 1 O Yes. It starts on line 17. There you discuss the
- 2 service level agreements being developed by National Grid,
- 3 and I'd just like to ask you a few questions about these
- 4 agreements. If you could look to your response to DPS
- 5 295, it's actually page 88 of Exhibit, what I believe is
- 6 326, the exhibit that was just marked, the new one. Yes,
- 7 that's the one.
- 8 A I'm sorry, Counsel. Would you just repeat the page
- 9 number? 326?
- 10 Q No. It is page 88 of that exhibit.
- 11 A I have it.
- 12 Q Is it correct that the service level agreements will
- 13 not be legally binding contracts between Niagara Mohawk
- 14 and the National Grid service companies?
- 15 A That's correct.
- 16 Q And is it your understanding that these service level
- 17 agreements will not be inter-affiliate agreements between
- 18 Niagara Mohawk and the National Grid service companies so
- that they would not be filed under Section 110(3) of the
- 20 Public Service Law?
- 21 A That is my understanding.
- 22 Q Is it correct that the service level agreements will
- 23 not be the basis of the service company cost allocations
- 24 and charges to Niagara Mohawk from the National Grid
- 25 service companies?

- 1 A I think it's not going to be the basis, but I think
- 2 you have to -- if I could just qualify, you have to look,
- 3 I think, at the way the purpose of the service level
- 4 agreement is to set out and improve the operating
- 5 performance of the service company and improve the cost
- 6 profile, so it will affect the cost that will ultimately
- 7 be charged to Niagara Mohawk, but it won't be the basis of
- 8 their determination.
- 9 Q Thank you.
- 10 A It's how -- if I could -- it's how, sort of, the
- 11 operational management and the vice presidents responsible
- for service company activity jointly agree to improvement
- of programs and priority and execution.
- 14 O Is it -- but it's not the basis, so is it the service
- 15 company contracts that are filed with the PSC under PSL
- 16 Section 110(3) that will continue to be the basis for the
- 17 allocation of those costs?
- 18 A Correct. They will set out the scope of the service
- 19 and the allocation basis.
- 20 Q Is it also correct that FERC will not audit the
- 21 operation of the service level agreements but will instead
- 22 examine the cost allocation transactions under the service
- 23 company agreements?
- 24 A I don't know how FERC would conduct and progress on
- 25 the next order, but certainly, when they were conducting

- the affiliate transactions, they were very interested in
- 2 how we were approaching this and what we were doing, so it
- 3 was certainly a matter of discussion with FERC. I don't
- 4 know whether it will be a formal part of their subject
- 5 matter when they produce their audit report.
- 6 Q Thank you. In Exhibit AFS-8R, you go through various
- 7 allocations of invoices and make some adjustments to your
- 8 direct testimony to explain adjustments that you've made
- 9 from your direct case, is that correct?
- 10 A Yes, it is correct. I have it.
- 11 Q I'm actually going to have you look back at the
- 12 exhibit you probably just put down.
- 13 A That's okay.
- 14 Q That is page 219 of Exhibit 326. This is the
- 15 company's response to IR DAG-58 and Attachment 1. Do you
- 16 have that?
- 17 A I have it.
- 18 O If you could look to Attachment 1, you can see that
- 19 there are three different billing pools that are used --
- 20 being used to allocate the Alston Bird invoices shown on
- 21 that sheet; do you see that? It's 233, 236 and 238.
- 22 A Correct.
- 23 Q Would you accept, subject to check, that bill pool
- 24 236 is used to allocate the Alston Bird work done on the
- 25 FERC standards of conduct?

- 1 A I couldn't tell from here, so it will have to be
- 2 subject to check. I have no idea what the subject matter
- 3 is of the Alston and Bird invoice.
- 4 O You would have to check that invoice?
- 5 A Subject to check.
- 6 Q Then looking at that attachment, that Niagara
- 7 Mohawk's share of this type of work for bill pool 236 is
- 8 44.55 percent, is that correct?
- 9 A That's correct, out of bill pool 236.
- 10 Q Thank you. Would you accept, subject to check, that
- 11 bill pool 238 is used to allocate all the Alston Bird work
- done on FERC monitoring?
- 13 A Again, subject to check.
- 14 Q Thank you. And that Niagara Mohawk's electric share
- of this type of work is 54.33 percent?
- 16 A Correct.
- 17 Q Thank you. Do you know whether the Alston Bird
- 18 description of FERC monitoring applies to a particular
- 19 case, or is it of a more general descriptive category?
- 20 A Counsel, I have to check. It feels more general
- 21 descriptive, but I'd have to check.
- 22 Q Okay. Do you know whether that category, the more
- 23 general category of FERC monitoring, applies to just
- 24 electric, or is it electric and gas operations? Does it
- 25 cover both?

- 1 A I'd have to check. I believe we have FERC -- I
- believe we have gas utilities that are also FERC-reported,
- 3 so it would be both.
- 4 O Do the FERC standards of conduct apply only to the
- 5 electric portion of the industry or to both electric and
- 6 gas?
- 7 A I don't believe it distinguishes. It would apply to
- 8 both. But again, I have to check, but I believe it's
- 9 universal.
- 10 Q And bill pool 238, which concerns the --
- 11 A The FERC monitoring.
- 12 Q -- the FERC monitoring, that also would possibly
- 13 contain both electric and gas?
- 14 A It depends. I guess it would depend on the nature of
- 15 FERC monitoring. I mean, was it related to specific
- issues related to just the electricity business, or was it
- 17 more general related to electric and gas. And until I
- understood the nature, I couldn't comment.
- 19 MS. CICERANI: Your Honor, we'd like to mark
- for identification a three-page document -- well, it
- is from Attachment 6 to DAG-3-SAP, and it is the
- 22 redacted version.
- 23 ALJ BOUTEILLER: For identification we'll
- 24 mark this as Exhibit Number 327.
- MS. CICERANI: Thank you.

ALEXY ASSOCIATES, INC. (518) 798-6109

- 1 (Exhibit No. 327 was marked for
- identification.)
- 3 BY MS. CICERANI:
- 4 O Mr. Sloey, if you could just take a minute, you might
- 5 want to review some of the descriptions and, in the final
- 6 column on Exhibit 327, to see the type of work. I know
- 7 it's a little difficult to see.
- 8 A It might take me more than a minute. I've scanned a
- 9 few. I don't know.
- 10 Q Okay. I'm actually looking, for example, 1, 2, 3, 4,
- 11 5 up from the bottom where the description is "looking for
- items of interest to Grid." Do you see that?
- 13 A Yes, I see that.
- 14 Q And then the next one right below that, "monitor
- 15 industry and regulatory issues that may be of interest to
- 16 National Grid." Do you see that, also?
- 17 A I see that.
- 18 O Having reviewed this, would you suggest that this
- 19 FERC monitoring matter number probably covers more generic
- 20 type cases than something specific?
- 21 A I'd agree, Counselor, it feels generic, but I just
- don't have any knowledge of the matter.
- 23 Q If you could look up at the very first one, there it
- indicates that there was a review of an e-mail regarding a
- gas topic to report. Do you see that?

- 1 A Regarding -- from somebody walker regarding gas
- 2 topics, correct.
- 3 Q Is it likely that bill pool 238 has allocations to
- 4 gas companies, also?
- 5 A The invoice should have allocations to gas company.
- 6 I'd have to check the 238 bill pool.
- 7 Q Okay. We can do that. You can look at AFS-8R. I
- 8 believe it's page -- well, I'm not sure which page, but I
- 9 will look. Somewhere around page 103.
- 10 A I don't know if it goes to 103.
- 11 Q I'm sorry. It's in SAP-2.
- 12 A That explains it. Which is SAP-2, Counsel?
- 13 Q Do you not have a copy of SAP-2 up there? We can
- 14 show it to you. This was pre-filed --
- 15 MS. CICERANI: This was a pre-filed exhibit
- of the Staff Accounting Panel, Your Honor.
- 17 ALJ BOUTEILLER: At this point you just want
- 18 to have the witness have a copy of the Staff
- 19 Accounting Panel's exhibit in front of him for
- 20 cross-examination?
- MS. CICERANI: Yes, sir.
- 22 A Thank you.
- 23 O You're welcome.
- 24 ALJ BOUTEILLER: Which page are we working
- on on this?

- MS. CICERANI: Page 43.
- 2 A I'm on it.
- 3 Q You're on it, okay. If you look there, you can see
- 4 the bill pool category 238?
- 5 A Yes, ma'am.
- 6 Q You see it includes Nantucket Electric, Massachusetts
- 7 Electric, New England Power, United State, Niagara Mohawk
- 8 and Narragansett Electric?
- 9 A I can see.
- 10 Q So are there any gas companies listed there?
- 11 A No, Counselor, there aren't.
- 12 O Thank you. The matter number -- the matter name
- 13 "FERC standards of conduct," do you know whether that
- applies only to the electric portion of the industry or to
- 15 both electric and gas?
- 16 A Counselor, I believe it applies to both.
- 17 Q Why is -- you had already indicated that -- the
- 18 percentages that Niagara Mohawk Electric's share was?
- 19 A In 238 bill pool, yes, off the previous exhibit.
- 20 Q Right. And also on 236?
- 21 A Sorry?
- Q And also on 236? Both bill pools?
- 23 A Both bill pools, correct.
- 24 Q Thank you. Why is Niagara Mohawk Electric charged a
- 25 higher percentage for the FERC monitoring than it is for

- the FERC standards of conduct, 54.33 percent versus the
- 2 44.55 percent?
- 3 A I'd have to look at the underlying transaction. I
- 4 don't know. It doesn't appear logical. But I'd have to
- 5 look at the underlying detail.
- 6 Q Could you provide us that information, please, the
- 7 underlying detail and the information?
- 8 A The basis for that discussion?
- 9 Q Yes. Thank you. Is it correct that National Grid's
- 10 unregulated affiliate, KeySpan Electric Services, LLC,
- 11 provides O&M and construction management services to the
- 12 Long Island Power Authority for its transmission and
- 13 distribution facilities?
- 14 A That's correct.
- 15 Q If you could look at SAP-2, pages 41 through 49?
- 16 A This one?
- 17 Q Yes.
- 18 A The section starting "Counsel listed bill pools"?
- 19 O Yes. Is it correct that none of the Alston Bird
- 20 legal costs for FERC monitoring, as we've described as
- 21 being encompassed in bill pool 238 -- is it correct
- that -- I lost my own place there.
- 23 A It's on page 43.
- 24 Q Thank you.
- 25 A You're welcome.

- 1 O Is it correct that none of the -- those Alston Bird
- 2 legal costs for FERC monitoring are shown allocated to
- 3 KeySpan Electric Services, LLC?
- 4 A That's correct.
- 5 Q And none of Alston Bird's legal costs for the FERC
- 6 standards of conduct are allocated to KeySpan Electric
- 7 Services, LLC, is that correct?
- 8 A That's correct. Can I just sort of clarify one
- 9 point? National Grid's business, transmission and
- 10 distribution business on Long Island isn't FERC-regulated.
- 11 It's only its generation business. And by far the largest
- 12 piece of business on Long Island is the transmission and
- distribution business. Under the electric services we are
- 14 effectively LIPAs. We're effectively LIPAs. LIPAs
- 15 provide the services that would be LIPA that would be
- 16 subject to that regulation. The generation business is
- 17 regulated by FERC -- or contractually.
- 18 O So it's your understanding that the LIPA system is
- 19 subject to FERC regulation?
- 20 A I couldn't comment on exactly how. All I can comment
- 21 on is National Grid's contractual relationship for T&D
- 22 services on Long Island, and there National Grid is the
- 23 provider of the services to LIPA. LIPA actually is the
- 24 utility on Long Island. The situation is slightly
- 25 different for the generation activities on Long Island.

- 1 Still, National Grid is the provider, but those
- 2 arrangements, those contractual arrangements between LIPA
- 3 and National Grid are FERC-regulated.
- 4 So I quess the point I'm flagging, Counselor, is I
- 5 have to sort of dig into it a little bit, but I'm actually
- 6 not surprised for FERC monitoring that there isn't T&D --
- 7 an allocation to a T&D company on Long Island. I am
- 8 surprised there isn't KeySpan generation services on their
- 9 invoices. I offer that comment.
- 10 Q But you did offer to provide some digging in of
- 11 additional information?
- 12 A Yeah. But I think the two points are what's National
- 13 Grid's status in relation to the provision of T&D services
- on Long Island, which is not the utility that's LIPA. And
- 15 separately, the status of FERC regulation or oversight of
- the generation activities on Long Island.
- 17 Q But KeySpan Electric Services does perform a
- 18 management function for LIPA, correct?
- 19 A Correct, but it's directly to LIPA. We are not the
- 20 utility. We are LIPA's provider of services on Long
- 21 Island. LIPA is the utility.
- 22 Q Well, since you do assist in some fashion --
- 23 A I'm sorry?
- Q Whatever we call it, is it possible that the legal
- knowledge that was obtained by the law firms, Alston Bird

- and the others, for National Grid in those more generic
- 2 reviews, that those -- that that information is shared
- 3 with the KeySpan Electric Services and that that would be
- 4 valuable to LIPA?
- 5 A I couldn't tell you. I'd have to comment that I'd
- 6 have to go and check, because I think that depends on the
- 7 nature of the relationship, which is actually being
- 8 regulated by FERC. I can tell you with respect to
- 9 generation that would be the case. I would have to check
- in relation to -- by far the largest part of the business
- is the transmission and distribution services on Long
- 12 Island.
- 13 ALJ BOUTEILLER: Can you in your inquiry
- 14 find out whether or not, did LIPA make any use of the
- information that was gained and costs which were
- 16 allocated to Niagara Mohawk?
- 17 THE WITNESS: I will.
- 18 ALJ BOUTEILLER: Thank you.
- 19 A Sorry. It's a confusing contractual arrangement.
- 20 Q That's okay. Is it correct that billing code 233 was
- 21 used to allocate general transmission work for Alston Bird
- 22 performed for National Grid? Or maybe I should say would
- 23 you take it subject to check?
- 24 A Can we do that, yeah, because it will be another five
- documents.

- 1 Q That's correct. Niagara Mohawk Electric's share of
- the billing code 233 is 56.43 percent. Would you accept
- 3 that, subject to check?
- 4 A It would probably be on the schedule here.
- 5 Q It might be.
- 6 A And wouldn't it be 54?
- 7 Q I'm sorry?
- 8 A Wouldn't it be 54? Page 43, so, Counsel, page 43.
- 9 Q Well, I have -- if you look above that, 233 at the
- top, it's got 56.43 several times. And then also it looks
- like there's two numbers, either 56.43 percent and then
- 12 also the 54.
- 13 A Then, Counsel, I must be on the wrong page. I'm on
- 14 page 43.
- 15 ALJ BOUTEILLER: Let's go off the record.
- 16 (Discussion off the record.)
- 17 BY MS. CICERANI:
- 18 O The question was whether it was correct that Niagara
- 19 Mohawk Electric's share of billing code 233 is 56.43
- 20 percent?
- 21 A That is correct on the schedule.
- 22 Q All else equal, if some of these general transmission
- 23 work legal invoices were allocated to KeySpan Electric
- 24 Services, LLC, for the general transmission work it
- 25 performs for LIPA, is it correct that Niagara Mohawk

- 1 Electric's share of these costs would be less than the
- 2 56.43 percent it was allocated, all else equal?
- 3 A All else equal, Counsel, I think that would be the
- 4 case, but I would want to check because of the contractual
- 5 relationship between T&D, I'm not sure that the FERC
- 6 oversight in relation to T&D business is appropriate, and
- 7 that's the point I think we said we would go and check.
- 8 Q Okay, thank you. In AFS-8R, I believe it's sheet 5
- 9 of 72, it's around page 95.
- 10 A Rebuttal, yeah.
- 11 Q Yes. The AFS-8R to the rebuttal?
- 12 A Could you repeat the page number, Counsel?
- 13 Q Page 95.
- 14 A My 8R only goes up to 72.
- 15 O I'm sorry. It's sheet 5 of 72. 95 is the number at
- 16 the bottom. I apologize.
- 17 A Sheet 5 of 72.
- 18 O And there you -- you take the position that 27
- 19 percent of the cost for the FERC financial audit to be
- 20 allocated to Niagara Mohawk Electric, is that correct?
- 21 A Correct.
- Q And for that you'd be using, it looks like, bill pool
- 23 239, is that correct?
- 24 A Where do you see that? Oh, at the bottom of the
- 25 paragraph. Correct.

- 1 O Thank you. Do you know whether bill pool 239 also
- 2 allocates a portion of its cost to any of National Grid's
- 3 other unregulated affiliates?
- 4 A I don't. I'd have to check. Couldn't we check off
- 5 the other exhibit, SAP-2 that we just looked at?
- 6 Q You can look at SAP-2, page 43. I'm sorry. Page
- 7 239. I have no idea why I said 243. I know why. I'm
- 8 sorry. It's page 43. I'm a little confused, and I
- 9 apologize. SAP-2, page 43.
- 10 A Okay, I have it.
- 11 ALJ BOUTEILLER: The question is whether or
- not any of these are National Grid unregulated --
- 13 MS. CICERANI: Unregulated affiliates,
- that's correct, Your Honor.
- 15 ALJ BOUTEILLER: Affiliates.
- 16 A I think subject to the question around KeySpan
- 17 Electric Services and KeySpan Generation Services, because
- 18 those are contractual relationships sometimes with
- 19 regulatory oversight, they're not directly regulated.
- 20 Q Thank you. The reason you allocate some portion of
- 21 these other -- you allocate some portion to these other
- 22 unregulated affiliates is that some of the billing pool
- 23 allocations looked at in the FERC audit also include
- 24 allocations to these affiliates, is that correct?
- 25 A Part of the scope of the audit, yes, was compliance

- 1 with FERC cross-subsidization provisions.
- 2 Q What Niagara Mohawk employee checks to see if Niagara
- 3 Mohawk is getting the proper share of legal invoices
- 4 billed through the service company?
- 5 A What employee of Niagara Mohawk?
- 6 Q Correct.
- 7 A It wouldn't be an employee of Niagara Mohawk. It
- 8 would be an employee of the service company who has
- 9 responsibility for the activities of Niagara Mohawk.
- 10 Q So is there any Niagara Mohawk employee who would
- 11 check to see if Niagara Mohawk is getting the proper share
- of any invoices billed through the service company?
- 13 A Possibly, because if there are employees of Niagara
- 14 Mohawk relating to fuel activities, and there are invoices
- 15 like storm costs flowing through the service company,
- 16 they'd be checked within -- by employees of Niagara
- 17 Mohawk. If you're talking about certain corporate
- 18 services activities, they would be by employees of service
- 19 companies who are responsible for the activities.
- 20 Q If someone from Niagara Mohawk would be checking,
- 21 what actually would be their process? Would they then
- 22 have to report that to a service company employee or
- through the service company?
- 24 A If they're checking the invoice, based on the
- 25 delegations they record their approval of that invoice

- 1 through the system. It's online.
- 2 Q So Niagara Mohawk employees have the ability to make
- 3 the -- make their own allocation?
- 4 A That's correct. Where the activity is within the
- 5 scope of their authority, correct.
- 6 Q Can you give me examples of what types of activities
- 7 those might be?
- 8 A It would be more fuel-related. The employees of
- 9 Niagara Mohawk are largely connected with field activities
- in the Niagara Mohawk service territories, so it would be
- 11 activities in relation to those activities.
- affiliate should be charged the costs for things such as
- rewards paid out to employees who put out the fire at the
- 15 unregulated generating plant in Port Jefferson? Did
- anyone from the service company check this out?
- 17 A I'm not familiar with the particular transaction.
- 18 I'm not actually familiar with the fire at the plant that
- 19 you refer to.
- 20 Q What about AMX gift cards that were given to
- employees, does that sound familiar to you?
- 22 A Only from the newspaper. I'm not familiar with the
- 23 particular transaction.
- 24 Q Okay. But you did read that in the newspaper?
- 25 A I did.

1	Q And did not at that point follow to determine whether
2	or not that was accurate?
3	A I didn't.
4	Q So do we know who from the service company would
5	actually check that out?
6	A Well, it would be the vice president responsible for
7	the activity, so we'd have to understand, you know, who
8	organized that transaction, what the basis of that
9	transaction was, and then how that vice president made the
LO	decision.
L1	ALJ BOUTEILLER: Let me just interject and
L2	you can inform me and help me understand and
L3	appreciate how the intercorporate transactions might
L4	go. But I think the thrust of the questions you just
L5	heard are asking the question, within the entity
L6	known as Niagara Mohawk, is there any check or
L7	balance on your allocation process which would occur
L8	within that entity in isolation from the service
L9	company or from a parent company or anyone else? Is
20	that a possibility, or is that feasible? Is that the
21	way you operate?
22	THE WITNESS: Your Honor, to properly answer
23	the question at two levels, at a transactional level,
24	if a Niagara Mohawk employee engages creates a

transaction within the scope of their authority, that

25

1	transaction will be approved within Niagara Mohawk by
2	the employee the entity, Niagara Mohawk.
3	ALJ BOUTEILLER: Let's just stick with that.
4	So if I'm a lineman at Niagara Mohawk
5	THE WITNESS: Or a supervisor.
6	ALJ BOUTEILLER: Let's just make me a
7	lineman, okay? My time has to be allocated to
8	somebody, and in the first instance I would indicate
9	who I think the allocation should be to, me or my
10	supervisor?
11	THE WITNESS: That's right, and your
12	supervisor would approve the times, and there would
13	be that check that happens within the system.
14	ALJ BOUTEILLER: I'm thinking of something
15	different. I'm thinking in terms of at some point
16	somebody produces a report, and that report says
17	"this is the totality of allocations to this entity
18	known as Niagara Mohawk and, in particular, its
19	electric operations." Is there anybody within the
20	organization known as Niagara Mohawk Electric who
21	would then either do a check or a balance or review
22	of that for the accuracy of the information contained
23	in that invoice indicating the total amount, or would
24	that all be done within the service company proper?
25	THE WITNESS: I'm getting just just to

give a little explanation, I'll try to help the understanding. National Grid uses a line of business model, so we have management teams that are set at a line of business level, and those lines of business management teams have responsibility for the utilities within their purview. All of the monitoring in aggregate of Niagara Mohawk's utility activities is conducted by those lines of business management.

2.4

At the line of business management level those people are employees of the service company. But they're not acting -- when they're doing that approval process, they're not acting on behalf of the service company; they're acting on behalf of the utilities which they have responsibility for, because they actually have responsibility for a number of utilities. If you take our electric distribution and generation line of business, they're responsible for the activity of multiple utilities, so they conduct those monitoring activities across the range.

ALJ BOUTEILLER: They're doing it for both entities simultaneously, and the accuracy of that transaction is important to both entities at the same time?

THE WITNESS: Correct. And they're doing

1	it you know, management reporting structure, th	e
2	activities then roll up to a line of business leve	l,
3	so they're doing it at the line of business level	as
4	well.	
5	ALJ BOUTEILLER: So you're indicating the	3
6	line of business management is the controlling	
7	operative function here and really has no	
8	corresponding element or similar process that gets	
9	done at the Niagara Mohawk Electric level?	
10	THE WITNESS: No, because they're doing	
11	it they're doing it for the line of business,	
12	which includes the entities, including Niagara	
13	Mohawk, they're responsible for.	
14	ALJ BOUTEILLER: Yes, I understand. Plea	ase
15	proceed.	
16	THE WITNESS: Sorry.	
17	BY MS. CICERANI:	
18	Q Could you turn to AAE-55? It is page 190 in Exhib	it
19	326.	
20	A 326, Counsel, is SAP-2?	
21	Q No, I'm sorry. It's the larger exhibit.	
22	A Right. So this is 326.	
23	MR. MAGER: What page?	

MS. CICERANI: 190.

24

25

BY MS. CICERANI:

- 1 0 Is it correct that the company agreed that some of
- Niagara Mohawk's security department costs at the Syracuse
- 3 office complex should have been allocated to other
- 4 affiliates because the Syracuse office complex has its own
- 5 service department?
- 6 A I'd have to read the exhibit, Counsel. This 8055?
- 7 Q This is A-8055, if you look at response number 2.
- 8 A That's correct.
- 9 Q Thank you. Is it correct that for all the years the
- 10 Syracuse office complex has housed the National Grid
- 11 Service Company departments that none of the Niagara
- 12 Mohawk's security department costs have been allocated to
- 13 other National Grid affiliates?
- 14 A I'd have to take it subject to check about all years
- 15 but -- I'd have to check.
- 16 Q So by not allocating any of the Syracuse office
- 17 complex security department costs to the other National
- 18 Grid affiliates that use the complex, Niagara Mohawk was
- 19 essentially subsidizing a portion of the other affiliates'
- operations, isn't that correct?
- 21 A Correct.
- 22 Q Is it correct that staff brought this misallocation
- 23 issue to the company's attention, likely in this IR?
- 24 A Probably. I don't know, but probably.
- 25 Q I think we've done some of this, but let me ask

- again, anyway. Is someone from Niagara Mohawk responsible
 for making sure that Niagara Mohawk's costs for things
- 3 like the security department costs are being properly
- 4 allocated to the affiliates, just as other affiliates'
- 5 costs are being allocated to Niagara Mohawk?
- 6 A I think we have. We have people who are responsible,
- 7 line of business management that are responsible for all
- 8 of the utilities in their area of responsibility.
- 9 Q For an employee that's responsible for a line of
- 10 business, what sort of check or process is there for that
- 11 employee to ensure that it is Niagara Mohawk that should
- 12 be charged for one thing or being properly charged for it
- versus another affiliate?
- 14 A The process -- the process is the people that are
- 15 commissioning, so whether it's security or whatever, the
- 16 people that are responsible for the provision of those
- 17 services, their job is to understand, you know, who is the
- 18 beneficiary of the service and to get the right accounting
- 19 string and, therefore, to get to the right bill pool or
- 20 allocation code, depending on whether you're Legacy Grid
- or Legacy KeySpan activity, and then the line of business
- finance teams and management teams are responsible for
- 23 the, you know, overall review of the financial performance
- and therefore the appropriateness of the allocations. So
- 25 they're sort of like controls at both the transaction

1	level and then we have the review controls that are
2	executed by the lines of business.
3	ALJ BOUTEILLER: Let me ask you a question
4	of a general nature, because I guess what we're
5	trying to probe here is to find out how these people
6	go about doing their business.
7	THE WITNESS: Right.
8	ALJ BOUTEILLER: If I go to the bank and I
9	ask them to put money in my account, I'm pretty well
10	assured that the bank is going to do that and not put
11	the money in somebody else's account. Here with the
12	whole notion of allocations would you say that your
13	people doing their allocations and the like are
14	working with the same degree of accuracy that a
15	banker might be working?
16	THE WITNESS: A-55, demonstrably not the
17	level of accuracy of a bank.
18	ALJ BOUTEILLER: Should we insist they
19	operate the way a banker might operate with dealing
20	with the funds or responsibilities of different
21	clients?
22	THE WITNESS: I don't think any error is
23	acceptable. And where we find an error like this,
24	whether it's brought to our attention by staff or we
25	find it through our own review processes, we're going

to take a real strong look at why it happened, what was the cause of that error, and go ahead and fix that error. So I guess it's a little bit different to a bank where we have -- you know, we have a large, complex organization. The organization, as staff has observed, has been undergoing substantial change over the last two years following the merger, so we have many people that are changing roles, changing functions, so it's been a very -- you know, it's been a very volatile three years.

ALJ BOUTEILLER: Yes.

2.4

THE WITNESS: So can you get this a hundred percent perfect? We strive for that. We want it to be as close as we can, but there will be errors. When we have 10,000 or 12,000 people, you know, recording accounting strings and allocating, you know, that's a large volume of transactions that's occurring.

ALJ BOUTEILLER: So is my ideal not achievable that we have your allocators operating with the same degree of accuracy that we would expect a public banker to have in the accuracy of their transactions? Is that not attainable by your people?

THE WITNESS: I think it's attainable, but it would require a set of banking systems and

1	controls, and bank examiners have an entirely
2	different framework to you know, the way, you
3	know, sort of accounting, reporting and control
4	frameworks are operating in a utility. So I think
5	it's an attainable ideal, but it's a very hard
6	it's a very high standard perfection is a very
7	high standard to get 100 percent correct.
8	I guess the question is would any of those
9	issues that have been identified, would any of them
10	have a significant impact on the Niagara Mohawk rate
11	case? I think that's sort of the second question.
12	So could something, you know, that's hugely
13	significant lead through is the second question I'd
14	ask.
15	ALJ BOUTEILLER: Do we have any standards or
16	measures by which we can ascertain what those items
17	might be, the degree to which your allocations need
18	to be accurate? Is there any barometers I can look
19	at to understand?
20	THE WITNESS: There isn't a barometer. I
21	mean, there's a barometer for financial reporting,
22	which is a different set of standards. And in the
23	accounting literature, you know, those materiality
24	standards are very clearly defined.
25	For U.S. rate-making and the proper

recording of allocations, our objective is to get them absolutely correct. The point that I want to make, without minimizing the impact of any error that we've made, is actually it's quite difficult to get it a hundred percent correct all the time because of the complexity, people changing, the sheer volume of bill pools.

2.4

When you go -- to use your analogy, Your Honor, when you go to the bank, one of the first questions you're asked is please put in your account code. And I don't know how many bank accounts you have, but it's probably, you know, one of five. As you saw from the exhibit that we just discussed with counsel, SAP-2, we have 300 bill pool methodologies on the Legacy Grid side and 200 on the Legacy KeySpan side, because we're still merging the companies, so the array of choice is just much greater in order to ensure the proper accounting of the transaction. So the transaction itself is much more complex than a deposit that you might make at a bank.

The compliance checking that would happen in a bank -- I mean, a bank has both -- they have teams of bank examiners, so they're examining transactions both systematically and sort of manually. We just don't have that. We require -- you know, we rely on

1	the control frameworks that we build into the systems
2	and the accounting systems and the accounting
3	strings. We rely on analytical reviews.
4	We rely also heavily on training. You know,
5	this is a very complex area. Imagine yourself back
6	as a lineman. You get an invoice and tell me which
7	of 300 bill pools I have to select. So we try to
8	make it as easy as possible through programmatic
9	coding within the system, and also training and
10	education, because a lot of this is about training
11	and education.
12	ALJ BOUTEILLER: Okay, thank you. I
13	appreciate your willingness to engage in colloquy
14	with me, so I appreciate that.
15	THE WITNESS: No problem.
16	ALJ BOUTEILLER: Let's go back to staff.
17	Counsel?
18	MS. CICERANI: Thank you.
19	BY MS. CICERANI:
20	Q If you could turn to page 12 of your rebuttal, you
21	discuss the process for reviewing and developing service
22	company department/function budgets. Is that correct?
23	A We're ready.
24	Q Starting at page 12, as I said, you're discussing the
25	process you use for budgets, correct?

- 1 A Um-hum.
- 2 Q At page 16, line 3, you state that "the budgeting
- 3 process provides a major control on the allocation of
- 4 expenses for services provided by the service companies to
- 5 its affiliates, including Niagara Mohawk, through the
- 6 comparison of actual expenses budgeted amounts at the line
- 7 of business level."
- 8 A Um-hum.
- 9 Q Is that correct? Now, on page 14 of your rebuttal at
- 10 lines 13 to 20, is it correct that for each service
- 11 company department function --
- 12 A I'm sorry, Counsel. I'm a little behind you. I was
- 13 reading the last extract.
- 14 O Page 14.
- 15 A Which one, now?
- 16 Q Page 14, lines 13 to 20. Is it correct that for each
- 17 service company department function, such as legal,
- 18 financial services, human resources, et cetera, its
- 19 budgeted amount is allocated to affiliates receiving
- 20 service to show each affiliate would have a budgeted
- 21 service company amount for services provided by the
- 22 department function?
- 23 A That's correct.
- 24 Q All right. So I just want to talk a little bit about
- 25 the monitoring process during the year where the budgeted

- 1 amounts are compared to the actual expenses. If you look
- 2 to page 17, line 18, you discuss the controls provided
- 3 where line of business management periodically compares
- 4 the actual expenses to the budgeted amounts during the
- 5 year, is that correct?
- 6 A That's correct.
- 7 Q And you state that part of this control -- or part of
- 8 these controls are sessions which also include a review of
- 9 the service company department function costs being
- 10 charged to affiliate companies, correct?
- 11 A Correct.
- 12 Q Okay. If you could look at question 4 and 5 of RAV
- 13 126 SAP, that is located at page 125 of Exhibit 326.
- 14 A Page 125, RAV 126?
- 15 Q Correct.
- 16 A I'm there.
- 17 Q Okay. In this IR we ask for all the reports
- 18 monitoring and comparing service company budget and actual
- 19 costs and Niagara Mohawk's response. Is it correct that
- 20 the monitoring reports of service company charges were
- 21 provided at the line of business level and that no
- 22 operating affiliate level reports were provided that
- compared the budgeted service company charges allocated to
- Niagara Mohawk to the actual allocated costs?
- 25 A Subject to checking, yes.

- 1 Q Is it correct that no Niagara Mohawk employee
- 2 produces monthly variance reports that quantify and
- 3 describe all the variances in actual versus budgeted
- 4 service company charges?
- 5 A No Niagara Mohawk employee?
- 6 O Correct.
- 7 A I thought we discussed that previously. All of the
- 8 monitoring occurs through line of business finance teams.
- 9 Those line of business finance teams and their management
- 10 teams are employees of the service company charged with
- 11 the responsibility for a specific set of utilities.
- 12 Q Is there a service company employee who produces the
- variance report that quantifies and describes all the
- 14 variances in the actual versus the budgeted service
- 15 company charges of Niagara Mohawk?
- 16 A Those reporting processes are still being formed, but
- 17 inside the electricity distribution and generation line of
- 18 business monthly financial report, we do include entity
- 19 statements for Niagara Mohawk and their key utilities. I
- 20 don't know why they weren't provided in here, but we do --
- 21 that information does go to the management team, to Tom
- 22 King's EDG management team.
- 23 Q Can you provide us those monthly -- those reports?
- 24 A Sure.
- 25 Q Thank you. Is it generally correct that labor costs

- 1 should be accounted for in a manner consistent with the
- 2 accounting for travel expenses for a particular activity?
- 3 A Generally -- I was just repeating the question.
- 4 Sorry. Would it be correct to assume that labor and
- 5 travel would be allocated in the same way using the same
- 6 bill pools and allocation codes allocated consistently. I
- 7 would expect so, but I'm not sure it's uniform. I have to
- 8 think about it.
- 9 Q Could you -- as a record request could you confirm
- 10 whether or not you believe that that is a general method,
- 11 that that would be generally correct, that it should be
- treated consistently, labor and travel expenses?
- 13 A Yeah.
- 14 Q Thank you. In Staff Accounting Panel's supplemental
- 15 testimony we point out that some of National Grid's
- 16 employee travel expenses related to attending a hearing in
- 17 Rhode Island, and some of those costs were allocated to
- 18 Niagara Mohawk Electric. Do you agree that some of the
- 19 National Grid employees' travel expenses related to
- 20 attending the Rhode Island hearing were allocated to
- 21 Niagara Mohawk Electric?
- 22 A Subject to check, yes.
- 23 O Would you check?
- 24 A Yeah, absolutely.
- 25 Q Do you know whether any of that employee -- the

- 1 employees' labor costs related to preparing for the
- 2 hearings, traveling to the hearings or taking part in the
- 3 hearings were also allocated to Niagara Mohawk Electric?
- 4 A I don't know whether they were.
- 5 Q Is that something you could provide for us, please?
- 6 A We could provide and check.
- 7 Q Thank you.
- 8 A Could I --
- 9 MS. SWEET ZAVAGLIA: I'm sorry. I
- 10 apologize. I was just going to ask, can you be clear
- 11 what the record request on that one was?
- 12 MS. CICERANI: Certainly. We wanted to get
- the employee labor costs related to preparing the
- hearings, traveling to the hearings or taking part at
- 15 the hearings, what portion of those were allocated,
- or if any were allocated to Niagara Mohawk Electric.
- 17 BY MS. CICERANI:
- 18 O Do you know if any -- if either in-house counsel or
- outside counsel helped prepare that employee for those
- 20 hearings?
- 21 A Counsel would have absolutely helped prepare -- just
- 22 to clarify, helped prepare for the Rhode Island hearings.
- 23 Yes, they would.
- 24 Q Then I guess we'd ask the same record request for
- that counsel's time, how counsel's costs were accounted

- for and allocated and how they were allocated.
- 2 A Right.
- 3 Q Mr. Sloey, while on assignment in the U.S. do you
- 4 maintain any U.K. responsibilities?
- 5 A No.
- 6 Q So who is doing your work back in the U.K.?
- 7 A A lady called Helen Barrett.
- 8 Q Okay, thank you.
- 9 A She used to work for me. She's very good.
- 10 Q Well, that's good. Can you explain how you account
- for your time and your related labor costs? For example,
- do you use certain billing pools for all your labor costs?
- 13 A Yes, I use an all-company billing pool, so it
- 14 wouldn't -- my costs -- my costs here in the U.S. would
- 15 hit all the companies in the U.S. holding company group.
- 16 Q For everything that you do?
- 17 A You said just labor.
- 18 O Okay.
- 19 A So my compensation.
- 20 Q If at the time you were working on -- you're working
- on something that's 100 percent directly related to a
- 22 particular affiliate, you still then apply your more
- 23 general billing pool --
- 24 A Correct.
- 25 0 -- allocator?

1	A	Correct.
2	Q	Okay.
3	A	Could I offer an explanation as a comment?
4	Q	Certainly.
5	A	Where you know, where we have sort of, you know,
6	peop	le that are quite senior in the organization that work
7	on m	any, many different issues and affiliate matters on
8	sort	of like a daily basis, what we don't do is we don't
9	char	ge you know, we don't sort of keep time sheets and
10	say	"for this hour I worked on the Niagara Mohawk rate
11	case	," or in this case week month. We don't
12		MR. VISALLI: Year.
13		THE WITNESS: Exactly. Sometimes 24 hours a
14		day.
15	А	So we don't record those time sheets. What we do is
16	we l	ook at time served and how time is distributed on sort
17	of a	much larger time period, and those costs get
18	allo	cated using an all-company billing pool because over
19	time	that would be a reasonable allocation of the costs
20	and	a much more effective use of my time than sort of
21	tryi	ng to do time sheets on sort of an hour-by-hour basis,
22	and	that would be the case for quite a number of senior
23	exec	utives across the U.S. group.
24		ALJ BOUTEILLER: What determines that
25		allocation factor? What measure determines that

1	allocation factor?
2	THE WITNESS: Okay. So I am I'd have to
3	check, Your Honor, but I'll tell you what my
4	assumption I think I'm sort of a Legacy Grid
5	person, in which case the all-company bill pool would
6	be based on all the affiliates O&M, O&M of a
7	particular affiliate as a percentage of total O&M
8	incurred across the U.S. group.
9	ALJ BOUTEILLER: That's the operative
10	assumption for purposes of allocating your time?
11	THE WITNESS: That's right.
12	ALJ BOUTEILLER: And rather than try to
13	figure out on a day-to-day, hour-by-hour basis,
14	that's used generically over the entire time period?
15	THE WITNESS: Yes, on a reasonable
16	assumption that over a year that would be a good
17	reflection of how I spend my time.
18	ALJ BOUTEILLER: Your allocation then would
19	only change when the company recalculates the
20	relative amounts of O&M invested or calculated for
21	each particular entity?
22	THE WITNESS: Correct. It would be part of
23	our annual bill pool reset process.
24	ALJ BOUTEILLER: Okay. Thank you.
25	BY MS. CICERANI:

- 2 companies. Does that include the non-regulated companies,
- 3 also?
- 4 A I'd have to check.
- 5 Q Okay.
- 6 A I'd have to check, but I believe so. It's an
- 7 all-company bill pool, so it would be -- yes, it would be
- 8 all companies.
- 9 Q But you'll confirm that?
- 10 A I will confirm, yes.
- 11 Q Thank you.
- 12 ALJ BOUTEILLER: Let's go off the record.
- 13 (Discussion off the record.)
- 14 ALJ BOUTEILLER: Is there a question,
- 15 Counsel?
- 16 BY MS. CICERANI:
- 17 Q When you provide the information that we just
- 18 discussed concerning your labor costs, could you just also
- 19 provide the bill pool for us, what the bill pool number
- 20 is?
- 21 A Yeah, absolutely.
- 22 Q When you travel, are your travel expenses accounted
- for in the same way as your labor costs?
- 24 A They should be.
- 25 Q So you use the same billing pool?

- 1 A It should be the all-company bill pool. However, I
- 2 do have to recognize that I did use the wrong one for a
- 3 period of time.
- 4 Q And who brought that to your attention?
- 5 A One of my colleagues.
- 6 O Okay. Through a formal process?
- 7 A Through a frank exchange of views that I should be
- 8 more careful.
- 9 Q How long have you been working in the U.S.,
- 10 Mr. Sloey?
- 11 A Since August 2007, so three years. Three years, one
- 12 month.
- 13 Q During your stay in the U.S. have you ever traveled
- back to the U.K. for business purposes?
- 15 A Yes.
- 16 Q How many times have you traveled back and forth?
- 17 A Maybe six, seven. Actually, that probably
- 18 understates it. Probably, maybe, let's say ten, but not
- 19 more than ten.
- 20 O How much of these travel expenses to and from the
- U.K. were charged to U.K. operations in the historic test
- 22 year?
- 23 A None. None, I wouldn't think, but I'd have to check,
- 24 but I would expect none.
- Q Could you please confirm that for us?

- 1 A Yeah, because the bill pool that I would use wouldn't
- 2 charge to U.K., wouldn't charge to a U.K. entity.
- 3 O Does National Grid's U.S. Finance/Tax and Treasury
- 4 Department perform work for K-E-D-N-Y, KEDNY?
- 5 A Yes.
- 6 Q And for K-E-D-L-I, KEDLI?
- 7 A Yes.
- 8 Q For any of National Grid's unregulated subsidiaries?
- 9 A I mean, yes, they would but much less. They're very,
- 10 very small.
- 11 Q Okay. I'd like to refer you to DAG 60. This is
- 12 starting at page 261 of Exhibit 236.
- 13 A 326 or 236?
- 14 Q Did I say it wrong?
- 15 A Yeah.
- 16 Q 326.
- 17 A Sorry, Counsel. Page number?
- 18 O 261.
- 19 A It's a long discovery request, Counsel, so where are
- we going to look?
- 21 Q We're looking down at page 285 at the very bottom.
- 22 Can you see there a charge for \$4,003.48 for year-end
- celebration, U.S. Finance/Tax and Treasury, at Lucciano's
- Restaurant in Brooklyn? Do you see that?
- 25 A Lucciano's, yes, last line.

- 1 Q And you'll notice at the bottom of 285, the bill pool
- 2 that was used is 236. Do you see that?
- 3 A Correct.
- 4 Q Okay. You can either look or we can --
- 5 A You can tell me.
- 6 Q Okay.
- 7 A It will be quicker.
- 8 Q Okay. None of the costs were charged to KEDNY, KEDLI
- 9 or National Grid's unregulated subsidiaries, is that
- 10 correct?
- 11 A That's the error I was talking about in my account.
- 12 That was my incorrect bill pool.
- 13 O This has been corrected?
- 14 A Corrected prospectively, so I don't use for my
- 15 expenses an all-company bill pool. I used the incorrect
- 16 bill pool on my expenses, and that was an expense that was
- 17 processed through my expenses.
- 18 O Was there a correction made for this?
- 19 A Not for that item, no. Sorry, correction. I'm not
- 20 familiar with this. This is a Revenue Panel RAV, so I'm
- 21 not familiar with this one.
- 22 Q But you believe --
- 23 A Was this included -- was this an expense included in
- 24 the historic test year?
- 25 O Yes.

- 1 A That was excluded as part of the supplemental
- 2 testimony adjustment, so there has been an adjustment
- made. I was referring to the original process of the
- 4 transaction.
- 5 Q Thank you. I'd like to ask a record request that you
- 6 provide the total historic test year cost by cost
- 7 component of National Grid's U.S. Finance/Tax and Treasury
- 8 Department along with how much is charged for each
- 9 regulated and unregulated affiliate of National Grid.
- 10 A Okay.
- 11 Q Thank you. The Staff Accounting Panel points out in
- its supplemental testimony that 23.55 percent of certain
- costs associated with the Ravenswood closing were
- 14 allocated to Niagara Mohawk Electric. Do you agree that
- 15 these costs associated with the Ravenswood closing were
- 16 allocated to Niagara Mohawk Electric, subject to check?
- 17 A Subject to check.
- 18 O Yes. And Ravenswood was an unregulated generating
- 19 station owned by National Grid that was to be divested as
- a condition of the KeySpan merger approval, correct?
- 21 A That's correct.
- MS. CICERANI: Your Honor, I'd like to mark
- as an exhibit a three-page document containing a
- 24 record request of AG -- record request AG 75. The
- cover page is an August 5th letter to Mark Marini. I

- 1 think it's 328.
- 2 ALJ BOUTEILLER: We'll mark it for
- 3 identification as 328.
- 4 (Exhibit No. 328 was marked for
- 5 identification.)
- 6 BY MS. CICERANI:
- 7 Q Look at the company's response, Mr. Sloey. In that
- 8 response the company stated that some Ravenswood closing
- 9 costs were allocated to the regulated affiliates because
- 10 funds derived from the sale were used across the
- organization to fund utility operations. Is that correct?
- 12 Look down at the --
- 13 A Last two lines, yes, I've got it.
- 14 Q That's correct. Do you see that there?
- 15 A I see that, correct.
- 16 Q Were any of these funds from the sale used to fund
- any unregulated operations?
- 18 A I'd have to go back and see how the funds were
- 19 deployed. It was \$1.8 billion divestiture, so it was a
- 20 fair amount of funds that were flowing through the
- 21 organization.
- 22 Q Could we ask that you provide all the accounting and
- 23 documentation as to how the company tracks where the
- 24 proceeds from the sale of Ravenswood go -- or went?
- 25 A Yes.

- 1 O Thank you. Do you know whether any of the
- 2 unregulated affiliates got a share of the specific
- 3 Ravenswood closing costs?
- 4 A I don't. As I said, this is a Revenue Requirements
- 5 RAV. I'd have to check and see how they were allocated.
- 6 Q The closing resulted in a gain in the sale on
- 7 Ravenswood, is that correct?
- 8 A Large profit on sale, large cash inflow.
- 9 Q Did National Grid allocate any of the gain on the
- 10 sale from this closing to the regulated affiliates, as it
- 11 did the cost?
- 12 A The gain on the sale is an accounting -- is an
- accounting calculation which stays within the entity, so
- it can't allocate that. It's like -- it's the difference
- 15 between the proceeds that you get and the net book value
- of the business that you're disposing of, so it actually
- 17 is not sort of a cash number that you can allocate. You
- 18 get the proceeds in, and then there's some closing costs
- 19 that you wouldn't -- actually, you couldn't divest out the
- gain on the sale, which is an accounting entry.
- 21 O How would you provide for -- or what benefit was
- 22 provided to National Grid from the sale in terms of --
- 23 A The merger was consummated. As a result of the
- 24 merger being consummated, customers across all of National
- 25 Grid's utilities benefitted through the realization of

- 1 synergies, alignment of best practice, stronger funding
- 2 because we've got the cash inflow.
- 3 Q I assume synergy savings, perhaps?
- 4 A Yes, synergy savings, which benefitted all utilities.
- 5 Q Thank you.
- 6 MS. CICERANI: Your Honor, could we go off
- 7 the record for a moment?
- 8 ALJ BOUTEILLER: Off the record.
- 9 (Discussion off the record.)
- 10 ALJ BOUTEILLER: We'll resume with the
- 11 cross-examination of the witness.
- 12 BY MS. CICERANI:
- 13 Q Mr. Sloey, why would the company send an employee to
- work in the U.K. from the U.S.?
- 15 A National Grid believes strongly in consistent
- practices and processes, the value that we can get by
- 17 leveraging those across the two organizations. We have
- 18 substantially similar businesses, so when we send people
- in either direction, it's both good for the individual,
- develops management capability and leadership, and also
- 21 moves best practices, moves consistency of process, all of
- 22 which National Grid believes derives a benefit which
- 23 benefits all.
- Q While in the U.K. does the employee typically work on
- U.K. matters?

- 1 A It depends. Sometimes they would have what we would
- 2 call global responsibilities, so they're responsible both
- for things in the U.K. and the U.S. And sometimes they're
- 4 responsible for just U.K. responsibilities. So we have
- 5 cross -- sort of cross-country responsibilities based in
- 6 both countries.
- 7 Q I'd like to direct your attention to IR RAV-151, page
- 8 193 of Exhibit 326.
- 9 A I'm there.
- 10 Q Okay. This IR asks about National Grid USA employees
- 11 that were sent to work overseas, sort of the reverse of
- the expatriates, correct?
- 13 A It's still expatriates, just the other direction.
- 14 Q The other direction, okay. Just the ones from the
- 15 U.K. -- coming from the U.K. The response states that 100
- 16 percent of all expenses other than labor incurred by these
- 17 employees while in the U.K. are charged to the U.K., is
- 18 that correct?
- 19 A Just point me, Counsel, if you would, please? Again,
- 20 sorry. I apologize. It's a Revenue Panel RAV, so I'm not
- 21 familiar with it.
- 22 Q If you look at response B, it says employee expenses
- 23 that are incurred locally while on assignment are charged
- 24 to the U.K. entity and remain in the U.K., so the expenses
- other than labor that are incurred while in the U.K. are

- 1 charged to the U.K., correct?
- 2 A That's what this says, so I would assume it would be
- 3 correct.
- 4 O But some of the employees' labor costs could be
- 5 charged to the U.S., depending on if the employee
- 6 maintained U.S. responsibilities while -- or performed
- 7 global roles subsequent to the move, is that correct?
- 8 A That would be my assumption, yes. It's hard to tell
- 9 with the names redacted, but yeah.
- 10 Q When these employees perform a global role, does
- 11 National Grid use billing pools to allocate the employees'
- labor expense?
- 13 A Actually, it's difficult to tell because -- without
- 14 the names, so we have a couple of different methodologies.
- 15 So if it's IS, we have what we call -- we have a
- 16 recharging matrix which distributes costs in aggregate
- into three buckets, and then the U.S. buckets end up going
- 18 through the allocation methodologies here in the U.S. I
- don't know who the people are.
- 20 Q So, yes, but there are several methodologies to do
- 21 it?
- 22 A Two.
- 23 O Two?
- 24 A Yeah.
- Q Okay, thank you. You described one of them?

- 1 A Yeah. And the other one is just a direct charge, so
- 2 the cost might be incurred in the U.K. and it's a direct
- 3 cost charge; it's an intercompany transaction through to
- 4 the U.S.
- 5 Q Direct charge to who?
- 6 A To a National Grid company. A National Grid U.S.
- 7 company. Sorry.
- 8 Q A National Grid U.S. company. A direct charge, and
- 9 when would that occur? When would that type of allocation
- 10 be?
- 11 A It's a cost that's incurred -- if there's a cost
- that's incurred in the U.K., so use the example of me, so
- my costs, I get paid in the U.K., so my costs are then
- 14 direct charged through to a National Grid company,
- 15 National Grid U.S. company and then on through the bill
- 16 pool methodologies. And then we have people who are in
- 17 the IS with both IS cross-charging matrix with global
- 18 responsibilities, and the matrix determines the charge,
- and then it comes through the bill pool, so I guess the
- outcome is the same; the route is different.
- 21 Q When you say "direct charge," direct charge could
- 22 mean direct charge to National Grid USA?
- 23 A And then it would be distributed via the bill pool.
- 24 ALJ BOUTEILLER: All such charges go through
- a bill pool?

- 1 THE WITNESS: Correct.
- 2 ALJ BOUTEILLER: Thank you. Please proceed.
- 3 BY MS. CICERANI:
- 4 O If you could -- the billing pools allocate costs to
- 5 all National Grid regulated and unregulated affiliates in
- 6 the U.S.?
- 7 A It depends on the bill pool.
- 8 Q But for the employees that were sent to -- that are
- 9 in the U.K., is it one or the other, or it still depends
- on the bill pool?
- 11 A It depends on who the employee is, what their
- 12 responsibility is and therefore the bill pool that's
- attached to that responsibility, and there's just not
- 14 enough information from this RAV to comment.
- 15 Q Could you provide us with the billing pools that you
- use when employees perform global roles as you described
- 17 them as global roles? Could you please provide us with
- the bill pools you use?
- 19 A Okay. If I just phrase the question I think I'm
- going to answer, we're going to describe how the costs for
- 21 a U.S. employee based in the U.K. with global
- responsibilities, how the U.S. element of those costs end
- 23 up back to affiliates here in the U.S.
- Q Right, and what billing pools.
- 25 A Yes, we can do that.

- 1 Q Thanks. If you could turn to the chart on page 195,
- and you look, there's columns towards the right. There's
- 3 a grand total column and a salary column. Do you see
- 4 those?
- 5 A I see.
- 6 Q If we look at the first employee on the chart, it
- 7 shows that -- roughly \$250,000 in total expenses and
- 8 roughly \$133,000 in salary, is that correct?
- 9 A Correct.
- 10 Q Does that mean 117,000 are non-salary costs?
- 11 A I assume so, yes.
- 12 Q And 100 percent of the 117,000, that was charged to
- the National Grid U.K. operations, is that correct?
- 14 A Again, based on our earlier -- the company's earlier
- 15 response, I assume so, but I'd have to check.
- 16 Q Okay. And that 117 would cover things like lodging,
- 17 auto, international allowance, tuition, whatever costs
- 18 were incurred, is that correct?
- 19 A I wouldn't characterize it as whatever costs they
- incurred. It would be the costs they're entitled to under
- 21 our expat policy.
- 22 Q But it would include things like lodging, auto,
- 23 international allowance?
- 24 A When you say "auto," what do you mean?
- 25 O The use of an automobile.

- 1 A It depends on the terms and conditions of the
- 2 employee.
- 3 Q It may or may not?
- 4 A Yeah.
- 5 Q If the employee remains in the U.S. instead of going
- 6 to the U.K., would all of this 117,000 have been incurred
- 7 by the company?
- 8 A Which company?
- 9 Q National Grid.
- 10 A The costs would have been incurred here in the U.S.,
- 11 and if that person had stayed in the U.S. but still had
- 12 global responsibilities, then wouldn't the charge go back
- 13 the other way?
- 14 Q Well, would there have been a lodging charge if the
- employee stayed in the U.S.?
- 16 A Not if they weren't an expat. The essence of our
- 17 expat policy is as expats you're responsible for your
- 18 accommodation costs in your home country and accommodation
- is provided for you in the host country.
- 20 Q So minus the expat, if you had an a U.S. employee and
- 21 they were doing their job, these types of costs, things
- 22 like lodging, tuition for an employee's child or whatever,
- 23 these things would not be incurred by the company,
- 24 correct?
- 25 A Correct, because the person is not an expatriate.

- 1 Q Okay. If you could look down at the fourth employee
- listed on that chart, on that one it shows roughly
- 3 \$187,000 in grand total expenses and \$140,000 in salary,
- 4 is that correct?
- 5 A Correct.
- 6 Q And then that 47 is non-salary cost, correct?
- 7 A Presumably.
- 8 Q And 100 percent of the 47,000 was charged to the U.K.
- 9 operation, is that correct?
- 10 A No.
- 11 Q Excuse me?
- 12 A I'm sorry. The 47,000 -- I'm sorry. Repeat the
- 13 question.
- 14 Q 100 percent of the 47,000?
- 15 A Based on the company's earlier response to the RAV, I
- 16 assume that would be the case.
- 17 Q Now, if we look at that employees's \$147,000 salary,
- 18 none of that was charged to the U.K. operations, correct?
- 19 A Correct.
- 20 Q It was all charged to U.S. operations?
- 21 A Correct.
- 22 Q So when National Grid spent the 47,000 relocation
- 23 type costs to the U.K. for this employee, 100 percent was
- 24 allocated back to the U.S. operations, correct, 100
- 25 percent of the salary was allocated back to the U.S.

- 1 operations?
- 2 A 100 percent, so I assume this is a U.S. employee
- 3 going to the U.K. So, again, the cost was incurred
- 4 initially in the U.S., so 100 percent of the costs, the
- 5 salary cost, remained in the U.S. It wouldn't have had to
- 6 have been allocated back. It was already here. If that's
- 7 not too confusing.
- 8 O Much of this is confusing.
- 9 A So, yes, we had a U.S. employee paid in the U.S., and
- 10 it looks like 100 percent of their cost was retained in
- 11 the U.S., their salary costs.
- 12 Q They are working on U.S. -- 100 percent on U.S.
- 13 matters?
- 14 A I can't tell without the information. I apologize.
- 15 Without the employee and the detail I just don't know.
- 16 Q I guess then I would ask, at least for this chart,
- 17 perhaps we could -- you could provide the background
- 18 information so we could at least understand --
- 19 A The basis of the charge.
- 20 Q The basis for this charge.
- 21 A Sure.
- 22 Q Thank you. If you could go to page 10 of your
- rebuttal testimony, there you state that Niagara Mohawk's
- 24 total costs per customer basis are lower than the cost of
- all but one utility in New York State, is that correct?

- 1 A Yeah. I think that's -- you're referring to 1R, so
- that would be A&G costs.
- 3 Q That's correct. Can we look at that exhibit, please?
- 4 That is AFS-1R. In the middle of the exhibit you see the
- 5 total expenses by each use. Do you see that?
- 6 A Correct.
- 7 Q And in 2006 and 2007 Niagara Mohawk's electric A&G
- 8 was in the 322 million to 328 million range, correct?
- 9 A Correct.
- 10 Q And in August 2007 National Grid acquired KeySpan
- 11 Corporation, is that correct?
- 12 A Correct.
- 13 Q And were there expected synergy savings associated
- with the merger?
- 15 A There were.
- 16 Q And those synergy savings were to, among other
- things, reduce the costs of National Grid U.S. affiliates
- including Niagara Mohawk, correct?
- 19 A Correct.
- 20 Q Do you agree that most of the KeySpan synergy savings
- 21 were supposed to be achieved in the A&G areas?
- 22 A I'd have to check that. A significant part was in
- 23 sort of corporate support functions, consolidation systems
- and processes, but I don't know what that is as a
- 25 percentage of the total 200 million.

- 2 A It would be a significant portion.
- 3 Q Can we look at Niagara Mohawk's costs in 2008 and
- 4 2009, post KeySpan acquisition, the cost of increase from
- 5 320 to the -- the 320 range to the 383 range, correct?
- 6 A Correct.
- 7 Q And Niagara Mohawk's costs in both 2008 and 2009 are
- 8 then up by approximately 19 percent over the 2006 and '7
- 9 costs, is that correct?
- 10 A Yeah, that would be correct.
- 11 MS. CICERANI: Your Honor, off the record?
- 12 ALJ BOUTEILLER: Off the record.
- 13 (Discussion off the record.)
- 14 ALJ BOUTEILLER: Let's declare our lunch
- 15 recess time. We'll resume the hearing at 1:00.
- We'll stand in recess.
- 17 (Lunch recess.)
- 18 ALJ BOUTEILLER: Let's begin the afternoon
- 19 session. Staff counsel is cross-examining the
- witness, and that's where we will continue.
- 21 BY MS. CICERANI:
- 22 Q Good afternoon, Mr. Sloey.
- 23 A Good afternoon.
- 24 Q If you could turn to -- well, on page 22 of your
- 25 rebuttal you provide a summary of why the service company

- 1 costs increased by \$68.2 million or 27.64 percent in the
- 2 historic test year versus the prior year, is that correct?
- 3 A That's correct.
- 4 O What comprises the \$5 million increase in items
- 5 excluded from the cost of service?
- 6 A I think there was -- I'd have to check, but I think
- 7 there was a write-off of some global systems costs, and
- 8 that was, I think, the largest item. I'd have to check
- 9 what the other items are. I just can't remember off the
- 10 top of my head.
- 11 Q You'll provide that for us?
- 12 A I'll be happy to provide it.
- 13 Q Okay. What does increased service company equity
- 14 mean, and why did it cost an extra \$1.1 million in the
- 15 historic test year?
- 16 A The service company equity comprises two elements.
- 17 The first is the return, because the service company owns
- 18 assets, there's a modest return -- I want to say 10-1/2
- 19 percent, but I can't remember what the actual number is --
- 20 return on the equity. And in the previous year there was
- 21 a tax credit relating to the timing difference of
- depreciation that didn't exist in the historical test
- 23 year, so it was actually movement placed on that, so it
- 24 was a benefit in the previous year. It didn't happen in
- 25 the current year.

- 1 O If we could continue on to page 25, lines 16 to 17,
- 2 you indicate that the remaining increase for service
- 3 company charges is largely due to additional support
- 4 required by Niagara Mohawk, is that correct?
- 5 A Service company charges -- 17 -- correct.
- 6 Q What additional support are you referring to?
- 7 A Just I mean, the numbers are quite large, so when
- 8 you're talking about reconciling changes, you know,
- 9 between 250 million and 350 million, you can sort of get
- down to an explanation for a certain level of granularity,
- and then there's all other. I think what we're saying is
- there's a series of smaller items, and they number in the
- 20s and 30s, that sit behind the 4.6.
- Q Could you provide us the documentation?
- 15 A We can give you the analysis as best we can do it,
- but it's not something that you can reconcile so
- 17 precisely. You've just got to really understand the
- 18 numbers are so large and so many.
- 19 Q Can you provide --
- 20 A We can do what we can do.
- 21 Q Okay, thank you. And can you tell us -- this may be
- 22 similar -- what comprises the 4.6 -- Mr. Sloey, do you
- 23 agree that the 4.6 million of other that we just talked
- about is really the net of some level of expense decrease
- due to synergy savings and some level of service company

- 1 expenses increase?
- 2 A Yes, I'd agree that it's the net net of all other
- 3 things that you couldn't explain separately.
- 4 Q Thank you. If you could turn to your rebuttal, page
- 5 29 to 30 --
- 6 A Um-hum.
- 7 Q -- you state there that in IR response DPS 293 the
- 8 company didn't mean that the service company costs were
- 9 skewed, is that correct?
- 10 A Correct.
- 11 Q And could you please look at the fourth paragraph of
- that DPS exhibit? It is page 1021 in SPP-1.
- 13 A Okay.
- 14 Q In the fourth paragraph it says, "For example, for an
- 15 expense such as group audit in any one year a group
- 16 audit's actual cost may be skewed to a particular
- operating company." Do you see that?
- 18 A I see that word, yes.
- 19 Q Okay.
- 20 A Could I clarify the word?
- 21 Q Well, I believe you did that in your testimony but
- 22 sure.
- 23 A Okay. Just to reiterate the point, I mean "skewed"
- 24 was a poor choice of word. It's basically activity
- 25 driven. In the case of this particular specific item, the

- 1 cost flow, according to the Agreed Order program. In some
- 2 cases the program might be focused on some entities, and
- 3 in the next year will be focused on other entities, so
- 4 you'll see that variation in the charges. It was just an
- 5 unfortunate choice of word.
- 6 Q On page 30, line 9, of your rebuttal, you state that
- 7 "In any given year the operating company would have a
- 8 higher or lower percentage of cost charged to it based on
- 9 the level of service provided, " correct?
- 10 A Correct.
- 11 Q If you based a forecast on an unadjusted historic
- 12 test year in which an operating company had a higher
- percentage of costs charged to it based on the level of
- 14 service provided in the historic test year, would you
- 15 agree that the forecast would be higher in that year than
- it would have been if you'd used an average over a longer
- 17 period of time?
- 18 A Yes, in principle I'd agree with that.
- 19 Q In the historic test year did Niagara Mohawk receive
- 20 a higher or lower percentage of cost charged to it based
- on the level of service provided compared to other
- 22 affiliates?
- 23 A I'll have to go back and look at the data for the
- other affiliates, but as we set out, I think, on sort of
- 25 rebuttal, there was a number of cost increases that

- 1 affected uniquely Niagara Mohawk, and then there was a
- 2 group of cost increases that affected all affiliates in
- 3 the U.S. group, so I think we probably answered it in that
- 4 table.
- 5 Q You could you review that table, and if it's not
- 6 answered in there -- or at least indicate to us whether
- 7 you believe it is, once you review it, and then also
- 8 provide the information if we didn't get it there? I'm a
- 9 little confused as to where you think this information is.
- 10 A Okay. Maybe you could just ask the question again.
- 11 Let's be clear, the question I'm trying to answer. If I
- haven't answered properly, I apologize.
- 13 O Okay. In the historic test year did Niagara Mohawk
- 14 receive a higher or a lower percentage of costs charged to
- it based on the level of service provided compared to
- 16 other affiliates?
- 17 A I'm not sure I could answer. Just thinking about the
- 18 question, I mean, in the test year they received the
- 19 services that they received reflective of the costs, so
- you have to sort of do that comparison against each of the
- 21 other affiliates within the group. That's quite a
- large -- that's quite a large analysis.
- 23 ALJ BOUTEILLER: So far I'm taking the
- 24 response as an indication that the witness is not
- willing to provide the information you requested.

- 1 MS. CICERANI: I understand that, Your
- 2 Honor. Thank you.
- 3 ALJ BOUTEILLER: Okay.
- 4 BY MS. CICERANI:
- 5 Q If you have variance reports, do you think that you
- 6 would have been able -- at the company level do you think
- you'd be able to determine this information that we're
- 8 talking about?
- 9 A I'm just not quite sure of the information,
- 10 Counselor, that you're trying to get at. I think the
- 11 point that we were trying to make in your testimony is
- 12 that service company charges are not static year to year.
- 13 The levels of services delivered would change, and so
- 14 would the allocation. So I just feel you've asked a kind
- of open-ended question, would the cost be higher or lower?
- 16 Yes.
- 17 Q Or no -- okay, that's fair. That's fair.
- 18 Hypothetically, if Niagara Mohawk was charged for historic
- 19 test year service company costs that should not have been
- 20 allocated to Niagara Mohawk at all, would the historic
- 21 test year costs for Niagara Mohawk be higher than they
- 22 would otherwise have been?
- 23 A Correct. In the rate year -- the forecast in the
- rate year -- if we hadn't -- if we omitted something from
- 25 the historic test year that hadn't been normalized that

- 1 should have been, then that would have resulted in a
- 2 higher rate year forecast.
- 3 Q On page 36 of your rebuttal you discuss why service
- 4 company charges to unregulated affiliates have decreased
- 5 compared to the significant increase in service company
- 6 costs to regulated affiliates, is that correct?
- 7 A That's correct.
- 8 Q And you state that staff's analysis ignores the --
- 9 that service company charge -- actually, what you just
- 10 said -- that service company charges are not static,
- 11 correct?
- 12 A Correct. I think what the paragraph tries to speak
- to is there are a couple of adjustments that you needed to
- 14 make to the analysis that staff had done to get a
- 15 like-to-like comparison, and then the overall
- 16 consideration that service company charges will vary based
- on the level of activity year to year.
- 18 O So are you saying that the historic test year was
- simply an unusual year in which less service company work
- 20 was performed for the unregulated affiliates than would be
- 21 the norm?
- 22 A It's probably going to be quite hard to define the
- 23 term "unusual." When you put two huge companies together,
- 24 you divest businesses, you make business changes, lots of
- 25 changes happen. You have to remember this was 18 months

1	after a major merger, and so there will be some volatility
2	in the underlying numbers as you implement business
3	changes. So I'd have to go back and look at it to see
4	what particularly drove that decrease to the unregulated
5	subsidiaries. The point we're just trying to make is that
6	it wasn't the 17 percent reduction that was originally
7	posed in staff's rebuttal.
8	Q How many historic test year invoices of costs were
9	there covered in this rate filing?
10	A Pass.
11	Q An order of magnitude, perhaps?
12	A If you'd let me, I can confer with a colleague and we
13	can probably give you a pretty accurate estimate.
14	Q Hundreds? Thousands? Hundreds of thousands?
15	A Hundreds of thousands, I'd guess. May I confer?
16	ALJ BOUTEILLER: Yes, you can confer if
17	you'd like to, if he is in the room, or she.
18	THE WITNESS: He is. Danny.
19	ALJ BOUTEILLER: Let's go off the record for
20	your conference, and we'll go back on the record when
21	you have an answer.
22	(Discussion off the record.)
23	ALJ BOUTEILLER: You're prepared to provide

THE WITNESS: I guess.

an answer to the question at this time?

24

25

ALEXY ASSOCIATES, INC. (518) 798-6109

- 1 A It would be hundreds of thousands, probably not more
- 2 than half a million, but we could actually count just by
- 3 counting transactions if the information was important.
- 4 BY MS. CICERANI:
- 5 Q Your rebuttal at page 52, starting on line 14, you
- 6 state that "staff took a sample of invoices to make a
- 7 wholesale disallowance of legitimately incurred costs and
- 8 that this was inappropriate and arbitrary, " is that
- 9 correct?
- 10 A Correct.
- 11 Q Did anyone in the company review every historic test
- 12 year invoice to determine that they were legitimately
- 13 incurred?
- 14 A We didn't review every invoice, but we did review a
- 15 substantial number of the test year, so we talked
- 16 elsewhere in the testimony about a significant review
- 17 process that we undertook. Four months of that review
- 18 process was actually felt in the test year, so a
- 19 substantial amount of the testing that was done validated
- the test year numbers, so we did test a substantial
- 21 number, but we certainly didn't test all.
- 22 Q Did anyone in the company review every invoice in the
- 23 historic test year to determine if they were recurring in
- 24 nature?
- 25 A Again, "every invoice" is a very high standard.

- 1 There's hundreds and hundreds of thousands of
- 2 transactions.
- MS. CICERANI: Your Honor, if we could go
- 4 off the record for a moment?
- 5 ALJ BOUTEILLER: Sure.
- 6 (Discussion off the record.)
- 7 BY MS. CICERANI:
- 8 Q Mr. Sloey, the Staff Accounting Panel in its
- 9 testimony -- I don't know if you have a copy of that up
- 10 there?
- 11 A The policy of accounting?
- 12 Q The Accounting Panel. Just roughly at page 287 --
- and I'll summarize, essentially the company -- the
- question was whether or not the company -- what the
- 15 company did to determine the normalizing adjustments, that
- normalizing adjustments needed to be made, and that staff
- 17 list out several IRs, all of which we ask to explain the
- 18 specific types of costs and how this was done and how the
- 19 adjustment was made, if there was an adjustment made. And
- if you look on the top of page 288 of the Staff Accounting
- 21 Panel testimony, we indicate -- to most if not all of
- 22 these IR questions the company responded with the exact
- 23 same answer. "The company's approach to the review of
- 24 historical year data was organized principally by expense
- 25 type." Do you see that?

- 1 A I do.
- 2 Q For each expense type -- it was general data. Do you
- 3 see that line of testimony?
- 4 A I do.
- 5 Q Okay. It seems somewhat inconsistent with what
- 6 you're saying now in terms of the analysis that you
- 7 performed, so I'm wondering if you could now provide us
- 8 with the analysis that you were just describing as to what
- 9 you do with these hundreds of thousands if not half a
- 10 million invoices?
- 11 A Okay. I mean, my responsibility on the preparation
- was sort of the preparation of the historical test year
- 13 costs. The normalization adjustments was done as part of
- 14 Revenue Panel, so I'm not sure I'm best qualified to
- 15 answer that.
- 16 Q Is that something, though, that you believe the
- 17 company could provide for us now?
- 18 A For clarity, I'd just like to be clear on the
- 19 question you're asking.
- 20 Q I'm asking you for the analysis that was done as it
- 21 related to every invoice in the historic test year to
- determine whether or not the costs were, one, legitimately
- incurred, two, recurring in nature, or three,
- out-of-period costs?
- 25 A Okay. I think I'd have to defer that to the Revenue

- 1 Panel, and just -- I guess my only editorial comment would
- 2 be a review of every invoice isn't just an incredibly high
- 3 standard but an incredibly expensive task to undertake.
- 4 Q At page 57, lines 13 to 18 of your rebuttal
- 5 testimony --
- 6 A Line?
- 7 Q 13, starting at line 13.
- 8 A Um-hum.
- 9 Q You state that "Price Waterhouse Coopers assisted the
- 10 company in its evaluation and testing of the cost
- 11 allocations process and that Price Waterhouse" -- I'm
- going to call it PWC -- "observed that while some
- expectation -- exceptions were noted through the testing
- 14 conducted, there were no pervasive trends or large errors
- 15 noted," is that correct?
- 16 A That's correct.
- 17 Q Can I refer you to Exhibit 326, page 93? This is the
- 18 Price Waterhouse engagement letter. Actually, if you turn
- 19 to the cover page of the report, which is at page 100 of
- the exhibit.
- 21 A Yeah, I have it.
- 22 Q It states that "these services did not constitute" --
- 23 do you see -- "these services do not constitute an audit
- 24 conducted in conformance with generally accepted auditing
- standards, an examination of any type, an accounting

- opinion or other attestation or review services in
- 2 accordance with the standards established by the AICPA, by
- 3 the Public Company Accounting Oversight Board or any other
- 4 professional governing body. Accordingly, PWC provides no
- 5 opinion or any other form of assurance with respect to the
- 6 services or the information upon which our work was
- 7 based." Do you see that?
- 8 A I do.
- 9 Q And also at page 2 of the engagement letter under
- 10 "Our Responsibilities," PWC states that in performing its
- 11 work in this engagement, "we will not verify or audit any
- information provided to us." Do you see that?
- 13 A I actually don't. Which paragraph, please?
- 14 Q This was on page 2.
- 15 A Page 2, yeah.
- 16 Q Under "Our Responsibilities."
- 17 ALJ BOUTEILLER: I don't see that section.
- MS. CICERANI: Okay.
- 19 BY MS. CICERANI:
- 20 Q If I could direct your attention, it's actually on
- 21 page 119. It's the second page of the engagement letter,
- 22 which actually starts on page 118. There is the section
- that -- you see where it says "Our Responsibilities"?
- 24 A Yeah, I've got it.
- Q Okay.

- 1 A Yeah, I understand. So the first letter was the
- 2 engagement letter to start the process. The first letter
- 3 you referred to was the cover note at the end of the
- 4 process.
- 5 Q That's correct. Thank you.
- 6 A You're welcome.
- 7 Q Based on the information that we just talked about,
- 8 would you agree that the observations made by PWC were not
- 9 based on an audit performed by them and that they didn't
- 10 verify or audit the information the company provided them
- as part of the cost allocations review process they
- 12 participated in?
- 13 A I probably -- they didn't audit it within the terms
- of public accounting practices, which is very specific,
- 15 which governs how an audit should be -- or financial
- 16 statement audit should be conducted, but what PWC did do
- 17 is they provided us advisory services. And if I could
- 18 just probably go back a little bit in time, when National
- 19 Grid started this piece of work, we were concerned, coming
- out of the merger, there being so much change, that we
- 21 were concerned the allocations were being performed
- appropriately, because we have people performing
- 23 allocations on two different systems, making sort of dual
- 24 pooling allocation choices. Responsibilities are
- changing. And so what we purposely did, we actually set

1	huge sample sizes. And I think we even referred to it in
2	the testimony. We wanted a much more comprehensive look,
3	because often some of the problems that you find in
4	allocations doesn't emerge from statistical sample. We
5	wanted a much more comprehensive check. Had we had PWC do
6	it, that would have been a hugely expensive exercise. You
7	know, we have certain capabilities and we were able to
8	devote the resources to do it quickly, but what we did
9	want PWC to provide us is the challenge and review in
10	terms of process and efficacy of checking how to get more
11	assurance. And they did selectively do testing, but they
12	did their work as an advisory piece of work, not as a
13	financial statement piece of work. I'm not sure it
14	devalues the work entirely is the point I'd like to make.
15	ALJ BOUTEILLER: And, Staff Counsel, you're
16	not trying to represent that the statement that
17	appears on page 57 of 68 in the rebuttal testimony is
18	inaccurate in and of itself?
19	MS. CICERANI: Is inaccurate, Your Honor?
20	ALJ BOUTEILLER: Is not inaccurate in and of
21	itself. You're not representing that that statement
22	was not made by Price Waterhouse, are you?
23	MS. CICERANI: No, Your Honor.
24	ALJ BOUTEILLER: Okay. Thank you. Please
25	proceed.

- 1 BY MS. CICERANI:
- 2 Q On page 1, lines 4 and 5 of your rebuttal
- 3 testimony -- you really don't need to flip to it if you
- 4 don't want to -- you state that Niagara Mohawk Power
- 5 Corporation was referred to as Niagara Mohawk or the
- 6 company throughout your testimony, is that correct? You
- 7 can look if you want.
- 8 A I believe you.
- 9 Q On page 57, lines 12 through 14, you state that --
- 10 A Should I look?
- 11 Q Sure. It's entirely up to you.
- 12 A I'm there.
- 13 O You state -- this is page 57. You state that "the
- 14 company performed this cost allocation integrity work and
- 15 engaged PWC to assist the company in performing this
- evaluation and testing, " is that correct?
- 17 A That's correct.
- 18 Q So when you refer to "the company" on page 57, you do
- 19 not mean Niagara Mohawk?
- 20 A No, I mean broadly the National Grid USA holding
- company.
- 22 Q And it was not Niagara Mohawk that engaged PWC, is
- 23 that correct?
- 24 A Correct.
- 25 Q Niagara Mohawk didn't perform the evaluation and

- 1 testing of the National Grid cost allocations that you
- describe on pages 56 and 57 of your rebuttal, is that
- 3 correct?
- 4 A That's correct. The study looked at allocations for
- 5 all activities in the companies in the U.S. group, not
- 6 just Niagara Mohawk.
- 7 Q On page 56, line 20, to page 57, line 1, of your
- 8 rebuttal you state that "the Cost Allocation Integrity
- 9 Steering Group governed and provided the oversight to this
- 10 National Grid review, correct?
- 11 A Correct.
- 12 Q If I could refer you to DPS-338, which is on page
- 13 1103 of Exhibit SPP-1 -- 1113.
- 14 A Okay, I have it, Counselor.
- 15 Q Is it correct that according to that, all the members
- of the Cost Allocation Integrity Steering Group were
- 17 employees of either National Grid service companies,
- 18 National Grid USA Service Company or National Grid
- 19 Corporate Services?
- 20 A That's correct.
- 21 Q Is it correct that Niagara Mohawk receives accounting
- 22 services under its service contract with National Grid USA
- 23 Service Company per Schedule 1 of that contract? And I
- believe you'll find this in AFS-2.
- 25 A Correct.

- 1 O If you could look to -- this is page 96 of Exhibit
- 2 326, the National Grid response to FERC data request 1,
- 3 question 401.
- 4 A This is --
- 5 Q I'm sorry, 326. Exhibit 326 is -- it's a white
- 6 covered one. Page 96, in that response, it states that
- 7 "The franchised public utilities don't have their own
- 8 finance and accounting departments. Finance and
- 9 accounting services, including the recording and reporting
- of the costs billed from the service companies are
- 11 provided exclusively by the service companies on behalf of
- the FPUs." Is that the case for Niagara Mohawk?
- 13 A Correct. The accounting is done by -- the accounting
- is done by the employees of the service company.
- 15 Q So the costs for the accounting and the financing
- 16 functions performed by the service company for Niagara
- 17 Mohawk then are included in the service company cost
- 18 allocations and bills that the service company employees
- record and report for Niagara Mohawk, correct?
- 20 A Correct.
- MS. CICERANI: Your Honor, I'd like to mark
- for identification a multi-page document with a cover
- 23 letter dated April 2, 2010. I believe it's Exhibit
- 24 Number 328.
- 25 MR. O'BRIEN: 329.

ALEXY ASSOCIATES, INC. (518) 798-6109

1	ALJ BOUTEILLER: Let's go off the record.
2	(Discussion off the record.)
3	ALJ BOUTEILLER: The document you
4	distributed has a National Grid identification on the
5	front page. The letter is dated April 2, 2010 and,
6	as you said, it has numerous pages. We for
7	identification will mark this as 329.
8	(Exhibit No. 329 was marked for
9	identification.)
10	BY MS. CICERANI:
11	Q If you look one, two, three, about four pages in,
12	there's the signature lines for the service contract. Do
13	you see that the individual signing for Niagara Mohawk
14	under this contract is Lorraine Lynch?
15	A I do.
16	MS. CICERANI: Your Honor, we'd like to mark
17	as an exhibit a single-page document that is dated
18	12-31-2009 for Niagara Mohawk Power Corporation, and
19	this is actually a page pages 104 and 105 of the
20	Niagara Mohawk Annual Report.
21	ALJ BOUTEILLER: For identification it will
22	be marked as 330.
23	(Exhibit No. 330 was marked for
24	identification.)
25	BY MS. CICERANI:

ALEXY ASSOCIATES, INC. (518) 798-6109

- 1 Q To your knowledge, Mr. Sloey, is the same Lorraine
- 2 Lynch who is listed at page 104 of the Annual Report
- 3 the -- I'm sorry -- the same Lorraine Lynch who signed the
- 4 service contract?
- 5 A Employee line number 8, yes, that would be the same
- 6 Lorraine.
- 7 Q Thank you. If you follow that line across to the
- 8 footnote reference, is it correct that Ms. Lynch is paid
- 9 by National Grid USA Service Company?
- 10 A She wouldn't be. She'd be paid by KeySpan Corporate
- 11 Services, and -- I think the question is who is Lorraine
- 12 Lynch employed by and paid by, and it wouldn't be National
- 13 Grid USA Service Company; it would be the KeySpan
- 14 Corporate Services company.
- 15 Q Are you generally familiar with the company's
- rebuttal revenue requirement that's in RRP-1R?
- 17 A Somewhat familiar.
- 18 MS. CICERANI: Your Honor, may I approach?
- I have a copy of it just to show Mr. Sloey.
- 20 ALJ BOUTEILLER: You can approach the
- 21 witness. Company counsel can approach the witness as
- 22 well.
- 23 (Discussion off the record.)
- 24 BY MS. CICERANI:
- Q Mr. Sloey, I just showed you and identified a line on

- 1 RRP-1R. This is sheet 9 of 18. Adjustments -- down at
- the bottom, adjustment 5 was an adjustment to write off
- 3 depreciation associated with delayed work on the closings,
- 4 and I just showed you that, correct?
- 5 A Correct.
- 6 Q And on that exhibit it shows that staff had made an
- 7 adjustment, and then the company essentially reversed
- 8 staff's adjustment, so as far as the company was
- 9 concerned, there's been no adjustment to the write-off or
- depreciation associated with delayed work closings,
- 11 correct?
- 12 A Correct. That's my understanding.
- 13 O So based on this, is it the company's position that
- there are no financial implications to the company of
- these extended delays in closing the construction work
- orders to plants and service?
- 17 A I think we would say there's none. I think what
- 18 we're saying is the adjustment is not substantial. I
- 19 think staff's adjustment or proposed adjustment was based
- around an assumption that work orders could be closed
- 21 within one month. And what we tried to -- the issue we
- tried to address in rebuttal testimony is that is just an
- 23 unachievable standard as part of the management order.
- 24 The process we have for reviewing our work order cycle
- close-out and process is trying to achieve a 90-day close

- 1 cycle.
- 2 Q You said that they were not -- there were some, but
- 3 you just don't believe they were significant?
- 4 A Correct. I think staff's adjustment for multiple
- 5 years based around a one-month closing was around \$6
- 6 million.
- 7 Q Yes.
- 8 A Something less than a million a year. So moving to a
- 9 90-day closing will actually be significantly less than
- 10 that. I don't know what the annual depreciation charge is
- in Niagara Mohawk, but it's in the -- it would be well
- 12 over a hundred million.
- 13 Q Your adjustment amount negates staff's adjustment
- 14 completely, correct?
- 15 A Correct.
- 16 Q So at least from that respect you're suggesting there
- 17 be no adjustment, for there to be no write-off --
- 18 financial implications -- excuse me, I'm -- that there
- 19 would be no financial implications to the delayed work
- 20 order?
- 21 A My understanding is we made no adjustment in the cost
- 22 of service for that.
- 23 Q Page 63, lines 19 to 21.
- 24 A Rebuttal?
- 25 Q Yes, of your rebuttal.

- 1 A I apologize.
- 2 Q That's okay, because I need to go back to what we
- 3 were just talking about. I looked down and lost my place.
- 4 Page 66 of your rebuttal testimony, this is consistent
- 5 with what I believe you were saying, that the company is
- 6 undertaking an effort to reduce the amount of time,
- 7 correct?
- 8 A Yes.
- 9 Q So if there's no financial implications to the
- 10 company for these extended delays in the construction work
- order to plant and service, why are you undertaking the
- 12 effort to reduce the amount of time it takes to close the
- work orders?
- 14 A I think efficiency. I think the way the adjustment
- 15 was calculated, it didn't take into account all impacts of
- 16 the calculations. So the adjustment -- there are some
- 17 off-setting impacts that were taken into account, so we
- challenged the adjustment on that basis.
- 19 Secondly, just about efficiency, becoming more
- 20 efficient and continuing to improve. You know, the
- 21 company has sort of a wide portfolio of complex projects.
- 22 Some can be closed in a very short amount of time. Others
- 23 take much longer to close. We're just trying to improve
- the efficiency in the process.
- 25 Q Now, at page 63, lines 19 through 21 of your rebuttal

- 1 testimony, you state, "Based on staff's assumption of
- 2 consistent closing delays, the company's rate base would
- 3 have been understated in 2001 when the rates were
- 4 established," is that correct?
- 5 A That's correct.
- 6 Q Did staff testify that these closing delays were a
- 7 problem prior to the 2001 merger?
- 8 A I don't believe -- I don't recall -- I don't believe
- 9 they did.
- 10 Q Is this a closing -- is this closing delay problem
- 11 something that happened after National Grid took over
- 12 Niagara Mohawk?
- 13 A No. I think closing delays -- one of the big
- challenges, when you're doing large construction
- 15 portfolios, is getting these projects closed
- 16 expeditiously. They're very complex, so it's a
- 17 systemic -- it has been a systemic problem across our
- industry, in fact, so it's just something that we see is
- 19 something that we can improve.
- 20 O But you don't know for a fact whether or not there
- 21 were any of these problems at Niagara Mohawk prior to when
- 22 National Grid merged with the company, correct?
- 23 A I think we could see evidence of the problems because
- 24 you have very high CWIP balances, so you could see
- 25 evidence of that problem existing.

- 1 Q And you are now undertaking an effort to look at this
- 2 issue eight years later?
- 3 A No, I wouldn't characterize it that way. There's
- 4 been two or three efforts to reduce CWIP balances and
- 5 improve the process. I think in the past the efforts have
- 6 been very much focused around the symptoms, just getting
- 7 the balances down. So you do a blitz. You figure out the
- 8 programs, what do you have to do to get them closed. I
- 9 would characterize this effort as being very much
- 10 different. To be honest, it came out of the work that
- 11 North Star did as part of the management order. And we're
- 12 going to address, you know, what's the underlying cause,
- what are the changes that you have to implement in the
- process, not just to improve it one time but to make sure
- 15 the improvements are systematic.
- 16 Q Mr. Sloey, has National Grid reorganized Niagara
- 17 Mohawk's property records department since it acquired the
- 18 company?
- 19 A When you say "property records," fixed asset
- 20 accounting?
- 21 O Yes.
- 22 A Has it reorganized it since National Grid acquired
- Niagara Mohawk?
- 24 Q Yes.
- 25 A So it would have been reorganized, because it was

- 1 initially conducted out of Syracuse. The function was
- then transferred through to Westborough, New England. And
- 3 it was then consolidated when National Grid acquired Rhode
- 4 Island. And the function was then reorganized when it was
- 5 moved to Long Island following the KeySpan mergers. I
- 6 quess, yes.
- 7 Q Is there still -- does that department still exist at
- 8 Niagara Mohawk in any fashion?
- 9 A Again, it's a service company group and proficiency.
- 10 We don't -- we don't structure our organization so -- just
- 11 to one particular entity. And they're structured so they
- 12 provided a consistent range of services, so we have one
- 13 plant accounting department or property records. But
- inside that department we have people who specialize in
- 15 different type of construction activities, but we don't
- 16 arrange the teams by entity.
- 17 Q Has National Grid, to your knowledge, reduced the
- 18 number of employees in that department in total across all
- 19 affiliates since it acquired Niagara Mohawk?
- 20 A I couldn't tell you.
- 21 0 Sorry?
- 22 A I couldn't tell you. My assumption is yes,
- 23 considering it was acquired in 2001. I'm trying to
- 24 remember. I mean, I wasn't here, but I'm trying to
- 25 remember the iterations from manual records to different

- 1 systems through Walker, so appreciably there were some
- 2 efficiencies on the way through. We haven't -- but since
- 3 the KeySpan merger we haven't significantly -- in fact, I
- 4 don't think at all. We have probably increased the staff
- on the plant accounting side since the merger because
- 6 we're still operating two systems, so we're still
- 7 operating Legacy PeopleSoft and Oracle. Power Plant is
- 8 the property accounting system in both, but they operate
- 9 fundamentally differently, so you have a parallel universe
- 10 that you manage.
- 11 Q You would have increased the size in total?
- 12 A I suspect so, yes.
- 13 O But do you assume or do you know whether or not that
- is the sum of the departments from both of those
- organizations you're referring to?
- 16 A No, I have to go and check. Not off the top of my
- head.
- 18 O Would you assume that there would be something fewer
- than two total departments?
- 20 A I don't -- I don't -- at this point my answer is no
- 21 because we haven't integrated the systems. We can only
- 22 make that efficiency when we bring them onto a common
- 23 platform and a single instance of Power Plant. Otherwise,
- 24 they just continue to do the same level of work. So my
- 25 expectation would be no.

- 1 Q Okay.
- MS. CICERANI: I'm sorry, Your Honor. We
- 3 need a moment.
- 4 ALJ BOUTEILLER: Take your time.
- 5 BY MS. CICERANI:
- 6 Q Mr. Sloey, if we could go back to your testimony at
- 7 page 19.
- 8 MR. MAGER: Rebuttal?
- 9 MS. CICERANI: Yeah.
- 10 Q There you state that "Based on staff's assumption of
- 11 consistent closing delays, the company's rate base would
- 12 have been understated in 2001 when the rates were last
- 13 established, correct?
- 14 A Correct.
- 15 Q You just indicated that you had some sort of analysis
- 16 that you performed?
- 17 A In relation to what?
- 18 O To the closing costs -- not closing costs -- the
- 19 closing delays in the construction work department?
- 20 A That's right. We're undertaking a process to
- 21 understand the cause and therefore improve that process.
- Is that the analysis you're referring to?
- 23 Q Well, you just mentioned that you believe this was a
- 24 systemic problem and that you looked at it and there were
- 25 at least three periods of time?

1	A There were two or three blitzes of trying to get the
2	balance down, so I know it was a preexisting problem,
3	correct.
4	Q I guess, then, could you provide us with the analysis
5	that you performed those two or three times?
6	A We can provide you with a trend be able to provide
7	you with a trend in CWIP balances, which is a good leading
8	indicator, and we'll provide you with whatever other
9	information we can get in terms of closing delays going
LO	back to that time. But you just need to understand that
L1	we're going back beyond PeopleSoft into Walker. We don't
L2	have those systems online, so just understand it's not an
L3	easy question to answer.
L 4	Q I understand.
L5	ALJ BOUTEILLER: To be clear on the record,
L6	you are going to make some effort to respond?
L7	THE WITNESS: Yes, we will.
L8	ALJ BOUTEILLER: These are your choices, and
L9	you need to be clear on the record to what degree
20	you're going to perform, and I think you have been,
21	but we're taking this as a probative instance of your
22	follow-through.
23	THE WITNESS: We will make an attempt to
24	give a response, so I'm just managing expectations,
25	if I'm allowed to do that. It's not an easy question

- 1 to answer, and the answer won't be complete.
- 2 ALJ BOUTEILLER: Okay.
- 3 BY MS. CICERANI:
- 4 Q Would you accept, subject to check, that staff's
- 5 adjustment does not include any work orders prior to 2003,
- 6 subject to check?
- 7 A Prior to 2003, correct.
- 8 Q In your rebuttal testimony on page 63 starting at
- 9 line 8, you state that "Staff failed to make an
- off-setting adjustment to reverse excess depreciation
- incurred on assets that would have been retired for the
- same period assuming a one-month closing rule, " right?
- 13 A Correct.
- 14 Q Do all new assets replace retiring assets?
- 15 A Not all of them, no. Many.
- 16 Q Have you done any analysis showing how many of these
- 17 work orders with delayed closing replaced retiring assets?
- 18 A I don't think -- analysis wouldn't be the right
- 19 characterization. We've taken some estimates, yes.
- 20 Q Where would we find those estimates? What would we
- look to?
- 22 A It's not something -- it's just our own internal
- 23 workings. We haven't provided it as part of our record or
- 24 discovery requests. I mean, projects can have both. They
- can be genuinely new construction, which doesn't have

- 1 retirements. Many of it is replacements that will have
- 2 retirements, or they can be retirement-only projects. So
- 3 you need to look at all three. You just can't look at
- 4 one.
- 5 Q On average how old were the assets that were replaced
- 6 by the 2003 through 2009 construction work orders?
- 7 A I have no idea.
- 8 Q 30 years? 40 years?
- 9 A I would -- certainly less than 40, in the 20 to 30
- 10 range, but it would be a wild guess. If you want to know
- 11 the answer, I'd rather provide the answer.
- 12 Q That's okay. You don't need to.
- 13 A Okay.
- 14 Q Do you think that the original cost of the 30- to
- 15 50-year-old assets, assuming that there are some, being
- replaced is more or less than the cost of the 2003 to 2009
- 17 replacement?
- 18 A It would be less and -- yes, it would be less. I
- think we're saying that the retirement value would be
- 20 higher than the depreciation on the construction, on
- 21 delayed closing construction. I'm saying it isn't a
- 22 significant element to the calculation and adjustment
- that's missing.
- 24 Q Do you know what construction inflation has been over
- 25 the past 30 to 50 years?

- 1 A No.
- 2 Q Why didn't the company undertake an analysis to
- 3 estimate how much extra depreciation it reported on these
- 4 old assets that should have been retired? Was it that the
- 5 amount was too immaterial to try and estimate that extra
- 6 depreciation?
- 7 A To be honest, we didn't think about it until after
- 8 staff proposed the adjustment in their accounting
- 9 testimony. So then we looked at it and said it was a very
- 10 small number, anyway. There is this offset. We know we
- 11 have the delay problem from 2001, so it's an element of
- rate base that wasn't there. It just didn't seem a very
- large issue, honestly.
- 14 Q Do you generally agree that the larger the company,
- 15 the more opportunities there are for economies of scale
- within the company relative to a smaller company?
- 17 A I mean, larger in absolute sense, but as a percentage
- 18 of the cost basis relevant to that company, I imagine
- they'd be broadly the same when you normalize for size.
- 20 Q Well, when you normal -- I'm not normalizing for
- 21 size. Let me just give you an example. If a company had
- 22 100 employees, they might need, for example, two human
- 23 resource employees to serve those hundred, but the company
- 24 with 600 employees might need only about eight to serve
- them, so you're kind of looking at a ratio of human

- 1 resource employees, you know, one to fifty in the smaller,
- one to seventy-five in the larger. Does that generally
- 3 make sense to you?
- 4 A Intuitively, yes, but you have to look at the
- 5 company. One was non-union and one was heavily unionized
- 6 with 23 different unions and you'd expect a different
- 7 ratio. But intuitively, yes, hypothetically.
- 8 O In National Grid's billing pool allocators is it
- 9 correct that the company does not include in the
- 10 development of those allocators the relative levels of any
- 11 economies of scale that each affiliate could achieve on a
- 12 stand-alone basis? Is that correct?
- 13 A Counsel, I just don't understand the question.
- 14 Q Okay. Is there in the development of the allocators,
- the billing pool allocators, is there a consideration for
- economies of scale in terms of the size of a company?
- 17 A No. I mean, Counsel, bill pool is a very simple
- 18 mathematical device. It creates a denominator, identifies
- a numerator, and you apply that to a cost pool. The
- impact of scale, and I guess the point you're driving at,
- 21 Counsel, is synergy is actually in the cost pool on which
- 22 the bill pool operates, not the bill pool itself. The
- 23 bill pool is just math.
- 24 Q Is Niagara Mohawk the largest of the National Grid
- 25 U.S. affiliates in terms of customer numbers?

- 1 A Yes, it would be.
- 2 Q And in terms of employees is it the largest, in terms
- 3 of number of employees?
- 4 A I imagine so, but I've never actually looked at it on
- 5 that basis. It would be very easy to test. I imagine so.
- 6 O In terms of revenues?
- 7 A Yes.
- 8 Q Essentially, in terms of all the determinants the
- 9 company uses to develop its billing pool allocations,
- 10 Niagara Mohawk is the largest of the National Grid U.S.
- 11 affiliates?
- 12 A Well, it's not all because, I mean, we have like 200
- different bill pools. You've referred to any sort of, you
- 14 know, people-driven ones and revenue-driven ones, whether
- it's floor area, space, rubber gloves. There's huge types
- of bill pools. Number of computers.
- 17 MS. CICERANI: Your Honor, I'd like to mark
- 18 as an exhibit, this is just a hypothetical billing
- 19 pool allocation of human resources for department
- labor costs. It's a single-sheet exhibit.
- 21 ALJ BOUTEILLER: For identification we'll
- 22 mark it as Number 331.
- 23 (Exhibit No. 331 was marked for
- identification.)
- 25 BY MS. CICERANI:

- 1 Q Mr. Sloey, I'm going to walk you through this, but I
- 2 don't know if you want to admit it. This is a document
- 3 that we created to just sort of try to talk through this
- 4 aspect that we've been exploring a little bit further. I
- 5 don't know if you need a minute or you --
- 6 A Why don't you walk me through it, and if I need a
- 7 minute to think, I can take it there.
- 8 O All right. If we look at scenario one -- and I quess
- 9 I'd like to discuss your rebuttal testimony at page 32,
- 10 lines 5 through 12. There you state that "in developing
- 11 the KeySpan synergy savings amount in the Niagara Mohawk
- revenue requirement, the appropriate bill pool was applied
- 13 to each synergy savings initiative to derive Niagara
- 14 Mohawk's share of savings." Is it correct that you did
- 15 not use the overall service company cost allocation
- 16 percentages to allocate synergy savings to Niagara Mohawk
- 17 since the total charges from the service companies were
- driven by many services for which there were no synergy
- 19 savings?
- 20 A That's right. We thought the bill pool methodology
- 21 would give the fairest -- would give the fairest
- representation. Bear in mind, when you're trying to
- 23 attribute synergies, you're trying to attribute a cost
- that you haven't actually incurred, so it becomes a very
- 25 hypothetical calculation.

- 1 Q If you could look to scenario one, there are existing
- 2 pre-merger economies of scale in the HR department of the
- 3 larger affiliate with each HR employee being able to serve
- 4 300 employees. Do you see that in column C?
- 5 A 300?
- 6 Q I'm sorry, 600 employees in column C, compared to the
- 7 affiliate's HR employees being able to serve only 500.
- 8 Column C is sort of a little offset there. Well, the
- 9 column isn't, but the numbers are.
- 10 A Is that a ratio? So we're saying 9,000 divided by 15
- 11 is 600?
- 12 Q That's correct.
- 13 A Okay.
- 14 Q In this scenario there are no merger savings that
- 15 occur -- hang on a second. If you look at column B and
- 16 column F, you'll see that there's no pre-merger savings or
- 17 post-merger savings. There's no synergy savings,
- 18 essentially. They're the same, 17 and 17 employees in
- 19 both cases, correct? Do you see that?
- 20 A I do.
- 21 Q Okay. In scenario one, pre-merger, do you agree that
- the -- that company A's pre-merger HR costs are 1,500,000,
- 23 which would be column E?
- 24 A Yes.
- 25 Q And pre-merger there would not be any billing pool

- 1 allocations for HR since company A is a separate entity
- and incurs 100 percent of its own cost, correct?
- 3 A Okay.
- 4 O The post-merger company A becomes affiliate A.
- 5 A Is that in scenario two?
- 6 Q No, in the same -- if you're looking -- still in
- 7 scenario one?
- 8 A Right.
- 9 Q Okay. You see affiliate A. And company B becomes
- 10 affiliate B. If post-merger you base the HR billing pool
- 11 allocators on the number of employees within affiliates A
- and B, which is column A again, without giving any
- consideration to preexisting economies of scale, that
- 14 affiliate A will actually incur a higher HR cost
- 15 post-merger than pre-merger, if you look at column H
- 16 versus column E. Do you see that?
- 17 A Okay. So, Counsel, just so I understand, we're
- 18 saying that the costs that would be charged, so affiliate
- 19 A incurred 1.5 million costs under their own steam
- 20 pre-merger, and they incurred 1.53 post-merger because the
- 21 working assumption here is that affiliate B, I guess, is
- 22 so much less efficient? I'm not quite sure how it works.
- 23 O I'm not sure that that would be the working
- assumption. So under the billing pool methodology
- affiliate A is now assigned one thousand -- 530,000, and

- 1 affiliate B, 170,000, correct?
- 2 A Yeah, one third.
- 3 Q Okay. All right. I'm just trying -- so, therefore,
- 4 in that scenario, affiliate A, the larger affiliate,
- 5 actually has negative savings, is that correct?
- 6 A That's what it says.
- 7 Q Okay. We'll leave the hypothetical, and I now have
- 8 just a very few more questions for you.
- 9 If I could refer you RRP-1R, sheet 3 of 18.
- MS. CICERANI: Does anybody have that?
- 11 MS. SWEET ZAVAGLIA: What was that?
- MS. CICERANI: RRP-1R, sheet 3 of 18.
- 13 A Is it in one of these things?
- 14 O No, it's in the company's filings.
- 15 MS. SWEET ZAVAGLIA: It's a revenue panel
- 16 exhibit. It's a revenue requirement.
- 17 BY MS. CICERANI:
- 18 O Near the top of that exhibit -- you have it now,
- 19 correct?
- 20 A Correct.
- 21 Q Near the top of that exhibit, for the company's
- federal income tax calculation, the fourth addition down,
- it's taxable income, business meals, 50 percent
- 24 disallowance. Do you see that? Is that correct?
- 25 A I see the fourth one down is employee expenses.

ALEXY ASSOCIATES, INC. (518) 798-6109

- One, two, three, four -- do you have sheet 3 of 18?
- 2 A Sorry. Okay. Sorry. Counsel, point to me again
- 3 business meals, 50 percent disallowance. I've got it.
- 4 O That's in addition to federal tax income, correct?
- 5 A That's right. So book expense would have been 100
- 6 percent. It's being added back because 50 percent would
- 7 be disallowed.
- 8 O How much of this addition to taxable income for
- 9 business meals is related to the cost you're removing from
- 10 the revenue requirement?
- 11 A Counsel, I would have no idea.
- 12 Q Could you perhaps provide the details showing how
- 13 much of the addition to taxable income for business meals
- is related to the cost being removed?
- 15 A So what we removed from the revenue requirement in
- 16 supplemental testimony was all the expenses for
- 17 expatriates and officers of the nominated company, so we'd
- have to go back and do that analysis.
- 19 Q Is that something you can provide?
- 20 A Is this \$330? 330,000.
- 21 Q 330,000.
- 22 A Okay, we'll do it.
- MS. CICERANI: Your Honor, just one moment,
- if we could?
- 25 (Discussion off the record.)

ALEXY ASSOCIATES, INC. (518) 798-6109

- 1 BY MS. CICERANI:
- 2 Q Mr. Sloey, are there any expatriate costs in the
- 3 January 2004 through January 2009 Niagara Mohawk capital
- 4 costs -- capitalized costs? I'm sorry. Capitalized
- 5 costs?
- 6 A I wouldn't think so. I would have to think about the
- 7 question, but I wouldn't think so. You mean capitalized
- 8 into planned? I wouldn't think so, no. They're expenses
- 9 within the year unless you had particular expats engaged
- in construction activities and therefore it flowed through
- 11 as part of the salary, but I'd have to check to see which
- 12 expats were in town during that time period.
- 13 Q Is that something you could check for us?
- 14 A Yes, we could.
- 15 Q Thank you.
- 16 A It would be just small -- I can only think of
- 17 potentially one guy.
- 18 Q Are there any expatriate costs in the January 2004
- 19 through January 2006 Niagara Mohawk -- 2009 -- I'm
- 20 sorry -- deferral account, Niagara Mohawk deferral
- 21 account? Or many accounts?
- 22 A That's a big question.
- 23 O Is that something you could --
- 24 A Again, to the extent that the deferral contained
- 25 activities that were costs based on labor and burden and

- 1 expat, possibly.
- 2 Q So when you removed the expatriate costs that you did
- from here, you did not do this analysis to determine if
- 4 there were any in the deferral account, correct?
- 5 A I have to defer to the Revenue Panel.
- 6 0 Okay.
- 7 A Because they did the analysis.
- 8 Q Okay.
- 9 MS. CICERANI: I have no further questions,
- 10 Your Honor.
- 11 ALJ BOUTEILLER: Okay. Let's go off the
- 12 record.
- 13 (Discussion off the record.)
- 14 ALJ BOUTEILLER: We will resume with the
- 15 cross-examination, and I guess Mr. Mager wants to go
- 16 next.
- 17 CROSS-EXAMINATION
- 18 BY MR. MAGER:
- 19 Q Good afternoon, Mr. Sloey.
- 20 A Good afternoon.
- 21 Q Just a couple of general questions. You're the chief
- 22 financial officer of National Grid USA?
- 23 A No. I'm the chief financial officer of the U.S.
- 24 Financial Services Group.
- Q Okay. Are you an employee of Niagara Mohawk?

- 1 A I'm an employee of the National Grid USA -- actually,
- 2 I'm an employee of the U.K. company, but my accounting
- 3 follows the National Grid USA accounting, Legacy National
- 4 Grid Service Company. I apologize. It's a little
- 5 confusing. That's the way it is.
- 6 Q So can I assume the answer to my question is no,
- 7 you're not an employee of Niagara Mohawk Power
- 8 Corporation?
- 9 A Correct.
- 10 Q And you're -- is it fair to say one of your
- 11 responsibilities is -- covers the allocation of service
- 12 company costs to the various affiliate companies,
- including Niagara Mohawk?
- 14 A That's correct. I run the service company accounting
- 15 function, or people in my group.
- 16 Q Okay. I'd like to follow up on a line of cross that
- 17 staff counsel asked you regarding the compilation of the
- 18 historic test year expense and how that was used to get to
- 19 the proposed rate year expense. Do you recall those line
- of questions?
- 21 A I do.
- 22 Q Okay. Now, would you agree that certain costs
- incurred during the test year are non-recurring and
- therefore should be the subject of a normalizing
- 25 adjustment?

- 1 A Yes. There will always be those costs in any year.
- O Okay. Those could be various service company
- allocations including a direct charge? For instance,
- 4 there could have been some scope of work that was done
- 5 solely for Niagara Mohawk that was direct charged to
- 6 Niagara Mohawk but was non-reoccurring; is that fair?
- 7 A It's possible.
- 8 Q And it also could be on a task or a scope of work
- 9 that was allocated by a bill pool, right, that it was not
- 10 something that happened during the historic test year that
- 11 was not expected to recur during the rate year; that would
- also be subject to a normalizing adjustment?
- 13 A Also possible.
- 14 Q Okay. And in compiling the test year service company
- 15 expenses, what role did you play in determining what
- 16 expenses were non-reoccurring?
- 17 A People on my team supported the rate and regulation
- 18 team, and they compiled the cost of service. But,
- 19 actually, the compilation of the cost of service -- the
- 20 normalizing adjustments were done as part of rate and
- 21 regulation and the responsibility of the Revenue Panel.
- 22 Q Okay. And do you know what -- I think you testified
- 23 in response to staff that there were literally hundreds of
- 24 thousands of invoices that comprised the test year service
- company expenses. Do you recall that?

- 1 A I do, correct.
- Q Okay. And what was the process by which those
- 3 hundreds of thousands of invoices were reviewed to
- 4 determine which ones were non-recurring and unlikely to,
- 5 you know, occur in the rate year and therefore should be
- 6 subject to a normalizing adjustment?
- 7 A Counsel, as I said, the normalizing process was
- 8 actually performed by the rates team and will be spoken to
- 9 by the Revenue Panel.
- 10 Q So you didn't -- you have no knowledge of that? You
- weren't part of that process?
- 12 A I have some knowledge of what happened, and I have
- some knowledge of the costs that were normalized, but it's
- 14 very limited. The process was actually run by the rates
- 15 team.
- 16 ALJ BOUTEILLER: Which means they made the
- 17 determination of what to normalize and what not to
- 18 normalize?
- THE WITNESS: Correct.
- 20 ALJ BOUTEILLER: You did not make those
- 21 determinations?
- 22 THE WITNESS: I did not.
- MR. MAGER: Thank you.
- 24 BY MR. MAGER:
- 25 Q And there were some questions that staff counsel

- 1 asked in terms of the relationship between the service
- companies and Niagara Mohawk, and I just want to follow up
- on that -- on them. With respect to the contracts that
- 4 exist between the various service companies and Niagara
- 5 Mohawk, am I correct that it's the service company that
- 6 decides the contract should be entered into by both
- 7 parties?
- 8 A No. It's a contract. It's mutual. So the affiliate
- 9 requests the services and the service company and the
- 10 affiliate agree to a contract and execute it.
- 11 Q So it's Niagara Mohawk's independent decision whether
- it's going to use a service company to perform a certain
- 13 service?
- 14 A The service contracts provide generically a list of a
- 15 range of services, and so that range of service is
- included in the service delivery.
- 17 Q Right. I understand. There's contracts between
- 18 Niagara Mohawk and a bunch of service companies, all of
- which you oversee, correct?
- 20 A Correct.
- 21 Q And each one of those contracts includes a range of
- 22 services that the service company provides to Niagara
- 23 Mohawk?
- 24 A Correct.
- 25 Q Okay. Does -- is it a decision of Niagara Mohawk

1	whether to enter into that contract with the service
2	company and also to decide what services it's going to
3	contract out to the service company, or is that decision
4	made by the service company?
5	A It's made broadly as sort of part of the U.S. group,
6	so the group believes in the sort of delivery of common
7	services across all of the affiliates, and those cost
8	services are delivered out of the service company, so all
9	of the affiliates enter agreements with the service
LO	companies to take those services.
L1	Q So it's a decision of National Grid USA that Niagara
L2	Mohawk should enter into these contracts?
L3	A I don't know whether I'd characterize it exactly that
L 4	way. It's a decision of the U.S. group. They believe in
L5	the philosophy of the service company, that that's in the
L6	interest of ratepayers because you can deliver a
L7	consistent set of services effectively, and then those
L8	cost services are deployed all across the utilities in the
L9	U.S. group.
20	ALJ BOUTEILLER: If I'm understanding the
21	way you operate, would it be fair to say that the
22	line of business decides to enter into the contract
23	with the service company?
24	THE WITNESS: That's true, because the line
25	of business is responsible for each utility under its

1	purview. I guess I'm speaking to a more broader
2	concept that in the U.S. we believe in the concept of
3	service company, so it's much more a formality to
4	agree to to take those services because we have
5	the structure built to deliver them.
6	ALJ BOUTEILLER: So it's a formality, the
7	action taken between the service company and the
8	lines of business? Would you call that just a
9	formality?
10	THE WITNESS: It's a significant formality.
11	ALJ BOUTEILLER: It's an official and formal
12	and philosophical agreement on both sides?
13	THE WITNESS: That's right.
14	ALJ BOUTEILLER: So it's not a difficult
15	negotiation?
16	THE WITNESS: Correct.
17	ALJ BOUTEILLER: But it is a responsibility
18	that you feel that you need to enter into a formal
19	document that you do so.
20	THE WITNESS: Correct.
21	ALJ BOUTEILLER: And it's usually done at
22	the level of line of business with the service
23	company?
24	THE WITNESS: So the line of business will
25	agree, but then the officers of Niagara Mohawk will

- sign the agreement with the service company.
- 2 ALJ BOUTEILLER: Okay. Thank you for
- 3 letting me understand that.
- 4 Please proceed.
- 5 BY MR. MAGER:
- 6 O So the decision on the contract and whatever
- 7 negotiation takes place is between the service company and
- 8 the line of business?
- 9 A Correct.
- 10 Q And by "line of business," that's -- the lines of
- 11 business are run by National Grid USA, the parent company?
- 12 A No, the lines of business are run by the management
- team of the lines of business.
- 14 Q Okay. Who does the management team of a line of
- 15 business work for?
- 16 A Okay. So they work for -- they're employees of the
- 17 service company. But they're employees of the service
- 18 company purely because they share time across a range of
- 19 utilities. They're responsible for the activities of the
- 20 utilities in their responsibility.
- 21 Q So if I got this right, employees of the service
- 22 company negotiate on behalf of the service company, and
- employees of the service company negotiate on behalf of
- the line of business?
- 25 A That's right, but they're -- I don't think that is

1	right. I mean, they're technically
2	Q It either is or isn't.
3	A They're technically employees of the service company.
4	However, their responsibility they're employed by the
5	service company purely to use the allocations,
6	methodologies that exist in our system so they can share
7	time across all of the utilities. They're not sort of
8	acting in the interest of the service company. They are
9	acting in the interest of the utilities they're serving.
10	ALJ BOUTEILLER: Okay. Another way of
11	approaching this, to whom are they accountable? Who
12	are their officers or who are their principals?
13	THE WITNESS: The line of business
14	management, so it's Tom King who runs the electricity
15	distribution and generation. He's also he has two
16	roles. He's the head of the electricity distribution
17	and generation line of business. He's also president
18	of National Grid USA.
19	ALJ BOUTEILLER: He wears two hats.
20	THE WITNESS: He wears two hats. And all of
21	his management team report to him. But in answer to
22	counsel's question, those people are employees of the
23	service company, but they're employees not because
24	they represent the service company; it's because we
25	need to have the mechanics to share their time across

- 1 utilities. They're providing consistent services.
- 2 ALJ BOUTEILLER: At the line of business
- activity you're talking about here, we're talking
- 4 about true corporate officers?
- 5 THE WITNESS: Yes.
- 6 ALJ BOUTEILLER: Thank you.
- 7 Please proceed.
- 8 MR. MAGER: Okay.
- 9 BY MR. MAGER:
- 10 Q Now, is it fair to say that the service company
- 11 employees decide or have responsibility for the -- using
- the correct cost allocators with respect to a type of
- 13 expense?
- 14 A That's correct.
- 15 Q Okay. And between Niagara Mohawk and National Grid
- 16 who decides whether or how a particular cost allocator
- should be updated or changed?
- 18 A Well, we have a standard policy, so we determine the
- 19 appropriate -- the appropriate allocation methodology for
- 20 each event or type of event. We then have a standard
- 21 review process which occurs on a monthly basis where we
- 22 run analytics to check the outcome of our process, and
- then we update all bill pools and allocation codes
- annually.
- Q Okay. And I understand the annual updates where you

- 1 take existing pools and you just simply update the
- 2 numbers?
- 3 A New denominators.
- 4 Q Do you ever change policies in terms of applying a
- 5 different pool to a similar type of expense or change
- 6 policies in terms of how costs should be allocated?
- 7 A Not so much change policy, but you would change the
- 8 implementation. So someone who used to have all company
- 9 responsibilities and they suddenly change or they change
- 10 their job or you reorganize that part of the business, it
- 11 may result in a change in the allocations because you need
- 12 the charges to be distributed in a different way, so we
- change the execution but not the policy.
- 14 Q Let me go at my question this way. I think you said
- 15 there's maybe 300 different choices on the National Grid
- service company and a similar amount on the KeySpan side.
- 17 Do you recall that?
- 18 A I do.
- 19 Q Okay. And would it be fair to say that for certain
- 20 types of services there may be multiple choices that may
- 21 seem applicable to a person assigning time or costs?
- 22 A No. To a large extent we try to take that decision
- away from the individual, so what we do is we ask the
- 24 individual in the accounting string that they have to
- record, when they're recording a transaction, to record

- only the company and the activity. And then behind the
- 2 scenes those company and activity codes point to the right
- 3 accounting. So someone doesn't have to go through all the
- 4 300. They have to think about what they're doing and who
- 5 they're doing it for.
- 6 Q If it's not really difficult to choose, then you
- 7 would expect a very high level of accuracy, wouldn't you?
- 8 A I didn't say it's not really difficult. I said we
- 9 try to make it easier. It still is a little bit
- 10 difficult. And often things change. So when someone
- 11 changes their role or we reorganize the business, we have
- 12 to then make sure they understand the correct change to
- the allocation methodology that they use.
- 14 Q Okay. I believe you indicated that there's no
- 15 independent review or audit or investigation by Niagara
- 16 Mohawk separate and apart from anything the service
- 17 companies do in terms of making sure that the costs
- 18 allocated to it are fair and equitable?
- 19 A Not by employees of Niagara Mohawk, no.
- 20 Q To your knowledge, has Niagara Mohawk ever analyzed
- 21 whether it would be more cost-effective for it to perform
- a service instead of one of the service companies?
- 23 A The core services, so talking about core accounting,
- 24 HR, legal, tax, treasury, the answer to that question
- 25 would be no. We believe the services are best delivered

- 1 efficiently centrally and allocated across the utilities.
- When it gets down to procurement services, some aspects of
- 3 our heirs, there are external -- external outsourcing
- 4 activities that are conducted.
- 5 Q Well, and I understand that the National Grid policy
- or approach or view that economies of scale make it
- 7 cheaper to -- for service companies to perform certain
- 8 services. I guess what I want to explore with you is in
- 9 cases where Niagara Mohawk is consistently being allocated
- 10 45 or 50 percent of the costs, has it ever analyzed
- whether, given that it's responsible for such a high
- 12 allocation, whether it could do certain services more cost
- 13 effectively on its own?
- 14 A No.
- 15 Q Okay. Could you turn to page 9 of your direct
- 16 testimony, please?
- 17 A I have it.
- 18 O Okay. I'm looking at lines 9 to 15 of your direct
- 19 testimony. And is it fair to say that the service company
- 20 agreements do not provide any type of guaranty or level of
- 21 performance?
- 22 A That's correct.
- 23 Q Okay. To your knowledge, has Niagara Mohawk ever
- 24 undertaken an evaluation of the quality of services
- 25 provided by the service companies?

- 1 A It's done as part of our ongoing management review
- 2 process. It's just across the year through any of our
- 3 reporting cycles forecasting annual plans, it's just open
- 4 dialogue between the lines of business who are responsible
- for Niagara Mohawk's management and the departments who
- 6 are providing services around cost efficiencies,
- 7 strategies, you know, different ways to do the service.
- 8 That happens just as a part of an ongoing management
- 9 process.
- 10 Q So you're saying service company employees fulfilling
- 11 different roles talk about this. And what I want to get
- 12 at is has Niagara Mohawk, itself, independent from the
- service companies, ever evaluated, to your knowledge, the
- level of performance it gets from the service companies?
- 15 A Not as Niagara Mohawk alone.
- 16 Q Okay. Do you know roughly how much Niagara Mohawk
- 17 pays to the service companies annually, just ballpark?
- 18 A I'm just trying to think of all of the numbers I've
- 19 looked at. It would be significant, 300 -- just on O&M
- was over 300 million.
- 21 O So it's hundreds of millions?
- 22 A Yes.
- 23 O If not billions?
- 24 A Substantial. Substantial.
- Q Okay. Do you know, does Niagara Mohawk pay any other

- 1 outside contractors comparable amounts without requiring
- 2 any level -- any performance standards or guaranties in
- 3 terms of level of services?
- 4 A No.
- 5 Q You talked about -- I believe staff counsel
- 6 questioned you on this, too -- that you're starting to
- 7 develop performance indicators or measurement criteria, is
- 8 that correct?
- 9 A Yes.
- 10 Q And am I correct that the service company is the
- 11 entity responsible for designing the performance criteria
- 12 upon which they're going to be judged?
- 13 A No, that wouldn't be correct. It's agreed between
- 14 the lines of business and the service company, the service
- departments providing the service.
- 16 Q So it's employees of the service company agreeing
- 17 with employees of the service company how the service
- 18 company is going to be evaluated?
- 19 A It's the same point again.
- 20 Q Okay. Is anyone from Niagara Mohawk, independent
- 21 from the service companies, participating in that process?
- 22 A I'm sorry. An employee of Niagara Mohawk only?
- 23 Q Yes. Is any employee of Niagara Mohawk who is not --
- 24 only -- participating in the process of designing
- 25 performance standards that Niagara Mohawk will be able to

- 1 expect from the service company?
- 2 A Counsel, I couldn't tell you exactly, but I would
- 3 imagine, yes, because some of these are quite detailed
- 4 operational metrics, so there may be operational employees
- of Niagara Mohawk participating in that process, but I
- 6 couldn't tell you exactly.
- 7 Q You don't know sitting here today?
- 8 A Correct. But the metrics cover fleet, materials,
- 9 inventory, so wouldn't Niagara Mohawk operational people
- 10 be involved in that? Probably.
- 11 Q Okay. But there's no individual person responsible
- for representing the individual utilities?
- 13 A Correct.
- 14 Q Okay. And if we can skip forward a little bit, so
- 15 the performance standards are put in place. What happens
- if a service company fails to achieve a performance
- 17 standard? Does the utility have to pay less?
- 18 A There isn't a financial penalty, but there's just --
- it's a management process. At the end of the day the
- 20 objective here is to improve the process, reduce the cost,
- 21 become more efficient or improve quality. It's not about
- 22 punishing people. There isn't a standard which says,
- 23 "well, if we don't hit the performance, I'm going to pay
- 24 less," because that would leave a stranded cost in the
- service company that has to be dealt with.

1	Q Yes, but these are services that utility customers
2	are funding. And if utility customers if the service
3	company themselves are saying "we expect to at least
4	achieve this minimal level of performance," and then they
5	fail to do so, why should utility customers bear that
6	expense?
7	A Because the objective here is to improve it, to set a
8	benchmark and then improve the service. I just go back to
9	the cost. If the cost of delivering the service is X and
10	someone gets a discount, where does the other X go?
11	Q Well, it's not a discount, is it? I mean, wouldn't
12	that provide a stronger financial incentive for the
13	service companies to do well, than telling them that
14	they're going to get a hundred percent recovery from
15	utility customers no matter how poorly they do? Wouldn't
16	the better incentive be to put some money on it?
17	A Possibly.
18	ALJ BOUTEILLER: Let me interject at this
19	point. If we've established that there's no one at
20	the NiMo entity level to be used or who could perform
21	either a check on the process or the balance, please
22	address, if you can, how is this process then
23	transparent to third parties interested in the
24	results in specific locations, be they regulators or
25	entities who are capable of performing independent

reviews? I mean, it's the transparency, I guess, of the activity within your service unit that needs to be observed and either verified or accepted or examined by others. How do you address that?

2.4

THE WITNESS: I mean, at the entity level it actually -- it is more difficult because the agreements, the SLA agreement is between the line of business -- it's an operating agreement between the line of business and the vice president and the groups that are providing the service, so it happens at that higher level, so that actually makes that transparency more difficult.

ALJ BOUTEILLER: Right.

THE WITNESS: But that was something that -you know, that was something that we explored with

North Star as part of the management order. We
agreed when we provided our responses to the
management order that -- you know, that we agreed
that that was, within National Grid's operating
model, an appropriate way to go forward.

ALJ BOUTEILLER: So would you agree that with the current structure in the way you operate, it's even all the more important that regulators serve in the capacity of examining your affiliated transactions and come to grips with them or

- 1 appreciate them or come to accept them?
- THE WITNESS: I'd agree with that.
- 3 ALJ BOUTEILLER: Thank you.
- 4 Please proceed.
- 5 MR. MAGER: Thank you.
- 6 BY MR. MAGER:
- 7 Q Please turn to page 13 of your direct testimony. Are
- 8 you there?
- 9 A I'm there.
- 10 Q Okay. You indicate on page 13 that the company plans
- 11 to consolidate three out of its four service companies.
- 12 National Grid plans to consolidate three out of its four
- 13 service companies. Do you see that?
- 14 A Correct. Yes, I see it.
- 15 Q And when is that going to happen?
- 16 A It will be subject to regulatory approval, but it
- 17 will probably happen concurrent with the system's
- 18 implementation that allows to align the allocation
- methodologies across the National Grid U.S. group.
- 20 Q In terms of dates, what's the approximate time frame?
- 21 A Our system strategy will be late for 2011 system
- 22 alignment. The regulatory timetable, in all probability,
- 23 will be longer. So we'll probably initiate the as-is
- 24 world in the new system and then, when we've completed
- regulatory approvals, move to a new methodology.

- 1 Q Now, the goal, I would assume, of consolidating three
- 2 companies would be to produce synergy savings and
- 3 efficiencies?
- 4 A Yes.
- 5 Q As such --
- 6 A As well, ease of use, you know, much more
- 7 transparency across the U.S. group. It makes it very
- 8 complex, running multiple systems.
- 9 Q Okay. So is it fair to say that the combined cost of
- 10 the three consolidated companies should be less than
- 11 those -- the cost of those three companies individually?
- 12 A On implementation of the system and alignment of the
- 13 methodologies, yes.
- 14 Q Okay. Now, I see, I think, starting on line 12 you
- 15 discuss that you expect to change allocation methodologies
- 16 due to the consolidation?
- 17 A Um-hum.
- 18 O Now, let me try to understand that. Let's say
- 19 that -- pick any type of service cost. Why would the
- 20 consolidation of three service companies impact how a cost
- 21 should be allocated? I understand you might be updating
- 22 the service company costs and there may be synergies, but
- why should the methodology itself change?
- 24 A Create a cost shift effectively.
- 25 O Yes.

- 1 A Probably just let me illustrate it by looking at the
- 2 general allocator. So on the Legacy Grid world we use as
- 3 the general allocator, when you can't use a cost causation
- 4 bill pool, we use O&M of all the affiliates. So O&M is
- 5 the numerator for the company over total O&M of all
- 6 affiliates in the U.S. group.
- 7 On the KeySpan side we use the three-point formula.
- 8 A three-point formula is a blended rate between assets,
- 9 revenue and O&M. And so, just mathematically, you can't
- 10 align those equations. They generate different answers.
- 11 So when you move to a common methodology, there will be a
- 12 cost shift. Hopefully, it will be small. And we've done
- some analysis which shows how small it potentially can be.
- 14 But it will happen because an allocation methodology is an
- 15 estimated calculation.
- 16 Q You testified that as a result of that change in
- 17 methodology, costs may actually increase to Niagara
- Mohawk.
- 19 A Didn't we say either increase or decrease?
- 20 Q Yes. So the result of this consolidation, which may
- 21 produce synergy savings, still may produce a cost increase
- to Niagara Mohawk?
- 23 A Correct. So if you separate the question into two,
- 24 so in terms of -- for a given cost pool, might dollars
- move because you've changed the methodology, the answer to

- 1 that is yes. Go ahead. 2. I'm sorry. 3 The question two, as a result of merging the methodologies, merging the service companies and aligning 4 5 a common system, will the cost of executing service 6 companies services fall? Absolutely. 7 Okay. So I guess that you still think it's a 8 possibility that the cost shifting that occurs by changing methodologies may for at least some utilities outweigh any 9 10 share of synergy savings related to their consolidation? We haven't completed the analysis. My expectation 11 12 would be is the synergies would be greater --13 O Okay. -- in our utilities, but we have to complete the 14 15 analysis. It's actually quite a complex calculation. 16 ALJ BOUTEILLER: Let me interject to make sure I am understanding what I first read and 17 18 examined on your nice, beautiful picture about the 19 service companies. 20 THE WITNESS: Thank you. 21
- 21 ALJ BOUTEILLER: It sounds to me like you're 22 describing a two-step process. In the first instance 23 is it your intent to consolidate all of the service 24 companies that are serving KeySpan? Is that correct? 25 THE WITNESS: No. Actually, our intention,

1	Your Honor, is to consolidate all of the service
2	companies across the National Grid USA group in one
3	go.
4	ALJ BOUTEILLER: All in one go.
5	THE WITNESS: All in one go.
6	ALJ BOUTEILLER: So you're accomplishing two
7	objectives simultaneously?
8	THE WITNESS: That's right.
9	ALJ BOUTEILLER: You're consolidating the
10	three companies that serve KeySpan, and then you're
11	integrating them with the same systems as shared by
12	Niagara Mohawk and National Grid USA Service
13	Companies.
14	THE WITNESS: Correct. So actually three
15	things, Your Honor. Consolidating the service
16	companies, aligning the systems, putting them all
17	onto a common systems platform, and the third, then,
18	is giving everybody a common so we have a common
19	set of methodologies across the U.S. group, so
20	effectively halving the number of allocation
21	methodologies we have to use.
22	ALJ BOUTEILLER: And from all of this
23	activity you've conceded on the record that the
24	allocations as they occurred in Niagara Mohawk could
25	be affected by all of this activity?

1	THE WITNESS: They could be affected, but as
2	I've just tried to explain to counsel, in two ways.
3	Firstly, for a given cost pool, just aligning the
4	methodologies, because these are complex mathematical
5	calculations, if you use a different set of
6	calculations, you get a slightly different answer.
7	There will be a cost shift for a given cost pool.
8	However, the efficiencies that were gained by doing
9	that, in my view and it is a view it will
10	outweigh the synergies will outweigh the cost
11	shift.
12	ALJ BOUTEILLER: So holding everything else
13	constant, the next time we would take a look at this,
14	we would expect that the synergies effect would
15	outweigh the cost incurred effect and provide
16	everyone a net benefit.
17	THE WITNESS: Okay. I think everyone a net
18	benefit, but we'll have to do the calculations.
19	ALJ BOUTEILLER: And we'll cross our
20	fingers.
21	Please proceed.
22	BY MR. MAGER:
23	Q How would you do that calculation?
24	A There's two calculations. The first one is what will
25	happen if we align everybody onto a common methodology, so

- 1 you have to sort of go back through all the transactions
- and then run a pro forma calculation and saying, "let's
- assume you didn't use this methodology but we used that
- 4 one; what would the outcome be across all of the
- 5 affiliates?"
- 6 The second calculation is how much of the synergy
- 7 benefits would be realized, which is probably much easier.
- 8 So if I look at my group and I look at service company
- 9 accounting, I have two teams. I have a Legacy National
- 10 Grid team, who run Legacy National Grid Service Company on
- 11 Oracle -- I'm sorry -- PeopleSoft, and I have the Legacy
- 12 KeySpan team who run on Oracle. I'll only need one team.
- 13 O Okay. Is National Grid planning on doing that
- 14 comparison so that information will be available in the
- 15 future?
- 16 A Yes. I mean, as part of our sort of regulatory
- 17 process, which we haven't yet defined, we will have to
- 18 make submissions to all of our regulators around the
- 19 alignment of allocations methodologies and the impact of
- 20 that.
- 21 Q Okay. Now, you say that to the extent costs
- increase -- and they may decrease -- but to the extent
- 23 costs increase as a result of this change, you're simply
- 24 going to charge customers the difference to a deferral
- account; is that what you're saying on page 13, lines 12

- 1 through 15?
- 2 A Correct. The customers will get the benefit of the
- 3 synergy.
- 4 Q And they'll bear the expense of any increased cost by
- 5 the cost shift?
- 6 A If it is an increase to Niagara Mohawk. It might be
- 7 a decrease.
- 8 Q Judging from your prior answers, I take it no one
- 9 from Niagara Mohawk individually is going to be involved
- in the process where different allocation methodologies
- 11 are combined?
- 12 A Counsel, we're going back to the same point. We have
- line of business management teams employed by service
- 14 companies whose interest actually is the utility, not the
- 15 service company. It sounds a little strange, but that's
- 16 the way it is.
- 17 Q Well, when -- the line of businesses, they cover
- 18 multiple utilities, right?
- 19 A Yeah. If we could maybe just refer you to the
- 20 exhibit in my direct testimony.
- 21 Q It's just a very general question. They cover
- 22 multiple utilities, correct?
- 23 A Correct.
- 24 Q And they also -- do the individual lines of
- 25 businesses include regulated utilities and unregulated

- 1 companies within the same line of business?
- 2 A Probably no, with the possible exception of the
- discussion we had before lunch around LIPA and KeySpan
- 4 Electric Services, which is sort of a unique contractual
- 5 relationship as opposed to a regulated relationship.
- 6 Q Okay. And so there's --
- 7 A That would be the only one I could think of.
- 8 Q Okay.
- 9 A I think that we sort of drew that picture in sort of
- 10 the exhibit, wherever it was.
- 11 ALJ BOUTEILLER: I think it's AFS-1 is the
- one I'm looking at, which shows five lines of
- businesses. It does show the existence of KeySpan
- units within the electricity, distribution,
- 15 generation line of business, and you had been asked
- the distinction you could draw.
- 17 THE WITNESS: Correct. So all of those, if
- 18 we look at the electricity, distribution, generation
- line of business, you can see all the Legacy
- 20 utilities from the Legacy National Grid world, and on
- 21 the KeySpan side, electric services is a contractual
- 22 relationship. KeySpan Generation Services is very
- close to a regulated relationship by FERC, but it's
- still contractual, and I just can't remember the
- 25 Glenwood energy company. I have to try.

- 1 BY MR. MAGER:
- 2 Q On page 14 you talk about -- of your direct -- how
- 3 National Grid service companies charge for their services.
- 4 There's direct charges and pools that -- we covered that.
- 5 Generally speaking, do you agree with me that where a
- 6 service is provided for a single affiliate company other
- 7 than Niagara Mohawk, then neither Niagara Mohawk nor its
- 8 customers should be allocated any of those costs?
- 9 A Correct.
- 10 Q Okay. And with respect to the use of bill pools, do
- 11 you agree with me that where a service is provided for
- 12 multiple affiliate companies not including Niagara Mohawk,
- 13 that neither Niagara Mohawk nor its customers should be
- 14 allocated any of those costs?
- 15 A Correct. So you'll see a bill pool in that
- 16 circumstance which would exclude Niagara Mohawk.
- 17 Q Okay. So any expenses -- any expenses that were
- incurred for multiple entities other than Niagara Mohawk,
- 19 none of those should be in the test year or rate year
- 20 projections?
- 21 A Should not, correct.
- 22 Q Okay. On page 21 of your direct testimony you
- 23 discuss the process by which there's verification and
- 24 controls in place to ensure the accuracy of cost
- 25 allocations?

1	А	Correct.
2	Q	Yet in this case in your supplemental testimony
3	you'	ve identified a slew of expenses that were
4	inap	propriately charged to Niagara Mohawk, is that
5	corr	rect?
6	А	Correct.
7	Q	Okay. I have a question about some of that.
8		MR. MAGER: And I'd like to mark as an
9		exhibit a newspaper article regarding this.
10		ALJ BOUTEILLER: Let's see your newspaper
11		article. In the first instance, before we mark
12		anything with respect to newspaper articles, I'll
13		allow you to engage in a line of inquiry. You can
14		refer to it. These are public documents appearing in
15		the outside world. Whether or not they warrant
16		evidentiary value in our proceeding is something I'm
17		not clear about, and that's my reason for being
18		concerned about even marking them. You can show it
19		to the witness. You can distribute it. You can
20		engage in your line of inquiry. But before any
21		newspaper articles become part of the probative
22		evidentiary record in this proceeding, you will have
23		to demonstrate through your cross-examination that

24

25

the information is worthy of inclusion in the record.

MR. MAGER: Your Honor, in light of your

- 1 comments, I think I don't necessarily need the
- 2 article in the record as an exhibit. I want to ask a
- few questions on it.
- 4 ALJ BOUTEILLER: You're not precluded along
- 5 those lines.
- 6 MR. MAGER: Okay.
- 7 BY MR. MAGER:
- 8 Q Did I already give you a copy? Did I give you one?
- 9 A You did.
- 10 Q Okay.
- 11 A I did promise to tell the truth.
- 12 O Okay. I have that in mind. This article talks about
- various expenses that at one time were allocated to
- 14 Niagara Mohawk customers as part of this rate case, and my
- understanding is that they've subsequently been removed
- 16 from the rate case?
- 17 A That's correct.
- 18 O There's a part -- a part of the article indicates
- 19 that a number of these expenses relate directly to you
- 20 individually?
- 21 A Correct.
- 22 Q Is that accurate?
- 23 A It is correct.
- 24 Q Okay. And can you tell me what expenses that you
- 25 previously allocated to Niagara Mohawk customers were

- 1 removed from the rate case?
- 2 A So any of my compensation costs, any of my expatriate
- 3 related expenses, any of my just, you know, travel and
- 4 entertainment expenses relating to the operations of our
- 5 business were also excluded from the rate case in relation
- 6 to me, so there should be zero costs in relation to me now
- 7 in the cost of service.
- 8 Q Okay. Things like fixing toilets and things like
- 9 that, is that related to you?
- 10 A Yes, it was.
- 11 Q Okay. Can you take me through your thought process
- in why you thought fixing a broken toilet at your house
- was an expense that should be charged to Niagara Mohawk
- 14 customers?
- 15 A I can. Actually, it's not my house. Correction,
- 16 Counselor. It's actually a house that's owned by National
- 17 Grid. So National Grid was simply repairing and
- 18 maintaining an asset that they own. We repair thousands
- of toilets a year. So I actually live in that house
- that's owned by National Grid.
- 21 O Go ahead.
- 22 A I'll let you ask your question.
- 23 Q Okay. So you now consider the allocation of those
- costs to customers to be inappropriate?
- 25 A National Grid considers it made a mistake in allowing

- 1 those costs to go into the cost of service and have
- 2 removed them, correct.
- 3 Q Okay. And I guess what I'm trying to understand was
- 4 that if -- if you, as the person in charge of allocating
- 5 these costs, thought that these type of expenses were
- 6 properly allocable to Niagara Mohawk customers, then is
- 7 that symbolic of the thinking among people who work under
- 8 you?
- 9 A No, I don't think it is. I think it's sort of a
- 10 broader policy question around National Grid, National
- 11 Grid deciding what costs were properly incurred but should
- be appropriately retained as a shareholder expense versus
- expenses that should be passed to customers as part of a
- 14 rate filing. And that was the decision-making process
- 15 that resulted in this supplemental testimony and the
- 16 adjustments in the Niagara Mohawk rate case.
- 17 Q Okay. And what is the distinction that -- what is
- 18 the line of demarcation that National Grid now believes is
- 19 appropriate in terms of types of expenses that should be
- allocated to shareholders versus customers?
- 21 A I think we probably set it out in our supplemental
- testimony with respect to this case, but I think National
- 23 Grid has also undertaken to do an independent review to
- 24 actually have independent advice in terms of what expenses
- 25 should be appropriate. Because the way that National Grid

- 1 calculated that adjustment, the cost of service for
- Niagara Mohawk now does not reflect all of the costs that
- are actually needed to run the Niagara Mohawk business, so
- 4 it doesn't have a controller expense. There's no cost for
- 5 me. There's no cost -- we all perform management
- functions on behalf of Niagara Mohawk, and those costs are
- 7 not in the case, so it's an over-compensating adjustment.
- 8 Q You say that you're going to undertake further audits
- 9 and investigations?
- 10 A Correct.
- 11 Q What are those -- what, exactly, is going to be done?
- 12 A So I think we probably refer to it in the
- 13 supplemental testimony. What we're going to do is we're
- 14 going to look at all of our policies and procedures that
- 15 created the events which allowed these costs to not be
- 16 properly classified as shareholder expenses and be passed
- 17 down to the cost of service, and there National Grid
- 18 admits and wants to correct quickly.
- 19 Q What happens if during that process you discover
- 20 numerous other expenses that were improperly billed to
- 21 customers?
- 22 A Then if we find that, then I would imagine that we
- 23 would adjust them. But I think the point that I would
- 24 make is that these expenses were in a very narrow range.
- 25 They were a very unique type of expense. They're very

- 1 self-contained in our company. They're very easy to
- 2 identify, and they were adjusted out as soon as we
- 3 realized and it was brought to our attention that we'd
- 4 made this error.
- 5 Q It wasn't brought to your attention by any of your
- 6 internal controls or processes, right?
- 7 A No. It was brought to our attention by regulators.
- 8 Q Okay. So it's possible that notwithstanding all the
- 9 internal controls you have that regulation of these type
- of expenses could lead to corrections or improvements in
- 11 the process?
- 12 A It's possible, but because of the unique nature of
- these expenses and the way that we calculated the
- adjustment, it would be very unlikely.
- 15 Q That's what you thought before these were discovered,
- 16 too, right?
- 17 A These were properly incurred expenses but hadn't been
- 18 properly accounted for and reviewed as part of the
- 19 preparation for the cost of service.
- 20 Q And I guess that's what concerns me is what expenses
- 21 were properly reviewed as to cost of services -- as part
- of the cost of service?
- 23 A I mean, all the other costs were reviewed in the
- 24 normalizing adjustments as recommended by the Revenue
- 25 Panel, basically, the ones that were eliminated as part of

- 1 the initial cost of service. Then when this error was 2. brought to our attention, we now over-compensated and removed all of these costs from the cost of this case. 3 4 Well, in setting up your test year you didn't -- you 5 obviously didn't get to this level of review; otherwise, 6 it would have been spotted earlier, right? 7 Α Clearly. So what level of review did you get to? 8 I mean, the costs -- all of the costs were reviewed 9 Α 10 as part of our -- you know, that we talked about as part of testimony of the cost allocation review work, the 11 12 amount of work that we did in checking all of the costs. 13 But this decision around these expatriate and officer 14 expenses was not about the appropriateness of the costs. 15 It was whether they should be passed down into the cost of 16 service. It wasn't that the cost was wrong. It was 17 incurred either under our expatriate policy or our expense 18 policy. The error that National Grid made is actually not 19 making the judgment that it should be a shareholder cost 20 and not be passed into the cost of service. ALJ BOUTEILLER: In the old convention of 21 22 parlance that I'm familiar with, we have this notion
- of below-the-line items. 23
- 2.4 THE WITNESS: Good.
- 25 Okay. You're telling us ALJ BOUTEILLER:

ALEXY ASSOCIATES, INC. (518) 798-6109

1	you put these above the line, and the admission
2	you're making is that in most of these instances you
3	now believe they belong below the line.
4	THE WITNESS: And, in fact, the \$4 million
5	adjustment that we've made to this case as part of
6	supplemental testimony includes expenses that should
7	be below the line but also includes, because we've
8	over-compensated and we're very conservative in the
9	correction, also included expenses that should be
10	above the line. They are now excluded from the case.
11	ALJ BOUTEILLER: And until you have your
12	independent review, none of those items will come
13	above the line until you have the proper rationale.
14	THE WITNESS: That's correct. They're
15	excluded from the case.
16	ALJ BOUTEILLER: Okay. I just want to
17	understand your position so I can convey it
18	accurately when it goes past my desk to other desks.
19	THE WITNESS: Okay. That's fine, Your
20	Honor.
21	BY MR. MAGER:
22	Q I guess using above the line and below the line, if
23	your further research and analyses show that there are
24	other costs that really should be on the shareholder
25	account, is it then too late to do anything about it for

- 1 purposes of this rate case?
- 2 A Our intention is to complete this review very
- 3 expeditiously. However, what I would say is the concept
- 4 in U.S. rate-making of what should be below the line is
- 5 just a narrow range of activities. Charitable
- 6 contributions, political contributions, lobbying. And
- 7 we've now added, effectively, a new class of exclusions,
- 8 which are these expatriate and officer expenses. So
- 9 because it was so self-contained in our company, it was a
- 10 narrow range of activities and affected a narrow range of
- 11 people, we believe we've identified and over-compensated
- in the adjustment. We don't expect the review to confirm
- 13 that there are additional costs that should be to the
- 14 account of shareholders, but we're very willing and
- 15 prepared to undertake the review and do it quickly.
- 16 O It's not just costs allocated between shareholders
- and customers, but also is the review going to get at the
- 18 accuracy of how costs are allocated among affiliate
- 19 companies as well?
- 20 A Yes, we intend to have that as part of the scope.
- 21 O And to the extent that that investigation reveals
- 22 that more costs were allocated to Niagara Mohawk than
- should have been, there's no plan to fix that for purposes
- of this rate case, is there?
- 25 A We haven't -- we haven't sort of determined the

- 1 process following the completion. We need to first
- 2 appoint the independent party who will be helping us on
- 3 this review. We'll then be able to agree to scope and
- 4 then to time and then we'll be able to determine process
- 5 at the end of that.
- 6 Q When is your understanding of the timing for this
- 7 process, if you know now?
- 8 A We're in advanced stages of discussion with
- 9 independent parties that will provide this review. We
- 10 expect to have appointed the party probably in a very
- 11 short number of days as opposed to weeks. We'll then
- proceed to agree to scope of that party, and then we'll
- 13 know what the time frame is. But again, we expect it to
- 14 be done in a relatively short number of months.
- 15 Q Okay. Can you please turn to page 57? Actually, I'm
- 16 sorry. Can you first turn to page 40 of your rebuttal
- 17 testimony? Are you there?
- 18 A Yeah, I'm here.
- 19 Q Okay. You talk about, on lines 17 through 19, an
- 20 allocation review that was done at the end of 2009 that
- was limited to invoices over \$100,000.
- 22 A Um-hum.
- 23 Q And then skipping ahead to page 56, you discuss
- 24 the -- how the accuracy and integrity of cost allocations
- are of paramount importance?

- 1 A Um-hum.
- 2 Q Do you see that?
- 3 A I do.
- 4 O And then on page 57 you again talk about a review
- 5 process. Is the review process referred to on page 57 the
- 6 same one referred to on page 40?
- 7 A It is.
- 8 Q Okay. Now, staying on page 57, you decided this
- 9 review process was limited to invoices over a hundred
- 10 thousand dollars?
- 11 A Um-hum.
- 12 Q Would it be fair to say that a hundred thousand plus
- dollar invoices are likely to get more attention during
- the allocation process than smaller invoices?
- 15 A Likely, yeah, I think that would be the case, but
- 16 not -- I wouldn't like the characterization that anything
- 17 below a hundred thousand dollars we wouldn't look at at
- 18 all, so it would get -- they probably get more focus but
- 19 as would a less than a hundred thousand dollars.
- 20 Q Basically, it's fair to say that more thought and
- 21 attention would be given to the allocation process for a
- 22 hundred thousand dollar expense compared to a hundred
- 23 dollar expense?
- 24 A Maybe, correct.
- 25 Q You talk about and I think you had a colloquy with

- the judge about, you know, the accuracy of a bank and a
- 2 hundred percent being difficult to achieve, but to get --
- 3 I guess they found there were 2 percent inaccuracies on
- 4 the invoices -- on certain invoices with a total value of
- 5 3.2 billion. Do you see that?
- 6 A Yes, I do.
- 7 Q Then there's also a follow-up sentence which
- 8 indicates that on another subset there was 92 percent
- 9 accuracy or 8 percent inaccuracy?
- 10 A Okay.
- 11 Q Can you distinguish those two figures?
- 12 A Yeah, of course. So, actually, with the two
- different data sources, so those costs that are pooled and
- 14 allocated out of service companies, two pools, there's
- 15 accounts payable invoices, an invoice that comes into the
- organization that needs to be coded, and then there's how
- 17 people charge their time. They operate through different
- 18 processes, so we tested both.
- 19 Q Okay. With respect to hundred thousand dollar plus
- 20 expenses, there was a 2 percent error rate on invoiced
- 21 expenses and an 8 percent error rate on labor expense?
- 22 A Except there was no flaw on the threshold of labor.
- We looked at all 7,500 employees.
- 24 Q Okay. You looked at all the employees and you looked
- at all of their charges on how they charged their time?

- 1 A On the bill pools that they used, the bill pools and
- 2 allocation codes that they used to charge their time.
- 3 Q For every expense on every day?
- 4 A For every -- it wouldn't be every expense on every
- 5 day, but it would be -- I'd have to confer and check just
- 6 exactly how it was done.
- 7 Q Yeah. I'm not sure --
- 8 A It was actually we checked -- we checked the
- 9 appropriateness of the allocations for all 7,000 people,
- so, you know, were they used incorrectly, had the
- all-company bill pool, or did they only support a group of
- companies and so they should use a narrowly defined bill
- pool, all those were checked for all 7,200 people.
- 14 Q Let's say a person spent one day working on one
- 15 utility's stuff and another day for a different utility.
- 16 Did you go back and check to see how they -- whether they
- accurately reflected their costs over time?
- 18 A I think we did, but I'd have to confer to the record
- and come back to you on an answer. I believe we did.
- 20 Q Do you believe that the 8 percent error rate on labor
- 21 allocations is acceptable?
- 22 A No, we don't.
- 23 Q Do you believe it's problematic?
- 24 A I believe the impact on the Niagara Mohawk rate case
- 25 is small relative to the overall case. I believe it is

- 1 problematic, and I believe that we should improve the
- 2 processes, and that's exactly what we did following the
- 3 review to reduce the error rate. But is it a significant
- 4 error rate in terms of context of a NiMo rate case? No,
- 5 it is not.
- 6 Q At least with respect to part of this review, the --
- 7 at least the invoice piece, just a hundred thousand dollar
- 8 plus invoices totalled, I believe you said, over \$3.2
- 9 billion. Is that what your testimony says on line 4?
- 10 A That's right. That was the total value of invoices
- 11 tested in the population.
- 12 Q Right. And for a lot of the expenses and a lot of
- the pools, doesn't Niagara Mohawk comprise roughly 25 to
- 14 55 percent of the allocation pools?
- 15 A That's correct.
- 16 Q So just on these invoices alone, you're talking about
- 17 a value that could be well in excess of a billion dollars?
- 18 A That's right. But we're also talking about a very
- 19 high level of accuracy in that. And four of the months
- that was included in this review period are actually in
- 21 the historical test year.
- 22 ALJ BOUTEILLER: Let me follow up there.
- With respect to the invoices for which you found 98
- 24 percent accuracy, you believe that that's a good
- result, a good performance. You're not suggesting

1	that that needs requires any improvement or
2	systematic efforts?
3	THE WITNESS: Actually, we did, as a result
4	of that, so, you know yeah, absolutely. We
5	undertook various training programs. We identified
6	where were those errors occurring, why were they
7	occurring. We trained the people. We put in some
8	additional control procedures. I wouldn't want to
9	give the impression that, you know, this as
10	counsel suggested, that any error is acceptable.
11	What I'm saying is, you know, was the impact of the
12	error material and significant on Niagara Mohawk?
13	Probably not.
14	ALJ BOUTEILLER: Is this the floor, then,
15	for your forward-going behavior of your expectations?
16	THE WITNESS: It better not get worse.
17	ALJ BOUTEILLER: So the next time you do
18	this calculation and this test, you would expect to
19	see a result higher than this 98 percent figure that
20	you have here?
21	THE WITNESS: I would, Your Honor. Yes.
22	Put a lot of time and effort into it.
23	ALJ BOUTEILLER: Thank you.
24	Please proceed.
25	BY MR. MAGER:

ALEXY ASSOCIATES, INC. (518) 798-6109

- 1 Q Okay. Can you turn to your supplemental testimony?
- 2 And we're almost done here. Actually -- I'm sorry, it's
- an exhibit to your August 30 supplemental testimony. I'd
- 4 like to ask you a couple of questions on Exhibit AFS-1S.
- 5 A I have it.
- 6 O Okay. Could you please turn to sheet number 4?
- 7 Actually, let me take a step back first. Leave that page
- 8 open. But for service company costs, basically, the
- 9 utility is billed the service company's exact precise
- 10 costs plus some return on equity?
- 11 A Correct. That's the only margin in the equation, on
- 12 the actual transaction is the cost.
- 13 Q Okay. So the extent the charge to the utility is
- 14 reasonable depends upon the reasonableness of the service
- 15 company's costs, right?
- 16 A In concept, yes.
- 17 Q I had a couple questions --
- 18 ALJ BOUTEILLER: When you pose your
- 19 questions, please identify which line you're going to
- 20 be speaking to specifically.
- MR. MAGER: Yeah.
- 22 BY MR. MAGER:
- 23 Q I guess -- a couple questions, let's just say, on car
- leases on this page. If you look at line 3, there's a car
- lease for the month of February 2009 of over \$1800, and a

1	little more than 52 percent is allocated to Niagara
2	Mohawk. Do you see that?
3	A I see it.
4	Q Then another line, say 54, there's a car lease for
5	the same month, February 2009. This one is for almost
6	\$1200, and there's a 56 percent a little over 56
7	percent allocation to Niagara Mohawk. Do you see that?
8	A I do.
9	Q Explain to me how the leasing of a car results in
10	different allocation factors.
11	A I'd have to look at the transaction. I just can't
12	talk from this schedule.
13	ALJ BOUTEILLER: As a follow-up to that, is
14	your representation that these are the lease costs
15	and the most cost effective leases that should be
16	accomplished for these individuals that you're

THE WITNESS: It would be, but these are costs that are now excluded from the case.

showing here?

17

20

21

22

23

24

25

ALJ BOUTEILLER: I understand that, but again, getting back to your basic rationale, your representation is these would be the least cost, most cost effective for rate-making purposes, were they still included?

THE WITNESS: Correct. Looking at the

1	heading of the schedule, this would be a vehicle.
2	The expatriate was entitled to a vehicle under his
3	terms of employment, and this would have been the
4	most cost effective way of meeting that entitlement.
5	ALJ BOUTEILLER: And in the future these
6	might surface again in a rate case and you might
7	present it based upon the results of your outside
8	independent review?
9	THE WITNESS: Correct.
10	ALJ BOUTEILLER: Please proceed.
11	BY MR. MAGER:
12	Q I wasn't going to ask that, but I guess what type of
13	cars do you lease for \$1800 a month?
14	A I'd have to go and check. I don't know. It might
15	have been a short-term rental. Maybe it was part of the
16	expatriate's relocation. I can see that there are two
17	months. I don't know who D. O. Peterson is. I'd have to
18	go check.
19	Q It looks like the \$1800 is one month, and the one
20	under is 1600, and the one under it is almost 1400, and
21	the one under that is almost 1400. I guess I'm just
22	trying to see if these are are these the normal prices
23	that the company pays to lease a car for a month?
24	A It would depend. There's not enough information.
25	ALJ BOUTEILLER: Can you take that as a

1	from-the-Bench request? You provide us what would
2	have been you've provided very useful information
3	when you responded to the question that asked about
4	the home that you occupy and what would be the basis
5	for your incurring costs and allocating it for
6	repair. You indicated that the title to those
7	premises are in corporate hands.
8	THE WITNESS: Correct.
9	ALJ BOUTEILLER: Okay. If you have a
10	similar answer for these leases, could you provide
11	that for the benefit of the Bench?
12	THE WITNESS: Absolutely. Maybe it would
13	help. Let's pick a few, pick three or four and we'll
14	go look at three or four.
15	ALJ BOUTEILLER: Yes.
16	THE WITNESS: Okay.
17	ALJ BOUTEILLER: Thank you.
18	Please proceed.
19	BY MR. MAGER:
20	Q Okay. So for similar type expenses for, like, car
21	leases as an example, you don't you don't know today
22	why some leases why there may be three or four or five
23	different allocation factors applied to Niagara Mohawk
24	Electric?
25	A I couldn't tell from the schedule, no. I'd have to

- 1 investigate it.
- O Okay. How would a car lease be allocated?
- 3 A It should follow a car lease, which is a stable,
- 4 routine charge, it should follow the charging of the
- 5 expatriate or the individual's time. So if they're using
- 6 an all-company bill pool, it should follow that. It's
- 7 just part of their compensation. Counsel, I can't explain
- 8 why it is. I just have to look at it.
- 9 Q Okay. Do the -- does the company ever lease cars for
- 10 employees other than expatriates?
- 11 A It would. I'd have to sort of -- I have to defer to
- the HR panel and look at the company car policy. I'm part
- of a different policy, so I know what happens to me and I
- don't get a lease.
- 15 Q You don't get any \$1800-a-month leases?
- 16 A Sorry.
- 17 Q Okay.
- 18 A It's my car.
- 19 Q Okay.
- MR. MAGER: I don't have anything further,
- 21 Your Honor. Thank you.
- 22 ALJ BOUTEILLER: Mr. Walters, do you want to
- 23 proceed?
- 24 MR. WALTERS: Am I all right here?
- 25 ALJ BOUTEILLER: You're fine if you use the

ALEXY ASSOCIATES, INC. (518) 798-6109

- 1 microphone and the reporter can actually see your
- 2 face.
- 3 MR. WALTERS: I think I've satisfied both
- 4 criteria.
- 5 ALJ BOUTEILLER: She'll let us know if you
- 6 don't.
- 7 CROSS-EXAMINATION
- 8 BY MR. WALTERS:
- 9 Q Good afternoon, Mr. Sloey. My name is John Walters
- 10 with the New York State Consumer Protection Board. I have
- 11 some questions for you. And if I hit on some areas that
- 12 you've testified to previously, I apologize, but I'll try
- to limit the questions to areas you haven't been examined
- on yet.
- 15 A That's fine.
- 16 Q Just a little follow-up. First, if you recall, back
- 17 on staff's cross-examination you indicated that at one
- 18 point you came to the realization that you had been using
- the wrong billing pool. Do you recall that?
- 20 A I do.
- 21 Q And from what period of time -- first of all, I
- guess, when were you made aware of that?
- 23 A Probably a few weeks ago as part of this inquiry.
- 24 Q And you said it was the result of, I think you used
- 25 the term, a frank conversation that you had. Is it fair

- 1 to say that you had been allocating costs to the wrong
- 2 billing pool for the entire period that you've been an
- 3 employee?
- 4 A In the U.S.
- 5 Q In the U.S. That goes back to 2007?
- 6 A When I arrived here, I was using a Legacy Grid bill
- 7 pool, and -- Legacy Grid company, and I should have been
- 8 using the all-company bill pool. It was my error.
- 9 Q During the line of questions from MI, you stated
- something to the effect that in the U.S. we, referring to
- 11 National Grid USA, prefer the service company approach?
- 12 A Um-hum.
- 13 Q Is the same approach used for National Grid
- 14 companies, say, in U.K.?
- 15 A In substance, yes, but not in form. So the concept
- of central delivery of service exists. We just don't use
- 17 the service company structure because the regulation
- 18 structure in the U.K., it works differently.
- 19 Q Okay. Then to follow up in the follow-up mode, you
- 20 talked about the hundred thousand dollar invoices that
- 21 were examined?
- 22 A Um-hum.
- 23 Q And I believe Mr. Mager questioned you as to whether
- or not invoices for amounts lower than that were given
- 25 less consideration. Is that an accurate statement?

- 1 A I think counsel's question was in the processing of
- 2 the invoice did we pay more attention to something higher
- 3 than a hundred thousand than we did to lower. In the
- 4 actual review we actually did tests, and I would have
- 5 to -- it would have to be a request. We actually did
- 6 examine some invoices under a hundred thousand. We
- 7 actually did do a sampling of that, but it wasn't as
- 8 exhaustive as above a hundred thousand.
- 9 Q That's for purposes of arriving at cost of service
- 10 for the cost of service study?
- 11 A No, it was done well in advance of the NiMo rate
- 12 case. It was done by us because we were interested in
- 13 compliance, the correct operation and allocation at a time
- 14 when our company was undergoing fundamental change.
- 15 O You also mentioned labor invoices that were checked,
- and I'll try to tie this in, tie in two topics that are
- 17 unrelated, and please correct me, but you mentioned in
- 18 Mr. Mager's cross that all the labor invoices have been
- 19 checked. I believe you quoted a number of 7200 employees?
- 20 A Correct. Can I just clarify? It wasn't a labor
- 21 invoice. People record their time, actually go into the
- 22 system and record how they spent their time. It wasn't a
- 23 third-party invoice that came across our desk.
- 24 Q All right. Understood. Going back, keeping that
- thought in mind, going back to the staff's cross,

- 1 initially you had discussed the only instance in which a
- 2 Niagara Mohawk Electric Company employee would be able to
- 3 allocate a direct cost would be -- you cited different
- 4 field workers and employees of that nature that are able
- 5 to do that. Is that -- is that correct? A direct cost to
- 6 Niagara Mohawk?
- 7 A Well, the service company employee can allocate the
- 8 cost directly to Niagara Mohawk, so if you don't need to
- 9 use a bill pool, then don't. If the cost that's being
- incurred is wholly to benefit Niagara Mohawk, we can
- 11 record it directly without going through our allocation
- 12 process.
- 13 Q So the 7200 employees, the labor invoices that you're
- referencing are service company?
- 15 A 7200 service company employees, correct.
- 16 Q Thank you.
- 17 A From both Grid and KeySpan service contracts.
- 18 O Again, back to Mr. Mager's questions regarding the
- not-on-the-record newspaper article that you were
- 20 questioned on, you indicated that certain of the
- 21 expatriate costs -- excuse me -- certain of the expatriate
- 22 costs had been brought to your -- when I say "your," the
- company's knowledge through "regulators"?
- 24 A Through the regulatory process, yes.
- 25 Q Right. Can you identify the various regulating

- 1 entities that brought these costs to your attention?
- 2 A The regulators, so go ahead.
- 3 Q Which regulators?
- 4 A Okay. So through the Massachusetts rate case. I
- 5 think we referenced that in our supplemental testimony and
- 6 this case, the PSC.
- 7 Q And as a result you indicate that there's going to be
- 8 analysis done and certain lessons learned will be implied,
- 9 I assume. Is that an across-the-company-wide analysis, or
- is that just concerning cost allocated to Niagara Mohawk?
- 11 A It must be company-wide, because it's a closed-loop
- 12 system, so the costs come into the U.S. group. If the
- allocation to company A is wrong, then there must be a
- 14 corresponding error somewhere else.
- 15 Q You've mentioned a process that the company was going
- 16 through, and that shortly -- I don't mean to pin you down
- 17 to a specific time period, but shortly a party would be
- 18 appointed to conduct the independent review. Do you
- 19 recall that?
- 20 A I do.
- 21 Q What type of process was initiated or did the company
- 22 go through in order to bring this entity to this job or
- 23 the anticipated job?
- 24 A There's probably a relatively small number of
- candidates with experience in U.S. rate-making experience

- in this type of activity. Cost DataStation, you know,
- 2 sort of large-scale related mining activities, there
- aren't too many candidates, so we're able to identify a
- 4 short list relatively quickly, and we're in advanced
- 5 discussions at this point.
- ALJ BOUTEILLER: Let's go off the record.
- 7 (Discussion off the record.)
- 8 BY MR. WALTERS:
- 9 Q One more question back on the topic. I'm sorry I'm
- jumping around here a little bit. But on your specific
- 11 circumstances, the allocation mistake, are you aware of or
- do you know of whether or not other -- I'll just use the
- 13 term -- top executives report in the same manner, is it
- 14 possible that they could be making the same mistake?
- 15 A I'm not aware of others that have made a mistake, but
- it is possible that they did. And part of the exclusion
- 17 process means that that couldn't now have an impact on the
- 18 Niagara Mohawk rate case. And the review that we're
- 19 undertaking will strengthen that procedure and policies in
- the area.
- 21 Q If you look to page 6 of your rebuttal, I'm going to
- 22 ask you questions on your rebuttal and then on your
- 23 direct. I'll stick to your rebuttal and then we'll finish
- and we'll go to your direct, I think, so it's simpler.
- 25 Page 6?

- 1 A Um-hum.
- 2 Q Line 20, you were asked the question, "What are the
- 3 benefits of the service company structure?"
- 4 A Yes.
- 5 Q What would you say are the drawbacks?
- 6 A I haven't been asked that question. There's
- 7 certainly a drawback in having four service companies when
- 8 you only need one, so they're very complex to run. I'm
- 9 just not sure that there is one. I mean, they can be
- 10 relatively complex to run, but with clear procedures and
- 11 policies, good training and, above all, good systems they
- 12 can be very effective, and it allows you to deliver
- consistent services across a range of utilities cost
- 14 effectively.
- 15 Q So from your perspective there's -- there are no
- 16 drawbacks?
- 17 A It means -- going back to the discussion I had with
- 18 Your Honor a little while ago, it means that sometimes the
- 19 transparency is a little bit harder to achieve, seeing
- 20 much more time and effort to the tools that you use for
- 21 reporting, because you pool costs and then you allocate
- 22 costs, and that's a less transparent process than if you
- 23 have separate accounting groups and legal groups in each
- of the utilities, but that's a very expensive way of --
- 25 that's a very expensive solution.

- 1 Q If you look to page 9 again of your rebuttal
- 2 testimony, I think you answered this question earlier
- 3 under cross-examination with Mr. Mager, whether the
- 4 company evaluates whether services could be more cost
- 5 effectively procured, and I think your answer was that
- 6 there haven't been any analysis of that type?
- 7 A Not with respect to those cost services accounting,
- 8 we don't carve those up. We have the entire accounting
- 9 group that's providing those consistent services. What we
- don't do is say "can I pass out journal entry" and then
- 11 carve out of accounting one little slice and say "can I do
- that externally?"
- 13 Q On the same page you cite -- you reference the idea
- 14 that the company generally relies on service companies for
- 15 what you call core services?
- 16 A Um-hum.
- 17 Q One of those services you included are legal
- 18 services, correct?
- 19 A Correct.
- 20 Q And one of the reasons that you cite, I guess for all
- 21 the categories, is the familiarity and institutional
- 22 knowledge that sort of aids in your efficiency with those
- 23 types of services?
- 24 A That's correct. And the integration. You need one
- set of procedures, so, you know, we report as a single

- group, and so you have one set of reporting processes, one
- timetable, one system. It would be very hard to manage if
- 3 you had 23.
- 4 O Does National Grid have an in-house counsel
- 5 department?
- 6 A Yes, it does.
- 7 Q Would you say that it's fair -- would it be fair to
- 8 say that the members of that department are familiar with
- 9 and have institutional knowledge regarding National Grid
- 10 USA?
- 11 A Yes, it would.
- 12 Q On lines -- same page, page 9, lines 13 through 15,
- 13 you cite a need to avoid complexity as a reason for not
- 14 bidding out an exchange for a minimization of costs?
- 15 A Um-hum.
- 16 Q Do you feel that the company's current shared
- 17 services process is a complex one? I think earlier you
- 18 stated that.
- 19 A Shared services process.
- 20 Q Yes, the process of allocating costs to different --
- 21 A I think it is, yes. Yeah, I do think it is because
- we've got two processes when you only need one.
- 23 Q Page 11 again, still on your rebuttal, on line 21 you
- 24 use the term "feasible." I believe you state that -- hold
- on. I'm sorry. Let me try to get to the right page here.

- 1 I'll just read the full sentence. At number 3 you state,
- 2 "allocated using approved general allocation methodologies
- 3 as the former two approaches are not feasible."
- 4 A Um-hum.
- 5 Q The term "feasible" in that sentence, how do you
- 6 define that?
- 7 A Okay. Maybe we just talk about the hierarchy of how
- 8 we approach it. In all cases, when you receive a charge
- 9 into the service company, the most preferable method of
- 10 making that charge from the affiliate is on a direct
- 11 basis. So if the service is delivered wholly to a single
- 12 utility or a known subset of utilities, to actually do it
- on a direct basis, so that's item one. The second, if you
- 14 can't do that, if that's not possible, the second
- 15 preferable method is using a cost causal bill pool. So if
- 16 you're occupying a portion of a building, you know, rubber
- 17 gloves, number of people, to get that reflection of the
- 18 costs. And if that doesn't work, just a more generic
- 19 service, we would use what we call the general allocator.
- 20 And as I've explained in previous questions, on the Legacy
- 21 Grid side that general allocator is an O&M-based
- 22 allocator. On the Legacy KeySpan side it's a three-point
- formula, assets, revenue and O&M.
- Q Page 29, still on your rebuttal, specifically lines 6
- 25 through 9, you discuss -- wait a minute. I'm sorry. I

- think I have the wrong page here. Hold on just a second.
- 2 Page 24 -- I apologize -- on lines 6 through 9 you discuss
- 3 the company's efforts in support of the company's bad debt
- 4 mitigation effort. You state that additional service
- 5 company costs were incurred, including increase in inbound
- 6 calls.
- 7 A Um-hum.
- 8 O What would -- how would you define the relationship
- 9 between an increase in inbound calls and bad debt? In
- other words, is there a correlation that you're making
- 11 between customers whose perhaps bills have been written
- off, or describe the process that you're describing.
- 13 A Okay. As part of managing a debt ledger, you have
- open items. The more proactive with different types of
- 15 strategies that you use to collect overdue debts,
- typically, what happens is you generate more inbound calls
- into your call center as the people make customer account
- 18 inquiry, requests for grant information because often
- 19 they're low income inquiries. So you just generate a much
- 20 higher volume of activity through your call centers. And
- 21 so whenever we develop bad debt mitigation plans, we have
- to weigh up what benefit do you get in terms of a lower
- 23 write-off of bad debt expense versus the cost being
- 24 imposed on the organization in executing activity and a
- volume increase through call centers.

- 1 Q Further down, same page, lines 12 through 15, you
- 2 talk about -- you're referencing back to the difference
- 3 between the allocation to Niagara Mohawk and the other
- 4 National Grid USA affiliates, and you cite to storm costs
- and bad debt, SIR cost increases, et cetera. Didn't the
- 6 other affiliates in National Grid USA experience, for
- 7 instance, the ice storm of 2008? Aren't those costs
- 8 attributable to New Hampshire utility, I would think?
- 9 A A couple on a much, much, much smaller scale.
- 10 Q Would that be true across the board, Massachusetts,
- 11 Rhode Island, there's still more cost?
- 12 A There were costs, but not to the scale of Niagara
- Mohawk.
- 14 Q So you're talking about a relative comparison?
- 15 A Yeah. And downstate, obviously, there wasn't.
- 16 Q I'm sorry for the blank periods here. I'm just
- 17 trying to look through -- some of the questions have been
- 18 asked.
- 19 If you could refer to your direct testimony, page
- 20 13 -- again, you discussed this, I believe, with
- 21 Mr. Mager -- line 9, you talk about regulatory approvals
- that need to be attained by the company initially. What
- 23 entities do you need to get regulatory approval from? In
- other words, are we talking about all the various
- affiliates and their jurisdictions, the PSCs?

- 1 A That's right. The state commissions in each of the
- 2 four states that we operate.
- 3 O And --
- 4 A And FERC.
- 5 Q And FERC?
- 6 A I believe FERC as well, but I believe that's related
- 7 to a question we undertook to provide an answer earlier.
- 8 Q All right. If you could look to page 140?
- 9 A Of what?
- 10 Q I'm sorry, your direct. I'm sorry, not 140, 21. So
- 11 many numbers. I think I heard you say that the cost --
- lines 15 through 17, you discuss the Cost Allocation
- Review Committee and, additionally, oversight provided by
- 14 a Regulatory Cost Structure Committee?
- 15 A Um-hum.
- 16 Q I heard you comment on who or which individuals would
- 17 constitute the Allocation Review Committee, and you might
- 18 have also mentioned the Regulatory Cost Structure
- 19 Committee, but I didn't hear that.
- 20 A No, we didn't.
- 21 O Who are the individuals that would be on the
- 22 oversight committee of the oversight committee? I'm
- 23 sorry. The oversight committee of the Revenue Allocation
- 24 Review, the Cost Allocation Review Committee?
- 25 A The Cost Allocation, we discussed those individuals

- 1 this morning.
- 2 O Right, but then --
- 3 A Then the Regulatory Cost Structures Group is a
- 4 slightly different breed, so the Regulatory Cost
- 5 Structures Group, again -- I mean, I guess to sort of jump
- to the question that I think is being asked, are these
- 7 people service company employees? Yes, they are, but
- 8 they're there in their capacity as members of the lines of
- 9 business and regulation teams responsible for the
- 10 activities of the utilities. They have no interest in the
- 11 efficient operation of the service company.
- 12 Q Thank you, Mr. Sloey.
- 13 MR. WALTERS: That's all I have.
- 14 THE WITNESS: Thank you.
- 15 ALJ BOUTEILLER: Is there any other counsel
- in the room who has questions for the witness? If
- 17 not, at this time our standard convention is that
- 18 you're permitted to have a conversation with your
- 19 counsel in private to determine whether or not
- there's any further questions that your counsel wants
- 21 to ask of you after having heard all this
- 22 cross-examination. So we'll give you time to do
- that. And when you come back, your counsel will tell
- us whether or not there is any further redirect for
- you, and that could open up another line of inquiry

from the other counsel, so that's the downside if you have any more questions. So you may want to convince your counsel one way or the other.

THE WITNESS: I have no plans for this evening now.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

2.4

25

ALJ BOUTEILLER: While you're doing that, let's go off the record, and we'll come back on the record when we're ready to ask you whether or not there's any redirect. But given the hour here, I just want to raise a couple of things, and I'll let the parties tell me what their preference is. don't get to Mr. Niazi today, I understand we cannot get to Mr. Niazi tomorrow. So if we want to get to Mr. Niazi today, probably we need to take him next after this witness. But that's for the company and CPP to arrange or decide with input from other parties. I don't know if the plan was for the Infrastructure Panel to hold over, ride over, but you can consider all those dynamics. And you also have the knowledge, too, that I probably owe you a little bit of time from our first day of hearings, so if you want to make use of a little bit more time today, I will accommodate you, but I don't see me staying here past 7:00, okay? So use that input, confer among yourselves, and then when we come back on the record

1	you can tell me where we plan on going, and you'll
2	also know you can estimate to what extent we'll
3	have more time needed today with this witness. Wait
4	until we get the process rolling of them considering
5	redirect or not. I don't want to rush anything.
6	MS. NESSER: Can we have 20 minutes to
7	discuss redirect with Mr. Sloey? And I wonder if
8	staff can let us know how long cross-examination for
9	the IR.
10	MR. LECAKES: I'm thinking 45 minutes to an
11	hour at the most.
12	MS. NESSER: Okay.
13	MR. LECAKES: But they're refined. I went
14	over them with a fine tooth comb.
15	MS. NESSER: I'm sure they're very surgical,
16	Dakin.
17	MR. MALONEY: I probably have about 45
18	minutes to an hour for Mr. Niazi.
19	ALJ BOUTEILLER: You guys can all work this
20	out. The reporter knows we're going to take at least
21	20 minutes so she can rest her hands and get her rest
22	in. I'll come back to the Bench in about 20 minutes.
23	And if you're ready before me, knock on the door and
24	I'll come running out, okay? So we plan on going
25	back on the record at about 4:00. Thank you.

MS. NESSER: Thank you.
(Discussion off the record.)
ALJ BOUTEILLER: Counsel, is there redirect
for your witness?
MS. SWEET ZAVAGLIA: Yes, Your Honor, there
is.
ALJ BOUTEILLER: Okay. Please proceed.
MS. SWEET ZAVAGLIA: Thank you.
REDIRECT EXAMINATION
BY MS. SWEET ZAVAGLIA:
Q Mr. Sloey, would you please explain how the line of
business management model and the operating companies as
independent legal entities work together?
A Sure. I mean, the responsibility of the line of
business management teams, even though they are employees
of the service company, their obligation is to manage the
affairs of the utilities under their responsibilities to
meet the regulatory obligations. That's their primary
responsibility. So the fact that they're employed by a
service company simply allows them to share time. It's a
mechanical need. It doesn't change their underlying
obligation.
Q Staff counsel asked you questions about certain

ALEXY ASSOCIATES, INC. (518) 798-6109

employees who worked to extinguish the fire at Port

American Express gift cards that were provided to

24

25

- 1 Jefferson. How were those costs treated in this case?
- 2 A They were very small costs. They were either
- 3 treated -- they were either excluded because they were
- 4 prior to the historic test year, or they were excluded as
- 5 part of the adjustment we made in supplemental testimony.
- 6 O Now I'd like to direct your testimony to what has
- 7 been marked for identification as Exhibit Number 328.
- 8 This is the response to the Mass AG. Do you have that?
- 9 A I have it.
- 10 Q Now, staff counsel asked you a question about the
- 11 costs associated with the sale of Ravenswood. Would you
- 12 please explain how those costs were treated in this case?
- 13 A Okay. Firstly, the document -- I don't remember the
- 14 number, the document you just showed me -- they were an
- employee expense claim, and they have been excluded as
- part of the supplemental adjustment. We've already
- 17 over-compensated and removed all these costs from the NiMo
- 18 case. I think the other question that I was asked more
- 19 broadly is where were the costs and -- where were the
- 20 proceeds and costs from the Ravenswood sale allocated and
- 21 confirmed that none of those were allocated to Niagara
- Mohawk.
- 23 Q Now I'd like to direct your attention next to AFS-1R.
- 24 A I have it.
- 25 Q Now, staff counsel pointed to an increase in Niagara

- 1 Mohawk's A&G costs from 2007 to 2008, and looking at the
- 2 schedule it appears to be approximately \$60 million?
- 3 A Correct.
- 4 O Would you please explain the drivers of that
- 5 increase?
- 6 A I mean, there's a few drivers, so probably the
- 7 biggest single driver was an increase in the company's
- 8 pension and OPEB costs. So over that time there was
- 9 significant dislocation in the financial markets. Plan
- 10 values reduced. You know, accounting expenses increased.
- 11 That was about \$17 million of the increase.
- 12 Over that same period we had, also -- I guess it's
- 13 somewhat related to the deterioration of the economy -- we
- 14 had an increase in bad debt expense. That was 17
- 15 million -- sorry -- \$11 million.
- 16 We talked a little bit in the last discussion around
- 17 bad debt mitigation costs. Those increased -- to actually
- 18 manage to contain that bad debt expense was an additional
- 19 4 million. There's an increase in variable pay costs for
- Niagara Mohawk employees of 6 million. And then relative
- 21 year-on-year, 12 million increase in cost to achieve
- 22 synergies in transformation activities. And then there
- 23 was a small number of about 5 million which, as we
- discussed earlier in testimony, there's sort of 20 to 30
- 25 things sort of behind that that sort of make up the

- 1 increase.
- 2 Q Staff counsel asked you how many trips to the U.K.
- 3 for business you have made while you were based here in
- 4 the U.S. When traveling to the U.K., are you performing
- 5 work for the U.K. companies?
- 6 A No. It's just a continuation of my U.S.
- 7 responsibilities. I thought when I was asked the question
- 8 before I have no U.K. responsibilities. Someone replaced
- 9 me in the U.K. when I left.
- 10 Q Staff counsel asked you a series of questions about
- 11 delay in work order closings. Did the company perform any
- 12 additional analysis to determine what costs would be
- 13 required to close work orders within one month as staff
- 14 recommends?
- 15 A Okay. It was really a partial analysis, so we looked
- at it from my group or the accounting group or the
- 17 property group. We think it would take probably another
- 18 sort of four to five people to be able to close those work
- orders in a month, and then probably an additional cost of
- 20 half a million dollars. But the real cost would actually
- 21 be in the field to be able to sort of, you know, change
- 22 processes, get things through sort of as-built drawings,
- 23 estimations, final estimations. We weren't able to
- 24 quantify that. But given the depreciation expense that
- was being proposed, the adjustment was only \$1 million on

- an annual basis. We're probably going to be having more
- 2 costs. You know, it would probably cost more to achieve
- 3 the \$1 million and, I guess, in sort of annual
- 4 depreciation cost of 170 million, that's a pretty small
- 5 number.
- 6 Q Counsel for MI asked you about the consolidation of
- 7 the four National Grid service companies. Would you
- 8 please explain which service companies will be
- 9 consolidated?
- 10 A I did misspeak. One will not be consolidated. It
- 11 will be KeySpan Engineering Services who provides
- 12 engineering services largely to, I think, the Long Island
- 13 generation activities. For particular licensing reasons
- 14 we need to hold that company separate, but the other three
- service companies will be consolidated.
- 16 Q The Judge asked by what standard do you measure how
- 17 accurate the company must be. Would you please elaborate
- on the company's position?
- 19 A Okay. It's come up a number of times, actually,
- 20 today, and we do -- we do strive to make it perfect. We
- 21 do strive to make it perfect, but we must always be
- 22 prudent. And the point that I was trying to make in the
- 23 discussion with the Judge is at some point you run into
- 24 diminishing returns. It can be very expensive to achieve
- 25 perfection, and then we start increasing costs. We strive

- 1 to be always prudent, so we've got to sort of, you know,
- tread the fine line. But any issue we find, no matter how
- 3 small, as I said, we seek to understand the cause. If
- 4 it's a training problem, a procedural problem, we go and
- 5 remediate it. We don't sort of try to grade the error.
- 6 We're just careful and prudent about the amount of costs
- 7 we spend improving it, particularly if it's such a smaller
- 8 problem.
- 9 Q Thank you.
- MS. SWEET ZAVAGLIA: Your Honor, if I can
- 11 have a moment?
- 12 ALJ BOUTEILLER: Sure.
- 13 MS. SWEET ZAVAGLIA: Your Honor, the company
- 14 has no further redirect.
- 15 ALJ BOUTEILLER: Okay. Let me turn to the
- parties now and go through them one by one and find
- 17 out if there is any recross for this witness.
- 18 MS. CICERANI: No, Your Honor.
- 19 ALJ BOUTEILLER: None from staff. From
- 20 Multiple Intervenors?
- 21 MR. MAGER: Just two quick ones.
- 22 ALJ BOUTEILLER: Please proceed.
- 23 RECROSS-EXAMINATION
- 24 BY MR. MAGER:
- Q Referring to AFS-1R, the exhibit, you talked about on

- 1 redirect the large increase in expenses from 2007 and 2008
- 2 to Niagara Mohawk; do you recall that?
- 3 A I do.
- 4 O I think you mentioned some of the primary reasons
- 5 were pension and OPEB cost increases due to the financial
- 6 markets and bad debt expense due to the economy. Do you
- 7 recall that?
- 8 A Yes.
- 9 Q Do you know why, then, Niagara Mohawk's costs went up
- 10 so much whereas Central Hudson's barely moved and NYSEG
- and RG&E went down from 2007 to 2008? Weren't they
- 12 subject to the same factors?
- 13 A I don't.
- 14 Q Okay. And then you mentioned variable pay costs.
- 15 Now, this is not Niagara Mohawk employees' variable pay
- 16 costs; this is the service company employees' variable pay
- 17 costs?
- 18 A This is actually total A&G, so it includes both
- 19 Niagara Mohawk and the service company.
- 20 Q All right. Okay. And is there -- are there
- 21 different approaches in terms of what's included in the
- test year or rate year in terms of variable pay? Like the
- 23 Public Service Commission has certain policies with
- 24 respect to whether variable pay is recovered for utility
- employees from customers. Is this ringing a bell at all?

1	A I know that they would have policies, but that would
2	be part of Revenue Panel, and that should be taken up with
3	Revenue.
4	Q Okay.
5	MR. MAGER: Thank you.
6	ALJ BOUTEILLER: Mr. Walters?
7	MR. WALTERS: No, Your Honor.
8	ALJ BOUTEILLER: Anything further, then,
9	with this witness? If not, you are excused, and we
10	appreciate your testimony today, and thank you very
11	much for all your patience.
12	THE WITNESS: Thank you.
13	ALJ BOUTEILLER: Let's go off the record,
14	and let's impanel our next group of witnesses. Let's
15	make sure there are enough chairs for them and make
16	sure they are in their place before we go on the
17	record.
18	(Discussion off the record.)
19	ALJ BOUTEILLER: Let me turn to the company
20	and ask you to call your next witness, please, or
21	next panel?
22	MR. GAVILONDO: Thank you, Your Honor.
23	Carlos Gavilondo on behalf of Niagara Mohawk Power
24	Corporation. And presenting for the Infrastructure &
25	Operations Panel today on behalf of the company are

1	Ms. Ellen Smith, Mr. Keith McAfee and Mr. Bruce
2	Walker. And if I may proceed, Your Honor, at counsel
3	table with me is Ms. Catherine Nesser. And if I may
4	proceed?
5	ALJ BOUTEILLER: If you've called your
6	witnesses have you called your witnesses?
7	MR. GAVILONDO: I'd like to call them to the
8	witness table.
9	ALJ BOUTEILLER: Okay. They've been called,
10	and now I can ask you to rise, if you can raise your
11	right hands, each of you.
12	(The Panel, as previously identified, was
13	sworn and testified as follows.)
14	ALJ BOUTEILLER: Thank you. Please be
15	seated. Please identify yourselves for the record by
16	stating your name and your business address.
17	MS. SMITH: Ellen Smith, 40 Sylvan Lane,
18	Waltham, Massachusetts.
19	MR. McAFEE: Keith McAfee, 1125 Broadway,
20	Albany, New York.
21	MR. WALKER: Bruce Walker, Waltham,
22	Massachusetts.
23	ALJ BOUTEILLER: We now will return to your
24	counsel who will assist us in getting your testimony
25	and your exhibits into the record.

- 1 MR. GAVILONDO: Thank you, Your Honor.
- 2 DIRECT EXAMINATION
- 3 BY MR. GAVILONDO:
- 4 O Ms. Smith, could you please for the record indicate
- 5 your title and your employer?
- 6 A (Smith) Yes. My title is Chief Operating Officer,
- 7 U.S. Electric Operations, National Grid Service Company.
- 8 I'm also an EVP of Niagara Mohawk Power Corporation.
- 9 Q Mr. McAfee, if you could, please, for the record
- indicate your title and your employer.
- 11 A (McAfee) I am vice president of operations for New
- 12 York Eastern Division, and I am a Niagara Mohawk employee.
- 13 O Thank you. Mr. Walker?
- 14 A (Walker) I'm the vice president for asset policy and
- 15 strategy, and I'm a U.S. service company employee.
- 16 Q Are the three of you here today appearing on behalf
- of the company as what's been identified as the
- 18 Infrastructure & Operations Panel?
- 19 A (Smith) Yes, we are.
- 20 Q Did the Infrastructure & Operations Panel prepare
- 21 pre-filed testimony for this proceeding?
- 22 A (Smith) Yes, we did.
- 23 Q And I direct your attention to a document and I --
- 24 MR. GAVILONDO: Your Honor, if I may
- approach?

- 1 ALJ BOUTEILLER: Approach.
- 2 Q I call your attention to a document that consists of
- a cover page, a table of contents and 266 pages of
- 4 questions and answers and ask you if you could please
- 5 identify that for the record?
- 6 A (Smith) This document is the pre-filed direct
- 7 testimony of the Infrastructure & Operations Panel dated
- 8 January 29, 2010.
- 9 Q And was this testimony prepared by you or under your
- 10 direction?
- 11 A (Smith) Yes, it was.
- 12 Q Do you have any changes or corrections to the
- 13 testimony that you just identified?
- 14 A (Smith) Changes or corrections to our direct
- 15 testimony are addressed in our subsequent submitted
- 16 corrections and updates testimony and the rebuttal
- 17 testimony.
- 18 O If I were to ask you here today the same questions
- 19 that appear in that testimony, would your answers be the
- same as they appear in your pre-filed direct testimony?
- 21 A (Smith) Yes.
- 22 Q Do you adopt this as your sworn testimony in this
- 23 proceeding?
- 24 A (Smith) Yes.
- MR. GAVILONDO: I ask that the testimony be

1	entered into the record.
2	ALJ BOUTEILLER: Absent objection of the
3	parties present in the room at this time, if there is
4	no objection I will instruct the reporter to copy
5	into the record as if given orally today the direct
6	testimony that was pre-filed by this panel.
7	MR. GAVILONDO: Thank you.
8	(The referenced testimony is inserted into
9	the record as follows.)
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

Before the Public Service Commission

NIAGARA MOHAWK POWER CORPORATION d/b/a NATIONAL GRID

Direct Testimony

<u>of</u>

The Infrastructure and Operations Panel

Dated: January 29, 2010

Table of Contents

I.	Introd	luction and Qualifications	1
II.	Purpo	ose of Testimony	6
III.	The C	Company's Approach to Managing the Electric System	25
IV.	Descr	ription of Niagara Mohawk's Infrastructure Investment Plan	37
	A.	Statutory/Regulatory Requirements	51
	B.	Damage/Failure	61
	C.	System Capacity and Performance	67
	D.	Asset Condition	91
	E.	Non-Infrastructure	130
	F.	Annual Budget Process	135
	G.	Delivering the Investment Plan	147
	H.	In-Service Dates Reflected in Revenue Requirements	155
	I.	Additional Projects	157
	J.	Comparison to Prior Infrastructure Investment Plans	169
	K.	System Planning	172
	L.	Capital Investment Reconciliation Mechanism	175
V.	Facili	ties, Properties and other Capital Investments and Lease Costs	177
VI.	Infor	mation System Investments	198
VII.	Opera	ations and Maintenance Expenses	205
	A.	Enhanced Inspection and Maintenance	208
	B.	Transmission Tower Painting and Comprehensive Aerial	
		Inspection Programs	216
	C.	Vegetation Management	220
	D.	Increased O&M Expense Related to Infrastructure Investment.	226
	E.	Storm Response Costs	232
	F.	Site Investigation and Remediation	237
	G.	Service Quality	243
VIII.	Resea	arch, Development and Demonstration Programs	251
IX.		y and Environmental Performance	
X.		rting Requirements	

1	I.	Introduction and Qualifications
2	Q.	Please introduce the members of the Infrastructure and Operations
3		Panel.
4	A.	The Panel consists of Ellen Smith, Bruce Walker and Keith McAfee.
5		
6	Q.	Ms. Smith, please state your name and business address.
7	A.	My name is Ellen Smith. My business address is 40 Sylvan Road,
8		Waltham, MA 02451.
9		
10	Q.	By whom are you employed and in what capacity?
11	A.	I am employed by National Grid USA Service Company, and serve as
12		Executive Vice President and Chief Operating Officer ("COO") for
13		Niagara Mohawk Power Corporation d/b/a National Grid (the
14		"Company"), as well for Massachusetts Electric Company and Nantucket
15		Electric Company d/b/a National Grid, in Massachusetts, Granite State
16		Electric Company d/b/a National Grid, in New Hampshire, The
17		Narragansett Electric Company d/b/a National Grid, Rhode Island, and
18		New England Power Company, which owns and operates transmission

¹ Throughout this testimony, the panel will refer to National Grid plc as "National Grid," National Grid USA Service Company as "Service Company," and Niagara Mohawk Power Corporation d/b/a National Grid as "Niagara Mohawk" or "the Company." Service Company provides services to all of National Grid's U.S. affiliates, including Niagara Mohawk.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

assets in Massachusetts, New Hampshire, Rhode Island, and Vermont. I am also responsible for operating the transmission, distribution and generation system on Long Island, New York as part of a service agreement with the Long Island Power Authority. As Executive Vice President and COO of National Grid plc's U.S. Electric Distribution, Generation and Transmission organization, I oversee approximately 6,000 employees and \$11.7 billion of infrastructure assets serving over 4.6 million customers in the Company's U.S. service areas. In that capacity, I am responsible for all aspects of the Company's electric delivery system serving customers in Upstate New York, including the asset management, engineering, design, construction, operations and maintenance of the Company's electric distribution and transmission facilities. Q. Please describe your educational background and business experience. A. I am a graduate Onteora Central High School in Boiceville, New York, and attended Union College in Schenectady, New York, where I earned a Bachelor of Science degree in Mechanical Engineering and a Master of Science degree in Power Systems Engineering. I am a licensed Professional Engineer in New York State. Prior to joining National Grid, I worked for the Hess Corporation for 5 years as the President of Hess

1 Microgen, which was in the business of building and servicing co-2 generation and small distributed generation facilities, and most recently, as 3 the Vice President of Refinery Optimization, significantly improving the 4 power and utility operations at the Hess Joint Venture Oil Refinery 5 (HOVENSA, LLC) on St. Croix. Prior to Hess Corporation, I was 6 President of Pratt & Whitney Power Systems for 5 years. I also spent over 7 18 years at GE Energy in various commercial and technical roles serving 8 utility and industrial customers, and prior to that was with New England 9 Power Service Company for 1 year as an associate engineer. 10 11 Q. Mr. Walker, please state your name and business address. 12 A. My name is Bruce Walker. My business address is 40 Sylvan Road, 13 Waltham, MA 02451. 14 15 Q. By whom are you employed and in what capacity? 16 A. I am employed by National Grid as the Vice-President of Asset Strategy 17 and Policy. In this capacity, I am responsible for analyzing reliability 18 information throughout National Grid, establishing appropriate data 19 governance to ensure the integrity and usefulness of the reliability data, 20 developing appropriate asset strategies and policies consistent with the 21 information obtained from analyzing the system and sustaining a viable

1		network, and initiating research, development and demonstration projects
2		for the distribution and sub-transmission systems throughout National
3		Grid's service territory in the United States.
4		
5	Q.	Please describe your educational background and business
6		experience.
7	A.	I am a distinguished graduate of the United States Air Force Academy
8		Preparatory School and thereafter received a Bachelor of Electric
9		Engineering degree from Manhattan College and a Juris Doctor in Law
10		from Pace University where I was the technical editor on the
11		Environmental Law Review and received an Environmental Law
12		Certificate. I also completed the 18 month Power Technologies Inc. (now
13		Siemens Inc.) Distribution System Engineering course. Prior to beginning
14		with National Grid in 2008, I worked in the utility industry for nearly 18
15		years for Consolidated Edison of New York, Inc. and Orange and
16		Rockland Utilities in various capacities, including; various positions in
17		Electric Operations, Mergers and Acquisitions, Regulatory Services and
18		Emergency Management. I was appointed by the U.S. Secretary of
19		Energy to the Electricity Advisory Committee in 2008 representing
20		investor owned utilities and I was recently elected to the Board of
21		Directors for GridWise Alliance.

1	Q.	Mr. McAfee, please state your name and business address.
2	A.	My name is Keith McAfee. My business address is 1125 Broadway,
3		Albany, NY 12204.
4		
5	Q.	By whom are you employed and in what capacity?
6	A.	I am employed by Niagara Mohawk Power Corporation d/b/a National
7		Grid. I am Vice President of Operations for the Eastern Division of New
8		York. In that capacity I am responsible for the supervision of
9		professionals and field forces who operate, maintain and construct the
10		Company's electric infrastructure in that area.
11		
12	Q.	Please describe your educational background and business
13		experience.
14	A.	I graduated from Clarkson University in 1985 with a Bachelor of Science
15		in Electrical Engineering. I received a Masters of Business
16		Administration from New Hampshire College in Manchester, New
17		Hampshire in 1991. I am a licensed Professional Engineer in New York
18		State. I also completed the 18-month Power Technologies Inc. (now
19		Siemens Inc.) Distribution System Engineering course.
20		

1 I joined National Grid in 1992 as an Account Manager in Buffalo, NY. In 2 1994, I was promoted to Technical Services Manager in Albany, NY. In 3 1999, I was promoted to Regional Manger for the Northeast Region in 4 Glens Falls, NY. In 2002, I was promoted to Director of Customer 5 Operations for the Eastern Division of New York and in 2007 I was 6 promoted to my present position Vice President of Operations, Eastern 7 Division of New York. 8 9 Prior to National Grid, I was employed by Central Hudson Gas and 10 Electric from 1985 through 1987 as an Associate Engineer in Newburgh, 11 NY. Between 1987 and 1991, I held various operations management and 12 engineering positions for Public Service Company of New Hampshire in 13 Manchester and Nashua NH. 14 15 II. **Purpose of Testimony** 16 Q. What is the purpose of the panel's testimony? 17 A. The purpose of our testimony is to describe the Company's electric 18 infrastructure investment and operations plan necessary to manage its 19 electric system for the period covered by this rate case. The testimony 20 includes a comprehensive overview and detailed description of the 21 infrastructure investment plan for the rate period and the incremental costs

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

included as part of the operations and maintenance cost of service for the same period. The testimony also describes the methodology by which the Company manages the entire system and thereby develops and prioritizes its annual work plan and budget. Furthermore, we describe how the Company executes the annual work plan and key initiatives it is engaged in to manage its responsibilities. Niagara Mohawk's service territory encompasses approximately 25,000 square miles in more than 450 cities and towns, and serves approximately 1.6 million electric customers. The Company's physical assets include more than 6,002 miles of transmission lines (4,815 miles of 115 kV lines, 504 miles of 230 kV lines, and 683 miles of 345 kV lines as of December 2008), and 313 transmission substations. National Grid has more than 4,500 miles of sub-transmission lines (3,400 overhead, 1,100 underground) on 64,000 towers/poles. These transmission and subtransmission facilities serve 441 distribution substations supplying a distribution system consisting of more than 800 power transformers, 4,000 breakers, 42,800 circuit miles (35,900 overhead, 6,900 underground) of primary on over 1,200,000 poles and 442,000 line transformers.

1	Q.	Please describe the Company's overall objective with the
2		infrastructure and operations plan presented here.
3	A.	Primarily, the plan is developed to meet our regulatory obligations which
4		include providing safe, reliable, efficient, and environmentally sound
5		electric service for customers at reasonable costs. The plan includes
6		capital and operations and maintenance ("O&M") spending needed to
7		meet state and federal regulatory requirements applicable to the electric
8		system, address load growth/migration, maintain reliable service, sustain
9		asset viability through targeted investments driven primarily by condition
10		assessment, and fund those investments necessary to accommodate new
11		public policy initiatives and technological developments, including the
12		integration of renewables that affect the electric system.
13		
14	Q.	What format does the panel use to present the Company's
15		infrastructure investment plan?
16	A.	Our testimony presents the infrastructure investment plan in relation to the
17		Company's fiscal year budgets. The Company's fiscal year is defined as
18		the 12 month period from April 1 of a year, through March 31 of the
19		following year, with the fiscal year being the end year. Thus, fiscal year
20		2010 ("FY10") would be the period April 1, 2009 – March 31, 2010.
21		Throughout our testimony, we refer to budgets for the period FY11 – FY

1 14 (April 1, 2010 – March 31, 2014). These budget periods span the 2 period covered by this rate case filing (January 1, 2011 – December 31, 3 2013). 4 5 The Company manages its infrastructure investment plan and other 6 business operations on a fiscal year basis, and has presented prior 7 investment plan information to the Commission and Department of Public 8 Service Staff on a fiscal year basis for the past several years. Presenting 9 the infrastructure investment information in this case on a consistent fiscal 10 year basis facilitates comparison of the Company's current plan with prior 11 submissions and investment requirements established by the Commission 12 in other cases. 13 14 Although the Company's investment plan is presented on a fiscal year 15 basis, the revenue requirement in this case is developed on a calendar year 16 basis, as presented in the testimony of the Revenue Requirements Panel. 17 The effect of the Company's capital investments on revenue requirements 18 is affected by the estimated in-service dates for such investments. Our 19 testimony describes briefly how in-service dates were determined for the 20 infrastructure investments presented in the plan, and a more detailed

1		discussion is also presented in the testimony of the Revenue Requirements
2		Panel.
3		
4	Q.	How much is the Company planning to invest through its
5		infrastructure investment plan during the FY2011-FY2014 period?
6	A.	Niagara Mohawk plans to invest \$424 million to improve its electric
7		delivery infrastructure in fiscal year 2011 ("FY11"), \$536 million in
8		FY12, \$613 million in FY13 and \$635 million in FY14. In FY 2010, it
9		estimates it will spend \$378 million. Exhibit (IOP-1) depicts forecast
10		and planned capital investment for the period FY10-FY14, on the basis of
11		investment category as well as network segment. This exhibit also
12		includes electric infrastructure program and project detail information
13		which is described and referenced later in our testimony. The investment
14		categories used by the Company in development of its infrastructure
15		investment plan are also described in detail, below.
16		
17	Q.	Do the investment levels you mention include all of the capital
18		investment reflected in the Company's revenue requirements in this
19		case?
20	A.	No. The annual infrastructure investment amounts mentioned do not
21		reflect costs associated with the payment of \$35 million associated with

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

the Tri-Lakes project, or \$57 million associated with the Luther Forest Technology Campus, each of which is described in detail in our testimony. In addition, the Company plans to make facilities and properties related capital investments during the rate plan period, as well as investments in information systems and technology, fleet, inventory management and investment recovery functions. These investments are needed to enable the Company to continue to provide safe and reliable service to customers, and are key to the Company's infrastructure and operating plans going forward. The levels of planned capital investments in properties and facilities are set forth in Exhibit (RRP-6), Schedule 1, Sheet 4, of the Revenue Requirements Panel's testimony, and are approximately \$36.4 million in FY11, \$32.4 million in FY12, and \$4.4 million in each of FY13 and FY14. Additionally, planned Information Systems capital investments equal \$5.1 million in FY11, \$4.2 million in FY12, and \$4.1 million in FY13. Finally, our testimony supports capital investment of approximately \$0.6 million annually related to fleet services, inventory management and investment recovery. Q. Does the Company's filing in this case reflect the amount of capital investment anticipated in the period from the end of the historic test

vear until the start of FY 2011?

A. Yes. The historic test year ended September 2009, and the investment plan period described in this filing commences April 1, 2010. For the period October 1, 2009 – March 31, 2010, the Company anticipates capital spending of \$229 million on electric infrastructure and general plant, \$4.5 million on Information Systems, and \$11.3 million on facilities. These amounts are reflected in Revenue Requirements Panel Exhibit __ (RRP-6), Schedule 1, Sheet 4, and the supporting workpapers.

A.

Q. How does the Company's infrastructure plan presented in this case compare to previous plans the Company has developed?

Our testimony describes how the infrastructure plan was developed and how it is structured. In those regards, the plan presented here is similar to prior plans. However, the plan presented here is a substantial reduction from previously developed plans which the Commission and its Staff have seen. The current plan reflects the Company's attempt to minimize the level of investment needed during the rate plan period, consistent with its obligation to continue to provide safe and reliable service, in order to mitigate the rate impact on customers. The Commission and its Staff have sent clear messages on the need for the State's utilities to take steps to practice austerity and to manage rate impacts to address the needs of

customers during the current economic downturn, and the Company's current infrastructure plan is a response to those messages.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

1

2

The plan that we are filing does not represent what we believe to be an optimal level of infrastructure investment. In January 2009, the Company filed its five-year Capital Investment Plan reflecting planned electric infrastructure investment of \$3.57 billion for the period FY10-FY14. Throughout 2009, the Company continued to evaluate and refine its investment plan as it developed or became aware of new information and circumstances. In December 2009, the Company met with Staff and presented an infrastructure investment plan that reflected a substantial reduction from the investment levels included in the Company's January 2009 Capital Investment Plan filing in Case 06-M-0878. The reductions reflected our effort to reduce investment costs to a minimum level consistent with maintaining near-term reliability and sustaining the system over the rate plan period. We took this action mindful of reducing rate impacts to customers. The December plan presented to Staff continues to represent what we believe to be a preferred level of capital spending even in these difficult economic times. Nonetheless, in response to Staff's feedback and the Commission's December austerity order, we are proposing in this case a plan that reduces our proposed level of capital

1		investment further, resulting in a proposed level of investment of \$2.3
2		billion (including the Luther Forest and Tri-Lakes projects) for the FY11-
3		FY14 period. Exhibit (IOP-2) provides a comparison, by year, of the
4		infrastructure investment plan reflected in this rate case and the
5		Company's January 2009 Capital Investment Plan filing.
6		
7	Q.	Could you provide examples of changes reflected in the plan
8		presented here compared to what the Company presented to Staff in
9		December?
10	A.	The Company carefully evaluated its investment plan to identify projects
11		that could be deferred or re-phased without substantially reducing near-
12		term reliability or risking non-compliance with mandatory requirements.
13		Over the current Company's 5-year capital budget cycle (FY11-FY15), we
14		identified deferrals of over \$350 million of work from the December 2009
15		plan presented to Staff. Some of these deferred projects include:
16		Ticonderoga Lines rebuild (moved out to FY14+); Priority 3 & 4 Oil
17		Circuit Breakers (reduced and moved out to FY14+); Gardenville-Homer
18		Hill 151/152 phase 2 (moved out to FY14+); Rotterdam Station rebuild
19		(moved out to FY14+); and strategy to reinforce the transmission system
20		in the Frontier and Southwest regions (N-1), (N-1-1) (re-phased).

Although our proposed plan carries with it increased reliability risks, all else being equal it should enable us to meet the reliability targets that we are proposing for the period of this rate case. It should be noted, however, this plan reflects a minimum level of spending necessary to maintain reliability in the near term. Ultimately, the investments removed from this plan will need to be addressed to sustain reliability in the future as the reduced capital spending in this plan is largely the result of deferring work.

A.

Q. What value will the Company's proposed capital investment plan provide to customers?

Our proposed capital investment plan reflects the minimum level of spending that is consistent with achieving our proposed reliability targets in the near-term and making small progress towards addressing some of the longer term reliability risks faced by our customers. The plan will permit us to meet statutory and regulatory requirements and to replace equipment that is damaged or that fails. It will also permit us to address a limited set of system capacity and performance issues and asset condition problems. An optimum level of investment would remediate more system capacity and performance issues and asset condition problems. The proposed plan thus strikes an uncomfortable but reasonable balance

1 between reliability and austerity. It holds costs to customers to the 2 minimum reasonable level consistent with near-term reliable service. 3 4 Q. What would be the consequences to customers of deferring by a year 5 some of the projects included in your proposed plan? 6 A. This question is best answered by discussing the categories of investments 7 that we would defer if the Commission were to approve a lower level of 8 investment than we are proposing and the consequences of deferring those 9 investments. 10 11 The Company's plan is developed on the basis of five primary investment 12 drivers, or categories, and is presented in that manner in this testimony. 13 These categories, which are described in detail later in our testimony, are: 14 (1) Statutory or Regulatory Requirements; (2) Damage/Failure; (3) System 15 Capacity and Performance; (4) Asset Condition and (5) Non-16 infrastructure. Investments in these categories range on a spectrum: work 17 in the Statutory or Regulatory Requirements and Damage/Failure 18 categories is considered mandatory, while work in the System Capacity 19 and Performance and Asset Condition categories is more discretionary. 20 Non-infrastructure work supports work in the other categories.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

As indicated in Exhibit __ (IOP-1) schedule 1, sheet 1 of 1, almost 45 percent (\$983 million) of the planned infrastructure spending will be mandatory work in the statutory/regulatory requirements and damage/failure categories. Examples of investments in this investment category include work on Niagara Mohawk's Clay and Porter substations to bring them into compliance with Northeast Power Coordinating Council ("NPCC") design, protection and operation standards, or capital work done to repair a portion of a distribution feeder damaged in a storm event or extend service to new customers. This work could not be deferred for a year without potentially violating mandatory reliability standards, degrading near-term service reliability to existing customers or delaying service to new customers. The system capacity and performance category accounts for approximately 23 percent (\$502 million) of the total spending, and includes such things as investments to ensure substations and feeders can reliably supply customer load within system design criteria. Examples of investments in this category include planned expansions and network upgrades to accommodate load growth associated with the new University of Buffalo Medical Complex, expansion of the Albany Medical Center

1 and St. Peter's Hospital, and the medical complex in the Syracuse 2 University area. 3 4 The asset condition portion of the plan represents nearly 32 percent (\$690 5 million) of total planned spending for the FY11 to FY14 period. Programs 6 in this category aim to mitigate future risks and consequences of potential 7 failures caused by deteriorated assets. An example of a program in this 8 category is the rebuilding of the Gardenville station, which is a 230/115kV 9 complex south of the Buffalo area. This part of the network includes a 10 substation that feeds regional load via eleven 115kV lines, and that has 11 serious asset health issues including, but not limited to, control cable, 12 breaker, disconnect and foundation problems. The station has had no 13 major upgrades since it was built in the 1930s. 14 15 Deferring capital investment on projects in the system capacity and 16 performance and asset condition categories would create greater reliability 17 risk. The Company has more discretion with respect to the timing of when 18 to proceed with investments on projects in these two categories than on 19 projects that are in the statutory/regulatory requirements or damage/failure 20 categories. If the Commission were to approve a lower level of capital

investment than the Company is proposing, the additional work that we

21

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

Q.

would defer would generally be those in these two categories. However, the proposed projects in the system capacity and performance and asset condition categories would still need to be done. Deferring them by a year or more would increase risk. There is not a direct correlation between levels of investment in a particular year and the corresponding reliability performance in that year. What we know, however, is that the system capacity and performance and asset condition projects included in our plan are only a subset of all the system capacity and performance and asset condition projects that have been identified by the Company. The ones included in the plan are included precisely because they are the ones that we have determined carry the greatest risk to reliability, safety or the environment. They are included in the plan because we have concluded that deferral is not an appropriate option even during this time of austerity. A detailed discussion of the spending categories, as well as the underlying investments that make up these categories is included as part of the detailed infrastructure investment section of this testimony. Please summarize the panel's testimony regarding the costs of operating the electric system.

1	Λ.	in addition to supporting the Company's infrastructure plan and other
2		capital investments, we also address major expenses associated with
3		operating the Company's electric delivery system, and in particular we
4		describe incremental operations and maintenance ("O&M") expenses the
5		Company expects to incur in connection with operating its electric system
6		during the rate plan period as compared to corresponding O&M expenses
7		in the historic test year period. Among the major O&M expense changes
8		we describe in our testimony are:
9		Increased costs from enhanced inspection and maintenance
10		requirements;
11		Tower painting and comprehensive aerial patrol, and footer
12		inspection costs;
13		• Costs associated with enhanced vegetation management;
14		• Increased O&M and labor expense relating to the level of
15		infrastructure investment;
16		• A proposal to implement a fully reconciling "storm fund" to
17		reflect more accurately the historic expenses incurred in
18		connection with extraordinary storm events; and
19		• Increased site investigation and remediation (environmental)
20		costs.

1		A detailed discussion of the major expenses is included as part of the
2		Operations and Maintenance Expenses section of this testimony.
3		
4	Q.	Does the panel propose any tracking mechanisms related to capital or
5		operating expenses presented in this plan?
6		Yes, the panel proposes a mechanism for tracking and reconciling certain
7		deviations from capital investment budgets, including costs related to
8		third-party activities outside the Company's control that affect the
9		Company's operation of the electric system (e.g., third-party transmission
10		related costs). Details on the tracking mechanism and its operation are
11		included in the testimony of the Revenue Requirements Panel.
12		
13	Q.	Does the panel address the recommendations presented in the recent
14		Comprehensive Management Audit Report in Case 08-E-0827?
15	A.	In accordance with the Order issued and effective on December 18, 2009
16		in Case 08-E-0827, the Company has developed an implementation plan
17		addressing the recommendations presented in the management audit
18		report. A copy of that plan is being filed in that case, and is also included
19		as an exhibit to the testimony of Mr. Peter Zschokke in this case. As Mr.
20		Zschokke's testimony describes, the Company has commenced
21		implementation of several of the recommendations in the management

audit report, including recommendations affecting the implementation of infrastructure investment plans and electric system operations. Although our testimony touches on some of the recommendations in the report and some of the things the Company is doing to address those recommendations, details of the Company's specific proposed implementation steps associated with individual audit recommendations are set forth in the implementation plan included with Mr. Zschokke's testimony.

A.

Q. Does the Company discuss measures it is taking in response to the Commission's December 22, 2009 Order Approving Ratepayer

Credits in Case 09-M-0435?

Yes. The Company continually seeks to improve efficiency in service, and our testimony describes some of the Company's cost-containment efforts needed to achieve its ambitious performance and productivity objectives. In addition, however, and in response to the Commission's directive, the infrastructure investment and operations plan in this case reflects further efforts by the Company to identify cost savings measures that would inure to the benefit of customers during the rate plan period, and we describe some of those efforts and considerations in our testimony.

	In some cases, the deferral of infrastructure investment will require
	interim mitigation operations and O&M spend.
Q.	Are you sponsoring any exhibits as part of your testimony?
A.	Yes. In connection with our testimony, we are sponsoring the following
	exhibits, which were prepared by one or more members of the panel or
	under their supervision and direction:
	Exhibit (IOP-1): Forecast and planned T&D infrastructure investment
	levels by category, FY10-FY14;
	Exhibit (IOP-2): Comparison of T&D Capital Expenditures FY10-to-
	FY14; NMPC Rate Case Filing vs. January 2009 CIP Filing;
	Exhibit (IOP-3): Electric Reliability Performance 2005-2009;
	Exhibit (IOP-4): Illustration of the project evolution process;
	Exhibit (IOP-5): Facilities and properties capital expenditures;
	Exhibit (IOP-6): Summary listing of information system projects;
	Exhibit (IOP-7): January 15, 2010 Mobile Stray Voltage Testing
	Project report;
	Exhibit (IOP-8): Inspection and maintenance incremental cost support;
	Exhibit (IOP-9): Incremental cost support for tower painting;
	comprehensive aerial inspections; and footer inspections;

1		Exhibit (IOP-10): Incremental cost support for vegetation management
2		activities;
3		Exhibit (IOP-11): Calculation of Storm Fund level;
4		Exhibit (IOP-12): Schedule of site remediation activities; and
5		Exhibit (IOP-13): Summaries of planned research, development and
6		demonstration projects.
7		The Panel also includes workpapers in the form of the Company's Annual
8		Transmission and Distribution Capital Investment Plan, filed in Case 06-
9		M-0878, on January 29, 2010, the Report on the Condition of Physical
10		Elements of Transmission and Distribution Systems, filed in Case 06-M-
11		0878 on October 1, 2009 and supporting strategies, all of which are
12		collected in Exhibit (IOP-14).
13		
14	Q.	How is the remainder of your testimony structured?
15	A.	The remainder of our testimony includes:
16		A summary of Niagara Mohawk's approach to managing the
17		electric system;
18		• A description of the Company's infrastructure investment plan,
19		including a description of major programs and projects driving the
20		investment plan;

1		 A description of the Company's facilities and properties plan over
2		the period covered by this case;
3		• A listing and description of the major information systems projects
4		to be implemented during the rate plan period that are needed to
5		implement Niagara Mohawk's infrastructure and operating plans;
6		• A description of the Company's O&M expenses, and particularly
7		significant changes or initiatives driving known and measurable
8		changes in costs in the period covered in this case as compared to
9		the historic period;
10		Descriptions of planned research, development and demonstration
11		initiatives associated with the electric system;
12		• A brief description of efforts the Company undertakes in the areas
13		of safety and environmental stewardship; and
14		• A request for modification of certain reporting requirements.
15		
16	III.	The Company's Approach to Managing the Electric System
17	Q.	Describe the Company's philosophy and objectives underlying the
18		development of its infrastructure investment and system operations
19		plans.
20	A.	As an energy delivery company, Niagara Mohawk's fundamental goal is
21		to provide safe, reliable, environmentally sound and efficient electric

service to customers at reasonable cost. In recent years, achieving this goal has become an increasing challenge for a variety of reasons. These include the deteriorated condition of many of our electric delivery system assets (consistent with their age profile), the obsolescence of various classes of assets, the need to accommodate changing and dynamic power flows, increasing power quality and reliability demands of our customers, volatility in the availability of and competition for commodities and equipment, and uncertainty in the economic, policy and technological climates influencing the electric utility industry. Looking forward, it is our sense that these challenges will only intensify, driven by public policy and legislative initiatives promoting new technologies, continued focus on energy efficiency, as well as a need to support societal efforts on climate change and environmental issues. It is within this challenging and dynamic framework that the Company develops and continually refines its infrastructure investment and operations plans.

16

17

18

19

20

21

A.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Q. Describe the Company's approach to managing the electric system.

The Company's approach to managing the electric system has evolved over time. Over the past several years, the Company has shifted its operating focus from a reactive, repair-oriented approach to one driven by a well-defined asset management framework that embraces a portfolio of

asset management techniques. In the past, the Company, like many other electric utilities, conducted much of its infrastructure maintenance and replacement activities based on the results of periodic engineering studies of asset performance or known operating deficiencies, rather than on the basis of data collected using a systematic process of inspection, data collection, and analysis.

The term "Asset Management" describes the systematic and coordinated activities and practices through which an organization optimally and sustainably manages its assets and asset systems, and their associated performance, risks and expenditures over their life cycles for the purpose of achieving its organizational strategic plan. Specific to the Company, this can be summarized as; the process used to manage the Transmission and Distribution system infrastructure and the electric system to ensure safe, reliable, efficient and cost effective service over the life cycle of the assets and asset systems. This includes work aimed at alleviating loading constraints and increasing capacity in specific areas to improve the reliability of service as well as asset condition projects aimed at rebuilding or upgrading system elements such as overhead lines, underground cables, substation equipment and network control systems. The Company adopted the asset management approach because it is best suited to manage a large

1 number of physical assets and provides the best long-term value for 2 customers. 3 4 The systematic approach associated with the asset management process 5 targets specific assets for intervention based upon their condition. 6 Candidates for intervention are selected based upon their current 7 performance or condition and their forecast performance and condition 8 based on known degradation mechanisms. Although age alone is not a 9 reliable indicator of condition, it is an important factor when considering 10 the volumes of assets that need to be managed to ensure long-term 11 sustainability with acceptable reliability performance. Age is also an 12 important attribute to assess assets that are beyond design life, at the end 13 of useful life and/or obsolete, making maintenance cost-prohibitive or 14 impossible. 15 16 The Company's Asset Management process includes developing 17 "strategies." Strategies are documented standards or policies (Company or 18 industry) against which assets and/or asset systems are assessed with 19 respect to condition, performance, capacity and other factors. Strategies 20 define "what" will be done, by setting forth systematic, coordinated 21 activities and practices designed to result in the optimal management of

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

assets and asset systems over their respective life cycle, to address either deficiencies in asset condition and performance, or non-compliance with internal and / or mandatory external planning standards. Strategies incorporate information obtained from system studies, industry knowledge, trend analyses and inspection, maintenance and replacement programs in order to achieve specific operating objectives for the respective asset class or asset system. Strategies result in implementation plans, in the form of programs or projects. These programs and projects describe 'how' the Company executes its Strategies and thus plans to manage and optimize asset performance and lifecycles. For example, the Overhead Line Refurbishment Strategy describes the efforts the Company will utilize to manage its overhead transmission line assets over the next 25 years based on an understanding of current conditions and forecast deterioration. Based on this strategy, a portfolio of approximately 30 projects has been defined to address what needs to be done for individual overhead lines to achieve the overall objective of the overhead line refurbishment strategy. The Company's systematic approach to asset management uses a consistent scoring system that prioritizes all assets for replacement or

upgrade based upon the likelihood and consequences of failure, and

criticality to the system. Using this approach, the highest priority assets

(i.e. those with the highest risk score and potential adverse impact to
system safety, reliability, and the environment) are replaced first.

Q. What prompted the Company to move to a proactive, asset-

management approach?

A. Infrastructure businesses throughout the world that manage large volumes of similar assets use asset management principles to manage asset life cycles in order to reduce the potential for unplanned failures, or having large populations of assets fail contemporaneously, requiring significant replacements over short periods of time. Such situations are highly undesirable since the lead time for major equipment (e.g., high voltage circuit breakers and power transformers) and work delivery (e.g., transmission line work) can easily be several years. Over the past ten years, the Company has seen increasing evidence of deteriorating conditions and performance on its system. Such deterioration is not out of the ordinary²; indeed, some deterioration is to be expected with greater service factor and age of an asset. Because of the long service lives of

.

² As noted in the Energy Infrastructure Issue Brief developed in connection with the State Energy Plan process, portions of the State's transmission and distribution system are in need of attention to ensure reliability in the future, as evidence by investor-owned utilities' plans to spend \$13 billion over the five-year period between 2009 and 2013. See, http://www.nysenergyplan.com/final/Energy_Infrastructure_IB.pdf, p. 19.

1		many of the Company's assets, and the fact that many assets were nearing
2		the end of their service lives, the Company needed to adopt a systematic
3		and proactive asset management approach or face the potential for a future
4		"wall" of unplanned asset replacement due to failure.
5		
6	Q.	Can you provide an illustration of your statement regarding the
7		deteriorating conditions of assets on the Company's system, and how
8		a proactive asset management approach might serve to address the
9		situation?
10	A.	Replacing and renewing assets in a systematic manner is advantageous in
11		at least two significant scenarios: one associated with low cost, large
12		volume assets; and the other with high cost, lower volume assets.
13		Regarding the low cost/large volume items, failure to replace these assets
14		in a timely manner will result in a huge number of assets whose asset class
15		becomes so aged that the volume of assets to be replaced at some point in
16		the future will be insurmountable. Steel towers and power transformers
17		will be discussed as examples of both these scenarios.
18		
19		Niagara Mohawk's steel tower asset base is in excess of 20,000 towers.
20		The average age of steel towers on the Company's system is 68 years,
21		with more than 67 percent of 115 kV structures being over 70 years old.

Again, although the age of a system component is not necessarily indicative of its condition or usefulness in serving customers, it is significant that a large segment of the component population is reaching the end of its useful life, anticipated to be in the range of 70-90 years. As the proportion of assets reaching the end of their anticipated service lives increases, proactive steps must be taken to reduce the compounding risk of unacceptable service consequences that could result from a high concentration of age-related equipment failure. The Company's steel tower strategy involves inspecting all towers on a 5-year cycle and rating each based on defined criteria, maintaining the towers through a painting and footer inspection/repair process, and replacing any towers rated in poor condition.

For high cost, lower volume assets, a systematic asset management approach will provide significant benefits since the challenges to replace these assets when they fail are complex and high cost. One example is the Company's power transformers at substations. Power transformers provide service to many thousands of customers and are the single largest capital investment in substations (which are the largest, most expensive and most complex portion of the distribution system in their own right) comprising almost 40 percent of the total investment. Power transformers

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

deteriorate (degrade) with time and thermal operation because paper is a key component of insulation (which is a key component within the transformer) which suffers deterioration as a result of three key processes: oxidation, hydrolysis and thermal heating. The deterioration is cumulative and irreversible and thus cannot be addressed via maintenance. Nearly 50 percent of our approximately 807 substation transformers are greater than 50 years old. Thus, in twenty years, if the Company replaced 4 substation transformers per year in this age grouping (the average historical replace rate), it would still have 40 percent of transformers (or 323 units) greater than 70 years old and in total nearly 600 units (or almost 75 percent) would be greater than 50 years old. The Company's ability to efficiently and effectively replace the large number of complex assets would be compromised under such a trajectory, and system reliability and performance would be difficult to sustain. To address this situation, the Company has developed a transformer asset strategy to replace approximately 150 transformers over the next fifteen years (an average of ten transformers per year) to keep up with the aging population and to lessen the risk of unplanned failures. Waiting to replace on failure is also not an acceptable method of managing large power transformers due to safety and environmental reasons. While

1		the majority of power transformers fail internally, occasionally a unit may
2		fail catastrophically, resulting in release of a large quantity of oil into the
3		surrounding environment, or causing a fire that destroys much more than
4		the transformer itself, such as happened at the Company's New Scotland
5		station in 2004.
6		
7	Q.	Can you provide examples of what the Company has done to gain a
8		better understanding of the condition of its transmission and
9		distribution assets in order to implement the current proactive asset
10		management approach?
11	A.	Critical to any systematic and coordinated asset management process is a
12		comprehensive understanding of the condition and performance of the
13		physical assets over their life cycle. Good decision making requires
14		adequate information about the assets and their associated strengths and
15		weaknesses. In particular, it is important to understand the relationship
16		between short-term asset management activities (maintenance,
17		refurbishment, replacement, etc.) and their actual or potential effect upon
18		long-term costs, risks and performance.
19		
20		Historically, a substantial portion of infrastructure investment was driven
21		by a run-to-fail and fix-on-fail methodology. Because of observed

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

deteriorating reliability performance, and the need to provide customers with sustainable electric service, the Company implemented the proactive asset management approach based upon the principles of the Publicly Available Specification (PAS 55), "Specification for the optimized management of physical assets." PAS 55 was first published in 2004 in response to demand from industry for a standard for infrastructure asset management. PAS 55 specifically is intended to address the life cycle management of assets. Using the PAS 55 principles, the Company has implemented a process of collecting data and evaluating electric system assets through a number of inspection and monitoring programs, including: Dissolved Gas Analysis for all substation transformers and load tap changers; Aerial helicopter surveys of sub-transmission rights-of-way, Acoustic detection and partial discharge testing at metalclad substations; VLF (Very Low Frequency) testing of cables; Stabilized video surveys, enhanced infra-red surveys and aerial laser surveys of transmission lines; Substation condition assessments: and Asset health reviews.

The collection of condition and performance data, and the interpretation of the data to generate useful and meaningful information to guide asset management decisions, are ongoing activities to enable improved risk management. Risk management is an important foundation for proactive asset management. This approach results in defined programs and projects that reduce overall risk.

In addition to several tools and systems the Company has introduced over the past several years to improve its understanding of system condition and performance, the Company has also introduced annual asset health reviews for all its transmission and distribution substation and overhead line equipment. This annual asset health review forms the basis of the annual "Report on the Condition of Physical Elements of Transmission and Distribution Systems" filed with the PSC (and which is included with our workpapers). The asset health review provides a methodology for identifying past or existing nonconformities with respect to defined strategies. The review also captures any asset-related deterioration, failures or incidents. The review provides leading performance indicators to provide warning of potential non-compliance with performance requirements and lagging performance indicators to provide data about incidents and failures. The asset health review provides both qualitative

1		and quantitative measures and forms the basis of many of the Asset
2		Condition driven infrastructure investments.
3		
4	Q.	What has been the result of the proactive asset management approach
5		the Company adopted?
6	A.	Following a period of declining reliability performance in the early 2000s,
7		the Company has demonstrated steady reliability improvement from 2004
8		through 2008. Preliminary results for 2009 indicate that the Company
9		again achieved its reliability performance targets. Exhibit (IOP-3)
10		depicts the Company's reliability performance against established targets
11		for the calendar years 2005 through 2009. The Company's reliability
12		performance is in large part a result of its proactive asset management
13		approach, as well as a number of other initiatives aimed at making the
14		system more robust and resilient.
15		
16	IV.	Description of Niagara Mohawk's Infrastructure Investment Plan
17	Q.	Describe the Company's infrastructure investment plan.
18	A.	As described previously, the Company takes a comprehensive and
19		integrated approach to managing its infrastructure investment. That effort
20		results in, among other things, an infrastructure investment plan that
21		categorizes planned investments on the basis of the primary drivers for

1 those investments. The five primary investment drivers the Company has 2 established for its infrastructure investment plan are: (1) Statutory or 3 Regulatory Requirements; (2) Damage/Failure; (3) System Capacity and 4 Performance; (4) Asset Condition; and (5) Non-infrastructure. 5 6 Q. Please describe what is included in the Statutory or Regulatory 7 Requirements category of work. 8 A. Statutory or Regulatory requirements work includes capital expenditures 9 required to respond to, or comply with statutory or regulatory mandates. 10 These include those expenditures needed to ensure compliance with the 11 requirements of the North American Electric Reliability Corporation 12 ("NERC"), NPCC, New York State Reliability Council ("NYSRC"), the 13 Occupational Safety and Health Administration ("OSHA"), and the New 14 York Public Service Commission. It also includes expenditures that are 15 part of the Company's regulatory, governmental or contractual 16 obligations, such as responding to new customer service requests, 17 transformer and meter purchases and installations, outdoor lighting 18 requests and service, and facility relocations related to public works 19 projects. For the most part, the scope and timing of this work is generally 20 defined by others and is non-discretionary for the Company.

1	Q.	What capital expenditures are included in the Damage/Failure
2		category?
3	A.	Damage/Failure category projects are those capital expenditures required
4		to replace failed or damaged equipment and to restore the electric system
5		to its original configuration and capability following equipment damage or
6		failure. Damage may be caused by storms, vehicle accidents, vandalism
7		or unplanned/other deterioration, among other causes. The Company
8		views the Damage/Failure category as a mandatory category of work that
9		is non-discretionary in terms of scope and timing.
10		
11	Q.	Please describe the type of projects included in the System Capacity
12		and Performance category.
13	A.	System Capacity and Performance projects are required to ensure that the
14		electric network has sufficient capacity to meet the growing and/or
15		shifting demands of our customers. Projects in this category are intended
16		to reduce degradation of equipment service lives due to thermal stress and
17		to provide appropriate degrees of system configuration flexibility to limit
18		adverse reliability impacts of large contingencies.
19		
20		In addition to accommodating load growth, the expenditures in this
21		category are used to install new equipment such as capacitor banks to

1		maintain the requisite power quality required by customers and reclosers
2		that limit the customer impact associated with a service event. It also
3		includes spending to improve the performance of the network such as the
4		reconfiguration of feeders and the installation of feeder ties.
5		
6	Q.	Please describe the type of projects that the Company would classify
7		as being driven by Asset Condition.
8	A.	Asset Condition expenditures are those investments required to reduce the
9		risk and consequences of unplanned failures of transmission and
10		distribution assets. As discussed above, the Company has adopted an
11		asset management approach that relies on a holistic, longer-view
12		assessment of assets and asset systems to inform capital-investment
13		decisions. The Company conducts an annual asset health assessment
14		which includes analysis of each major asset class and asset system. The
15		assessments focus on identification of specific susceptibilities (failure
16		modes) and the development of alternatives to avoid such failure modes.
17		
18	Q.	Please describe the type of projects that the Company would classify
19		as "non-infrastructure ."
20	A.	In addition to the direct spending on its electric network, the Company
21		also invests a portion of its investment budget in systems, tools, and

general plant that are required to operate the network. The "non-infrastructure" category of investment is for those capital expenditures that do not fit into one of the foregoing categories, but which are necessary to run the electric system. Examples of work in this category include spending for radio systems and test equipment, flood mitigation work at substations and capital repairs on substation buildings.

A.

- Q. Aside from the five investment drivers you have described, please discuss some of the Company's other considerations in the development of the infrastructure investment plan presented in this case.
 - All of the Company's recently developed investment plans reflect a disciplined and systematic approach to asset management in order to ensure the sustained safety, reliability and efficiency of the system. The plan presented in this case is similarly focused. However, in producing this current infrastructure investment plan, the Company was particularly mindful of the economic circumstances facing its customers. The Company thus challenged itself to include in the infrastructure investment plan only those programs and projects it determined to be essential or required during the period covered by the plan. Accordingly, the Company has identified opportunities to defer or reduce the scope of

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

certain programs, such as the redesign of portions of the sub-transmission system to a looped system, and the distribution substation transformer replacement program, in order to mitigate the impact of potential rate increases on customers. As noted above, and in Exhibit __ (IOP-2), we have reduced our proposed level of capital investment in FY10-FY14 by \$888 million from the level included in our January 2009 plan filed with the Commission, and substantially below our preferred level of spending presented to Staff in December 2009 after taking into account the difficult economic times. The near-term savings opportunities from such deferred investment, however, are not avoided costs. Work that is deferred from the work plan presented in this case will be required to be included in a future plan. Failure to adequately invest in the system will also present increased risk leading to reduced reliability, and the condition of certain assets will continue to deteriorate. The Company is aware that it has the responsibility to manage these risks. This plan enables the Company to manage near-term reliability, safety and environmental risks while

allowing limited progress in addressing the longer-term risks.

1	Q.	In addition to taking a hard look at the Company's plan, what other
2		factors contributed to reduction in the overall investment plan
3		compared to prior plan levels?
4	A.	The current infrastructure investment plan reflects updated economic
5		inflation assumptions. The updated inflation adjustment reflects the recent
6		downturn in global economies from the high inflation levels experienced a
7		couple of years ago, and has the effect of reducing the investment level
8		somewhat.
9		
10		However, aside from such external factors, the Company also aggressively
11		pursues continuous improvement and efficiency efforts which help it
12		contain costs and present this reduced level plan. Such factors include a
13		new Procurement Transformation Program, aimed at leveraging the
14		organization's large scale to improve materials sourcing and supplier
15		relationship management. The cornerstone of the procurement
16		transformation process is improved strategic sourcing to drive cost savings
17		by leveraging our scale, standardizing materials and processes, and
18		managing demand. The program also focuses on relationship management
19		for our strategic suppliers, aimed at improving quality, customer service,
20		cost and innovation, and on developing improved market intelligence to
21		support our strategic sourcing process. Underpinning the procurement

1 transformation program is the implementation of new technologies to 2 support the improved processes. 3 4 Another initiative the Company is undertaking to reduce costs is the 5 introduction of Distribution Alliance Contracts and Transmission Regional 6 Delivery Ventures ("RDV"). The RDV and the Distribution Alliance 7 contract models, which are described in detail later in our testimony, offer 8 the Company additional tools to enable it to reduce the costs of delivering 9 the infrastructure investment plan. 10 11 The Company is also transforming its electric operations to improve the 12 level of service to customers, while promoting increased safety, network 13 reliability and performance, and efficiency. As part of this effort, know as 14 Transformation, the Company is addressing, among other things, work 15 management, design, construction, asset management, network operation 16 and customer management to optimize the efficiency and effectiveness of 17 the organization. 18 19 Q. Could you please describe the Company's Transformation efforts in more detail? 20

1	A.	The central focus of Transformation is to promote a high performing
2		organization that delivers value to customers at a high level of operational
3		efficiency. The Transformation effort is currently focused in six core
4		areas:
5		• Asset Management: Aimed at improving long-term planning
6		efforts, which will enable the Company to enhance efficiencies in
7		capital allocation and resource planning for system assets.
8		• Customer Management: Developing a Customer Order Fulfillment
9		function to manage the customer relationship from initial inquiry
10		to delivery of the first bill, which will streamline interactions with
11		customers and increase customer satisfaction.
12		• Contracting Strategies: Establishing new performance-based
13		construction contracts that encourage effective management and
14		delivery of construction and maintenance services (e.g., the new
15		RDV initiative mentioned above).
16		• Work Delivery: Establishing streamlined processes to ensure
17		optimized work flow and resource utilization. Greater efficiency
18		will be achieved in readying crews and equipment for deployment
19		in the field and focus will be placed on crew productivity and
20		safety.

1	•	Construction Design: Creating design centers of excellence to
2		standardize the design process and improve efficiency.

 Network Operations: Consolidating and standardizing network control centers and adding advanced distribution automation technologies to increase efficiency and improve service reliability.

Q. Could you provide examples of the ways in which operational efficiencies and long-term cost containment will be achieved through

10 A. Specific examples of cost-containment efforts would include:

Transformation?

• Centers of Excellence: The Company's analysis shows that design personnel may spend up to 40 percent of their work day responding to customer queries for information. The Company is implementing a customer order fulfillment function to handle these customer inquiries, which will enable the design staff to focus most of their time on completing design activities. This change would not only reduce design costs (by increasing productivity of the current work force), but also improve the customer experience since the customer would have access to more resources specialized in customer interactions. The Company has created an Estimating Center of Excellence to focus on the process and

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

delivery of high quality, timely, and more accurate project and program estimates. Improving the quality of estimates translates into a more accurate overall capital plan budget. The Company is centralizing administrative support services for field operations. This change is removing administrative work from field (now referred to as performance supervisors) supervisors in order to increase the amount of time supervisors spend in the field. This greater level of productivity will ensure improved work flow, safety assurance and productivity. Centralizing the transactional work will ensure adherence to standard processes resulting in improved accuracy, timeliness and completeness of information related to work performed, assets placed in service, and other company records. Integrated Strategic Planning: The Company is implementing new integrated planning processes to support both the long-term (up to 15 years) and short-term (0-18 months) project horizons. This change will have the effect of allowing for the more efficient planning and allocation of resources, improved procurement strategies and better contracting decisions. For example, with a

longer term planning horizon, the Company will be in a position to

secure longer term pricing arrangements, which are typically more cost-effective than short-term strategies.

Improved Work Processes: The Company's evaluation of existing processes shows that field staff productivity can be improved through the completion of ancillary tasks such as stocking and preparing vehicles by employees other than those performing work in the field. The Company has identified new roles and responsibilities to address these opportunities, including: creation of a work readiness role that will prepare trucks and work assignments for daily crews; enabling performance supervisors to be in the field with the crews providing for visibility and coaching; and scheduling and preparing for a four week look ahead work plan.

A.

Q. Will the Company incur costs in order to accomplish some of the changes that are necessary to achieve long-term cost reductions and productivity gains?

Yes it will. Although efficiency gains may be achieved through process changes and organizational tactics that do not involve significant costs, more significant efficiency gains require up-front investment in systems and equipment to automate work processes, improve worker productivity

in the field, and achieve the Company's targeted level of productivity
improvements.

A.

Q. What are some of the key investments the Company is making as part of Transformation?

Costs associated with delivering the savings expected from

Transformation include costs of new technology and systems, labor
associated with implementing the new systems and processes, consultant
and contracting costs, revised collective bargaining agreements, facility
consolidation costs, and employee costs (for relocation, retention and
severance). In return for these investments, the Company expects to
achieve costs savings from the automation, standardization and integration
of business processes and related information systems. Automation will
require significant investment to purchase or modify the respective
information-system technologies and resulting cost reductions benefit
customers. In addition, the Company plans to continue to explore
opportunities to leverage the scale of National Grid when making
technology, organizational and process investments in similar shared
services (e.g., procurement, fleet and IS).

1		All these factors have been taken into account and are reflected the
2		infrastructure investment plan submitted in this filing.
3		
4	Q.	Has the Company prepared an exhibit listing the electric system
5		infrastructure investments it has planned for the period covered in
6		this case?
7	A.	Yes. Exhibit (IOP-1), Schedule 8 is a 26-page table listing all
8		programs and projects included in the investment plan reflected in this rate
9		case, segregated by investment category (i.e., (1) statutory or regulatory
10		requirements; (2) damage/failure; (3) system capacity and performance;
11		(4) asset condition; and (5) non-infrastructure (other)), and network
12		segment (i.e., transmission, sub-transmission, or distribution) by year for
13		the period FY11-FY14. In addition to the information set forth in Exhibit
14		(IOP-1), Schedule 8, additional detail on all the infrastructure programs
15		and projects that are reflected in this rate case are also included in the
16		Company's 2010 Capital Investment Plan, which is being filed the same
17		date as this rate case filing, and which is included as a work paper to our
18		testimony.
19		
20	Q.	Please describe what the "Reserve" line included in several of the
21		sheets in Exhibit (IOP-1), Schedule 8 represents.

1 A. The Reserve line, generally a negative number, is used to balance the 2 forecasted spend for the fiscal year to the budget for the fiscal year. For 3 example, in Exhibit__ (IOP-1), Schedule 8, Sheet 15, the budget subtotal 4 of Transmission projects in the System Capacity and Performance 5 category in FY11 total \$54.1 million. However, the total budget for 6 projects in that spending category is \$46.3 million. The difference is the 7 Reserve of -\$7.8 million, which balances the forecast to the budget. 8 9 The Reserve is a hedge that recognizes that historically there have always 10 been unforeseeable delays in project expenditures, projects that are 11 cancelled as further information becomes available, and projects 12 completed for less than estimated spend due to efficiencies. The Reserve 13 is also used to balance for future year unidentified projects, current year 14 walked-in projects, and projects completed in excess of the estimated cost. 15 The Reserve can be either positive or negative. 16 A. **Statutory/Regulatory Requirements** 17 18 Q. Please discuss the investments the Company plans to undertake in the 19 Statutory or Regulatory Requirements category during the period 20 covered by this rate case.

1	A.	Exhibit (IOP-1), Schedule 3 shows the Company's current and planned
2		spending for distribution, sub-transmission, and transmission projects
3		included in the statutory/regulatory requirements category.
4		
5		As shown in Exhibit (IOP-1), Schedule 3, Sheet 1 of 2, the Company
6		will spend \$850 million, almost 40 percent of its FY2011- FY2014
7		investment budget, on projects in this category. Exhibit (IOP-1),
8		Schedule 3, Sheet 2 of 2 details the breakdown of spending for
9		statutory/regulatory purposes for the distribution, sub-transmission and
10		transmission portions of the network by budget classification.
11		
12		About \$553 million (65%) of the Statutory or Regulatory Requirements
13		spend for the FY2011- FY2014 period will be directed to the distribution
14		network About \$200 million of this amount will be required to extend
15		overhead or underground service to new residential and commercial
16		customers, and \$124 million will be needed to purchase the transformers
17		needed to support new and existing customers. Another \$93 million is
18		budgeted to ameliorate issues identified on the distribution system by the

Inspection and Maintenance program conducted pursuant to the PSC's 2 2008 Safety Order in Case 04-M-0159.³

The Company plans to invest \$47 million (6%) of the statutory/regulatory requirements in the sub-transmission portion of the network. Nearly all of this spending will be to address issues identified through the inspection and maintenance program.

Spending to meet statutory/regulatory requirements on the transmission portion of the network is expected to increase considerably in the years ahead, when the Company will be required to spend \$251 million (29%) between FY2011 and FY2014. Of this amount, \$152 million is required for the Northeast Regional Reinforcement Program, needed to support the on-going Luther Forest Technology Campus project, and to solve thermal and voltage problems in the Saratoga/Glens Fall Area. An additional \$53 million is directed to upgrade substations that have been newly classified at part of the bulk power system based on testing performed by the New York Independent System Operator ("NYISO"). These funds will be used to bring two substations, Clay and Porter into compliance with NPCC

³ Order Adopting Changes to Electric Safety Standards, in Cases 04-M-0159 and 06-M-1467 ("2008 Safety Order"), issued December 15, 2008.

1 design, protection and operation standards for bulk power stations. The 2 cost of these upgrades is \$29 million for Clay and \$24 million for Porter. 3 4 The Company will also spend over \$46 million to implement its 5 Conductor Clearance Strategy, with a program to ensure that transmission 6 lines meet the clearance requirements established by the National Electric 7 Safety Code ("NESC"). This work is needed to safeguard the public and 8 Company employees as they work and travel under these over head lines, 9 and was established in a 2005 review of the system using Aerial Laser 10 Surveys ("ALS"). 11 12 0. Please describe some of the major projects and programs included in 13 the Statutory or Regulatory Requirements category of the Company's 14 infrastructure investment plan in more detail. 15 A. Below we provide more detailed descriptions of some of the major 16 statutory/regulatory requirements programs and projects, segregated by portion of the electric system they address. Additional information on all 17 18 of the programs and projects in this category are included in Exhibit ___ 19 (IOP-1), Schedule 8, Sheets 1-5.

Transmission

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

Northeast Region Reinforcement. This major program consists of reinforcements of the transmission system in the Saratoga and Glens Falls area and is necessary to respond to reliability needs caused by area load growth and the impact of the proposed Luther Forest Technology Campus ("LFTC"). The transmission reinforcement program will resolve thermal and voltage problems which will result from projected load growth in the Northeast Region. Currently, there are six major projects with forecasted spending levels over \$2 million under this program including the construction of the new Turner Road substation and the associated taps, the re-conductoring of 44 miles of right-of-way miles of 115kV lines and the installation of a fourth transformer at the Rotterdam substation. Specific projects under this program are identified in Exhibit __ (IOP-1), Schedule 8, Sheet 5. Not doing this program would result in thermal and voltage problems under certain system conditions. This program will be funded for \$7.3 million in FY11, \$41.2 million in FY12, \$65 million in FY13, \$38.5 million in FY14, for a total of \$151.9 million for the period. The estimated in-service dates for certain major plant

1 additions under this program are reflected in the Revenue Requirements 2 Panel Exhibit __ (RRP-6), Schedule 1, Sheet 4, lines 4, 9, and 16.4 3 115 kV Substation Bulk Power System (BPS) Upgrade. In April of 2007, NPCC adopted Document A-10, Classification of Bulk 4 5 Power System Elements. In accordance with Document A-10, testing of 6 the major substations across New York State was performed by the 7 NYISO, and several Niagara Mohawk substations were classified as part 8 of the BPS. All substations that were newly classified as BPS under the 9 A-10 testing must be brought into compliance with specific NPCC design, 10 protection and operation requirements. This major asset program will 11 upgrade two of our 115kV substations (Clay and Porter substations) to 12 bulk power reliability criteria. In addition to compliance with NPCC and 13 NYSRC requirements, the benefits of completing these projects are 14 reductions in system vulnerability to certain severe contingencies. These 15 projects reduce the chances that system instability and voltage collapse 16 would occur for these contingencies. Customers in central New York will 17 benefit from the significantly reduced vulnerability of the transmission 18 system to these highly disruptive contingencies. These projects are 19 budgeted at \$9.9 million in FY11, \$20.0 million in FY12 and \$23.0

⁴ Later in this testimony the Company describes the convention it uses to reflect the in-service date of investments for purposes of the revenue requirement. The testimony of the Revenue Requirements panel contains a more detailed description.

million in FY13, for a total of \$52.9 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 5. The estimated in-service dates for major plant additions under this program are reflected in the Revenue Requirements Panel Exhibit __ (RRP-6), Schedule 1, Sheet 4, lines 11 and 13.

Conductor Clearance Strategy. The need for greater clearances was identified as a result of a 2005 review of parts of the transmission system using an innovative technology called Aerial Laser Survey ("ALS"), in which aerial surveys measure clearances with an accuracy previously unavailable except by ground inspection. This program assures that Niagara Mohawk transmission lines meet the governing NESC by increasing ground to conductor clearances in substandard spans, and follows the PSC's 2005 Safety Order in Case 04-M-0159. The primary driver for this work is to ensure the safety of the public and our employees and contractors as they work and travel under the overhead lines. There is one major project within this program: the Transmission Tower Clearance project. Completion of this project is necessary to comply with the 2005 Safety Order and adhere to the NESC. The budget for this program is \$1.5 million in FY11, \$15.0 million in each of FY12, FY13, and FY14, for a

⁵ Order Instituting Safety Standards, Case 04-M-0159, issued and effective January 5, 2005 ("2005 Safety Order").

1 total of \$46.5 million for the period, as indicated in Exhibit __ (IOP-1), 2 Schedule 8, Sheet 3. 3 Remote Terminal Unit Strategy. A Remote Terminal Unit 4 ("RTU") is a device used to transfer operational information from a 5 substation to an Energy Management System ("EMS") in a control center. 6 An RTU allows for remote operation and management of the system 7 providing benefits in incident response and recovery and thus improving 8 performance and reliability. Modern RTUs provide the system operators 9 the capability to more quickly and more accurately diagnose faults. In 10 addition, protection engineers and operations engineers have access to data 11 for analysis. And asset managers have the ability to obtain field 12 measurements from substation data systems related to protection, power 13 factor monitoring, phase balancing, circuit reconfiguration and load 14 balancing. The Company's obsolete RTUs are not capable of interfacing 15 with modern energy management systems and do not comply with NERC 16 Recommendation 28, released in response to the August 2003 blackout.

17

18

19

20

21

The Transmission Remote Terminal Unit ("RTU") Strategy involves replacing obsolete monitoring and control equipment with state of the art and fully supported equipment. In addition, much of the current test equipment is no longer serviceable and operates on computer hardware

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

and software that is no longer supported by the manufacturer. Customers will benefit from the improved reliability of the transmission system as well as the more efficient management of the grid. In the event of a minor or major system disturbance, accurate data that is received in a timely manner is a necessity in the restoration process. Data received from the new RTUs will quickly identify key devices that have failed or have been affected by the event. The data will expedite isolation of the problem, reduce the duration of the outage and in some cases avoid the spread of an outage to other system components. The Company currently has three separate RTU programs within its Capital Investment Plans; these programs will address obsolete RTUs on the transmission system, and include installing over 150 new RTUs on the sub-transmission and distribution systems. This program will be funded for \$1.5 million in FY11, \$2.0 million in FY12 and \$1.4 million in FY13, for a total of \$4.9 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 5. **Distribution and Sub-Transmission Inspection and Maintenance Strategy and Program.** The Inspection and Maintenance Strategy outlines the Company's strategy for

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

the inspection of all electric line assets (Distribution Overhead, Underground, and Sub-Transmission line assets) to be once every five years, in conformance with the 2005 and 2008 Safety Orders. Any repair work identified as a result of the Inspection and Maintenance strategy will be prioritized based on the severity of the issues found and incorporated into the work plan as appropriate. Priority Codes are as follows: Level 1- Must be repaired/replaced within one week. Level 2- Must be repaired/replaced within one year. Level 3- Must be repaired/replaced within three years. Level 4- Information only, replace based on engineering judgment and budget availability (including project bundling/outage optimization considerations). This strategy is designed to improve the reliability and sustainability of the electric distribution network based on condition assessment, safeguard the public and employees by identifying and addressing elevated voltages locations, improve service efficiency through optimized timing of maintenance activities, and meet the requirements of the PSC's 2005 and 2008 Safety Orders. The Distribution strategy is funded at \$17.4 million in FY11, \$29 million in FY12, \$25.1 million in FY13, and \$22.1 million in FY14, for a total of \$93.6 million for the period, as indicated in Exhibit

__ (IOP-1), Schedule 8, Sheet 1. Different project stages under the

1		Distribution portion of this program will be closing 3 months following
2		the expenditure of the funds. The Sub-transmission strategy is funded at
3		\$9.6 million in FY11, \$10 million in FY12, \$11 million in FY13, and
4		\$11.5 million in FY14, for a total of \$42.1 million for the period, as
5		indicated in Exhibit (IOP-1), Schedule 8, Sheet 3.
6		
7		B. <u>Damage/Failure</u>
8	Q.	Please discuss the investments the Company plans to undertake in the
9		Damage/Failure category during the period covered by this rate case.
10	A.	Failed and damaged equipment caused about 40 percent of customer
11		interruptions between 2006 and 2009. ⁶ With this in mind, the Company's
12		investment plan includes \$133 million over the period FY11 to FY14 to
13		replace equipment that unexpectedly fails or becomes damaged. Exhibit
14		(IOP-1), Schedule 4, shows the Company's current and planned
15		spending to repair failed or damaged equipment on the distribution,
16		transmission and sub-transmission portions of the network.
17		

⁶ Deteriorated equipment contributed to over 25 percent of customer interruptions during this period while lightning, motor vehicle accidents, and vandalism were responsible for another 16 percent.

1 More than two thirds of this spending (\$90 million) is required to address 2 issues along the distribution portion of the network due to failed 3 equipment or damage caused by severe weather. 4 5 The Company expects to spend an additional \$27 million to replace 6 equipment that based on experience may fail or becomes damaged along 7 the transmission portion of the network. Almost half of these funds have 8 been designated to replace rotting wood transmission poles that are 9 deemed to be beyond restoration so as to ensure compliance with the 10 National Electric Safety Code and in accordance with the Commission's 11 2005 and 2008 Safety Orders. 12 13 The Company expects that required spending to replace failed or damaged 14 equipment will be relatively flat over the rate plan period. The flatness of 15 this budget is also dependent on implementing the investments identified 16 in the System Capacity and Performance and Asset Condition categories 17 (described later). Without the investments in those categories it is 18 anticipated that the projected spending required to replace failed and 19 damaged equipment would be higher.

1	Q.	Please describe some of the major projects and programs that are
2		included in the Company's infrastructure investment plan in the
3		Damage/Failure (D/F) category.
4	A.	Below we provide a description of major projects and programs in this
5		category, segregated by portion of the electric system they address.
6		Detailed information on these programs and projects is included in Exhibit
7		(IOP-1), Schedule 8, Sheets 6-7.
8		
9		Transmission
10		Apart from a five-year budgetary reserve of \$11.5 million added for
11		remediation of unforeseeable failures based on historical spending levels,
12		there are three major transmission programs associated with the
13		Damage/Failure category. All three of these projects are driven by field
14		inspection results. The Company follows a number of standard industry
15		practices for the inspection of its overhead line assets. These include five
16		year ground-level foot patrols, annual aerial infra-red (IR) inspections,
17		ground level inspections for wood poles, footer inspections for steel
18		structures and specific comprehensive inspections of lines with reliability
19		issues. There are currently three programs employed to address the results
20		of these inspections. First, the New York Inspection Projects which will
21		address all the urgent condition issues that arise from the foot patrols, IR

inspections, footer inspections and comprehensive inspections. Second, the Wood Pole Strategy will address all the issues on wood poles identified by the ground level inspections (Osmose Inspections). Finally, the Overhead Line Refurbishment Strategy will address all the long-term i.e. non-urgent condition issues identified through inspection. The current Steel Tower strategy will be phased-out during FY12 and be replaced by the long-term overhead line refurbishment strategy (described later in the Asset Condition section). Different project stages under this program will be closing 6 months following the expenditure of the funds.

NY Inspection Projects. This program assures that both steel tower and wood pole transmission lines meet the governing NESC standards by replacing hardware, wood poles, and structure components that no longer meet the governing code requirements. This follows standard industry practice and the Commission's 2005 Safety Order to adhere to the NESC. The goal of this program is to replace those damaged or failed components on the transmission overhead line system identified during field inspections (five year foot patrols, infrared inspections, etc.). This program will be funded for \$0.5 million in FY11, \$1 million in FY12 and FY13 and \$3 million in FY14, for a total of \$5.5 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 6. Different

project stages under this program will be closing 6 months following the expenditure of the funds.

Wood Pole Strategy. Under this program, wood poles that are either priority rejects or reject poles (as classified following a ground line inspection), as well as those damaged by woodpecker activity, will be replaced. This program targets wood poles deemed to be beyond restoration by either re-treatment or placement of some form of additional pole support, usually at the ground line. Similarly, "reject equivalent," that is, deteriorated wood poles from such things as woodpecker damage, insect damage, or rotting are included. The maintenance of appropriate public safety level by assuring that transmission wood structures continue to meet the governing NESC standards is the driver for this program. Implementation of this program is necessary to conform to the Safety Orders and adhere to the NESC. The Wood Pole Strategy will be funded for \$1.8 million in FY11, \$1.5 million in FY12, \$1.6 million in FY13, and \$3.0 million in FY14, for a total of \$7.9 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 7. The increasing amount in the later years reflects a forecast increase in the number of priority rejects that is expected in coming years. Different project stages under this program will be closing 6 months following the expenditure of the funds.

21

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

Sub-Transmission and Distribution

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

Damage/Failure (D/F) programs and projects also cover sub-transmission and distribution substation, overhead and underground line construction and replacement resulting from vehicle accidents, weather (where a storm project is not required), vandalism, and asset failure. Projects are budgeted based on historical trends. This category also includes Level 1 Prioritized work identified through Inspection and Maintenance. The Company establishes a budget reserve for specific projects required to address failed equipment that arise during the year and cost more than \$100,000. These reserves are based on historical calculations for specific projects within the category. The size and volume of damage/failures drives the spending within these projects. The infrastructure investment plan includes a D/F budget for the sub-transmission system of \$3.6 million in FY11, \$3.8 million in FY 12, \$3.9 million FY13 and \$4.0 million in FY14, for a total of \$15.3 million for the period, as indicated in Exhibit (IOP-1), Schedule 8, Sheet 6. For the distribution system, funding for this D/F work is budgeted at \$20.9 million in FY11, \$22.1 million in FY 12, in \$22.9 million FY13 and \$23.7 million in FY14, for a total of \$89.7 million for the period., as indicated in Exhibit (IOP-1), Schedule 8, Sheet 6.

1		C. System Capacity and Performance
2	Q.	Please discuss the investments the Company plans to undertake in the
3		System Capacity and Performance category during the period
4		covered by this rate case.
5	A.	The Company plans to spend \$502 million, 23 percent of the total
6		FY2011- FY2014 investment budget, on System Capacity and
7		Performance projects, as reflected in Exhibit (IOP-1), Schedule 5. It
8		provides breakdowns of spending for System Capacity and Performance
9		for the distribution, sub-transmission, and transmission portions of the
10		network and by Program.
11		
12		Approximately \$228 million will be directed to the distribution portion of
13		the network for projects required to address capacity constraints and
14		correct impending reliability issues. Of this amount, \$126 million will be
15		required to ensure the distribution network can accommodate anticipated
16		load growth without compromising reliability. This includes replacing
17		line transformers in areas where capacity is or will soon be constrained
18		and "Planning Criteria" projects to ensure other parts of the distribution
19		network have sufficient capacity to meet the anticipated load. The
20		analysis that developed the load forecast used in the capacity planning

1	process incorporates the impacts of energy efficiency programs and
2	distributed generation continuing at historic rates.
3	
4	The Company's system planning group has also recently begun to review
5	the list of prospective "load growth" projects to identify locations where
6	the Company's targeted demand response or energy efficiency programs
7	might either defer or obviate the need for an expansion project.
8	
9	Approximately \$95 million of funds in the System Capacity and
10	Performance category for the distribution network will be used to up-grade
11	or replace assets in the Company's distribution substations. These
12	projects are key to the Company's plan to maintain and improve reliability
13	because problems in substations can interrupt a large number of customers
14	given the up-stream position of substations on the distribution network.
15	
16	In order to better monitor the performance of distribution substations, the
17	Company will spend approximately \$21 million to replace obsolete
18	Remote Terminal Units ("RTU") to transfer data to the energy
19	management system in the control center
20	

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

In addition to specific projects; i.e., those \$100,000 or greater, required to assure the network meets system planning criteria, the Company also budgets for work less than \$100,000 under a Distribution Reliability Blanket Project established for each operating division. Some examples of the type of work that would come under the Distribution Reliability Blanket include installing sectionalizing switches, replacing conductor, correcting for low voltage, minor primary side tap rebuilds, and relocating facilities in response to repeated motor vehicle accidents. The Company projects that nearly \$30 million will be required between FY11 and FY14 to fund this blanket. An additional \$11 million has been directed to perform the work identified in annual engineering reliability reviews ("ERRs") on specific feeders in response to reliability issues. The feeders targeted for review include many of those tagged as 'worst performing feeders' in the Company's annual reliability report. The Company will also spend \$27 million on distribution line reclosers that will help to isolate permanent faults on the overhead distribution system to minimize the impact of a fault on customers. Another \$8 million will be used to address pockets of poor performance where customers

1	have been subject to frequent interruptions due to recurring problems with
2	on the network. The range of potential work on pockets of poor
3	performance will depend on the problems that are identified through an
4	engineering reliability review.
5	
6	The Company will spend \$49 million to address system capacity and
7	performance issues on the sub-transmission system. More than half of this
8	spending will be required to ensure that the sub-transmission network
9	meets the Company's planning criteria. Much of this spending will be
10	directed toward re-conductoring portions of the sub-transmission system
11	especially in the Kensington area and in the vicinity of the former Huntley
12	Station in Tonawanda. The Company will also direct funds to support
13	new large customers, including the Buffalo Niagara Medical Campus, and
14	to automate portions of the sub-transmission system
15	
16	The Company will spend \$225 million from FY11-FY14 in the System
17	Capacity and Performance category on the transmission system. Almost
18	half of that amount is designated for nearly twenty projects to ensure that
19	the non-Bulk portion of the transmission system complies with the
20	Company's N-1-1- Reliability Planning criteria.
21	

Another \$102 million of these funds will be required to fund projects in the Frontier, Genesee, and Southwest regions needed to mitigate risks to the bulk power system following the retirement of 355 MWs in 2007 at the Huntley Power Station in Tonawanda. Capacitor banks installed at Huntley will mitigate most immediate system concerns. The Company will need to construct a new substation in Tonawanda and relocate six circuits to the new station in order to mitigate the need for load shedding in the event of a severe fault.

- Q. Please describe some of the major projects and programs that are included in the Company's infrastructure investment plan in the System Capacity and Performance category in more detail.
- A. Below we provide a description of some major projects and programs in this category, segregated by portion of the electric system they address.

 Additional information on all of the programs and projects in this category are included in Exhibit __ (IOP-1), Schedule 8, Sheets 8-15. In addition, there are three additional projects included in the Company's investment plans that are not described in this section. These are described in greater detail in the section entitled Additional Projects, later in our testimony.

Transmission

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Frontier Region. The Frontier Region Program involves significant capital expenditures to construct a major set of upgrades and replacements to the 115kV system near the retired Huntley Generating Station in Western New York. These expenditures are driven by the closure of generation at Huntley and the present system conditions and minor load growth expectations are needed before the summer of 2012 in order to avoid severe thermal and voltage problems that would impact system security and reliability. Transmission system reliability improvements will develop through the implementation of the permanent solutions. Prior to 2012, the capacitor banks recently installed at Huntley will mitigate most post-contingency system concerns. However, should a severe fault occur during a heavy load period, load shedding would likely be required to maintain the security of the transmission system until the upgrades are completed. Currently, there are two projects directly included in the program: the construction of the Tonawanda station, and the relocation of the six circuits that will in the future terminate at the new station. In addition to the Tonawanda projects, the refurbishment of the Huntley 230kV Station is associated with this program. This program (excluding the Huntley station) will be funded for \$29.3 million in FY11, \$54.3 million in FY12, \$12.3 million in FY13 and \$5.7 million in FY14,

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

for a total of \$101.6 million for the period, as indicated in Exhibit ___ (IOP-1), Schedule 8, Sheet 13. The estimated in-service date for the Tonawanda Station under this program is reflected in Exhibit __ (RRP-6), Schedule 1, Sheet 4, Line 7. Other project stages under this program will be closing from 6-12 months following the expenditure of the funds. **Reliability Criteria Compliance**. This program involves significant capital expenditure over the next five years to construct major reinforcements of the 115kV and 230kV transmission systems in western New York, including the Frontier, Southwest and Genesee regions that extend from the NY/Canada border east to Mortimer Station and south to the Pennsylvania border. The reinforcements are needed to ensure adherence to reliability standards by strengthening the transmission network. Completion of this strategy will substantially reduce the exposure of customers to service interruptions. Generation that currently must be run at times for reliability purposes will no longer be required, avoiding future costs of dispatching the generation out of NYISO merit order. In addition some capability to accommodate new or expanding load will be added to the system. This program will be funded for \$11.6 million in FY11, \$29.8 million in FY12, \$33.3 million in FY13 and \$23.1 million in FY14, for a total of \$97.8 million for the period, as indicated in Exhibit

__ (IOP-1), Schedule 8, Sheet 15. The estimated in-service date for the

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Construct Southwest Station project under this program is reflected in Exhibit __ (RRP-6), Schedule 1, Sheet 4, Line 12. Other project stages under this program will be closing from 6-12 months following the expenditure of the funds.

Other System Capacity and Performance. There are eleven separate projects with spend greater than \$2 million each included in the "Other System Capacity and Performance" program, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 14. These projects are required to ensure that the electric network has sufficient capacity to meet the growing and/or shifting demands of our customers. Projects in this category are intended to prevent the degradation of equipment service lives due to thermal stress and to provide appropriate degrees of system reconfiguration flexibility to limit adverse reliability impacts of large contingencies. The Syracuse area re-conductoring prospective project reinforces the transmission system in and around the Syracuse area. These reinforcements are necessary to respond to a system capacity and performance need caused by load growth in the area over the period of time between 2008 and 2018. This program will help avoid thermal overloads on the 115 kV system during contingency conditions. The program scope includes the following projects: Re-conductoring approximately 6.4 miles of the Yahnundasis–Porter 115kV circuit #3: Re-

conductoring two separate sections (one 6.8 miles, the other 6.1 miles) of the Clay–Teall 115kV circuit #10; and Re-conductoring 10.2 miles of Clay–Dewitt 115kV circuit #3. Planned investment for all the projects in the "Other System Capacity and Performance" program total \$5.8 million in FY11, \$7.3 million in FY12, \$10 million in FY13 and \$21 million in FY14, for a total of \$44.1 million for the period, as indicated in Exhibit ___ (IOP-1), Schedule 8, Sheet 14. Different project stages under this program will be closing from 6-12 months following the expenditure of the funds.

Sub-Transmission

Campus. The Buffalo Niagara Medical Campus is a collection of medical facilities in the downtown Buffalo, NY area that are planning major capacity increases. Combined, the Company has received requests for an additional 16.5MVA of new load in these areas. This additional load will overload the 23kV cable group supporting the area. To provide the necessary capacity to meet these customer requests, an additional cable group of four 23kV cables will be installed. To accommodate these additional circuits an underground conduit system is required as well as an additional bay of breakers at the Elm Street substation. The project is on a fast track to meet the customers' expansion plans. Project costs are

1 budgeted at \$7.3 million in FY11, as indicated in Exhibit __ (IOP-1), 2 Schedule 8, Sheet 13. Different project stages under this program will be 3 closing from 6-12 months following the expenditure of the funds. 4 23kV Cable Upgrades Huntley to Buffalo Station 24. This 5 project will replace and upgrade four 23kV underground sub-transmission 6 cables from Huntley substation supplying Buffalo Station 24. This group 7 of cables is expected to be loaded beyond normal ratings during peak load 8 periods as early as the summer of 2010. These improvements will also 9 address potential contingency overloads on the same cables as post 10 contingency loading could exceed emergency ratings by summer 2010. 11 The project is in the conceptual engineering phase. Construction is 12 expected to begin in late 2010 with an expected completion date of 13 summer 2012. The project is budgeted at \$0.2 million in FY11, \$1.0 14 million in FY12, and \$6.2 million in FY13, for a total of \$7.4 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 13. 15 16 Different project stages will close throughout the program life, with 17 closing occurring 6 months following the expenditure of the funds 18 23kV Cable Upgrades Huntley to Buffalo Station 52. This 19 project will replace and upgrade one 23kV underground sub-transmission 20 cable from Huntley substation supplying Buffalo Station 52. This cable is 21 expected to be loaded beyond normal ratings during peak load periods as

early as the summer of 2010. These improvements will address potential contingency overload on the same cable as post contingency loading could exceed emergency ratings by summer 2010. The project is in the conceptual engineering phase. Construction is expected to begin in late 2010 with an expected completion date of summer 2012. The project is budgeted at \$0.2 million in FY11, \$1.0 million in FY12, and \$1.2 million in FY13, for a total of \$2.4 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 13. Different project stages will close throughout the program life, with closing occurring 6 months following the expenditure of the funds.

Upgrade Bethlehem – Avenue A #10 Line. This project will upgrade 1.8 miles of 34.5kV underground sub-transmission including new ducts and cable to provide load relief to the #10 line which is forecasted to reach its normal rating by the summer of 2011 and which could exceed its emergency ratings under contingency loading conditions. Upgrade of this cable will maintain existing reliability performance levels and provide additional area capacity for load growth. The project is in the conceptual engineering phase. Construction is expected to begin in late 2011 with an expected completion date of spring 2013. The project is budgeted at \$0.3 million in FY12, and \$2.0 million in FY12, for a total of \$2.3 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 13.

Different project stages will close throughout the program life, with closing occurring 6 months following the expenditure of the funds.

Sub-Transmission Line Sectionalizing. A program is being developed to increase the sectionalizing capability of radial subtransmission lines to better isolate faulted sections of lines thus facilitating the rapid restoration of customers on sections that are not adversely impacted. The program is expected to extend over many years. Budgets have been forecasted based on conceptual expectations. This project is budgeted at \$0.5 million in FY11, \$1.0 million in FY12, \$2.0 million in FY13, and \$4.0 million in FY14, for a total of \$7.5 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 13. Different project stages will close throughout the program life, with closing occurring 6 months following the expenditure of the funds.

Distribution

Pockets of Poor Performance Strategy. The intent of this strategy is to identify subsections of feeders (typically at the line fuse level) experiencing measurably more frequent customer interruptions than the remainder of the feeder. Typically, these identified areas are known as "pockets of poor performance." The reliability levels targeted by Pockets of Poor Performance Strategy are:

- Customer Level Reliability Reliability at the customer level is the main driver of this strategy. Identifying and correcting repeat device interruption locations will improve customer service.
- Minimize reliability 'hot-spots' This strategy will help identify
 future reliability 'hot-spots' and support the timely correction of
 localized problems before they become larger issues.

Once these locations have been identified, a reliability review of the area will be conducted by Network Asset Planning to determine the source(s) of the problem. The range of potential work could be as simple as solving a coordination problem to performing preventive maintenance (e.g., tree trimming, repairing equipment, grounding and bonding) and/or line reconductoring. The Pockets of Poor Performance Strategy is level-funded at \$2.1 million per year for FY11-FY14, for a total of \$8.4 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 12.

Distribution Line Transformer Strategy. This is a "predictive approach" to mitigate unplanned outage/failure risks due to overloading and asset condition. There are approximately 442,000 transformers on Niagara Mohawk's distribution system. Transformer loading is reviewed annually using reports generated by the Company's GIS system.

Transformers with calculated demands exceeding load limits specified in the applicable Construction Standard are investigated and overloaded

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

installations are addressed by replacement with a larger unit or load is relieved via installation of a second transformer. The physical condition of distribution line transformers is evaluated on a five-year cycle as part of the Overhead and Underground Inspection and Maintenance Strategy. Poor condition units are replaced based on inspection results. The Strategy is in addition to replacements that are performed during customer-service upgrades, public requirements projects, and systemimprovement projects. The main benefit of this strategy is the maximization of asset utilization, and sustained reliability performance. The Distribution Line Transformer strategy is funded at \$4.5 million in FY11, \$4.6 million in FY12, \$7.6 million in FY13 and \$9.6 million in FY14, for a total of \$26.3 million for the period, as indicated in Exhibit ___ (IOP-1), Schedule 8, Sheet 8. Different project stages will close throughout the program life, with closing occurring 3 months following the expenditure of the funds. Feeder Hardening Strategy. The Feeder Hardening strategy and program identifies feeders with characteristics indicating the potential for significant reliability performance improvements related to overhead deteriorated equipment and/or lightning interruptions. This is a reliabilityfocused strategy designed to meet state regulatory targets. Feeders in this program undergo replacement of deteriorated equipment, installation of

lightning arresters and animal guards and correction of non-standard grounding and bonding issues. FY11 is the year last feeder hardening will be utilized in NY. The Inspection and Maintenance Strategy incorporates the components of the Feeder Hardening Strategy after FY11. The Feeder Hardening strategy is funded at \$3.0 million in FY11, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 9. Different project stages will close throughout the program life, with closing occurring 3 months following the expenditure of the funds.

Distribution Line Recloser Strategy. The recloser application strategy is a reliability-focused strategy to install line reclosers on overhead distribution lines. Line reclosers are used to isolate permanent faults on the distribution system and minimize exposure of a fault to customers. Ideally reclosers are installed at locations which limit the size of the interruption to the fewest number of customers possible and/or reduce the mainline exposure on the feeder breaker. The benefits of this program are reduced outage duration and outage frequency. The Distribution Line Recloser Strategy is funded at \$5 million in FY11, \$6 million in FY12, \$6 million in FY13, and \$10 million in FY14, for a total of \$27 million for the period, as indicated in Exhibit ___ (IOP-1), Schedule 8, Sheet 12. Different project stages will close throughout the program

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

life, with closing occurring 3 months following the expenditure of the funds.

Distribution Reliability Blanket. In addition to specific projects; i.e., those \$100,000 or greater, the Company also budgets for work less than \$100,000 under a Distribution Reliability Blanket Project established for each operating division. The amount of funding in each divisional blanket project is reviewed, and approved, each year based on the results of the previous annual reliability review, historical trends in the volume of work required as well as a forecasted impact of inflation on material and labor rates. The current year spending in each divisional project is monitored on a monthly basis. These projects are established to ensure that a mechanism is in place to initiate, monitor, and report on work under \$100,000 in value. The blankets also provide local field engineering in each operating division with the control accounts to facilitate timely resolution of historical and new reliability issues that emerge. These blanket projects are budgeted at \$6.6 million in FY11, \$7.2 million in FY12, \$7.8 million in FY13, and \$8.3 million in FY14, for a total of \$29.9 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 8. Different project stages will close throughout the program life, with closing occurring 3 months following the expenditure of the funds.

1	Planning Criteria Projects. An annual capacity planning
2	assessment is conducted to identify thermal capacity constraints, maintain
3	adequate delivery voltage, and assess the capability of the network to
4	respond to contingencies that might occur. The capacity planning process
5	is summarized by the following tasks:
6	• Review of historic loading on each sub-transmission line, substation
7	transformer, and distribution feeder.
8	• Weather adjustment of recent actual peak loads,
9	• Econometric forecast of future peak demand growth,
10	 Analysis of forecasted peak loads vis-à-vis equipment ratings,
11	• Consideration of system flexibility in response to various contingency
12	scenarios, and
13	• Development of system enhancement project proposals.
14	Individual project proposals are identified to address planning criteria
15	violations identified. At a conceptual level, these project proposals are
16	prioritized and submitted for inclusion in future capital work plans.
17	Projects in the load relief program are typically new or upgraded
18	substations and distribution feeder mainline circuits. Other projects in this
19	program are designed to improve the switching flexibility of the network,
20	improve voltage profile, or to release capacity via improved reactive
21	power support.

1 Some of the most significant planning criteria projects include: 2 Sycaway – Add 13.2kV Switchgear. The Sycaway substation is a 3 115-13.2kV substation in Brunswick serves approximately 4600 4 customers. The existing transformer and local feeders are forecasted 5 loaded above their rating during summer peak periods. The substation is 6 being expanded to add a second transformer, 13.2kV switchgear, 7 substation capacitor banks and two additional 13.2kV feeders to serve area 8 loads and provide improved operational flexibility to respond to various 9 contingency with feeder switching. The project is currently in the final 10 engineering stage. Construction is expected to complete in March 2011 11 with project closure in September 2011. This portion of the project is 12 budgeted at \$2.1 million in FY11, as indicated in Exhibit __ (IOP-1), 13 Schedule 8, Sheet 10. 14 **Swann Road TB2 Replacement.** Swann Rd is a 115 -13.2kv two 15 transformer substation in Lewiston. The existing transformer bank (TB) 16 #2 is in poor condition and will be replaced with a new 25MVA unit. The 17 project is expected to be completed in the spring of 2011 and it budgeted 18 at \$2.2 million in FY11, as indicated in Exhibit __ (IOP-1), Schedule 8, 19 Sheet 10. 20 *Inman Rd - Add 13.2kV Switchgear*. Inman Rd is a 115-13.2kV 21 substation in Niskayuna. There are loading and voltage concerns on

nearby distribution feeders served from the Rosa and Watt Street substations. The addition of a second 33MVA transformer, 13.2kV switchgear, substation capacitor bank and two new 13.2kV feeders will provide additional area capacity to relieve area facilities and improve customer service. The project is currently in preliminary engineering. Construction is expected to begin in summer of 2011 and complete by March of 2012. The project is budgeted at \$1.0 million in FY11 and \$2.2 million in FY12, for a total of \$3.2 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 10.

Frankhauser – Add 13.2kV Switchgear. This project proposes the installation of a new 115-13.2kV substation on Company owned land off Frankhauser Rd in Amherst. The primary driver of this project is to maintain reliability of the area and provide load relief for five area feeders that are expected to reach or exceed their summer ratings by 2012. In addition seven area substation transformers are at risk of exceeding their emergency ratings for a single contingency if load were not shed at peak periods. The plan to resolve these issues is to install this new substation with a 115-13.2kV 40MVA transformer, 13.2kV switchgear, substation capacitor bank, and four 13.2kV feeders. This project funds the 13.2kV substation additions associated with this plan. The project is currently in preliminary engineering. Construction is expected to begin in spring of

1 2011 and complete by March of 2012. The project is budgeted at \$0.3 2 million in FY11 and \$2.0 million in FY12, for a total of \$2.3 million for 3 the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 10. West Albion Transformer Addition. The West Albion substation is 4 5 34.5-13.2kV substation located in Albion. The existing transformer is 6 forecasted to be overloaded and a second 5.3MVA transformer, regulators 7 and additional 13.2kV feeder will be added to the substation to provide 8 additional capacity to relieve the overloaded facilities. This project funds 9 the associated substation additions. The project is currently in conceptual 10 engineering phase. Construction is expected to begin in spring of 2011 11 and complete by March of 2012. The project is budgeted at \$0.5 million 12 in FY11 and \$2.5 million in FY12, for a total of \$3 million for the period, 13 as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 11. 14 Starr Road Second Transformer. Starr Road is a 115-13.2kV 15 substation in Cortland. It serves 22MVA of area load from a single 16 25MVA transformer. The limited field ties from other substations cannot 17 carry all of the load of the station in the event of a transformer 18 contingency. This may result in customer outages up to 24 hours in 19 duration while a mobile substation is installed under emergency 20 conditions. This project proposes to install a second 25MVA transformer 21 at the substation as well as a 13.2kV tie switch inside the substation. The

project is currently in the conceptual engineering phase. Construction is expected to begin in spring of 2012 and complete by March of 2013. The project is budgeted at \$1.9 million in FY12 and \$0.4 million in FY13, for a total of \$2.3 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 11.

Ogden Brook – Installation of a 13.2kV Switchgear. The Ogden Brook substation is a 115-13.2kV serving approximately 3000 customers in the Glens Falls area via a single 22MVA transformer. The transformer is forecasted to be overloaded by the summer of 2013. This project proposes the addition of a second transformer, 13.2kV bus, substation capacitor and a new 13.2kV feeder to provide needed capacity to the area to reliably serve these customers. The project is currently in conceptual engineering phase. Construction is expected to begin in autumn 2010 and be complete by March of 2013. The project is budgeted at \$0.25 million in FY11, \$2.0 million in FY12 and \$2.8 million in FY13, for a total of \$5 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 11.

Ballston – Installation of a 13.2kV Switchgear. The Ballston substation is a 115-13.2kV substation in Ballston Spa. The single 22MVA transformer is heavily loaded and is currently being managed via load transfers among neighboring facilities. This project proposes to increase

the capacity of the substation with the addition of a second transformer, switchgear and additional feeders. The project is early in the conceptual engineering phase. Construction is expected to begin until spring 2012 with a forecasted in service date around March 2014. The project is budgeted at \$2.9 million in FY13 and \$0.7 million in FY14, for a total of \$3.6 million for the period, as indicated in Exhibit ___ (IOP-1), Schedule 8, Sheet 12.

North Syracuse Capacity Increase. The North Syracuse study area encompasses the Towns of Clay, Cicero, Lysander and Salina. The area is loaded to 335MVA and serves approximately 67,000 customers. In 2008 two feeders were loaded beyond their summer normal rating and six substation transformers were at risk of contingency overload that would require load shedding at peak load periods. This project will add needed capacity to the area with the addition of a new 115-13.2kV substation with a 40MVA transformer, substation capacitor bank and switchgear supplying 5 new distribution feeders. Completion of this project will enhance customer reliability and will provide area capacity to support the continued load growth expected in the area. The project is in the preliminary engineering phase. Construction is expected to begin in autumn 2010 with a forecasted in service date around September 2012.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

The project is budgeted at \$0.79 million in FY11, \$2.3 million in FY12 and \$0.1 million in FY13, for a total of \$3.19 million for the period.

Distribution Load Relief Blanket. In addition to specific projects; i.e., those \$100,000 or greater, required to realign the network with system planning criteria, the Company also budgets for work less than \$100,000 under a Distribution Load Relief Blanket Project established for each operating division. These projects are established to ensure that a mechanism is in place to initiate, monitor, and report on work under \$100,000 in value. The amount of funding in each divisional blanket project is reviewed, and approved, each year based on the results of the previous annual capacity planning review, historical trends in the volume of work required as well as a forecasted impact of inflation on material and labor rates. The current year spending in each divisional project is monitored on a monthly basis. The blankets also provide local field engineering in each operating division with the control accounts to facilitate timely resolution of system and equipment loading issues. These blanket projects are utilized to respond to issues such as overloaded sections of wire/cable or step-down transformers, the installation of feeder voltage regulators and capacitors, as well as minor work necessary to facilitate the reallocation of load on existing circuits. These blanket projects are budgeted at \$1.1 million in FY11, \$1.1 million in FY12, \$1.2

million in FY13 and \$1.2 million in FY14, for a total of \$4.6 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 12.

Replacement RTU Program – Substations. This is one of the three RTU projects mentioned earlier in the testimony. This program will replace RTU's where existing RTU's have become obsolete and unsupported by the manufacturer. Replacement of these devices will ensure reliable operation of the electric system. The program is expected to extend over many years. Replacement candidates for the next 2 years are in the engineering phase and construction plans are prepared. Future year budgets have been forecasted based on conceptual expectations over the five year horizon. Construction is expected to begin summer of 2010. This project is budgeted at \$1.8 million in FY11, \$1.8 million in FY12, \$1.8 million in FY13 and \$2.0 million in FY14, for a total of \$7.4 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 12. Different project stages will close throughout the program life, with closing occurring 9 months following the expenditure of the funds.

New Substation RTU Program. This also is one of the three RTU projects mentioned earlier in the testimony. Currently over 150 out of the 441 distribution and subtransmission substations require installation of RTU's. This strategy provides the means to leverage substation data that provides operational intelligence and significantly reduces response

1 time to abnormal conditions through real time monitoring and control. 2 Substations equipped with RTU's and subsequent communication to the 3 EMS system can provide up to a 15 percent reduction in average customer 4 outage duration (CAIDI) when compared with a similar feeder that is not 5 equipped with and RTU to transfer information to the EMS capabilities. Based upon historical cost of similar projects, the strategy is funded at 6 7 \$2.5 million in FY11, \$3.0 million in FY12, \$3.0 million in FY13, and 8 \$4.0 million in FY14, for a total of \$12.5 million for the period, as 9 indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 12. Different project 10 stages will close throughout the program life, with closing occurring 9 11 months following the expenditure of the funds. 12 13 D. **Asset Condition** 14 Q. Please discuss the investments the Company plans to undertake in the 15 Asset Condition category during the period covered by this rate case. 16 A. Exhibit __ (IOP-1), Schedule 6, Sheet 1 of 4 shows the Company's 17 investment plan levels for projects required to address Asset Condition 18 issues. Exhibit __ (IOP-1), Schedule 6, Sheet 4 of 4 details the 19 breakdown of spending for Asset Condition for the transmission portions 20 of the network. Exhibit (IOP-1), Schedule 6, Sheet 2 of 4 details the 21 breakdown of spending for Asset Condition for the distribution portion of

1 the network by strategy. Exhibit__ (IOP-1), Schedule 6, Sheet 3 of 4 2 details Asset Condition Spending for the sub-transmission potion of the 3 network by strategy. 4 5 The Company expects to spend \$690 million, nearly 32 percent of its 6 FY11-FY14 investment budget, to improve the condition of deteriorated 7 assets. 8 9 Over 60 percent of this spending (\$430 million) is required to improve and 10 sustain the condition of the transmission system. Approximately \$198 11 million of this spending will be required to refurbish overhead lines. This 12 spending will be the initial installment of a 25 year program to replace or 13 refurbish steel towers, wood poles and re-conductor several transmission 14 lines to assure the system remains in compliance with the 2005 Safety 15 Order and the National Electric Safety Code. Another \$139 million will 16 be required to rebuild transmission substations in Gardenville, Dunkirk, 17 Lockport, Lighthouse Hill and Rome. The planned replacement of these 18 stations reduces the likelihood of an unplanned failure which could lead to 19 long interruptions of the transmission system and the interruption of 20 service to large numbers of customers. The Company also is also 21 planning to direct \$25 million to replace 39 transformers that have been

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

designated as "high priority" based on their asset condition. An additional \$23 million will be used to replace problematic circuit breakers in order to reduce the risk of in-service failure that could lead to a lengthy interruption on the transmission system and significant customer interruptions. The Company's investment plan will also direct \$148 million to replace assets on the distribution portion of its network based on asset condition. As shown in Exhibit (IOP-1), Schedule 6, Sheet 2, two thirds of these funds will be used to replace equipment in substations. Close to \$59 million will be used to replace or rebuild the Indoor 23-4kV Substations that were built in the 1930s and 1940s that now pose safety, capacity, and reliability issues. The Company will spend another \$17 million to replace substation circuit breakers and to remove circuit breakers that are obsolete or do not operate properly and undermine reliability. Another \$14 million will be used to replace the metalclad switchgear in several distribution substations: Altamont, Market Hill, North Troy and Oneida. This equipment is in poor condition, and when this class of switchgear fails, it generally impacts the entire bus and interrupts service to many customers.

The Company plans to spend \$16 million to replace underground cable

1		and another \$8 million to improve networks in urban areas to reduce
2		reliability concerns.
3		
4		As shown in Exhibit (IOP-1), Schedule 6, Sheet 3, the Company is also
5		planning to spend \$112 million to improve the condition of assets along
6		the sub-transmission network. Most of this spending will be to replace
7		towers, line, and underground cable. Over 20 percent of these funds will
8		be used to replace equipment in substations.
9		
10	Q.	Please describe some of the major projects and programs that are
11		included in the Company's infrastructure investment plan in the
12		Asset Condition category.
13	A.	Below we provide a description of major projects and programs in this
14		category, segregated by portion of the electric system they address.
15		Details of individual programs and projects is included in Exhibit (IOP-
16		1), Schedule 8, Sheets 16-25.
17		
18		Transmission
19		3A/3B Tower Strategy . In October 2003 Structure 347 on the Edic-New
20		Scotland 14 line, a type 3A tower, failed. Two previous failures occurred
21		on type 3B towers, Structure 3 in 1977 and Structure 66 in 1992 (adjacent

towers 63, 64, 65, 67, and 68 were damaged by the collapsed tower).
These failures occurred on the Edic-New Scotland 14 line. Phase I of this
strategy addressed safety concerns on the Edic-New Scotland 14 line and
has been completed. The selection of towers for replacement involved
considerable analysis determining which towers presented the greatest
public safety concern. The Company has four other 345 kV lines that use
these same types of towers. They are the 345kV New Scotland-Leeds 93
and 94 lines, Athens-Pleasant Valley 91, and Leeds-Pleasant Valley 92
lines. The physical components of these lines include twin high strength
steel static wires and a two conductor per phase arrangement of 795 kcm
Aluminum Conductor Steel Reinforced ("ACSR") "Drake" supported by
steel lattice towers. These lines were energized in 1962. Phase II will
address these four remaining lines after Transmission Planning and the
NYISO review the future load needs associated with them. The scope of
this program is being developed with consideration of the overall risks to
public safety as the primary driver with improved reliability a secondary
benefit. The Company has limited the program to those towers which
pose the greatest risk to public safety in order to reduce the costs of the
programs. The two projects included within this program are: "Leads -
Pleasant Valley 91/92 tower reinforcement" and "New Scotland – Leads
93/94 tower reinforcement." Implementing the program will reduce the

risk of additional failures of the same type of towers in the future. This program will be funded for \$0.05 million in FY12, \$0.15 million in FY13, and \$6.1 million in FY14, for a total of \$6.3 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 22. Different project stages will close throughout the program life, with closing occurring 6 months following the expenditure of the funds.

Battery Strategy. Battery and charger systems are critical components that are needed to insure full substation operational capability during both normal and abnormal system conditions. A battery system that does not perform adequately could result in serious reliability consequences. There are three different projects within this program, the largest of which ("Battery Replacement Strategy Co36TxT") is funded for \$1.2 million per year in FY11 and FY12, and \$0.6 million per year in FY13 and FY14, for a total of \$3.7 million for the period, as indicated in Exhibit __(IOP-1), Schedule 8, Sheet 22. Different project stages will close throughout the program life, with closing occurring 12 months following expenditure of the funds.

Circuit Breaker Replacement Strategy. The circuit breaker replacement strategy will address problematic circuit breakers on the Company's system. Circuit breakers play a key role in system performance, particularly for fault clearance, and the strategy is necessary

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

to address problem circuit breakers and to prevent failures and unplanned outages. This strategy involves the purchase and installation of approximately 130 SF₆ (gas) circuit breakers over the next ten years (replacing high priority oil circuit breakers). Additionally, where cost effective and where their conditions warrant, the Company will replace disconnects, control cable and other equipment associated with these circuit breakers. The planned replacement of these circuit breakers reduces the likelihood of an unplanned failure which can lead to lengthy interruptions of the transmission system as well as significant customer outages. The program would also reduce the potential for catastrophic failures that pose safety risks, as well as the risk of damage to surrounding equipment. The program will be funded for \$0.1 million in FY11, \$1.1 million in FY12, \$7.3 in FY13, and \$14.5 million in FY014, for a total of \$23 million for the period, as indicated in Exhibit (IOP-1), Schedule 8, Sheet 22. The estimated in-service date for the Circuit Breaker Replacement (priority 4) project under this program is reflected in Exhibit __ (RRP-6), Schedule 1, Sheet 4, Line 7. Other project stages will close throughout the program life, with closing occurring 12 months following expenditure of the funds. **Overhead Line Refurbishment Program.** The Company has over 5,800 circuit miles of Transmission overhead lines in upstate New

York and many of these overhead line assets are approaching, and some are beyond, the end of their anticipated lives. There are two main drivers for the proposed long-term overhead line refurbishment program. Firstly, the program will ensure that the Company's transmission lines meet the governing code as required by the Commission's 2005 Safety Order. Secondly the program will improve the reliability of the aging transmission system by rebuilding the worst performing lines before they become unacceptably unreliable.

The overhead line refurbishment program assures that the Company's transmission lines meet the governing NESC standards. This will be accomplished through the replacement of deteriorating structures (both wood and steel) and line components that no longer structurally or electrically adhere to the governing National Electric Safety Code. This will be done on a line-by-line basis and will follow an in-depth condition assessment and engineering evaluation of the lines. Refurbishment projects have been selected based upon six factors;

five-year average reliability statistics as published in the
 Transmission Network performance Report or any circuits that
 appear in the external SGS Statistical Services benchmarking list
 of worst performing 100 circuits

1	ii)	condition as determined by field inspection, testing and analysis		
2	iii)	age distribution figures for overhead line assets show an aged		
3		population. A significant proportion of the Company's steel		
4		structure assets were installed between 1899 and 1939 (70 – 110		
5		years old) and a large population of wood poles were installed		
6		between 1909 and 1985 (25 to 100 years old). A recent evaluation		
7		of the performance of 115kV lines against age demonstrated a		
8		strong correlation between age and decreasing reliability. Hence		
9		increasingly aged populations of overhead line assets present the		
10		Company with a reliability challenge		
11	iv)	whether the line consists of steel or wood structures		
12	v)	risk and criticality i.e. the Line Importance Factor which ranks		
13		lines based upon the consequences of failure and the part the		
14		circuit plays within the integrated transmission system		
15	The fin	nal selection of lines will factor in additional considerations, such as		
16	outage	outage availability, bundling to create economic packages of work,		
17	interac	etion with other strategies and projects, etc. In the early years the		
18	progra	m emphasizes the worst performing circuits, typically 115kV		
19	circuit	s and aims to move transmission in New York to a longer-term (25+		
20	years),	systematic refurbishment approach for all overhead lines.		

The following table IOP-1 lists overhead line refurbishment projects that
are either underway or have been initiated. Along with the list of circuits
we have highlighted their current and previous rank in terms of least
reliable. Seven out of the top ten circuits are included on the list and 16
out of the top 40.

6

7

8

Table IOP-1 Overhead Line refurbishments for the period FY10/11 – FY13/14

Circuit ID	Circuit Name	2009	2008
		Rank	Rank
T1260	Gardenville-Dunkirk 141	2	7
T1270	Gardenville – Dunkirk 142	Double ci	rcuit
		efficiency	
T1530	Lockport - Mortimer 111	3	1
T1280	Gardenville – Homer Hill 152	4	3
T1950	Gardenville – Homer Hill 151	Double ci	rcuit
		efficiency	
T1540	Lockport - Mortimer 113	18	24
T1550	Lockport – Mortimer 114	1	7
T1510	Lockport – Batavia 112	6	5
T5770	Spier – West 9 (also a System Capacity	5	9
	project)		
T3340	Taylorville – Mosier 7	7	8
T1160	Falconer – Homer Hill 153	34	20
T1170	Falconer – Homer Hill 154	16	17
T1340	Homer Hill – Bennett Road 157	11	29
T1660	Niagara – Gardenville 180	31	13
T1780	Niagara – Gardenville 182	32	42
T3320	Taylorville – Boonville 5	15	18
T3330	Taylorville – Boonville 6	Double ci	rcuit
		efficiency	
T1860	Pannell – Geneva 4 / 4A	14	39
T4210	Porter – Rotterdam 31 (bulk)	19	19

9

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Replacing deteriorated assets ahead of failure to maintain or improve reliability for customers is the objective for the overhead line refurbishment program. There are 15 projects over \$2 million within this category including as discussed the refurbishment of many of the "worst performing lines" such as Lockport-Mortimer 111, 113 & 114, Lockport-Batavia 112, Taylorville-Mosier 7, Dunkirk-Falconer 161/162, Gardenville-Dunkirk 141/142 and Gardenville-Homer Hill 151/152 projects. This program will be funded for \$20.2 million in FY11, \$32.4 million in FY12, \$53.4 million in FY13 and \$92 million in FY14, for a total of approximately \$198 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 23. Different project stages will close throughout the program life, with closing occurring 6 months following the expenditure of the funds. Relay Replacement Strategy and Program. This strategy and program is driven by the need to ensure that reliable protective relay systems are in place to preserve the integrity of the transmission system during system faults. Niagara Mohawk's transmission system is protected by approximately 8,000 relays. Approximately 6,500 in-service relays are electro-mechanical or solid state types. Many electro-mechanical and solid state relays are at or near their end-of-life. A replacement plan

targeting the worst performing or obsolete relay families is planned to

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

address this. Protective relays that are functioning properly are essential to a rapid isolation of faults on the system, protecting customers from outages and protecting equipment from damage. The new relays will yield additional operational data that has not been available previously, which will help identify the root causes of system failures and make it easier to prevent reoccurrences. This program will be funded for \$50,000 in FY11, \$1 million in FY12, \$3.8 million in FY13, and \$6.5 million, for a total of \$11.35 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 24. Different project stages will close throughout the program life, with closing occurring 12 months following completion of the work. **RHE Breaker Replacement.** This program includes the replacement of Federal Pacific oil circuit breakers (manufacturer's type code RHE). Due to their key function, the reliability of these circuit breakers is viewed as critical. The Federal Pacific type RHE circuit breakers are in poor condition, have a history of failure, lack adequate spare parts and have experienced mechanism, bushing, and interrupter problems. Equipment failures at high voltages (115kV and above) have the potential to be extremely dangerous, resulting in erratic voltage dissipation and flying debris. In many cases, adjacent equipment is damaged, further increasing the risk of injury and customer outages. The

planned replacement of these circuit breakers reduces the likelihood of an

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

in-service failure. The two projects within this program are "Lighthouse Hill" and "Oneida." This program will be funded for \$0.1 million in FY11, \$0.3 million in FY12 and \$0.5 million in FY13, for a total of \$0.93 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 24.

Shield Wire Strategy and Program. The shield wire is a critical element of a high voltage transmission line. During lightning strikes, the shield wire serves as a grounding element, shielding the lightning strikes away from energized conductors and conveying it to ground without permitting flashover to occur. A well grounded shield wire system significantly reduces the likelihood of an outage due to a lightning strike. In addition to lightning protection, the shield wire provides critical support against the imbalance of mechanical forces in the longitudinal direction. These forces, which can also compromise shield wire protection, can be caused by heavy wind, conductor drop or failure, splice failure, localized wind shear, ice loading (or unloading), structure tilt due to foundation failure or component failure, etc. An intact shield wire system will help minimize structural related outages. A dropped shield wire that goes unnoticed (no outage) creates a major safety concern to the public. The Shield Wire Strategy and Program involves replacement of a significant amount of shield wire on the overhead transmission system. In some

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

instances OPGW ("optical fiber ground wire") will be used during shield wire or overhead line refurbishment projects. With the increasing need for communication bandwidth for SCADA, security and future SmartGrid applications, leveraging existing overhead line infrastructure to provide these communication routes is beneficial. The targeted assets are the shield wire on more than 400 miles of 115kV transmission lines or approximately seven percent of the total 115kV system. In addition to the safety issues, the program is targeting reliability improvements of the 115kV transmission system by reducing the total duration of sustained outages by over 2,000 minutes/year. The largest project in this program is the Gardenville-Homer 151/152 project. This program will be funded for \$8.2 million in FY11 and \$7.2 million in FY12, for a total of approximately \$15.4 million for the period, as indicated in Exhibit ____ (IOP-1), Schedule 8, Sheet 24. Different project stages will close throughout the program life, with closing occurring 6 months following the expenditure of funds. **Substation Rebuild Projects**. There are six stations under study for either upgrades or rebuilds to better meet current and future needs of the transmission system and its users: Gardenville (230/115kV), Dunkirk (230/115kV), Rome (115kV), Lockport (115/12kV), Lighthouse Hill (115/12kV) and Rotterdam (230kV, 115kV, 69kV, 34.5kV and 13.2kV).

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

- At this stage of planning, the six projects are anticipated to cost slightly more than \$139 million in total. Details for these projects are included in Exhibit __ (IOP-1), Schedule 8, Sheet 24.
 - **Gardenville:** The station is a 230/115kV complex south of Buffalo. It has two 115kV stations in close proximity that are referred to respectively as New Gardenville and Old Gardenville, and which both serve regional load. New Gardenville was built between 1959 and 1969 and has asset issues such as faulty control cables, deteriorated foundations and many disconnects have deteriorated beyond repair. Old Gardenville, built in the 1930s, feeds regional load via eleven 115kV lines. The station has serious asset health issues including, but not limited to, control cable, breaker, disconnect and foundation problems. The station has had no major updates since it was built. There have been a number of mis-operations that can be directly attributed to control cable issues in the past several years alone. Because of this, a project has been initiated that addresses these issues by completely rebuilding both 115kV portions of this station. The new 115 kV switchyard will be constructed in the western section of the site and there will be rerouting of approximately twenty 115 kV lines for the project. Project Sanction is expected in the fall of 2011. The

estimated in-service date for this project is reflected in Exhibit ___ (RRP-6), Schedule 1, Sheet 4, line 6.

- Dunkirk: The station is a 230/115kV station located south of Buffalo, and connected to 522MW of generation owned by NRG. The generation at Dunkirk was owned by Niagara Mohawk but sold to NRG. The Company retains ownership of most of the 230kV and 115kV switch yard; however, the controls are located in the generation control room owned by NRG. This station has recently experienced several 230kV mis-operations due to control cable issues. Complete replacement of control cables is not possible due to space constraints in shared areas.
 - Rome: The station was constructed in the early 1920s. It has received several reconfigurations over the years with the current 115kV to 13.2kV dual bus being built in the early 1970s. The 115kV system at the station experiences periods of low voltage particularly if the tie-breaker is opened. Station property near the north bus section has been under environmental remediation the past several years due to a former coke plant at the site that produced natural gas which ultimately contaminated the site. There are multiple asset condition issues affecting the station including the 115kV disconnects being in poor condition and often failing while being operated. The 115kV

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

instrument transformers have weakened foundations, batteries and chargers have failed during bus outages, the control house has asbestos and deteriorated windows and doors and inadequate lighting, and the steel structure for the North bus is heavily corroded with degraded footings.

Lockport: The station is a major 115kV transmission station with thirteen 115 kV transmission lines tying through the east and west bus sections. The overall condition of the station yard and control room is poor. This station was originally part of the 25 cycle system dating back to the 1910s. There is still some 25 cycle oil filled equipment which needs to be drained of oil and removed to avoid possible environmental problems or safety issues. The structures are severely rusted and in need of painting before steel is compromised. Support columns and breaker foundations are in a deteriorated condition and need to be repaired with several potentially needing full replacements. The original manhole and duct system for control cables is in a deteriorated condition and the station has experienced control wire shorts, battery grounds and unwanted circuit opening. The duct bank covers in the yard are bent and rusted and station personnel are hampered to perform repairs by the overall condition of the duct bank. Single control cables cannot be easily removed to replace without

adversely affecting adjacent control cables in the same ducts. The 40 year old 115 kV oil filled breakers exhibit minor exterior rust and oil stains. Three of the 115 kV oil breakers have continued hydraulic mechanism leaks common to the BZO style breakers. Due to their age, failures of hydraulic system components have been notably increasing. Each of the oil breakers has aged bushing Potential Devices which have been another source of failure. Some of the 12 kV secondary breakers, are 1950 vintage and have historic mechanism problems. The control room building is in very poor condition needing painting and the flooring repaired. The existing peeling paint is likely lead contaminated. It is an oversized building with continued maintenance costs regarding the original roof and the intricate brickwork. Much of the old 25 cycle control circuitry is still connected to the DC battery and is a potential source of battery ground problems.

Lighthouse Hill: This station is a significant switching station. It has two 115kV buses and seven transmission lines connecting to the station allowing power to flow from the Oswego generating complex to the Watertown area in the north and the Clay station in Syracuse. In addition, the station provides a direct source of off-site power and black start capability to the Fitzpatrick Nuclear Station. The disconnect switches are in a very poor and hazardous condition, with

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

insulators failing frequently. Most of the oil circuit breakers ("OCBs") are in fair condition, but several are obsolete and would pose a challenge to repair. Seven OCBs are located 200 feet from the Salmon River, which is located below the yard elevation. The station is located approximately one mile up-stream of the New York State wildlife fish hatchery. Although the risk is low, any significant oil spill in the station would have a detrimental environmental impact. Rotterdam: This is a large station with 230kV, 115kV, 69kV, 34.5kV and 13.2kV sections spread out over multiple tiers on a hillside. The 230kV yard is the main supply for Schenectady. Rotterdam is supplied from the Porter Lines #30 and #31 and from Bear Swamp on the E205 line to Massachusetts. There have been three (R23, R24 and R84) catastrophic failures of Federal Pacific Electric RHE breakers at Rotterdam. In addition, two of the three 230kV auto transformers are candidates for replacement (#7 and #8 transformers). Aggregate funding for these six substation projects will be \$2.8 million in FY11, \$8.9 million in FY12, \$58.9 million in FY13, and \$68.7 million in FY14, for a total of \$139.3 million for the rate period, as indicated in

Exhibit __ (IOP-1), Schedule 8, Sheet 24. These funding levels are based

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

on conceptual engineering costs for the work at Gardenville and Rome stations and pre-conceptual cost estimates for the remaining stations.

Transformer Replacement Strategy and Program. The unplanned failure of a transformer can lead to customers being off-supply for long periods of time until the load can be re-switched, or in many instances, until a mobile substation can be delivered and installed. In addition, lead times to replace most power transformers are in the 18 to 24 month range. The scope of this major program includes the replacement of the 39 highest priority transformers based on their condition. Dissolved Gas Analysis ("DGA"), which is a standard and cost-effective condition assessment test, is used to detect anomalous behaviors within transformers which may indicate a developing fault. Transmission transformers are sampled at least annually, with suspected defective units on enhanced sample intervals. Power factor testing of the transformer and their associated bushings and an assessment of the line-tap-changer is performed during routine maintenance. Additional testing such as swept frequency response analysis (SFRA) and winding impedance tests may be recommended if a review of DGA results indicate further analysis is required. Based on the results of these tests a transformer condition score (1 to 4) is produced.

1 Code 4 – under active review to identify the transformer has an 2 internal problem or whether there is a benign reason for the 3 behavior. Code 4 transformers are recommended for replacement within 5 years. 5 Code 3 – units are suspected of having developing internal faults. Code 2 – indicates a transformer belongs to a suspected design 6 7 group, however, there are no known issues. Code 1 – indicates a normal transformer with no known issues. 8 9 10 The condition codes define the requirement to replace or refurbish based 11 solely on the condition of the asset while the replacement priority also 12 includes criticality in terms of safety, environmental or reliability 13 consequences of failure. This distinction recognizes that two assets, both 14 with the same condition code can have different replacement codes 15 because of the consequences of failure. 16 17 The scope includes the transformers (including radiators, fans and pumps), 18 associated civil works, surge arresters and bus connections. This is a pro-19 active end of life management strategy to ensure the overall reliability of 20 the transmission system. It is estimated that the failure of just one average 21 17MVA sized transformer could lead to a loss of power for approximately

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

17,000 residential customers. The prolonged time needed for restoration (either through the installation of a spare or a mobile sub) would translate into millions of customer minutes interrupted. Examples of transformers to be replaced under this project include those at Altamont, Harper, Solvay, Teal and Swan Road. The program will be funded for \$4 million in FY11, and \$7 million each of FY12, FY13 and FY14, for a total of \$25 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 24. The estimated in-service date for this project is reflected in Exhibit (RRP-6), Schedule 1, Sheet 4, line 5. U Series Relay Strategy and Program. The Westinghouse U series line of relays was introduced in the early to mid 1970s, and production and support for these relays ceased in the mid 1980s. Westinghouse U series relays are at or near the end of their useful life and are installed on a number of important 345kV lines. Replacement parts and support for the Westinghouse U Series relays are no longer available,

Westinghouse U series relays are at or near the end of their useful life and are installed on a number of important 345kV lines. Replacement parts and support for the Westinghouse U Series relays are no longer available, making continued maintenance of these devices very difficult. An unrepairable U Series relay could be out-of-service for an extended period of time before a replacement relay can be installed. This program will improve the overall dependability of the protection system. The more modern replacement relays will have the capability of providing fault and operational data which is currently not available. There are four different

projects within this program. The work is necessary to avoid a negative effect on protection schemes, resulting in increased reliability risks to the Bulk Power System. This program will be funded for \$2.3 million in FY11 and \$0.7 million in FY12, for a total of \$3 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheets 24-25.

Steel Tower Strategy. Only one project remains in the steel tower strategy: South Oswego-Lighthouse Hill. Beyond this the overhead line refurbishment program will address longer-term steel tower replacement projects that were previously planned under the steel tower strategy. The remaining project will be funded for \$4.5 million in FY11 and \$0.4 million in FY12, for a total of \$4.9 million for the period, as indicated in Exhibit __(IOP-1), Schedule 8, Sheet 24.

Other Asset Condition

Leeds Static VAR Compensator (SVC). This project is required to address the decreasing reliability of the SVC and obsolescence issues. Leeds SVC, installed in 1987, has shown declining reliability in the last six years. In February 2003, ABB, the manufacturer of the SVC notified the Company that technical support would be discontinued. Some replacement parts for these components are now completely unavailable. The proposed refurbishment work includes the replacement of all SVC

components that are unreliable, have limited or no spare parts availability
or are no longer supported by the manufacturer. An assessment of reactive
power support requirements at Leeds Station was performed in 2005. The
study found that loss of the SVC would de-rate the New York Central to
East ("NYCE") boundary flows by 100 MW. The Company reviewed and
reconfirmed the study in 2006. A 100 MW reduction of the NYCE
capability has the potential to raise wholesale electricity prices for
customers in the Company's eastern service territory, and other electric
customers located east of the NYCE boundary. It would do so by
increasing the number of hours of the year during which the interface
becomes a binding constraint on power flows from lower cost generation
located in Western and Central NY. Since 2000, there have been over 45
documented problems with the SVC, requiring moderate to major
maintenance. These problems have occurred mainly in the protection,
control, trigger pulse and thyristor systems. Many of these incidents have
resulted in unplanned outages of the SVC, some for extended periods of
time. These problems are likely to increase in frequency and severity
going forward, thus resulting in an elevated risk of failure. This
conclusion is also supported by the manufacturer. Doing this project will
reduce the likelihood that the Central-East interface will be de-rated by

100MW. This program will be funded for \$5.9 million in FY11, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 22.

PIW Prospective Projects. In 2009/10 a budgetary reserve item for Problem Identification Worksheets ("PIWs") was introduced into the capital investment plan to recognize that a number of high priority, low cost, capital projects will inevitably arise during the year and that should be undertaken. PIWs are prioritized and engineering solutions for the highest priority are developed within year. Examples include the replacement at Geres Lock of fourteen 115kV manual disconnect switches and the replacement at Harper station of circuit switchers 2023 and 2024. This prospective program is based on historical levels of PIW activity and will be funded for \$1.0 million in FY11, \$1.5 million in both FY12 and FY13, and \$3 million in FY14,, for a total of \$7 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 23.

Transformer Replacement – Packard & Gardenville. In addition to the proposed transformer replacement strategy (discussed previously in the testimony), there are a number of General Electric 230/115kV transformers fitted with LR9 load tap-changers that are known to be in poor condition. Dunkirk transformer bank (TB) 31 failed in October 2007 and was replaced. Four similar transformers manufactured between 1957 and 1958 remain in-service at New Gardenville and Packard

substations. The DGOA analysis on the Packard TB3 indicates an upward trend in combustible gases and the replacement of all four of these transformers is needed.

All four transformers have known condition issues, are categorized as condition 4, and are expected to fail within the next 5 years if stressed. If any one of these transformers failed, securing the Buffalo area network against the loss of a second transformer would require the Company to dispatch local generation. This program will be funded for \$10.15 million in FY11, and \$2.8 million in both FY13 and FY14, for a total of \$15.75 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 23. The estimated in-service date for the New Gardenville TB3 and TB4 under this program is reflected in Exhibit __ (RRP-6), Schedule 1, Sheet 4, Line 15.

Surge Arresters. This program is driven by reliability, safety and the prevention of damage to other equipment during lightning or switching over-voltages. Tests conducted and reported by IEEE suggest that all silicon carbide arresters that have been in service for over 13 years be replaced due to moisture ingress (degradation was evident in 75% of arresters tested). There are approximately 700 surge arresters at 115kV and above installed on the Company's system. Information suggests that

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

up to 79 percent of all surge arresters are the silicon carbide type, with a large volume estimated to be in a state requiring replacement. The Company experiences on average three surge arrester failures each year and the vast majority of the surge arrester failures are of the silicon carbide type. As the arresters are predominately installed on transformers, outage availability will limit this program and therefore replacement will be undertaken during planned maintenance. The failure of a surge arrester can lead to damage to expensive wound equipment such as power transformers during switching or lightning transient over-voltages. This program will be funded for \$0.25 million in FY12, \$2.7 million in FY13, and \$2.6 million in FY14, for a total of \$5.56 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 23. Different project stages will close throughout the program life, with closing occurring 12 months following expenditure of the funds. **Sub-Transmission and Distribution Sub-Transmission Steel Tower Replacement Strategy and Program.** This strategy and program provides an approach to managing more than 3750 of the Company's sub-transmission and distribution steel towers. (Wood poles are addressed in the Inspection and Maintenance strategy.)

This strategy is focused on system sustainability, and is designed to

prevent steel members from deteriorating to the point of structural failure under expected mechanical loading or becoming weak to the point of compromised safety. Several towers have been identified for replacement with additional locations expected. The Sub-Transmission Tower Replacement Strategy is funded at \$0.75 million in FY11, \$2.25 million in FY12, \$3.75 million in FY13, and \$5.25 million in FY14, for a total of \$12 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 20. Different project stages will close throughout the program life, with closing occurring 6 months following expenditure of the funds.

Sub-Transmission System Strategy. This strategy proactively

manages planned refurbishment and or replacement of sub-transmission overhead lines and their associated assets to ensure the sub-transmission system continues to deliver in a safe and reliable manner for the foreseeable future. This strategy is condition based and incorporates information gathered by field inspections, the aerial helicopter patrol performed in 2008 and reliability performance, and is aimed at maintaining the reliability of the sub-transmission system, which provides supply to the majority of the Company's 4.16kV and 4.8kV substations, as well as some 13.8kV substations. The Sub-Transmission System Strategy is funded at \$16 million in FY11, \$18 million in FY12, and \$9.7 million in FY13, for a total of \$43.7 million for the period. Details for these projects

are included in Exhibit __ (IOP-1), Schedule 8, Sheets 20-21. Examples of major projects that are components of the Sub-Transmission System Strategy include:

- Lake Clear Tupper Lake #38 Line Rebuild. The Lake Clear –
 Tupper Lake #38 Line is a 46kV Line 20.3 miles long that feeds 693
 customers and also the Gilpen Bay Substation. Rebuild of the line is
 required to replace deteriorated poles, conductors and insulators
 identified through inspections. Approximately 7.1 miles of 1/0 Cu will
 require re-conductoring. Replacement of deteriorated conductor and
 poles will reduce the risk of customer interruptions in the northern
 Adirondack area. The project is funded at \$1 million in FY11, \$2
 million in FY12, and \$1 million in FY13.
- **Batavia Attica #206 Line Rebuild.** The Batavia Attica #206 line is a 34.5kV line. This project will replace 97 deteriorated structures that require replacement based on inspection results. An additional 38 poles will be relocated due to severe wetland conditions to an adjacent railroad right of way. The project is funded at \$2.5 million in FY11, and \$0.5 million in FY12.
- N. Leroy Attica #208 34.5kV Line Refurbishment. N. Leroy –

 Attica Line #208 is a 34.5kV 21.9 mile long line. The #208 line serves three distribution stations in Genesee County: Attica, Linden and

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Sheppard. Confirmed by a field survey, the Attica - N. Leroy #208 line is in need of significant refurbishment. Numerous poles date back to 1940 and many of the structures are severely decayed. Reliability and safety are the prime drivers for this project. There are 235 of the 526 existing structures in deteriorated condition and need replacement. A small section of the line will be relocated from wetlands. A line inspection report was completed by engineering contractor, TRC. All poles to be replaced were rated 4 out of 5, on the Company's rating scale for wooden transmission poles, with 5 being the worst. The project is funded at \$1.1 million in FY11, and \$1 million in FY12. Battenkill-Cement Mountain-Cambridge #2 Line and #5 Line. This project will refurbish and replace poles on both these 34.5 kV lines and address safety and reliability concerns. The lines are part of a 34.5kV network and supply three hydro generators and five industrial customers. The peak loading on the #2 line is approximately 4.5MWs and the peak loading on the #5 line is approximately 7.3MWs. The poor condition of the pole plant could result in a pole failure that would create a hazard and result in customer outages. This project is funded at \$1.1 million in FY11, and \$1 million in FY12. Rathbun – Labrador #39 34.5kV Line Rebuild. This project will

replace 193 deteriorated single wood pole structures on the Rathbun –

Labrador #39 34.5kV Line. The line is 27 miles long and serves five (5) rural substations south of Syracuse and one radial customer. The primary drivers for this project are safety and reliability: Replacement of these assets will reduce the risk of customer interruptions related to deteriorated equipment; and address the condition of the existing pole plant, much of which is leaning and in a deteriorated state with woodpecker/insect damage, split pole tops, and shell rot. The project is funded at \$1 million in FY11, and \$1 million in FY12.

Gloversville – Canojaharie #6 69kV Refurbishment. Out of 212 structures on this line, 112 will be replaced due to structural inadequacy. Special structure framing specifically designed for this 69kV line will be used, as will an overhead ground wire for all new poles to ensure proper phase spacing, mid-span clearance to ground, and protection over all three phases with a shield wire. Replacing these structures will improve reliability to customers. The project is funded at \$1 million in FY12, and \$1 million in FY13.

Program. This strategy addresses a population of 807 Distribution Power Transformers (primary voltage 69kV and below), and provides both proactive asset replacement of individual units identified by condition and risk, in conjunction with capacity planning requirements, and reactive

1	replacement of transformers which have failed in service. This is
2	performed through:
3	• Ranking substation transformers in terms of asset condition,
4	failure impact and risk,
5	• Identifying the nominal replacement volume of substation
6	power transformers based on installed MVA and best analytical
7	estimates of transformer life expectancy (currently 65 years).
8	The risk/adverse impact of delaying this program includes:
9	• Catastrophic transformer failure resulting in widespread
10	dissemination of oil, possibly burning, and related collateral
11	damage to the station infrastructure and environment,
12	• Unplanned replacement of a failed unit may take several days as
13	opposed hours for a planned replacement,
14	• Contingent failures may cause significant widespread
15	interruptions (sub-transmission and heavily loaded distribution
16	units have high contingent impacts, compared to transmission
17	units).
18	The main driver for this program is the need to address poor condition
19	units. An individual unit that fails may have a significant impact on
20	reliability (up to 355,000 CMI per event) with a SAIDI contribution of up
21	to 0.3 minutes, on average. In addition, lead times for replacement units

may be 6 months to 2 years (current lead time for a 5 MVA transformer is 6 months).

Examples of Distribution Substation Power Transformers being reviewed for replacement and/or re-configuration include: Fisher Avenue Station 27, 34.5-13.8kV, 6.25MVA; Fayetteville, 34.kV-2.4kV, 6.25MVA; French Creek Station, 34.5kV-13.8kV, 3.75MVA; and Chrisler Ave, 34.5kV-4.16k, 3.65MVA. The Distribution Substation Transformer Replacement strategy is funded at \$1.5 million in FY11, \$1.5 million in FY12, \$1.5 million in FY13, and \$2 million in FY14, for a total of \$6.5 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 19.

Substation Circuit Breaker Strategy and Program. This strategy and replacement program targets obsolete and unreliable breaker families. The strategy defines unit condition and a formal spares policy to manage this large asset class. There are approximately 4,100 distribution and sub-transmission substation circuit breakers in this population. The method for managing substation breakers and reclosers consists of periodic maintenance, refurbishment and replacement on condition. Units with obsolete technology, such as air magnetic interruption, have been specifically identified for replacement. Additionally, where cost effective

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

and where their conditions warrant, the opportunity will be taken to bundle work and replace disconnects, control cable and other equipment associated with these circuit breakers. The distribution strategy is funded at \$3.5 million in FY11, \$1.7 million in FY12, \$3.5 million in FY13, and \$7 million in FY14, for a total of \$15.7 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 17. The sub-transmission strategy is funded \$0.3 million in FY12, \$2.6 million in FY13, and \$2.8 million in FY14, for a total of \$5.7 million for the period, as indicated in Exhibit (IOP-1), Schedule 8, Sheet 19. Different project stages will close throughout the program life, with closing occurring 9 months following expenditure of the funds. Substation Metalclad Switchgear Replacement Strategy and **Program.** This strategy replaces switchgear installed prior to 1970 beginning with those metalclad switchgear that have sustained a failure or are of a manufacturer type where a failure has occurred. There are approximately 220 metalclads in service operating at 13.2kV, 4.16kV and 4.8kV. Of these, approximately 70 were installed in the 1960s and 1970s. Several design factors with older vintage metalclad substations contribute to bus failures or component failures. These factors include:

 Moisture Sealing Systems - Moisture and water contribute to most of the failures of metalclad switchgear, substations and

	busses. Gaskets and caulking of enclosures deteriorate over
	time allowing rain and melting snow to enter.
•	Ventilation - Metalclad interiors can reach high temperatures in
	the summer even if ventilation systems are working correctly.
	High temperatures degrade the lubrication in breaker
	mechanisms and other moving parts, and can cause failure of

electronic controls and relays.

Insulation - Voids in insulation, which eventually lead to failure
of the insulation when stressed at high voltages, are apparent in
earlier vintage switchgear.

This Substation Metalclad Replacement Strategy and Program would replace two metalclad substations per year using assessments based on age, manufacturer and conditions as determined by visual and electroacoustic test results. The Altamont and the Market Hill Substations are two distribution locations that have been identified for replacement in FY11. The North Troy Substation and Oneida Substation are two subtransmission locations that have been identified for FY11. The distribution strategy is funded at \$1.2 million in FY11, \$4.8 million in FY12, \$5.0 million in FY13, and \$3 million in FY14, for a total of \$14 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 18. The subtransmission strategy is funded at \$1.25 million in FY11, and \$1.9 million

1 in FY12, for a total of \$3.19 million for the period, as indicated in Exhibit 2 __(IOP-1), Schedule 8, Sheet 20. Different project stages will close 3 throughout the program life, with closing occurring 9 months following 4 expenditure of the funds. 5 **Indoor Substation Strategy and Program.** The purpose of this 6 strategy and program is to review of site locations, determine rebuild 7 options, and rebuild 22 indoor substations located in Buffalo and 6 indoor 8 substations located in Niagara Falls. This refurbishment plan is required to 9 remove safety and equipment failure risks based on asset conditions. 10 These indoor substations were built in the early 1930s and are over 70 11 years old. These stations are 23kV-4.16kV. Key drivers for replacement 12 include: 13 • Safety - The stations have inherent hazards/safety risks due to 14 design and equipment condition and have been the subject of 15 ongoing meetings with represented employees. 16 • Capacity and Loading - The station rebuilds have been driven 17 by issues of station loading and transformer capacity. This has 18 resulted in replacing the existing 2500kVA transformers with 19 3750kVA units at locations already rebuilt. 20 • Asset Condition - The bay 1-3 sections of the Buffalo stations 21 date from 1929 to 1931. Some stations have a 4th bay that was

1 added in the 1940s and 50s. This places equipment ages from 2 50 to 75 years, which is beyond their designed service life, 3 significantly increasing the probability of failure. In addition, 4 obsolete equipment often does not meet current requirements 5 for fault interrupting capability, operating interfaces, and 6 personnel safety. 7 8 Buffalo Station 29, 23, 43, and 52 are currently being rebuilt with 9 completion scheduled at the end of FY11. Buffalo Stations 27, 37, 59, and 10 25 are scheduled for FY12-13. The substation and distribution line 11 strategy is funded at \$8.6 million in FY11, \$13.9 million in FY12, \$17.7 12 million in FY13, and \$17.7 million in FY14, for a total of \$57.9 million 13 for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 18. 14 The 23kV sub-transmission line portion of the strategy is funded at \$0.66 15 million in FY11, \$1.9 million in FY12, \$1.8 million in FY13, and \$1.8 16 million in FY14, for a total of \$6.16 million for the period as indicated in 17 Exhibit __ (IOP-1), Schedule 8, Sheet 20. 18 Distribution Substation Battery Strategy and Program. The 19 intent of this strategy is to replace batteries beyond 20 years old. There 20 are slightly more than 200 distribution batteries systems in Niagara 21 Mohawk distribution substations. The 20 year limit is based on industry

best practice in managing battery systems. Substation batteries and chargers play a significant role in the safe and reliable operation of substations. Batteries and chargers provide DC power for protection, control and communications within the substation and between substations and control centers. This strategy will assist in ensuring battery systems meet current operating requirements and will perform their designed function. Delaying this replacement strategy will lead to control problems in substation operations. The strategy is funded at \$470,000 in FY11, \$160,000 in FY12, \$405,000 in FY13, and \$825,000 in FY14, for a total of \$1.86 million for the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 17.

Primary Underground Cable - Distribution and Sub-

transmission. The distribution and sub-transmission underground cable asset replacement strategy replaces cables that are in poor condition and those identified 60 years or older with known condition issues. Replacing these cables on a planned basis is highly desirable since the work involved often includes civil work. Customers are directly affected by these extended repairs where alternate feeds are not possible or available. Sub-transmission primary cables also provide supply to the many of the 4.16kV and 4.8kV substations and some 13.8kV substations in densely populated areas such as Syracuse, Buffalo, Utica, Albany, and

Schenectady. Examples of distribution cables currently being reviewed
include: Mill St Network Cables in the Central Division; Corliss Park 4kV
Cables in the Eastern Division; and Buffalo Station 27 4kV cables in the
Western Division. Examples of sub-transmission cables currently being
reviewed include: McBride –Brighton #20 and #22 in the Central
Division; Partridge-Avenue A #5 and Riverside to South Mall in the
Eastern Division; and Elm St, Seneca, and Kensington 23kV Underground
Circuits in the Western Division. The Distribution strategy is funded at
\$3.4 million in FY11, \$4.5 million in FY12, \$3.0 million in FY13, and
\$4.5 million in FY14, for a total of \$15.4 million for the period, as
indicated in Exhibit (IOP-1), Schedule 8, Sheet 17. The sub-
transmission strategy is funded at \$3.5 million in FY11, \$6.6 million in
FY12, \$7.8 million in FY13, and \$11.6 million in FY14, for a total of
\$28.7 million for the period, as indicated in Exhibit (IOP-1), Schedule
8, Sheets 19 and 21.
Underground Network Asset Replacement Strategy. The
underground network asset replacement strategy and program targets the
maintenance, monitoring and installation/replacement of: limiters,
transformers, protectors, secondary cables and miscellaneous network
assets. Network systems include aged assets installed in harsh
environments such as manholes and vaults, and require monitoring,

1

2

3

4

7

9

11

17

21

maintenance and replacement to maintain the reliability and physical integrity of the equipment. Though networks generally provide reliable service, when incidents do occur, restoration can end up being very lengthy and costly, with potential to interrupt large numbers if customers 5 due to the high density areas the networks serve. Niagara Mohawk has 6 underground network systems located in Albany, Syracuse, Buffalo, Watertown, Troy, and Utica. 8 The Company has initiated a number of studies to analyze the ability of 10 the secondary network cables to clear during fault conditions as a result of previous network incidents. Load flow studies have also been completed 12 on the Buffalo, Syracuse Ash Street, Syracuse Temple Street, Watertown 13 and Troy networks. All networks will have a load flow study performed. 14 The strategy is funded at \$2.1 million in FY11, \$2.1 million in FY12, \$2.0 15 million in FY13 and \$2.25 million in FY14, for a total of \$8.45 million for 16 the period, as indicated in Exhibit __ (IOP-1), Schedule 8, Sheet 16. 18 Ε. **Non-Infrastructure** 19 Q. Please discuss the investments the Company plans to undertake in the 20 Non-infrastructure category during the period covered by this rate case.

1	A.	In addition to spending on its electric network, the Company also invests a
2		small portion of its investment budget (<1%) in systems and tools that are
3		not specific to the operation of a particular element of the electric system.
4		Examples include security systems, radio systems, test equipment flood
5		protection and substation building repairs that that are required to support
6		the safe and reliable operation of the network. Exhibit (IOP-1),
7		Schedule 7, illustrates the amount the Company plans to spend in the Non-
8		infrastructure category in FY11-FY14.
9		
10	Q.	Please describe some of the major projects and programs that are
11		included in the Company's infrastructure investment plan in the Non-
10		* Constant and a second and a
12		infrastructure category.
13	A.	Below we provide a description of major projects and programs in this
	A.	
13	A.	Below we provide a description of major projects and programs in this
13 14	A.	Below we provide a description of major projects and programs in this category, segregated by portion of the electric system they address.
131415	A.	Below we provide a description of major projects and programs in this category, segregated by portion of the electric system they address. Additional information on these programs is included in Exhibit (IOP-
13 14 15 16	A.	Below we provide a description of major projects and programs in this category, segregated by portion of the electric system they address. Additional information on these programs is included in Exhibit (IOP-
13 14 15 16 17	A.	Below we provide a description of major projects and programs in this category, segregated by portion of the electric system they address. Additional information on these programs is included in Exhibit (IOP-1), Schedule 8, Sheet 26.
13 14 15 16 17	A.	Below we provide a description of major projects and programs in this category, segregated by portion of the electric system they address. Additional information on these programs is included in Exhibit (IOP-1), Schedule 8, Sheet 26. Transmission

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

BPS security strategy arise from deterring and detecting unauthorized access to BPS substations. This program will be funded for \$100,000 in FY11, \$6 million in FY12 and \$3 million in FY13, for a total of \$9.1 million for the period.

Flood Mitigation. Overall the predicted weather changes indicate that the types of heavy rainfall events that have occurred in the Northeast in recent years will become increasingly common, raising the risk of floods and flash floods. Flooding at sites such as Gardenville and Oswego have already occurred as well as sites along the Mohawk River valley (June 2006, St. Johnsville and Inghams). A study of the flooding risk concluded that flooding events were likely to increase. Sites that were classed high risk (or sites where no FEMA Insurance Rate Map existed) were then subject to a more detailed assessment in which the following factors were ascertained i) proximity of the site to water features such as streams, lakes and oceans, ii) proximity to designated FEMA flood zone, iii) elevation of the site above nearby water surface elevation and iv) the reliability of FEMA information e.g. date of maps. From this more comprehensive survey and site visits a small number of sites were identified that had an elevated risk and that measures may be required to reduce the likelihood of flooding. These sites are Adams, where the control room is located 2' below ground level, Amsterdam which has low

lying control panels, Ingahms, Lighthouse Hill which is located in the lee of a dam wall and St. Johnsville which is located next to the Mohawk River. Preventing flooding will result in enormous saving associated with equipment that could otherwise be damaged or destroyed. This project is categorized within the "Other" program and is budgeted at \$3 million; however, the scope and timing of work has not been finalized. This program is currently funded at \$2 million in FY13 and \$1 million in FY14, for a total of \$3 million for the period. These amounts are pre-conceptual level estimates and likely to change during detailed engineering.

Sub-Transmission / Distribution

General Equipment – These blanket programs are for field equipment, tools or specific equipment requirements which have costs are greater than \$200/per unit and are not included in other capital projects. A reserve is also set up to budget for purchases of equipment known to cost more than \$100,000. These reserves are based on historical calculations for specific projects within the category. The driver for this blanket is to enable the purchase of necessary non-infrastructure equipment involved in support of operations. This blanket is funded at \$2.2 million in FY11, \$4.3 million in FY12, in \$4.5 million in FY13, and \$4.6 million in FY14, for a total of \$15.6 million for the period.

1		Distribution – Telecommunications. The driver is to allow for the
2		purchase of non-infrastructure telecommunications related equipment
3		involved in support of operations. This blanket is funded at \$1.0 million in
4		FY11, \$1.1 million in FY12, \$1.1 million in FY13, and \$1.1 million in
5		FY14, for a total of \$4.3 million for the period.
6		
7	Q.	Does the Company's revenue requirement in this case include cost of
8		removal ("COR") associated with the capital investment plan?
9	A.	Yes. In addition to the capital costs discussed above, there is a level of
10		COR required to implement the Company's infrastructure investment plan
11		presented in this case. As reflected in Exhibit (RRP-6), Schedule 1, Sheet
12		5 of the Revenue Requirements Panel, the Company anticipates projected
13		Cost of Removal (COR) of approximately \$18.7 million for the last six
14		months of FY10, \$38.3 million in FY11, \$46.6 million in FY12, \$51.9
15		million in FY13 and \$54.9 million in FY14.
16		
17	Q.	What type of activities does the Company associate with 'Cost of
18		Removal'?
19	A.	The Company defines removal as any work on existing assets that results
20		in said asset being removed from the asset inventory, whether or not a
21		different asset is subsequently added in its place. This type of work would

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

include, but is not limited to, all the activities associated with the disconnection, removal and disposal of high voltage items of equipment such as circuit breakers and transformers; disconnection, removal and disposal of secondary items of equipment such as relays and control equipment; removal and/or demolition of foundations; disconnection, removal and disposal of insulator strings; removal of wood poles or steel structures; and disconnection and removal of shield wire. Q. Please explain the basis for the projected COR increases for the rate vears? A. COR is estimated using recent historical experience as an indicator of the likely level of future expenditure. A ratio of actual COR to infrastructure investment for distribution, transmission and sub-transmission, typically over a period of the last three years, is calculated. The resulting percentages are applied to the amount of infrastructure investment that is projected to be spent in each category and this derives the COR amount over the planning horizon. F. **Annual Budget Process** Q. Please provide a brief summary of how the Company developed its budget for the infrastructure plan?

1	A.	we provide a orier description of the Company's budgeting process here.
2		However, as discussed previously, the Company also addresses the
3		management audit report recommendations, including those related to the
4		budget process, in the implementation plan included with Mr. Zschokke's
5		testimony in this case.
6		
7		Each year, the Company develops an Annual Work Plan designed to
8		achieve the overriding performance objectives of the business unit (safety,
9		reliability, efficiency, and environmental performance). At the outset, the
10		Annual Work Plan represents a compilation of proposed spending for
11		programs and individual capital projects. Programs and projects are
12		categorized by spending category: i.e., Statutory/Regulatory,
13		Damage/Failure, System Capacity and Performance and Asset Condition.
14		The proposed spending forecasts for each program or project include the
15		latest cost estimates for in-progress projects as well as initial estimates for
16		newly proposed projects.
17		
18		In order to optimize the plan budget and resources, a risk score is assigned
19		to each project. The project risk score is generated by a project decision
20		support matrix that assigns a project risk score based upon the estimated
21		probability and consequence of a particular system event occurring. The

project risk score takes into account key performance areas such as safety,
reliability and environmental, while also accounting for criticality.
Historical and forward looking checks are made by spending rationale to
identify any deviations from expected or historical trends.
All mandatory programs and projects known at this time are included in
the plan. Mandatory programs and projects (i.e., Statutory/Regulatory and
Damage/Failure spending rationales) include FERC bulk power system
requirements, new customer and generator connections, regulatory
commitments, public requirements that necessitate the relocation or
removal of our facilities, safety and environmental compliance, and
system integrity projects such as response to damage/failure and storms.
Once the mandatory budget level has been established, programs and
projects in the other categories (i.e., System Capacity and Performance
and Asset Condition spending rationales) are reviewed for inclusion into
the plan. Plan inclusion/exclusion for any give project is based on several
different factors including, but not limited to: project new or in-progress
status, risk score, scalability, and resource availability. In addition, when
it can be accomplished, the bundling of work and/or projects is analyzed
to optimize the total cost and outage planning. The objective is to

establish an optimized capital portfolio that optimizes investments in the system based upon the measure of risk or improvement opportunity associated with a project.

The portfolio, along with supporting risk analyses, is presented to the Company's senior executives and ultimately the Board for review and approval. The budget amount is approved on the basis that it provides the resources necessary to meet the business objectives set for that year.

Company management is responsible to manage to the approved budget.

A.

Q. Why does the Company modify or adjust its budgets?

From an overall perspective, the Company's objective is to arrive at a capital budget that is the optimal balance in terms of making the investments necessary to maintain and improve the performance of the system for customers, while also ensuring a cost-effective use of the Company's available resources. Because of the time horizon over which the Company must budget its infrastructure investments, there are inevitable changes in budgets and project estimates over time. Such changes may be due to changes in project scope, changing material or resource costs, or changing customer needs, or a more refined estimate based on where the project is in its development.

1	Q.	At what stage in the project evolution process are the projects that are
2		included in the Company's infrastructure investment plan presented
3		in this case?
4	A.	The plan presented in this case represents the Company's best information
5		on the investments it will need to make in order to sustain the safe, reliable
6		operation of the electric system. As described above, many of the projects
7		are already in-process or soon to be in process. Estimates for those
8		projects are quite refined. Other projects are at earlier stages in the project
9		evolution process. The budgets for those projects are accordingly less
10		refined, and are more susceptible to changes in scope and budget.
11		
12		Typically, projects to be delivered in the near term are more firm in their
13		cost estimates than out-year projects. In addition, project estimates may
14		vary based on where they are in the project evolution stage. That is,
15		project estimates that go into developing the Company's infrastructure
16		investment budget become more refined as they progress from the
17		initiation stage to the delivery stage. The plan is continuously reviewed,
18		following approval and during the current year, for changes in
19		assumptions, constraints, as well as project delays, accelerations, outage
20		coordination, permitting/licensing/agency approvals, and system
21		operations, performance, safety, and customer driven needs that arise. The

1		plan is updated accordingly throughout the current year. A graphical
2		depiction of this "project evolution" process is included in Exhibit
3		(IOP-4).
4		
5		Initial estimates, prepared during project development, have a margin of
6		error of plus or minus fifty percent. This is the wide end of the funnel.
7		The margin of error grows progressively smaller as project development
8		proceeds and the engineering scope and cost estimates are refined and
9		subsequently finalized at Project Sanction. This is the narrow end of the
10		funnel. Thus, by process, estimates made at the early stage of a project
11		have no bearing on the efficient delivery of a project post project
12		sanctioning
13		
14		Project risks are now identified and managed earlier in the process and
15		these project risks include variation in permitting times, field conditions
16		that are different from what initial field reviews highlighted (particularly
17		with respect to underground/civil work), and the availability of outages
18		from NYISO.
19		
20	Q.	Are there other approval processes that are conducted in relation to
21		the annual budget?

1 A. Yes. As stated above, the result of the budgeting process is the approval 2 of a total dollar amount for capital spending in the budget year. In 3 addition to this planning and budgeting process, specific approval must be 4 obtained for any Strategy, program or project within the Annual Work 5 Plan. Approval is obtained through a "delegation of authority," or 6 "DOA," requirement prior to proceeding with project work including 7 engineering and construction. Each project must receive the appropriate 8 level of management authorization via a Project Sanction Paper prior to 9 start of any work. Approval authority is administered in accordance with 10 the Company's DOA governance. 11 12 0. What is included in Project Sanction Papers you mentioned above. 13 A. Projects with projected scope and costs above established thresholds must 14 be presented as appropriate to management. Projects presented must be 15 accompanied by a detailed Project Sanction Paper ("PSP") for approval. 16 The PSP must include a written summary of various major factors that are 17 considered in any decision to allow the project, including: 18 Project Background, Description and Drivers: These sections

19

20

the need for its completion.

provide a high-level overview of the project and the factors driving

1		• <u>Business Issues, Options Analysis</u> : This section provides a
2		summary of the business issues involved in the project. The
3		options analysis discusses other potential courses of action
4		including the impacts of a "do nothing" strategy.
5		• <u>Financial Impact and Cost Summary</u> : This section provides an
6		economic analysis of the proposed project. The nature of the
7		economic analysis differs depending on the nature of the project.
8		• <u>Investment Recovery</u> : This section evaluates any factors relating
9		to the recovery of the investment.
10		• <u>Project Schedule, Milestones and Implementation Plan</u> : This
11		section describes any timing implications and start-up schedules.
12		
13		Once an approved project is completed, the project sponsor is responsible
14		for preparing closure papers, which present information on a number of
15		factors including a discussion of whether and to what extent project
16		deliverables were achieved and lessons learned as a result of project
17		implementation.
18		
19	Q.	What is the process for re-sanctioning capital projects?
20	A.	Capital projects are authorized with either a conceptual or project-grade
21		estimate following preliminary engineering. Reauthorization is required in

the project cost is expected to exceed the estimate plus the variance range identified in the PSP. The reauthorization request must include presentation of the original authorization, the variance amount, the reasons for the variance and the details and costs of the variance drivers, as well as the estimated impact on the current year's spending. Project reauthorizations above established thresholds require re-approval. Project spending is monitored monthly against authorized levels by the project management and program management groups. Exception reports covering actual or forecasted project spending greater than authorized amounts are presented and reviewed monthly. Significant projects also require re-sanctioning if the project completion date is delayed more than three months beyond the approved date.

A.

Q. How does the Company's plan provide for unbudgeted, or "walk-in," projects?

The Company includes certain Reserve line items in its Spending Plan, by budget category, to allocate funds for projects whose scope and timing have not yet been determined. In such cases, historical trends are used to develop the appropriate reserve levels. As the specific project details become available, "walk-in" projects are added to the plan with funding drawn from the reserve funds. The majority of projects that are "walked-

in," are the result of in-year occurrences in mandatory project categories such as damaged or failed equipment, customer or generator requirements or regulatory mandates. Reserve funds are also established for high priority risk score projects that are may arise during the current year in response to unforeseen system reliability or loading concerns. The Company tracks and manages budgetary reserves and walk-ins as part of its investment planning and current-year spending management processes. The recent Management Audit report released on Niagara Mohawk criticized the Company's cost estimation performance. How can the Company be confident that its capital portfolio reflects projects delivered in a quality manner given the Management Audit findings? A. As indicated in its response to the management audit report, the Company found the management audit process to be helpful in identifying areas for potential improvement of its systems and processes in order to perform more efficiently and effectively going forward. Steps the Company is taking to address the final recommendations are described in the implementation plan that is included with Mr. Zschokke's testimony, including measures to improve project estimating performance.

20

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

O.

Notwithstanding the importance of sound estimating, the Company does not believe that inaccurate project cost estimates would, by themselves, affect the Company's delivery of projects in a high quality manner. First, projects are identified using a risk-based approach (as described previously), which is independent of estimating accuracy. As projects progress, and additional scope, resources, duration, and scheduling information becomes available, the project estimate is refined.

A.

Q. What steps is the Company taking to address the Management Audit recommendations regarding estimation?

One of the Company's major initiatives in this area is the creation of the Estimating Center of Excellence (ECoE). The ECoE was established to enable the groups and individuals responsible for project estimates to perform this task with greater consistency and accuracy. The ECoE is charged with identifying and implementing the process improvement that will overcome deficiencies in project cost estimating. The ECoE will establish and maintain the Company's actual cost data base and estimating proficiency through the use of appropriate estimating software, user training, process documentation, and continuous performance monitoring. The successful results of these efforts will provide the infrastructure investment plan with high quality, accurate cost estimates.

The ECoE has defined the process by which project estimates mature as the need date for the defined work advances. Estimates will progress through a series of accuracy grades over the project's development timeline. The estimating software chosen for use by the ECoE, has the flexibility to modify the assumed values and estimating units as the project scope is progressively defined. This enables the estimator to effectively use the tool to furnish the investment plan with increasingly accurate cost estimates.

The software tool was configured and uploaded with Distribution and Transmission line and substation estimating units, based upon the knowledge of experienced designers and project managers. As part of its charter of responsibilities the ECoE will provide routine updates to the estimating units and underlying assumptions. Some of these revisions will result from the continuous monitoring of the actual tolerance achieved by the different grades of estimates. The ECoE will act to identify causes for those variances that have been detected and initiate the corrections to estimating units/processes/etc. as required.

1		G. <u>Delivering the Investment Plan</u>
2	Q.	Please describe how the Company will deliver the proposed
3		infrastructure investment plan over the course of the rate plan.
4	A.	Historically, the Company has delivered its construction plan through a
5		variety of arrangements. However, the business environment in which the
6		Company delivers its capital program is changing. Through optimization
7		of its internal workforce and contracting arrangements, the Company can
8		realize sustainable value for customers through cost-effective, reliable, and
9		improved capital plan delivery.
10		
11		The Company's portfolio of construction delivery resources include:
12		• Distribution Alliance Contracts;
13		• Transmission Regional Delivery Ventures (RDVs);
14		• Enhanced Internal Construction Capabilities;
15		• Traditional "project-by-project" competitive bidding; and
16		• "Turn-Key" Engineer, Procure, and Construct (EPC) events for
17		specialized installations.
18		
19	Q.	Could you describe the mix of construction resources you refer to?
20	A.	Distribution Alliance Contracts

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Following a year-long competitive procurement event, Harlan (a subsidiary of Myr Group) was selected to deliver Niagara Mohawk's distribution line construction program under a fixed-price unit rate agreement over a three-year contract period (with an option to extend 2 years). The reduced unit and tendering costs resulting from the aggregated bid process are already factored into the Company's investment plan amounts for the rate plan period. In addition to these competitively bid units, the Company anticipates additional benefits related to reduced tendering timeframe, improved scheduling, and a stable workforce with increased safety, customer, and standards training. Harlan's performance will be evaluated against its unit costs, workload delivery, and agreed Key Performance Indicators (KPIs). For each project, Harlan and Niagara Mohawk jointly complete a constructability review to agree to project scope, units, and schedule. A Work Request will be executed to document these delivery criteria and the workplan agreed to efficiently deliver the work. To further incentivize performance and improved customer value, Harlan is subject to a KPI scorecard focused on Safety and Environment, Quality, Delivery, and People performance measures. The release of work in subsequent years is dependent on

satisfactory performance against these criteria to ensure acceptable costs

1 and workload delivery performance. The Alliance contracts do not 2 guarantee a minimum volume of work, nor are they exclusive 3 arrangements. 4 5 Transmission Regional Delivery Ventures (RDVs) 6 The Company is improving its delivery of the infrastructure investment 7 plan via the introduction of the Transmission Regional Delivery Venture 8 (RDV). This RDV will operate under a long-term contract arrangement 9 (i.e., 5-year, with an option for 3 more years) that includes the integrated 10 provision of detailed design, project management and construction 11 services to deliver an assigned portion of the Company's capital 12 investment program. The RDV contract includes comprehensive "full 13 open book" audit rights. The contract does not guarantee a minimum 14 volume of work or exclusivity. 15 16 The selected RDV, entitled Northeast Power Alliance (NEPA), is a joint 17 venture comprised of AMEC, Michels Corp, and Vanderweil Engineers. 18 Assignment of project work to NEPA, has resulted in a baseline savings of 19 \$60 million for Niagara Mohawk and this has already been removed from 20 the 5-year capital plan. These savings include a combination of the 21 reduced unit costs and fees resulting from the competitive RDV

procurement event plus reduced tendering costs and improved scheduling.
Another included benefit is an insurance premium savings by direct
sourcing the Transmission portfolio to the insurance market for OCIP
(Owner Coordinated Insurance Program) versus traditional insurance
coverage. To leverage its buying power, the Company supplies all plant
materials to the RDV except for consumable items.
To further incentivize performance and improved customer value, the
RDVs are also subject to a KPI scorecard focused on Safety and
Environment, Quality, Delivery, and People performance measures. The
KPIs ensure efficiency is not at the expense of performance by putting the
RDVs' share of any efficiency "gain" at risk, subject to meeting certain
KPI performance.
Enhanced Internal Construction Capabilities
The Company continues to enhance its own internal transmission and
distribution construction capabilities in order to perform a portion of the
capital program. For the past two years, a dedicated workforce of 30
substation and 30 transmission line workers have been performing
construction work on the both the transmission line and substation assets.
Additionally, a Distribution Line Construction Pilot (DLC) has been

undertaken to create a competitive framework for in-house crews
comprised of 56 line workers to perform distribution construction line
work typically performed by contractors in the past. Pilot development
began in October 2009, with pilot implementation targeted for April 1,
2010 through April 1, 2011. These new construction capabilities enable an
internal workforce, dedicated to capital construction, to perform a larger
portion of the infrastructure investment program while providing for
greater visibility of and comparison to the value of work delivered by the
external market, enabling benchmarking opportunities to drive further
value.
Traditional "project-by-project" competitive bidding
The Company will continue to periodically employ the contracting model
where contractors are selected on a competitive bid, project-by-project
basis where applicable to enable the Company to deliver niche services or
competitively-priced projects based on specific market conditions.
"Turn-Key" Engineer, Procure, and Construct (EPC) events for
specialized installations.
The Company will continue to utilize a "turn key" model where complex
and specialized equipment is being installed.

1	Q.	Why has the Company chosen to perform a portion of the
2		infrastructure investment work presented in this rate case using the
3		RDV mechanism rather than the traditional process of selecting
4		contractors for projects on the basis of competitive bids?
5	A.	One of the primary value drivers of the Company's RDV model is the
6		development of long-term, integrated supplier relationships aimed at
7		capturing the value of negotiating a large portfolio of work. Aggregation
8		of the volume of work through a single Procurement Event with multiple
9		bidding entities allows for increased competitive prices and schedule
10		improvements through reduced procurement time and program/resource
11		optimization. The integrated RDV model, which includes detailed design,
12		project management and construction services, optimizes design
13		efficiencies and construction delivery through end-to-end accountability
14		and constructability focus. In addition, the Company, like other utilities
15		across the country, is faced with substantially increasing capital
16		investment requirements. These requirements cannot be effectively met
17		by increases in internal staffing or use of traditional contracting resources
18		alone. Further, given the anticipated increase in infrastructure spending
19		throughout the country, it is reasonable to expect that skilled engineers,
20		designers and craft workers could be in short supply during the plan
21		period. By entering into long-term arrangements with qualified partners,

the Company is able to secure and retain highly skilled personnel and construction equipment needed to deliver on the investment plan. The contracted entities are familiar with the region and are capable of working in accordance with company standards, and have the capacity to work on multiple related or similar projects.

A.

Q. How will the RDV target costing process generate value for

customers?

The target cost incentive mechanism encourages the Company and the RDV to generate efficiencies through improved risk management and by equally sharing the difference between the project target cost and the actual costs at project completion. Thus, if actual project costs are below the target costs, the RDV has an opportunity to receive up to 50 percent of the difference between the actual and target costs in the form of a gain share. Likewise, if actual costs exceed target costs, the RDV would receive 50 percent of the amount by which the target is exceeded. Future projects benefit fully from the efficiencies as the unit costs are reduced year on year in line with the reductions in actual cost, known as "cost ratcheting".

Q. Could you please describe what "core team costs" are?

1 A. Yes. Core Team Costs are RDV management and infrastructure costs that 2 are assessed annually pursuant to the RDV contracts. There are two 3 elements to the RDV Core Team Costs: Core Team Project Specific costs 4 (project-specific costs directly charged to specific projects); and Core 5 Team Overhead (non-project specific resources and costs; allocated on the 6 basis of established allocators). Core Team project specific costs cover 7 the RDV's Project Planning and Preliminary Engineering resources that 8 are providing assistance to the Company to develop specific work 9 proposals and target costs. Non-project-specific resources support and 10 manage the RDV work in the project planning and preliminary 11 engineering, final design, project execution and project closeout stages for 12 work being carried out by the RDV in the year. The RDV submits Core 13 Team invoices to the Company every two weeks that cover the RDV's 14 actual costs, applicable fee, and certain tax expense. Following review by 15 the Company, RDV costs are recorded as either O&M charges or capital. 16 Capital costs are allocated to individual projects. A further description of 17 how the costs are reflected in the revenue requirement is set forth in the 18 testimony of the Revenue Requirements Panel. 19 20 Q. Is the Panel aware of other instances where the RDV contracting 21 model has been used successfully?

1	A.	Yes. In the United States, the American Transmission Company ("ATC")
2		has successfully used a similar alliance contracting strategy for the past 3
3		years on its \$2.5 billion, 10-year program of work. This alliance contract
4		has recently been competitively renewed with MJ Electric for a further 4
5		years and a second alliance, replacing the remainder of ATC's project
6		work, has been awarded to Henkels and McCoy. MJ Electric has quoted
7		savings of between 6 and 12 percent each year for work performed in
8		2007-2009, when compared to other methods of delivering the work.
9		
10		National Grid has also used the long term collaborative approach
11		successfully in the UK. National Grid's Gas Alliance arrangement in the
12		UK produced an 18 percent reduction in costs over the first three years it
13		was in place when compared to costs under the prior contracting regime.
14		Likewise, National Grid's UK East Overhead Electricity Alliance has
15		experienced cost reductions of 18 percent in 2007/08 and 3.7 percent in
16		2008/09 on over \$150 million of annual spend compared to the previous
17		models employed.
18		
19		H. <u>In-Service Dates Reflected in Revenue Requirements</u>
20	Q.	What is the effect of the in-service date of a project on the Company's
21		revenue requirements?

1 A. The Revenue Requirements Panel addresses this issue in greater depth, but
2 in summary, the in-service date of a project determines when a project is
3 reflected in the Company's rate base for purposes of affecting the revenue
4 requirements.

A.

Q. Could you explain how the Company determined the in-service dates you describe above?

Yes. First, it is the Company's objective to establish in-service dates that accurately reflect the estimated actual in-service date. The ability to accurately estimate in-service dates for large projects that are already underway and near completion is obviously greater than for projects that have not commenced and are further out in time. Smaller projects are subject to other considerations when estimating in-service dates. In the case of small projects (which may be more prone to schedule shifts for operational efficiency/bundling or other reasons), or programs comprised of recurring projects that are put in-service throughout the year, it is more difficult to predict definitive in-service dates. Therefore, in developing the in-service dates reflected in this case, the Company estimates actual inservice dates for very large projects (i.e., those with estimated costs greater than \$15 million). For programs and projects budgeted at less than \$15 million, the Company used in-service dates determined pursuant to

accounting closing rules applicable to the type of project or program. Thus, amounts for construction work in progress ("CWIP") and capital expenditure cash flows forecasted from CWIP were estimated to go into service in the month following the applicable period under the closing rule. The relevant closing rule periods were determined based on a historical analysis of CWIP and plant closings. Sample closing periods used by the Company include: transmission substations—12-months; distribution substations—9 months; transmission lines—6 months; distribution lines and street lighting—3 months; meters and line transformers—1 month. For example, assuming a projected expenditure of \$100,000 in January related to a distribution line capital project, such expenditure would be deemed closed to plant in-service in the month following the closing rule period, or April. I. **Additional Projects** The Company's plan includes recovery of costs associated with projects identified as "Luther Forest," "Tri-Lakes" and "Hydro

14

15

1

2

3

4

5

6

7

8

9

10

11

12

13

Q. The Company's plan includes recovery of costs associated with projects identified as "Luther Forest," "Tri-Lakes" and "Hydro One." Would you please discuss these projects and how they are reflected in the Company's investment plans?

Luther Forest

2 A. Luther Forest Technology Campus (LFTC) is a 1350 acre industrial park 3 located in Saratoga County. The LFTC is being built by the Luther Forest 4 Technology Campus Economic Development Corporation (LFTCEDC) to 5 attract computer chip manufacturing facilities. The new LFTC Park will 6 include 115kV transmission capability to serve the computer chip 7 fabrication facilities. LFTCEDC is currently engineering, purchasing 8 material, and constructing the following facilities: (1) four 115kV 9 transmission circuits; (2) a transition station (Stonebreak Road) which 10 would allow two of the four 115kV lines to transition from underground to 11 overhead; and (3) a 115kV "Luther Forest" switching station. The design 12 and facilities being developed by LFTCEDC are intended to provide 13 highly reliable, redundant service to customers with a need for such high 14 reliability. Nanotechnology computer chip manufacturers, because of the 15 processes they use, often require such high reliability service.

16

17

19

20

21

1

Q. What is the Company's interest in the facilities being built by

18 **LFTCDC?**

A. The facilities being constructed by LFTCEDC would interconnect directly to the Company's existing transmission system. In addition to enabling service to be provided to computer chip manufacturing facilities in the

LFTC, the newly constructed facilities will become part of the integrated network transmission system. Therefore, once the facilities are constructed, it is anticipated that their ownership will be transferred to the Company, and the Company would own, operate and maintain the facilities going forward. During discussions with FERC staff on a related engineering, permitting and construction services agreement, FERC staff suggested that FERC might have jurisdiction over elements of the transfer agreement, which would require FERC review of the transfer agreement.

A.

Q. At what price will the facilities be transferred to the Company?

The cost of the transmission facilities being developed by LFTCEDC is estimated to be approximately \$57 million, and is being paid primarily through New York State grant funds, and not being paid by the end use customer or customers. The facilities are being constructed to provide extremely reliable, redundant service considered vital to attract nanotechnology computer chip manufacturers to the newly developed LFTC, which contributes significantly to the estimated \$57 million cost. It is the intention of LFTCEDC and the Company that once completed; the facilities would be transferred to the Company for \$1. The assets would be put on the Company's books at that amount, and the corresponding effect on the Company's rate base would be negligible. However, because

of the FERC's potential jurisdictional authority, that agency's
determination on the transfer is also expected to determine if the cost of
the facilities can be directly allocated to a single developer, which in this
case is LFTCEDC. Although the Company and LFTCEDC have agreed to
the transfer at \$1, and the unique circumstances of the situation justify the
contemplated \$1 transfer price (e.g., facility designs in excess of the
Company's standard design in order to satisfy the unique needs of
nanotechnology computer chip manufacturers, construction in advance of
firm end-use customer commitments, development intended for New York
State economic development purposes funded through State grants), there
is uncertainty whether FERC will authorize the transfer at \$1. Therefore,
the Company's rate base forecast in this case reflects the value of the
facilities to be received from LFTCEDC at \$57 million in the event that
the FERC approves the transfer, but directs the cost of the facilities to be
funded by all of the Company's customers. The Company believes there
is a reasonable basis for FERC authorizing the transfer under the terms
agreed to by the Company and LFTCEDC. However, due to the unclear
FERC precedent, the Company's rate base forecast reflects the full amount
of the estimated market price of the assets (\$57 million). Once the final
transfer price is established, the Company will notify the PSC and make
necessary and appropriate adjustments to its books of account, and will

1		reflect corresponding changes in the revenue requirement. The Electric
2		Delivery Adjustment Mechanism ("EDAM") is the mechanism by which
3		an adjustment would occur. The EDAM is described in the testimony of
4		the Revenue Requirements Panel.
5		
6	Q.	What is the timing of the anticipated transfer of assets?
7	A.	The project schedule is largely in the control of the LFTCEDC and its
8		contractors. We anticipate that the transfer and energizing of the facilities
9		will take place some time before March 2012. For ratemaking purposes,
10		the Company has reflected the \$57 million payment in March 2012.
11		
12	Q,	Is the \$57 million cost reflected in the Company's infrastructure
13		investment budgets that the Panel described previously?
14	A.	The \$57 million payment amount is not reflected in the Company's
15		infrastructure investment plan described previously; however, the payment
16		is reflected in the Company's revenue requirements calculations as
17		described above.
18		
19	Q.	Are there other facilities being developed in the area of the LFTC that
20		relate to that project?

1 A. Yes. In addition to the specific facilities investments being developed by 2 LFTCEDC, additional investment is needed to upgrade seven substations 3 with new high speed relay and communication equipment required for 4 nanotechnology manufacturing. The addition of two new 115kV breakers 5 at Battenkill substation and the expansion of Malta substation to 6 accommodate a new underground cable are being constructed by 7 LFTCEDC. The upgrades on the Company's existing system are to 8 accommodate the new LFTC interconnection at a cost of approximately \$9 9 million.

10

11

12

13

14

15

16

17

18

19

20

21

A.

Q. Are the costs associated with these connection upgrades reflected in the Company's infrastructure investment forecast?

Yes they are. Although the need to upgrade the interconnection facilities results from the need to accommodate the new LFTC facilities, it is appropriate to include these costs in the Company's investment plan and rate base because these facilities are part of the existing interconnected system and they provide benefits to both Niagara Mohawk and its customers. First these upgrades are replacing older electromechanical relays that are obsolete. In addition, the upgrades will include communication equipment that will provide high speed protection allowing the system to remove faults much faster than with current

protection schemes. Removing faults from the system faster provides higher power quality in the area by reducing the voltage dips caused by faults. It also can reduce the stress on existing high voltage electrical equipment in the area potentially extending the life of equipment such as transformers and cables that are exposed to the fault currents.

6

7

8

9

LFTC project?

1

2

3

4

5

Q. Could you please describe how the Northeast Regional Reinforcement Project ("NRRP"), described earlier in your testimony, relates to the

21

Yes. As mentioned previously, the NRRP was developed based on a comprehensive assessment of the reliability needs of the northeast region of the state. This assessment considered load growth, reliability needs and asset conditions in the region, and the resultant project elements address these factors. The NRRP was developed independent of and without consideration of the LFTC project, and then refined to insure compatibility with the LFTC project. As a result, the NRRP does not include elements intended to specifically interconnect the LFTC project. However, because the anticipated new customer load at the LFTC will increase area demand sooner than anticipated in prior studies, some portions of the NRRP will be accelerated and constructed earlier than initially envisioned. Therefore, while the overall design and level of investment relating to the NRRP is

not significantly affected by the LFTC project, the timing of the construction of certain portions of the NRP will be accelerated.

3

4

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

A.

1

2

Tri-Lakes

5 Q. Please describe the "Tri-Lakes" project.

Niagara Mohawk provides electric transmission service to several communities within the Adirondack Park. Rapidly increasing load growth in the Villages of Lake Placid, Tupper Lake and the surrounding area (referred to as the "Tri-Lakes area") in the late 1990s and early part of this decade placed increasing load on the electric assets in this region. The 115 kV and 46 kV transmission system assets serving the Tri-Lakes area are radial and the systems and the customers they serve are exposed to extreme weather and serious consequences exist if extended outages occur (e.g., some of the communities rely extensively on electric space heat). In addition, Niagara Mohawk uses its assets in the Tri-Lakes area to serve its retail customers; and, the New York Power Authority ("NYPA") relies on the Company's transmission facilities for the commodity service it provides to its wholesale municipal customers, Lake Placid and Tupper Lake. To improve the reliability of the system and ultimately improve the service to Niagara Mohawk and NYPA customers, both parties entered into an agreement to construct two new Static VAR Compensators (SVC),

1		a 46kV SVC located at Tupper Lake, and an 115kV SVC located at Lake
2		Colby. In addition to the voltage support facilities, the project included
3		the construction of a new 46kV line from the Townline Substation to the
4		Piercefield Substation.
5		
6	Q.	What are the commercial arrangements relating to the Tri-Lakes
7		project?
8	A.	Under the agreement reached between NYPA, the Company, the Village
9		of Lake Placid and the Village of Tupper Lake on September 15, 2004,
10		and revised October 24, 2006, NYPA agreed to own, finance and hold title
11		to all of the facilities constructed until January 1, 2012 when the Company
12		was expected to enter into a new rate plan. The construction of the new
13		facilities has been completed and are now in service, and providing
14		customers with enhanced reliability. The Company is proposing to
15		purchase the assets from NYPA on January 1, 2011, one year earlier than
16		anticipated, to coincide with the timing of the new rate plan and intent of
17		the Tri-Lakes agreement.
18		
19	Q.	What is the financial effect of moving the buy-back up one year?
20	A.	The earlier purchase would reduce the "buy back" price of the facilities by
21		\$2.0 million. In addition to reducing the overall buy back cost, purchasing

1		the assets early would also reduce the risk of litigation of the contract in
2		the event of unforeseen circumstances which could occur, such as injury
3		or damage of equipment.
4		
5	Q,	Is the \$35 million payment for the Tri-Lakes project reflected in the
6		Company's infrastructure investment budgets that the Panel
7		described previously?
8	A.	The \$35 million payment amount is not reflected in the Company's
9		infrastructure investment plan described previously; however, the payment
10		is reflected in the Company's revenue requirements calculations as
11		described above.
12		
13		Hydro One
14	Q.	Please describe the "Hydro One" project.
15	A.	The Hydro One project relates to the replacement of a large transformer in
16		which the Company has a direct interest. The Beck-Packard No. 76
17		Regulating Transformer ("BP76 Transformer"), which is owned by Hydro
18		One and is located at Beck substation in Ontario, Canada, suffered a
19		catastrophic internal fault on January 30, 2008. Hydro One conducted a
20		rigorous post fault analysis and determined the asset could not be repaired,
21		and would need to be replaced. The replacement costs of the transformer

1		are projected to be approximately \$9 million; actual cost will be dependent
2		on the exchange rate at the time of purchase. The transformer regulates
3		the flows on the Beck – Packard No. 76 line, and the line can not be
4		placed back into operation without the regulating transformer in service.
5		
6	Q.	What is the Company's interest regarding the BP76 Regulating
7		Transformer?
8	A.	The Company and Hydro One have an Interconnection Facilities
9		Agreement which manages the operation of the International Tie-line
10		(Beck – Packard No. 76) and institutes the concept of an "Asset Owners'
11		Committee" of which both Hydro One and the Company are members.
12		The Asset Owners' Committee is required to agree prior to making many
13		decisions which affect the tie-line including performing extraordinary
14		maintenance or replacement of the BP76 Transformer. If the Asset
15		Owners Committee agrees to replacement of, or perform extraordinary
16		maintenance on, the BP76 Transformer, costs would be shared equally
17		between the parties.
18		
19	Q.	Has the Company determined whether it makes economic sense to
20		replace the transformer?

A. Yes. The availability of the Beck – Packard No. 76 tie-line can have significant economic implications on the region when combined with major outages. For instance, based on an economic analysis done by the New York ISO, if the transformer is not replaced and is combined with 5 345kV outages on the NYPA system, this would cause an estimated \$44 -6 \$78 million in congestion in the market. Based on the existing New York ISO tariff, Niagara Mohawk customers would contribute approximately \$8.8 - \$15.6 million to the congestion shortfall and all other New York customers would contribute the remaining \$35.2 - \$62.4 million. Based 10 on the value to the Company's customers and the benefits to the region, the Company proposes to share the transformer replacement costs with 12 Hydro One.

13

14

15

16

17

18

19

20

21

A.

1

2

3

4

7

8

9

11

Q. What is the timing of the transformer purchase and proposed cost recovery?

Hydro One has recently advised the Company that it intends to order the replacement transformer once it receives notice of agreement to share the costs of the new transformer. The Company intends to make payment for its share of the transformer to Hydro One (currently estimated at approximately \$4.5 million). To mitigate the impact on rates and provide reasonable rate stability, the Company proposes to amortize the

1 transformer payment over three years, from the date of payment. The 2 accounting treatment for inclusion of the Hydro One costs in the revenue 3 requirements is described in the testimony of the Revenue Requirements 4 Panel. 5 6 J. **Comparison to Prior Infrastructure Investment Plans** 7 Q. How do the levels of proposed infrastructure investment in this case 8 compare to prior and current investment levels? 9 A. The Company's currently effective base rates were established pursuant to 10 the Merger Joint Proposal ("MJP") approved by the PSC in Case 01-M-11 0075. These currently effective rates reflect an annual capital investment 12 plan budget of approximately \$143 million. 13 14 Coincident with experiencing declining reliability performance associated, 15 in large part, from diminished performance of deteriorating assets reaching 16 the end of their useful lives, the Company undertook reviews of the 17 condition of its system and its assets, and has for several years been 18 investing pursuant to the asset management approach in an effort to 19 address the findings of those reviews. Those investments have been at 20 levels far in excess of the investment levels provided in current rates.

1 As a result of reliability issues raised in the National Grid/KeySpan 2 merger proceeding (Case No. 06-M-0878), the Company was directed by 3 the Commission to invest at least \$1.47 billion over five years in the 4 Upstate New York electric system--an amount significantly greater than 5 what is reflected in current rates. 6 7 Under the \$1.47 billion investment requirement, the Company was to 8 invest \$255 million in FY07, \$275 million in FY08, and \$301 in FY09. 9 Actual investment for this period has been \$279 million in FY07, \$284 10 million in FY08, and \$318 million in FY09. 11 12 0. Please explain why the Company has been investing at a pace even 13 higher than the \$1.47 billion requirement. 14 A. As explained in the October 22, 2007 Capital Investment Plan filing, while 15 the Company committed to spend a minimum of \$1.47 billion on 16 transmission and distribution infrastructure, we also outlined a plan where 17 capital spending necessary to attain the reliability metrics set for the 18 Company would require \$2.4 billion in investment. The expanded plan 19 promotes the long-term reliability and sustainability of the network, and is 20 in the best interest of customers. However, to date the Company has 21 exceeded the \$1.47 billion level. This additional investment and the

1		investment outlined in this rate filing is the minimum necessary to meet
2		mandatory obligations and near-term reliability without unacceptably
3		increasing risk.
4		
5	Q.	How do the proposed investment levels for the rate plan period
6		compare to prior planned investment levels the Company has
7		submitted to the Commission?
8	A.	The infrastructure investment plan present in this case is significantly
9		reduced from the investment plan submitted last year. That plan totaled
10		\$3.57 billion for the 5-year period FY2010 to FY2014. In its most recent
11		five-year plan (filed the same day as this rate case), the Company
12		describes an investment plan that totals \$2.86 billion (\$2.95 billion with
13		inclusion of Luther Forest Technology Campus and Tri-Lakes projects)
14		for the five-year period FY2011 to FY2015.
15		
16	Q.	Why is the investment plan presented in this rate case lower than the
17		investment level submitted to the Commission last January?
18	A.	The Company's infrastructure investment planning process provides for
19		on-going and continuous evaluation and refinement to reflect changed
20		circumstances and new information. Thus, we are continually adjusting
21		the plan to meet the needs of current and future customers in the most

effective way possible. The current economic conditions facing our customers and the Commission's calls for austerity measures by utilities required identifying opportunities to defer or minimize spending where possible, consistent with our obligation to provide safe and reliable service. Thus, the infrastructure investment plan reflected in this case is designed to mitigate rate impacts on customers while also managing the near-term reliable performance of the system.

K. System Planning

- Q. The management audit report included several recommendations relative to system planning. Could you provide a brief summary of the Company's system planning process?
- A. Yes. As discussed previously, the Company's plans to implement the audit report recommendations, including those related to system planning, are described in the implementation plan included with Mr. Zschokke's testimony, in this case. However, in general, the Company's system planning process integrates two types of system assessment. The first type is system capacity planning, in which the ability of the Company's assets to handle customer loads and power flows is studied, extending out to a planning horizon 10-15 years in the future. Modeling programs are used to represent present and future conditions, for a variety of normal and

contingency conditions. The models calculate power flows, voltages, dynamic performance, and fault currents. The modeling results are compared with planning standards and criteria to identify potential noncompliance situations. These assessments also address interconnection requests from customers, and ensure compliance with NPCC and NERC standards and criteria. They will generally lead to investments in the system in the Statutory/Regulatory or System Capacity and Performance categories of our investment plan.

The second type is an assessment of the physical condition and performance of the assets. This assessment yields important information about which assets should be given priority for replacement or refurbishment and considers factors such as degree and rate of deterioration, performance, criticality and the age the assets. Additionally, these assessments will look to improve reliability performance through the refurbishment or installation of new equipment such as reclosers or sectionalizing switches. Ensuring safety of both the public and employees, reliability of supply to customers, and protecting the environment are goals of this process. As discussed previously in detail, these assessments are done are in a number of ways including ongoing inspection and maintenance activities and targeted condition assessments.

1	These assessments can lead to investment in System Capacity and
2	Performance and Asset Condition categories of our investment plan.
3	
4	Both types of assessment are performed for all of the Company's electrical
5	assets at all voltage levels, including transmission, sub-transmission, and
6	distribution. To ensure that capital resources are utilized as efficiently as
7	possible, the Company's planning process requires that asset condition
8	planning and system capacity planning be coordinated with each other.
9	Early in the process, both asset condition needs and system capacity needs
10	in each area under study are identified and considered. Wherever
11	appropriate, capital projects are sequenced and designed to address both
12	types of system needs.
13	
14	Niagara Mohawk's transmission system is extensively interconnected with
15	the systems of other utilities in the Northeast U.S. To a more limited
16	extent, there are also distribution interconnections. Full consideration is
17	given to the effects of neighboring systems on the Company's system, and
18	to the effects of Niagara Mohawk's plans on its neighbors. The Company
19	participates in the planning processes of the NPCC and the NYISO, as
20	well as other interregional planning initiatives.
21	

1		L. <u>Capital Investment Reconciliation Mechanism</u>
2	Q.	Is the Company proposing a mechanism to reconcile its actual capital
3		expenditures with the level of capital recovery authorized in the rates
4		approved by the Commission?
5	A.	Yes. The Company is proposing to track its actual annual capital
6		investment expenditures, including those associated with third party
7		actions, against the target capital budget authorized by the Commission in
8		this case, and to reconcile the difference annually.
9		
10	Q.	Why does the Company believe it needs a capital tracker?
11	A.	The Company has a commitment to provide safe, reliable,
12		environmentally sound service at a reasonable cost to customers. As
13		discussed previously, the need for investment in the Company's
14		infrastructure is significant and is increasing, and the infrastructure
15		investment budget and associated O&M costs presented in this case are
16		substantial. A tracker would protect customers in two ways. First, it
17		would ensure that customers pay the appropriate amount. To the extent
18		that actual investment falls short of the level forecasted by the Company,
19		customers would receive a rate credit. Second, however, the proposed
20		budgets in this case have been reduced from optimum levels in order to
21		mitigate rate impacts on customers in light of the economic downturn,

while still enabling the Company to sustain reliability over the near-term. Establishing a limited tracker (capped at 10 percent of the approved annual budget level) will provide the Company with necessary flexibility to respond to unforeseen circumstances that may warrant significant capital investments that are in the best interest of customers. It would eliminate any disincentive to do the right thing on behalf of customers due to the lack of a rate mechanism to recover such prudently incurred costs during the rate plan period in order to provide service.

In addition, due to the interconnected nature of the New York transmission system, as Transmission Owners ("TO") replace or upgrade aging infrastructure and make reliability improvements on their systems, projects can have spillover effects on neighboring systems, not all of which are known and measurable by the Company at this time. For instance, in order for one utility's project to be put into service, the completion of related upgrades on a neighboring system may be required. If another utility's activities trigger investment needs or unanticipated reliability upgrade investments on the Company's system, and it is appropriate to put the costs of these unanticipated upgrades into the Company's rate base (because they provide benefits to the Company's own customers), the proposed tracker mechanism would provide for

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

Q.

A.

V.

Q.

management.

recovery. Conversely, to the extent it is appropriate that the Company enter into an agreement to fund upgrades on a neighboring utility system arising from the Company's investments (e.g., if it is not appropriate for the neighboring utility to put the costs into its own rate base), the proposed tracker mechanism would provide for recovery of those costs. The tracker mechanism is designed to provide flexibility and ensure timely recovery of costs associated with the spillover effect of neighboring TO's investment plans, and to enable required investments to proceed without delay. In light of the fact that the Company does not have control over spillover effect of neighboring TO's investment plans, we are proposing a limited exception to the 10 percent cap as explained in the testimony of the Revenue Requirements Panel. How would the capital tracking mechanism work? The design and mechanics of the reconciling capital investment tracker are set forth in the testimony of the Revenue Requirements Panel. Facilities, Properties and other Capital Investments and Lease Costs Please provide an overview of the Company's approach to property

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

A. The Company's property-management strategy is designed to meet customer service needs effectively and efficiently. In conjunction with the merger with KeySpan, the Company reviewed of all of its property holdings and those of the former KeySpan organization to consider the potential benefits to be achieved from consolidations and other improvements in the way in which the companies manage their facilities and deliver services to customers. As a result of that review, the Company determined that closing certain facilities and consolidating operations into others would achieve long term cost reductions and improve the efficiency with which it serves its customers. The Company also seeks to reflect its environmental commitment in the design and selection of its locations. The plans described below provide potential cost savings by reducing the number of facilities the Company operates, and provide an opportunity to increase workforce productivity through co-locating employees who perform related functions together and changing the manner in which its workspaces are utilized. However, perhaps more important is that the facilities plans described below are critical and integral elements of the Company's broader Transformation initiatives we discussed previously, that are being undertaken to deliver even further benefits for customers. To that end, this testimony focuses on the Company's proposed property

1		related capital and lease expense changes related to facilities for the rate
2		plan years.
3		
4	Q.	What parameters does the Company take into account in its review of
5		its facilities?
6	A.	The Company reviews its properties on an ongoing basis to ensure they
7		continue to serve its customers effectively and efficiently. In undertaking
8		any review, the Company looks at customer response, proximity to
9		planned work, anticipated growth, opportunities to co-locate functions,
10		and financial costs and benefits including: ongoing operating costs,
11		anticipated capital investment and potential disposition proceeds.
12		Through this economic and qualitative analysis, the Company has initiated
13		property consolidations and respective investments that will achieve long-
14		term benefits to its customers.
15		
16	Q.	You indicated that the Company's efforts to consolidate facilities
17		include a focus on integrating business teams. How is this reflected in
18		the Company's decision-making process for consolidating facilities?
19	A.	In addition to considering economic factors as part of the property
20		consolidation process, the Company considers several qualitative criteria
21		to guide its decision-making process:

1		 Office workers should be consolidated into as few locations as
2		possible;
3		• Large, end-to-end processes should be physically co-located in a
4		single facility, where possible;
5		Managers should be located with their manager or work group
6		when possible, preferably both;
7		• Critical infrastructure facilities should be in fewer locations;
8		• There should be no more than one office or workstation per
9		employee; and
10		• Lower-cost facilities and low-cost, off-site storage should be
11		utilized to the maximum extent possible.
12		Although we describe these as "qualitative" criteria, they obviously have a
13		significant impact on the efficiency and effectiveness with which the
14		Company delivers service to customers, and, therefore, ultimately do have
15		a financial impact.
16		
17	Q.	Please provide an overview of the kinds of facilities the Company uses
18		to provide service to its customers.
19	A.	The Company's Property Services group oversees the maintenance and
20		operation of 55 occupied locations: a main office location at Syracuse
21		(approx. 467,000 sq. ft), six specialty/non-operating sites including

1		warehouses and an airport hangar (155,000 sq. ft), and 48 operating sites
2		(approximately 2,213,000 sq. ft) which house its physical work force, fleet
3		operations, warehouse and other field support groups.
4		
5	Q.	Please describe the Company's facilities-related capital investments
6		reflected in the revenue requirements in this rate case.
7	A.	The levels of planned capital investments in properties and facilities are
8		set forth in Exhibit (RRP-6), Schedule 1, Sheet 4, of the Revenue
9		Requirements Panel's testimony, and are approximately \$36.4 million in
10		FY11, \$32.4 million in FY12, and \$4.4 million in each of FY13 and FY14.
11		These capital investment amounts include a base level of spend in each of
12		the years in the rate plan period (\$3.9 million in FY 2011, and \$4.4 million
13		in each of FY12 - FY14), as well as investments associated with seven
14		specific major facilities projects. These seven projects are: (1) the
15		Syracuse Office Complex ("SOC") façade; (2) the SOC interior
16		renovation; (3) the North Albany Renovation; (4) the Henry Clay
17		Boulevard ("HCB") Control Center Consolidation; and separate
18		consolidation projects in (5) the Saratoga area; (6) the Syracuse area; and
19		(7) the Buffalo area.
20		
21	Q.	Please describe the basis for the baseline facilities capital dollars.

1 A. The baseline facilities capital expenditures are allocated for capital 2 projects associated with the maintenance of facility assets. The capital 3 projects are comprised of projects that are designed to enhance the safety, 4 security and infrastructure at facilities. The majority of safety related 5 projects are made up of upgrades to life safety systems within facilities. 6 For example, numerous facilities require upgrades to the fire alarm 7 systems to provide adequate warning for employees in the event of a fire. 8 Pavement replacement projects also fall into the safety category of spend. 9 The pavement at many of our facilities has exceeded its useful life. 10 Significant cracking and potholes have lead to dangerous conditions for 11 our employees. Uneven walking surfaces can lead to slips, trips and falls 12 particularly in the winter months when these areas tend to accumulate 13 water and form ice. 14 15 Infrastructure improvement projects are intended to replace or enhance the 16 life of an existing asset. Such projects include, but are not limited to, roof 17 replacements, HVAC replacements, system upgrades and electrical 18 upgrades within a facility. Many of the roofs across the system have 19 exceeded their useful life with some over 50 years old. Leaking roofs can 20 lead to water damage within facilities including the potential for mold 21 growth. Many HVAC units have also exceeded their useful life and

1 require replacement because many of the parts required to repair the units 2 are no longer available and in many instances it is more economical to 3 replace a unit than to make repairs. 4 5 Security projects intended to enhance the security at our buildings 6 including, fencing, gates, card readers and video surveillance equipment 7 are also included in the asset maintain category. 8 9 0. How are the baseline capital expenditure estimates derived? 10 A. The baseline capital expenditure level is based on historical levels of 11 spend as outlined in Exhibit__ (IOP-5), Schedule 1. 12 13 Q. How were the capital estimates for the larger projects included in the 14 Company's facilities plan developed? 15 A. Initially, the Company uses historical data on its own projects or similar 16 projects undertaken in other regions of its business. Preliminary estimates 17 may be developed using external commercially available estimating firms. 18 As a project evolves from conceptual to preliminary to the detail design 19 phase, the Company will employ outside architects, engineering firms, 20 specialist contractors or general contractors to develop and refine the 21 details and scope of work. In any procurement of an outsider service, the

1		Company's property team will follow the appropriate procurement
2		procedures to ensure the most cost effective services are obtained for its
3		customers and business.
4		
5	Q.	Please describe the Syracuse Office Complex façade project.
6	A.	The Syracuse Office Complex ("SOC") main building is one of the finest
7		examples of art deco architecture in Upstate New York. Completed in
8		1932, the building has been a source of civic pride for many decades. The
9		ongoing SOC façade project involves replacement of multiple roofs,
10		including limited stone replacement. Work on upper level exterior
11		windows and building front, and stone work to address weather and water
12		damage, is also included.
13		
14	Q.	What are the benefits of the SOC façade project?
15	A.	This building is over seventy years old and such reconstruction is often
16		required. The benefit of this work is safety related as certain stone pieces
17		have dislodged, and, within the building, the Company has been
18		experiencing various water leaks and interior damage. The work began in
19		2009 and is ongoing and anticipated to be completed by December of
20		2011.

1	Q.	What costs are reflected in the Company's plan for the SOC facade
2		project?
3	A.	The budgeted costs for the remaining work to complete the SOC façade
4		renovations are reflected in Exhibit (IOP-5), Schedule 2. The project
5		totals \$8 million for the period February 2007 through December 2013, of
6		which \$6.8 million is allocated to electric and \$1.2 million to gas. All of
7		the costs associated with the SOC project are reflected as capital costs.
8		
9	Q.	Please describe the Syracuse Office Complex interior renovations
10		project.
11	A.	As part of its overall property strategy, the Company affirmed its
12		commitment to maintain the Syracuse Office as one its main offices. The
13		ongoing renovations are to accommodate business consolidation related to
14		support of the TDC (Transaction Delivery Center) referenced in Mr.
15		Andrew Sloey's testimony and Transformation initiatives which are
16		described in other parts of this testimony and will allow an expansion from
17		1,530 occupants to 2,100 occupants at completion. Some of the
18		renovations were begun in 2008 and 2009, but will be done on a more
19		broad scale in 2010 and 2011. The project includes room
20		reconfigurations, new office equipment, office areas, seating and walkway
21		area renovations, paint, carpet, and furniture replacement and

1 reconfiguration. The work is ongoing and anticipated to be completed by 2 August 2011. A reduction of expenses will result from the expiration and 3 non-renewal of the "E" building lease (2011) at the SOC. In addition, the 4 parking lease for an area near the SOC expires in CY 2013 and will not be 5 renewed resulting in additional savings. Both leases and corresponding 6 reductions are reflected in the Company's revenue requirement. 7 8 Q. What benefits are achieved from the SOC interior renovation 9 project? 10 A. The Company is consolidating certain functions as well as establishing a 11 new Transaction Delivery Center which will result in improved service 12 delivery to customers, and improve the overall efficiency of its work 13 practices. The investment is also good for the local community by 14 solidifying the Company's presence in Syracuse. 15 16 Q. What costs are reflected in the Company's plan for the SOC interior renovations project? 17 18 A. The budgeted costs for the remaining work to complete the SOC interior 19 renovations are listed in Exhibit (IOP-5), Schedule 2, and total \$20 20 million covering the period October 2009 through December 2013 of 21 which \$17 million is allocated to electric and \$3 million to gas. All of the

costs associated with the SOC interior renovations project are reflected as capital costs.

3

4

1

2

- Q. Please describe the Henry Clay Boulevard Control Center
- 5 ("HCBCC") project.
- A. The Company currently has three electric distribution control centers in

 New York: one in Buffalo, another in Liverpool and a third in

 Guilderland. The Company proposes to consolidate the three control

 centers into a single, centralized control center in Liverpool.

10

11

Q. Why is the Company proposing to consolidate its control centers?

12 A. The objective of the consolidation is to improve operational performance 13 across the Company. This would be achieved by developing new roles, 14 responsibilities and work flow segments that are aligned with a newly 15 designed control room. The new control room would take advantage of 16 industry best practices and new systems, visual displays, versatile control 17 room consoles, more accurate outage reporting, standardized outage 18 restoration practices, process standardization, and improved operator 19 training at one central location. The overall goal is to provide control 20 room employees with new tools that result in better situational awareness 21 and decision making in the management of the distribution system.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

Control center consolidation will also yield efficiency and operational improvements. For example, centralizing the management of storm response in a consolidated control center in Liverpool reduces the number of times field offices need to be opened to support the dispatch and assignment of outage calls associated with small and medium scale events, and enables more effective use of clerical and design personnel that have been centralized in Syracuse at the Syracuse Office Complex. A consolidated control center will also bring together highly technical personnel in an environment that fosters the sharing of best practices and provides a consistent means of managing and operating the distribution system. In addition, the consolidated control center will work in conjunction with a similarly consolidated control center in Northborough, Massachusetts. The implementation of the same technologies used by personnel within both centers will allow for the sharing of best practices and the ability to 'back each other up' in the event of an evacuation of a control center or to provide additional personnel to assist customer restoration in response to a major event.

I	Q.	When is the control center consolidation planned to take place and
2		what costs are associated with the project?
3	A.	The Company plans to start construction on the consolidation in
4		September 2010, with a target completion date of May 2012, and
5		estimated capital costs of \$13.5 million. Of the total amount, \$11,475,000
6		is allocated to electric and \$2,025,000 to gas. In addition, approximately
7		\$100,000 would be incurred in 2010 in preparatory work.
8		
9	Q.	Please describe the Syracuse area project.
9 10	Q. A.	Please describe the Syracuse area project. The Syracuse area project also involves the Henry Clay Boulevard (HCB)
10		The Syracuse area project also involves the Henry Clay Boulevard (HCB)
10 11		The Syracuse area project also involves the Henry Clay Boulevard (HCB) site. The Syracuse area project will support renovation and consolidation
10 11 12		The Syracuse area project also involves the Henry Clay Boulevard (HCB) site. The Syracuse area project will support renovation and consolidation of operating locations resulting in improved efficiency. The Company
10 11 12 13		The Syracuse area project also involves the Henry Clay Boulevard (HCB) site. The Syracuse area project will support renovation and consolidation of operating locations resulting in improved efficiency. The Company intends to close its leased facility at Beacon North in Syracuse and

completed in March 2011, will include renovations and building new facilities to accommodate movement in personnel, vehicles and material to HCB to accommodate a consolidation of electric and gas personnel at the site including crew rooms, meeting areas, storage, warehousing, yard and

Syracuse area project, scheduled to commence in April 2010 and to be

16

17

18

19

20

21

parking.

Q.	What benefits are anticipated by consolidation of operation sites in
	the Syracuse area?
	The Beacon North facility is leased and represents a significant ongoing
	operating cost to the Company. With its closure, these costs will be
	eliminated. The Company will see reductions in annual operating
	expenses including maintenance, janitorial, landscape, snow removal plus
	avoid capital investment. Further, the Company expects to gain improved
	workforce efficiencies, including improved training opportunities where a
	large concentration of its physical workforce will now have close
	proximity to training facilities.
Q.	What costs are reflected in the Company's plan for the Syracuse area
	project?
A.	The costs for outstanding work to complete the Syracuse area project are
	listed in Exhibit (IOP-5), Schedule 2, and total \$10.0 million covering
	the period January 2010 through December 2013 of which \$8.5 million is
	allocated to electric and \$1.5 million to gas. All of the costs associated
	with the Syracuse area project are reflected as capital costs.
Q.	Please describe the North Albany renovation project.
	Q. A.

A. The North Albany renovations are to accommodate office needs for identified consolidation opportunities for the Company's operating facilities in the Capital region. The Company intends to consolidate its two Troy, New York locations and a single site at Glenmont, New York into its existing North Albany facility. A small crew facility will be maintained in the Troy area to ensure adequate response times for customers east of Troy. The North Albany project will improve utilization of shared facilities such as warehousing, yard and meeting space. The renovations will include required fit-outs, parking improvements, room renovations, storage upgrades, locker facilities, and utilities as required. The plans for the renovations are currently under development and may also include exterior work as needed. The renovations are scheduled to start in December 2009 and are anticipated to be completed by August of 2011.

A.

Q. What are the benefits of the North Albany consolidation project?

The benefits from the North Albany project include: reductions in annual operation expenses such as maintenance, janitorial, landscape, snow removal; avoided capital maintenance, and property tax savings from the closure of the Troy and Glenmont sites. The Company expects to gain improved workforce efficiencies including: improved training

1 opportunities, more flexibility to schedule work over a broader area, 2 improved utilization and sustained or improved service to customers 3 through the integration of its crews. The Company will also undertake 4 improvements to its warehousing and materials storage practices, as well 5 as environmental remediation work at the same time to ensure efficient scheduling of work and spending on this project. Finally, sale or lease of 6 7 the Troy and Glenmont sites may produce proceeds on disposition. 8 9 Q. What costs are reflected in the Company's plan for the North Albany 10 renovations project? 11 A. The costs for outstanding work to complete the North Albany project are 12 listed in Exhibit __ (IOP-5), Schedule 2, and total \$8.25 million covering 13 the period from October 2009 through December 2013 of which 14 \$7,012,500 is allocated to electric and \$1,237,500 to gas. All of the costs 15 associated with the North Albany project are reflected as capital costs. 16 Please describe the Saratoga area project. 17 0. 18 A. The Company currently occupies two leased facilities, one at Weibel 19 Avenue in Saratoga and another in Glens Falls. The Company's lease for 20 the Weibel Ave location was not extended by the landlord beyond the 21 current term (which ends October 2011) and the Company needs to

1		replace this location. The project will renovate or build a new operating
2		location in the Saratoga area. The Saratoga area project is scheduled to
3		commence in August 2010 and be completed by November 2011, and will
4		include consolidating some personnel from the Glens Falls location.
5		
6	Q.	What are the benefits of the Saratoga area project?
7	A.	The Company has enjoyed the benefit of its relatively low cost, leased
8		facility at Weibel Avenue in Saratoga to service this area. The Company
9		does not have the option to extend its terms beyond October, 2011. With a
10		strong continuing need to serve its electric and gas customers in the area,
11		the Company must replace this facility location to ensure continued safe
12		and efficient service its customers, alignment to its business model and
13		flexibility to meet anticipated future growth.
14		
15	Q.	What costs are reflected in the Company's plan for the Saratoga area
16		project?
17	A.	The costs to complete the Saratoga area project are listed in Exhibit
18		(IOP-5), Schedule 2, and total \$10 million covering the period from
19		January 2010 through December 2013 of which \$8.5 million is allocated
20		to electric and \$1.5 million to gas. All of the costs associated with the
21		Saratoga area project are reflected as capital costs.

1	Q.	Please describe the Buffalo area project.
---	----	---

2 A. The Buffalo area project will involve closing the Company owned 3 Tonawanda facility and consolidating the operations and personnel there 4 into existing Company owned facilities at Dewey, Kensington and Niagara 5 Falls. The project will include all necessary renovations to the Dewey, 6 Kensington and Niagara Falls facilities to accommodate consolidation of 7 the Tonawanda operations, including fit-outs to accommodate people and 8 equipment. The work is scheduled to commence in June 2010 and to be 9 completed in November 2010.

10

11

12

13

14

15

16

17

18

19

20

A.

Q. What are the benefits to be achieved from the proposed consolidations of the Buffalo area project?

The benefits achieved by the Buffalo area project include reductions in annual operation expense such as maintenance, janitorial, landscape, snow removal as well as avoided capital improvements and property tax savings through closure of the Tonawanda site. Further, the Company expects to gain improved workforce efficiencies, including improved training opportunities, more flexibility to schedule work over a broader area, improved utilization and sustained or improved service to customers through the integration of its crews. In addition, the Tonawanda site will

1		be marketed for sale or lease which will result in potential disposition
2		proceeds.
3		
4	Q.	What costs are reflected in the Company's plan for the Buffalo area
5		project?
6	A.	The costs for outstanding work to complete the Buffalo area project are
7		listed in Exhibit (IOP-5), Schedule 2, hereto and total \$2.0 million
8		covering the period January 2010 through December 2013 all of which is
9		allocated to electric. All of the costs associated with the Buffalo area
10		project are reflected as capital costs.
11		
12	Q.	Please describe the new facility at Reservoir Woods and its benefit to
13		the Company's customers.
13		
14	A.	Early in the process of the integration of KeySpan and National Grid,
	A.	• •
14	A.	Early in the process of the integration of KeySpan and National Grid,
14 15	A.	Early in the process of the integration of KeySpan and National Grid, National Grid determined to consolidate its main office space to support
141516	A.	Early in the process of the integration of KeySpan and National Grid, National Grid determined to consolidate its main office space to support its customers. After considering leasing or purchasing space at a number
14151617	A.	Early in the process of the integration of KeySpan and National Grid, National Grid determined to consolidate its main office space to support its customers. After considering leasing or purchasing space at a number of locations, National Grid decided to lease a new facility at Reservoir
1415161718	A. Q.	Early in the process of the integration of KeySpan and National Grid, National Grid determined to consolidate its main office space to support its customers. After considering leasing or purchasing space at a number of locations, National Grid decided to lease a new facility at Reservoir
141516171819		Early in the process of the integration of KeySpan and National Grid, National Grid determined to consolidate its main office space to support its customers. After considering leasing or purchasing space at a number of locations, National Grid decided to lease a new facility at Reservoir Woods located in Waltham, Massachusetts.

1	A.	The Reservoir Woods facility provides shared services functions such as
2		general corporate support, human resources, legal, and regulatory as well
3		as functions related to the New York transmission and distribution electric
4		system including:
5		Distribution and Transmission Asset Management- management of
6		strategic objectives relating to New York transmission and
7		distribution assets, network performance and business targets for
8		New York;
9		Capital Program Management – managing programmatic type of
10		work and developing resource allocation plans;
11		Project and Construction Management - management of the New
12		York based project managers;
13		Operations and Maintenance – management of the New York
14		divisions for O&M and
15		Operations Performance Reporting - network performance
16		reporting, circuit event analysis, control centers policies, systems
17		and operational objectives.
18		
19	Q.	How are the costs associated with the Reservoir Woods facility
20		reflected in the Company's revenue requirements in this case?

1	A.	Niagara Mohawk's portion of the costs of the Reservoir Woods facility is
2		reflected in the Revenue Requirements Panel's Exhibit (RRP-2),
3		Schedule 8.
4		
5	Q.	Are there any other facility closures reflected in the Company's rate
6		year filing?
7	A.	Yes, the Star Lake facility has been closed and its lease will not be
8		renewed. Similarly, a leased facility at Federal Street in Saratoga, has
9		already been closed. Reductions in lease expense of \$5,500 and \$165,000
10		per year respectively are reflected in the Company's revenue requirements
11		for the rate plan years.
12		
13	Q.	Please describe the capital investment of \$0.6 million per year related
14		to fleet services, inventory management and investment recovery.
15	A.	For the rate plan period, Fleet Services plans annual capital expenditures
16		of approximately \$0.4 million for items such as: diagnostic
17		software/hardware, Hetra columns, lift replacements, fuel pump upgrades,
18		cabinets, tool boxes, and other miscellaneous garage tools and equipment.
19		The Company also projects annual capital expenditures of approximately
20		\$0.2 million in the inventory management and investment recovery areas

1		relating to things such as hand held devices and "carousel software,"
2		which are used extensively for warehouse tracking materials of materials.
3		
4	VI.	<u>Information System Investments</u>
5	Q.	Is the Company proposing any information system ("IS") investments
6		that affect electric system infrastructure or operations?
7	A,	Yes. As reflected in Exhibit (IOP-6), the Company is implementing
8		several such IS initiatives that affect the Company's electric infrastructure
9		and operations, resulting in IS expense that is incremental to the historic
10		test year of \$1.5 million in CY 2011, \$2.1 million in CY 2012, and \$6.5
11		million in CY 2013. In addition, the Company will be implementing a
12		new Energy Management System ("EMS"), which will include a capital
13		investment of \$20.1 million over the period FY11-FY14.
14		
15	Q.	Please describe some of the major electric infrastructure and
16		operations IS initiatives the Company will be implementing.
17	A.	The most significant IS projects affecting electric operations are the
18		Distribution Management System and Outage Management System, the
19		Mobile – Electric Distribution Grid Mobile Expansion, the Transformation
20		Key Performance Indicator ("KPI"), and the Radio Console
21		Standardization projects.

Q. Describe the Distribution Management System and Ou	utage
---	-------

2	Management	Systam	project
<u> </u>	Management	System	project

A.	The Distribution Management System (DMS) and Outage Management
	System (OMS) project will offer several significant benefits to Niagara
	Mohawk customers. First, the version of the Outage Management System
	(General Electric PowerOn) currently in use by the Company has not been
	updated to the latest version, and is no longer fully supported by the
	vendor. The risks associated with providing adequate support of PowerOn
	continue to grow and will be resolved with implementation of the new
	OMS. Second, an updated OMS system will allow for the implementation
	of DMS functionality which will maximize control room expertise and
	efficiency with regards to safety, reliability and productivity. It will also
	allow standardized training and operator development and streamlined
	processes and procedures (including minimizing/eliminating the use of
	paper maps, reducing manual processes, and creating one, current view of
	the network model available to all necessary resources). Further, the
	addition of a DMS is critical to moving forward with a fully functional
	Smart Grid program. Lastly, the Company is working with ABB (vendor)
	on integrating DMS/OMS with an upgraded EMS system that will
	substantially improve our ability to ensure the reliability of the electric
	network as well as our ability to quickly restore service in the event of an

1		outage. All of these new systems (DMS/OMS/EMS) will add
2		functionality that will allow more automated network switching in our
3		network control centers. The Company's planned EMS system investment
4		is described later in our testimony.
5		
6	Q.	What are the costs associated with the DMS/OMS project?
7	A.	The costs of the OMS/DMS will be shared among the National Grid
8		operating companies that use the system. The total cost of the OMS/DMS
9		is \$30 million, and it is to be amortized over 5 years from its in-service
10		date, now expected to be April 2013. Niagara Mohawk's share of
11		OMS/DMS costs in 2013 will be \$2.534 million. Derivation of these costs
12		and the allocation to Niagara Mohawk is addressed in the Revenue
13		Requirement Panel's Exhibit (RRP-2), Schedule 8.
14		
15	Q.	Describe the Mobile – Electric Distribution Grid Mobile Expansion
16		project.
17	A.	Many electric operations field workers in the Niagara Mohawk service
18		territory are not equipped with mobile computers. This project will
19		provide that equipment and enhanced capabilities and functionality. The
20		ability to access work management and other applications online from the
21		field will significantly improve both the accuracy and timeliness of

information collected in the field, will improve timely and accurate responses to outages, ensure that the most up to date safety procedures are available to working field crews, and support more efficient use of or reductions in clerical staff. Examples of field transactions that will be supported by this project include the ability to dispatch trouble orders directly from the OMS to field crews for initial and follow-up work, real time access and update capability to the geographic information system (GIS), and online capture of field construction design and "as-built" information. In addition, status of customer work in the field will be captured and updated in the customer system (CSS) so that the information will be readily available to contact center personnel in their discussions with customers. This investment will include the implementation of the required hardware, telecommunications and software. Start-up costs are required for FY2013 with implementation beginning in FY 2014, therefore the benefits identified will be realized and incorporated into future rate cases.

17

18

19

20

21

A.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Q. Describe the Radio Console Standardization project.

The radio console equipment in our Electric Distribution Control Centers and Transmission Control Center is well beyond normal end of life. It is no longer supported by the vendor (Motorola), and the risk of continuing

to operate this equipment is unacceptable. Replacement parts are largely unavailable from the vendor. The radio console equipment is the primary means of communication between the control centers and field crews, and its reliability is critical to crew safety and to ensuring timely repairs to the electric distribution and transmission system.

Q. Describe the Transformation Key Performance Indicator ("KPI") project.

The Transformation Program is a major initiative designed to implement a new operating model that is introducing best practices across a number of work streams. A key element in this transformational program is the ability to measure the performance of the new operating model through relevant measures and detailed metrics. The Transformation KPI project establishes a framework and centralized solution that allows the company to draw information from a number of operational systems and create scorecards at all levels of the organization to display performance against those metrics to the individuals responsible for the work and to their management. This investment allows us to deliver specific reporting, measures and scorecards, as outlined during the PSC Management Audit, specifically the 29 value measures for productivity. This KPI capability was supported by the PSC Management Audit, and is established as an

assumption for delivery of specific recommendations surrounding performance management and work management. This investment will allow electric operations senior management to have visibility into the performance of the organization and highlight potential problem areas to ensure that we are optimizing service to Niagara Mohawk customers. In addition, the KPI project will also enable regulatory reporting of the Company's performance and service to customers and provide a basis by which to benchmark against peer utilities. Q. Please discuss the new Energy Management System ("EMS") the Company will be implementing. A. The EMS replacement project is a combined transmission and distribution project. The EMS system is used for monitoring, control and operation of the transmission and distribution electrical system. The current EMS system is 23 years old and the vendor, Stagg Systems, is no longer in business. Therefore, vendor support and upgrades are no longer available.

20

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

The planned investment in new operator workstations and primary and

that is in line with current industry practice.

back-up servers will allow the Company to follow a 4-6 year refresh cycle

1 This investment modernizes the EMS to mitigate reliability risks 2 associated with the loss of system control and situational awareness of the 3 electric system and will insure information and data is exchanged with the 4 regional Independent System Operators and transmission owners. The 5 implementation of this project will coincide with the DMS/OMS system 6 upgrades described previously. The total capital investment cost for the 7 EMS replacement project is \$20.1 million, with \$13.0 million associated 8 with transmission and \$7.1 million associated with distribution. 9 Implementation of this project began in May 2009 and will continue 10 through the end of 2012. 11 12 0. Is the Company undertaking other operations-related IS projects that 13 are reflected in the rate case revenue requirement? 14 A. Yes. In addition to the projects described above, the company has a 15 number of smaller yet very important projects in the electric operations 16 area that will improve the customer experience and help reduce operating 17 costs. These projects, and their associated costs, are listed in Exhibit ____ 18 (IOP-6).

VII. Operations and Maintenance Expenses

1

16

17

18

19

20

- Q. Please describe generally the nature of the Company's electric system
 operations and maintenance expenses.
- 4 A. Operations and Maintenance (O&M) expenses relate to work performed 5 specifically for the purpose of preventing failure, restoring serviceability, 6 or maintaining the life of capital assets. Niagara Mohawk has a significant 7 maintenance program implemented with the goal of ensuring the assets 8 installed on the system can be utilized to their fullest potential life 9 expectancy. However, due to the current physical condition of many 10 assets, the Company is likely to experience increases in maintenance costs 11 until these assets can be replaced. These costs include such things as 12 increased costs for more frequent inspection and testing, more significant 13 repair costs (e.g. major overhaul of circuit breakers versus standard minor 14 work), and costs for emergency work. These expenditures are required to 15 prevent failure and maintain the life of the assets until replacement occurs.

Reduced inspection cycles are warranted if it is determined that an asset cannot last until the next normal inspection. One example would be increasing the frequency of Dissolved Gas Analysis (DGA) performed on power transformers when scheduled maintenance test results indicate

1		deterioration has occurred within the main tank of the transformer or the
2		Load Tap Changer (LTC).
3		
4	Q.	What is reflected in the Company's rate case filing relating to O&M
5		expenses for the electric transmission and distribution system.
6	A.	As described in the testimony of the Revenue Requirements panel, the
7		Company's total electric operations and maintenance ("O&M") expense
8		for the rate years 2011, 2012 and 2013 is \$1,112.5 million, \$1,114.5
9		million, and \$1,114.5 million, respectively. These amounts are presented
10		in detail in Exhibit (RRP-1), summary schedule, to the testimony of the
11		Revenue Requirements Panel.
12		
13	Q.	How do the rate plan expense levels presented in this rate case
14		compare to the historic test year expenses for operating the T&D
15		System?
16	A.	For the historic test year ending September 30, 2009, the Company's
17		adjusted electric O&M expense was approximately \$898.9 million, as set
18		forth in Exhibit (RRP-2), Schedule 45 of the Revenue Requirements
19		Panel.
20		

1	Q.	Please describe those adjustments needed to the historic test year
2		electric operating expense necessary to arrive at the proposed rate
3		year expense.
4	A.	There are several known or anticipated changes in the Company's rate
5		year expense levels from what the Company incurred during the 12-month
6		test year period of October 2008 - September 2009. Many of these
7		changes are addressed in the testimony of the Revenue Requirements
8		Panel. In our Panel's testimony, however, we provide additional detail
9		with respect to several of the known and measurable cost changes totaling
10		approximately \$81.2 million reflected in the Company's rate filing in this
11		case, including:
12		 costs of mandatory and enhanced inspection and maintenance
13		requirements;
14		• transmission tower painting costs, and comprehensive aerial
15		inspection costs;
16		 costs associated with changes to the Company's vegetation
17		management program;
18		• operating expenses associated with the increased levels of
19		infrastructure investment;
20		• changes to the current mechanism for recovering extraordinary
21		storm expense; and

1		 increased costs associated with site investigation and remediation
2		activities.
3		Taken together, these changes account for approximately \$81.2 million of
4		the difference between the Company's historic test year expense and
5		forecast rate year expense in 2011.
6		
7		In this part of our testimony, the panel also addresses the status of the
8		Company's service quality performance program.
9		
10		A. <u>Inspection and Maintenance</u>
11	Q.	Please describe the Company's proposal in regard to increased O&M
12		costs to the inspection and maintenance program as a result of the
13		2008 Safety Order
14	A.	Pursuant to the 2008 Safety Order, the PSC directed utilities to undertake
15		enhanced inspection and maintenance activities on their electric system.
16		These activities included additional elevated voltage testing requirements,
17		and the establishment of specific timeframes for the remediation of
18		deficiencies identified as part of a utility's system inspection activities.
19		
20	Q.	Could you describe the nature of the additional elevated voltage
21		testing requirements in the 2008 Safety Order?

1	A.	In the 2008 Safety Order, the PSC adopted changes to its electric safety
2		standards to require that all utilities serving cities with populations of at
3		least 50,000 (based on the 2000 census) conduct a mobile elevated voltage
4		detection survey of their underground electric distribution system in those
5		areas. The initial survey was to be completed during calendar year 2009,
6		with annual surveys to follow thereafter. Based on their populations, the
7		Company is required to conduct an annual mobile elevated voltage survey
8		in Buffalo, Niagara Falls, Syracuse, Utica, Albany and Schenectady.
9		
10	Q.	What costs are associated with the new mobile testing requirement?
11	A.	The Company estimated the annual costs at approximately \$5.4 million.
12		This amount includes the use of a certified mobile test vehicle and
13		additional contractor costs to "stand by" locations identified to be above
14		the relevant elevated voltage threshold.
15		
16	Q.	What is the basis for the Company's estimated costs of the mobile test
17		vehicle and contractor stand by resources?
18	A.	The Company's estimate of approximately \$5.4 million per year is based
19		on actual contractor costs experienced in 2009. The Company completed
20		the first annual survey of the six cities mentioned above as of December
21		2009.

Q.	Does the 2008 Safety Order require enhanced remediation efforts by
	utilities?
A.	Yes. In the 2008 Safety Order, the PSC directed that utilities are required
	to mitigate all elevated voltage findings of 1 volt or more. Previously,
	utilities (including the Company) were required to take corrective action to
	mitigate elevated voltage findings of 4.5 volts or greater.
Q.	What impact does the Company project the tightened standard will
	have on its elevated voltage activities?
A.	For elevated voltage findings between 1 and below 4.5 volts, the Company
	will act to cordon off the affected area (e.g., using cones, barricades or
	warning tape) to indicate the existence of a possible safety hazard. Under
	PSC requirements, once the area has been cordoned off, the Company is to
	return as soon as practical to mitigate such findings.
	The Company will also continue to mitigate elevated voltage situations of
	4.5 volts or more. Because the higher potential creates greater concern,
	these mitigation efforts will require the protection of the area (e.g., by
	posting utility or contractor personnel) until repair crews arrive to repair
	the situation and make the location safe.
	A. Q.

1	Q.	What is the Company's estimate of the costs of complying with the
2		mobile test requirement in the 2008 Safety Order?
3	A.	In addition to the approximate \$5.4 million in vendor costs for the
4		certified mobile test vehicle and stand by contractors described above, the
5		Company estimates that it will incur approximately \$1,180,000 annually
6		in additional expense associated with complying with the reduced voltage
7		requirements from the 2008 Safety Order. This estimate is based on the
8		number of elevated voltage locations identified in the field by the test
9		vehicle in Buffalo during the first few weeks of testing, a typical repair
10		cost, then extrapolated across the system. The cost of the test vehicle plus
11		repair costs brings the total estimated annual incremental O&M expenses
12		associated with these activities to \$6.58 million.
13		
14	Q.	Is it possible the estimated costs to repair deficiencies located by
15		mobile testing will vary from the \$1,180,000 you mentioned above?
16	A.	Yes. The Company has only recently completed the mobile test initiative,
17		and the estimate was based on a relatively small sample of repairs. More
18		recent information developed following the estimate reflected in this rate
19		case suggests the actual annual repair costs could be higher than
20		\$1,180,000. The Company will seek deferral treatment of any charges in
21		excess of \$1,180,000. The actual program costs through December 31,

1		2009 were previously submitted in a report to Staff dated January 15,
2		2010, a copy of which is included in Exhibit (IOP-7).
3		
4	Q.	Are there other requirements stemming from the 2008 Safety Order
5		that affect the Company's projected rate year expenses and that are
6		not reflected in the historic test year?
7	A.	Yes. In addition to the mobile testing and reduced voltage requirements
8		described above, the Commission established a condition-based schedule
9		for addressing deficiencies identified by utilities when they conduct their
10		annual system inspections. Specifically, the PSC established four priority
11		categories of deficiencies (as described in Appendix A to the 2008 Safety
12		Order):
13		Level I – repair as soon as possible, but not longer than one week.
14		A Level I deficiency is an actual or imminent safety hazard to the
15		public or poses a serious and immediate threat to the delivery of
16		power. Critical safety hazards present at the time of the inspection
17		shall be guarded until the hazard is mitigated.
18		Level II – repair within one year. A Level II deficiency is likely to
19		fail prior to the next inspection cycle and represent a threat to
20		safety and/or reliability should a failure occur prior to repair.

1 **Level III** – repair within three years. A Level III deficiency does 2 not present immediate safety or operational concerns and would 3 likely have minimum impact on the safe and reliable delivery of 4 power if it does fail prior to repair. 5 **Level IV** – condition found but repairs not needed at this time. 6 Level IV is used to track atypical conditions that do not require 7 repair within a five-year timeframe. This level should be used for future monitoring purposes and planning proactive maintenance 8 9 activities. 10 11 Q. What is the impact of the Commission's order on the Company's 12 projected costs during the period covered in this case? 13 A. The revised requirements of the 2008 Safety Order have effects on the 14 Company's future operations expense as well as on its infrastructure 15 investment plan. First, Level I deficiencies must be addressed as soon as 16 possible, and it is the Company's expectation that the costs associated with those efforts will be primarily expense-related. The Company does not 17 18 project a specific increase over historic test year spending. 19 20 Level II deficiencies, which must be addressed within 12 months of 21 identification, are expected to lead to remediation efforts which will be

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

more evenly balanced between expense activities and capital expenditures. Because the 12-month timeframe for addressing Level II deficiencies has the effect of advancing some of the Company's projected capital and maintenance spending, the rate case spending projections are greater than what is reflected in the historic test year. Finally, Level III deficiencies would need to be addressed within 3 years. Typically, Level III-type of situations would be less likely to be addressed through maintenance activities, and instead more likely to be remedied through capital expenditures. Level III work typically will enhance the reliability of the system but is not required to maintain it at present levels. Examples of such work include: poles, cross-arms and other capital assets that are deteriorated but still have sufficient life that they do not pose an imminent risk to public safety or reliability prior to the next five-year inspection cycle; replacement of missing animal guards; repair of equipment bonds; and addition of lightning arresters at conductor transitions and feeder open locations such as feeder ties and at the end of circuits to improve lightning performance. Because of the required 3-year remediation timeline established in the 2008 Safety Order, the Company's

infrastructure investment plan presented in this case reflects an increased

1		amount associated with projected capital investment related to Level III
2		projects.
3		
4	Q.	What incremental costs are associated with implementing the 2008
5		Safety Order you mentioned previously?
6	A.	The incremental capital investment necessitated by the 2008 Safety Order
7		is described previously in this testimony as part of the description of the
8		infrastructure investment plan. In addition to the estimated capital
9		investments (and O&M expense related to those capital incremental as
10		described later in our testimony), the Company will incur additional O&M
11		expenses to address issues identified as part of its inspections program.
12		The Company estimates these additional O&M expenses will be \$2.65
13		million in CY11, \$2.7 million on CY12 and \$710,000 in CY13. The
14		expense is lower in CY13 because the Company anticipates that Level II
15		remediation work will decline after one full five-year cycle of inspection
16		and maintenance under the new criteria is completed. Exhibit (IOP-8)
17		provides a calculation of these estimated costs.
18		
19	Q.	Please describe the Company's proposal with regard to its non-
20		mandatory enhanced inspection and maintenance program costs that
21		are incremental to the requirements of the 2008 Safety Order.

1	A.	In addition to the incremental work that will result from the 2008 Safety
2		Order, the Company is also undertaking additional non-mandatory
3		enhanced inspection and maintenance initiatives intended to help improve
4		the safety and reliability of the electric system, as well as the efficiency of
5		performing its inspections and maintenance programs. These initiatives
6		include infrared inspections of pad-mounted transformers and hand holes
7		to identify defective or loose cable connections before they fail.
8		Additional "fast" distribution feeder patrols of mainlines are intended to
9		identify conditions in the field that may lead to an imminent outage.
10		Finally, enhancements to the inspection and maintenance QA/QC program
11		are designed to improve the collection and monitoring of field inspection
12		data and work completed information. The Company anticipates
13		incremental annual expenses of these initiatives to be \$2.45 million in
14		CY11, \$2.9 million on CY12 and \$2.9 million in CY13. Exhibit (IOP-
15		8) provides a calculation of these estimated costs.
16		
17		B. <u>Transmission Tower Painting and Comprehensive Aerial</u>
18		<u>Inspection Programs</u>
19	Q.	The Company's proposed rate year expenses reflect approximately
20		\$4.6 million in additional costs associated with transmission tower

1		painting and a comprehensive aerial patrol program. Could you
2		elaborate?
3	A.	Yes, the Company plans to spend an incremental \$2.6 million annually for
4		the transmission tower painting program and \$2.0 million annually for a
5		comprehensive aerial and footer inspection program as compared to the
6		historic test year.
7		
8	Q.	Can you describe the transmission tower painting program?
9	A.	The Company has adopted a tower painting initiative following the
10		implementation of the NY Steel Towers Mitigation Strategy described
11		previously. This initiative, the Tower Painting and Structure Replacement
12		Strategy, is aimed in part at extending the life of mature steel transmission
13		towers in Visual Category 4. In addition, this strategy seeks to delay or
14		prevent Visual Category 1, 2, and 3 structures from degrading into the
15		Visual Category 4 condition or worse. The Company has approximately
16		20,000 steel structures operating at 115kV or higher in New York, with an
17		average age of 65 years. Approximately 1,350 of the 17,500 steel towers
18		inspected to date are in Visual Category 4. The painting program
19		maintains the integrity of these existing steel towers, promoting longer
20		service lives, reliability and safety in a very cost-effective manner.
21		Presently, the tower painting program is operating on a 15-year cycle

(after this cycle, it will be modified to a 20-year cycle). A 15-20 year painting cycle is consistent with cycles used by other utilities in the northeast.

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

A.

1

2

3

Q. How was the \$2.6 million adjustment to the historic test year expense

determined?

Due to vendor safety performance issues, the tower painting program was suspended from August 2008 to June 2009, and again suspended in August 2009. As a result, the total annual estimated costs of this on-going program are not reflected in the historic test year expense. The \$2.6 million adjustment to the rate year expense is intended to capture the costs of the work, which is anticipated to restart in June 2010. The \$2.6 million adjustment is based on historical information on tower painting costs. The Company's annual tower painting budget is approximately \$3.4 million, based on the historical average cost to paint a tower and the targeted number of towers to be painted annually. However, due to the program suspension, tower painting expenses for the historic test year were only about \$800,000. The \$2.6 million adjustment reflects the difference between the historic test year spend and our estimate of what the program will cost during the rate year. Exhibit __ (IOP-9), Schedule 1, illustrates how the \$2.6 million adjustment was determined.

1	Q.	Please describe the comprehensive aerial patrol and footer inspection
2		programs.
3	A.	The Company is undertaking a comprehensive aerial helicopter patrol
4		program with an estimated incremental cost of \$1.4 million per year over a
5		three year period, and a footer inspection program plus additional
6		inspection programs to further investigate structural issues identified by
7		the aerial patrol at an estimated cost of \$600,000 per year for a three year
8		period.
9		
10	Q.	What are the expected benefits of the comprehensive helicopter
11		patrol?
12	A.	This program utilizes helicopters with high resolution cameras that will
13		hover over structures to identify defects such as cracked insulators,
14		defective hardware and structural steel members, and deteriorated
15		foundations. The patrol will take place on the 20 worst performing
16		circuits over a three year period to develop a comprehensive maintenance
17		schedule to correct the identified issues prior to failure in order to improve
18		the reliability of the identified circuits.
19		
20	Q.	What are the expected benefits of the footer inspection program and
21		other miscellaneous inspection work identified by the aerial patrol?

1	A.	As discussed previously, the aerial patrol will identify deficiencies in the
2		overall structure and the foundations. It is anticipated that additional on-
3		site below grade footer inspections will be required as a follow-up to
4		determine the full extent of the repairs required or if replacement is
5		warranted. As with the aerial patrol, this effort will identify issues prior to
6		failure in order to improve the reliability of the identified circuits.
7		
8	Q.	How were the estimated costs of the aerial patrol and footer
9		inspection determined?
10	A.	As shown in Exhibit (IOP-9), Schedule 2, the estimated costs for the
11		comprehensive aerial patrol and footer inspections are based on actual
12		vendor costs in the test year which are then multiplied by the expected
13		level of work.
14		
15		C. <u>Vegetation Management</u>
16	Q.	Please explain the Company's \$5.0 million adjustment to historic test
17		year expenses related to vegetation management activities.
18	A.	The adjustment for vegetation management activities includes \$2.1 million
19		of anticipated new costs for work on the transmission system, and
20		approximately \$2.9 million on the distribution system.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

The Company strives to be a leader in appropriate vegetation management practices to maintain and improve reliability and follow all regulatory requirements. Pursuant to PSC rules, the Company files a Transmission Right-of-Way Management Program (Part 84 Plan), which is subject to approval by PSC. The Company's most recently approved Part 84 Plan is dated November 2003, and incorporates proven vegetation management practices in order to facilitate uniform and consistent management of our transmission system. Additionally, in June 2005, the PSC issued an Order requiring enhanced transmission right-of-way management practices by electric utilities (Case No. 04-E-0822 – In the Matter of Staff's Investigation into New York State's Electric Utility Transmission Rightof-Way Management Practices). Niagara Mohawk has been complying with the PSC orders, and enhancing our vegetation management program to further improve reliability. In an effort to improve reliability, the Company plans to widen many 115 kV rights-of-way (ROWs). Trees located outside of transmission ROWs that fail and fall into the lines are the source of most tree-caused service interruptions. As the growth of trees outside the existing ROW (i.e., the "utility forest") increase, so does the potential for the trees to grow into the electric lines, or upon failure, interrupt electric service. The Company's

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

115kV system has the greatest risk exposure to tree-related outages on our transmission system, and intervention in the form of enhanced ROW widening efforts provides a cost-effective means of reducing future reliability effects from off-ROW trees, and improving safety. Widening activities will be performed in accordance with Transmission Group Procedure No. 25, Right-of-Way Vegetation Management Plan, Level 6 requirements, which are defined as the removal of all trees to a new cleared width, where property rights allow. The projected annual cost of the 115 kV widening program is \$1.5 million. Exhibit __ (IOP-10), Schedule 1, illustrates how this amount was determined. The Company's rate year expense also reflects costs associated with new initiatives aimed at the protection of two rare butterfly species: the Karner Blue Butterfly and the Frosted Elfin. The Karner Blue Butterfly is listed on both the Federal and New York endangered species lists, while the Frosted Elfin is on the New York State list of threatened species. The local principal habitat of these species in the area of the Albany Pine Bush, and previous studies of the Company's vegetation management practices have determined that decades of ROW management is largely responsible for creating habitats favorable to the Karner Blue Butterfly and Frosted Elfin. In order to be able to continue to operate and maintain its electric

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

transmission system in the habitat area of the Karner Blue Butterfly and Frosted Elfin, the Company was required to develop and fund a Habitat Conservation Plan ("HCP") in support of its application to the U.S. Fish & Wildlife Service for an Incidental Take Permit ("ITP") under the Endangered Species Act. Exhibit (IOP-10), Schedule 2, is a copy of an April 30, 2009 letter to the U.S. Fish and Wildlife Service describing the Company's HCP and the estimated funding for the HCP. It is anticipated that the ITP will cover the Company's utility activities on affected ROWs and other properties for up to 50 years. The anticipated cost of the program varies over time, but it is projected to have a start-up cost of approximately \$200,000 per year during the proposed rate plan period. These costs are not reflected in the historic test year. In addition, the Company is proposing an upward adjustment to the historic test year cost associated with ROW floor trims. The historic test year costs for ROW floor trim sites are the result of a lower than average number of trim site acres. The number of trim site acres fluctuates annually, but costs are expected to average approximately \$935,000 in the proposed rate plan period, an increase of \$400,000 over the historic test year amount. Exhibit __ (IOP-10), Schedule 4 provides a calculation of

these estimated costs. Trim site costs and acres are reported annually to the Secretary of the Department of Public Service.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

A.

1

2

Q. Can you please explain the Company's current programs for removing hazard trees?

The Company's has two reliability-based programs that involve hazard tree removal: cycle pruning of circuits, and Enhanced Hazard Tree Mitigation ("EHTM"). During routine maintenance cycle pruning, in addition to pruning trees, imminent danger hazard trees immediately next to the lines are identified and removed. Alternatively, the EHTM program targets circuits specifically in need of extensive hazard tree removal work independent of the cycle pruning schedule. The EHTM program is aimed at minimizing the frequency and damaging effects of tree and large limb failures from high-risk trees located along side or above the Company's primary distribution facilities, and therefore focuses on hazard removal to a much greater extent than cycle pruning. The EHTM program uses a risk analysis protocol to prioritize high risk and poor performing areas on a circuit and evaluate them for the potential need for hazard tree work. These identified areas are then extensively inspected for risk trees and large limbs, and those above a pre-determined risk level are scheduled for removal. The EHTM program comes at a higher cost per mile than cycle

pruning since more trees are being removed. For this reason, EHTM is only performed on circuits showing poor reliability, specifically in need of intensive hazard tree removal. This program has had favorable results and has shown to improve circuit reliability.

A.

Q. Can you please explain the proposed incremental cycle maintenance

hazard tree program changes requested by the Company?

The Company's reliability performance indicates we are experiencing continued interruptions due to tree or large limb failure. In an effort to realize reliability benefits similar to those of the EHTM program, without reaching the intensity level and higher cost of the EHTM program, the Company wishes to increase the number of routine maintenance pruning hazard tree removals on the remaining pruning circuits not scheduled for EHTM for a projected cost of \$2.9M as shown in Exhibit__ (IOP-10), Schedule 5. Since this enhancement is new, the \$2.9 million cost is incremental above historic amounts. The same EHTM tree risk analysis protocol will be applied to these maintenance pruning hazard removals, ensuring that the highest risk trees along a circuit are properly prioritized. This will allow us to reduce the risk of interruptions by tree and large limb fells when compared

1		to historic cycle pruning hazard tree removals providing the potential for
2		greater reliability improvement.
3		
4		D. <u>Increased O&M Expense Related to Infrastructure Investment</u>
5	Q.	The Revenue Requirements Panel addresses projected increases in
6		O&M expenses of approximately \$12.9 million in 2011, \$18.6 million
7		in 2012, and \$22.8 million in 2013 from historic test year expense
8		levels associated with the Company's proposed infrastructure
9		investment plan in Exhibit (RRP-2), Schedule 35. Please explain
10		the basis for these projected expense increases for the rate years?
11	A.	In addition to general O&M cost discussed above, there is a level of O&M
12		required to implement the Company's infrastructure investment plan
13		presented in this case. The Company follows established accounting rules
14		governing how work is classified as O&M, capital, or removal that are
15		based on the Federal Energy Regulatory Commission (FERC) accounting
16		regulations.
17		
18		The accounting rules provide that O&M accounts shall be charged for
19		labor, materials, overheads and other expenses incurred for certain types
20		of work that include the following activities:
21		• Direct field supervision of maintenance;

1	• Inspecting, testing and reporting on conditions of plant specifically to
2	determine the need for repairs, replacements, rearrangements, and
3	changes; and inspecting and testing the adequacy of repairs which
4	have been made;
5	• Work performed specifically for the purpose of preventing failure,
6	restoring serviceability or maintaining the life of plant;
7	 Rearranging and changing the location of plant not retired;
8	• Repairing for reuse of materials recovered from plant;
9	• Testing for, locating and clearing trouble;
10	• Net cost of installing, maintaining, and removing temporary facilities
11	to prevent interruptions in customer service; and
12	Replacing or adding minor items of plant which do not constitute a
13	plant unit.
14	
15	Virtually all capital projects constructed involve interfacing with existing
16	facilities. Many of these projects involve a combination of complicated
17	reconfigurations of existing facilities and construction of many interface
18	points between new and old facilities. When there are existing facilities of
19	any kind involved, there will be O&M costs.
20	

1	Q.	Could you provide an example of a capital project that would require
2		the incurrence of O&M costs?
3	A.	Yes. Using a tower replacement as an example and following the
4		established guidelines, an example of O&M costs that could be incurred
5		include:
6		• Maintaining previously constructed access roads or ROW:
7		o Repairing roadways, bridges etc.
8		O Trimming trees and brush to maintain previous roadway
9		clearance
10		o Maintenance work on publicly owned roads and trails when
11		complete
12		o Chemical treatment of right-of-way areas
13		Performing the work
14		o Detaching conductor and shield wire from the old tower,
15		transferring and reattaching it to the new tower
16		o Cleaning insulators
17		o Repairing grounds
18		o Re-sagging, re-tying or re-arranging position or spacing of
19		conductors
20		

Other indirect project costs which are required to perform the capital project yet cannot be attributed to a specific capital asset, will also contribute to O&M charges for a project. These costs are apportioned to capital, cost of removal and O&M based on the overall project estimate and include: engineering, direct field supervision, railroad flagmen, police protection, switching, grounding, wildlife protection, and the installation of swamp mats and hay bales/silt fences.

A.

Q. How did the Company calculate the annual amounts for incremental O&M expense related capital?

As mentioned previously, the Company's infrastructure investment plan presented in this case represents an increase from the investment reflected in the historic test year. To calculate the amount of incremental O&M expense the Company would expect to incur to deliver the increased capital plan, the Company took a three-year average (FY 2007 – FY 2009) of the ratio of annual O&M costs to capital costs for electric transmission (segregated into lines and substations, sub-transmission and distribution, and applied the resulting percentages to the planned incremental capital investment in each segment to arrive at an estimated annual adjustment. For example, for transmission lines, the 3-year (FY 2007 – FY 2009) average ratio of total O&M costs to capital costs is 10.26%; for

	transmission substation: 0.88%; for sub-transmission: 4.27%; and for
	distribution: 7.89%. These percentages were then applied to the plan
	incremental capital investment (compared to the test year) in each area.
	The result is that the Company expects to incur total increased O&M
	expense associated with the increased capital plan of \$12.9 million in CY
	2011, \$18.6 million in CY 2012, and \$22.8 million in CY 2013 (as
	compared to the historic test year).
Q.	Will the Company realize any O&M cost savings as a result of the
	planned infrastructure investments?
A.	Yes, but they will be relatively small. In 2007, the Company forecast that
	it would achieve \$598,485 in O&M savings during 2008 as a result of the
	incremental expenditures it made on electric system capital projects and
	related O&M during 2008. After reviewing data from 2008, the Company
	estimated that it achieved a total of \$492,715 in O&M savings for 2008. A
	similar level of cost savings would be anticipated for FY11 through FY14
	under the plan presented in this case.
O.	Given the scope of the investment, why wouldn't the Company
Q.	, ,

1 A. O&M cost savings are limited because generally, substantial O&M 2 savings would be produced by capital or capital-related O&M spending only if the expenditures enable the Company to reduce the total number of 3 4 personnel devoted to maintenance and repair of the electric system. The 5 Company did not reduce the number of personnel performing those tasks 6 during 2009 and it does not expect that going forward the increased capital 7 expenditures on the electric system will enable it to do so. 8 9 Even though the Company is spending hundreds of millions of dollars on 10 its transmission and distribution facilities, those expenditures result in the 11 replacement of a small percentage of circuit breakers, conductor miles, 12 steel towers, and other such assets that make up the entire electric system. 13 The replacement of a small proportion of these assets makes no significant 14 difference in the volume of routine maintenance activities such as visual 15 and operational inspections, infrared surveys, and foot patrols. These 16 activities are required whether an asset is new or old, and in the case of 17 relay equipment, station batteries and diesel generators, maintenance 18 intervals are mandated by NPCC standards. For the same reason, while it 19 is assumed that there will be a decrease in the amount of "found-on-20 inspection" and "follow-up" maintenance activities associated with new

equipment, this decrease is relatively small due largely to the vast number

21

of assets on the system. Even though equipment is replaced, the system in aggregate continues to deteriorate and thus requires continual maintenance.

A.

E. Storm Response Costs

Q. How does the Company recover its costs associated with responding to storm events that affect the electric system?

The Company currently recovers the costs of responding to storm events in two ways: (1) through base rates for normal storm events; and (2) through a deferral mechanism for major storms. Responding to normal storm events is part of the ordinary cost of business for an electric utility, and the costs of doing so are generally reflected in the utility's base rates. However, utility systems are occasionally also affected by significant weather events that cause substantial damage and result in the incurrence of costs that are out of the ordinary. These costs are also legitimate and necessary costs of providing service to customers. However, because the costs of responding to extraordinary storms vary and cannot be accurately predicted year-to-year, base rate recovery for such costs is generally not provided. Rather, in the Company's case, the costs of responding to extraordinary storms are reflected in a deferral account.

1 Q. Please describe the Company's major storm deferral mechanism? 2 A. The Company's existing major storm deferral mechanism was established 3 in the MJP, and further refined pursuant to the March 22, 2007 Stipulation 4 of the Parties in that case, which the Commission approved by order dated 5 July 19, 2007. Under the storm deferral mechanism, the Company is authorized to include in its deferral account those incremental costs above 6 7 \$2 million associated with any individual major storm in a calendar year, 8 subject to a \$6 million annual deductible for incremental major storm 9 costs. Under the Merger Joint Proposal, every two years (coincident with 10 the Company's CTC reset filing) the Company is required to seek 11 recovery, or provide a refund, of the cumulative amount by which the 12 deferral account exceeds \$100 million. The Company made its most 13 recent CTC reset and deferral account recovery filing on August 3, 2009 14 for the actual deferrals as of June 30, 2009 and forecasted deferrals 15 through December 31, 2011. 16 What is considered a "major storm" for deferral purposes? 17 0. 18 A. The Commission's regulations (16 NYCRR pt. 97) define "major storm." 19 The Stipulation of the Parties mentioned above further refined a "major 20 storm" for purposes of deferring response costs. For deferral accounting

purposes, a major storm is essentially a period of adverse weather which

21

1		results in electric service interruptions to 10 percent or more of customers
2		in an operating region, or at least one percent of the customers within an
3		operating region being interrupted for over 24 hours.
4		
5	Q.	What level of storm costs has the Company deferred under the
6		deferral mechanism you describe?
7	A.	From April 2005 through August 2009, the Company incurred
8		approximately \$152 million—or about \$34 million per year— of costs that
9		qualified for deferral under the criteria established under the Merger Joint
10		Proposal and Stipulation of the Parties. This deferral amount includes \$78
11		million for the October 2006 Buffalo storm, and \$47 million for the
12		December 2008 ice storm.
13		
14	Q.	Please describe the Company's proposal relating to the recovery of
15		storm costs.
16	A.	The Company proposes establishing a fully reconciling storm fund of \$30
17		million to offset the costs of responding to uncontrollable major storm
18		events. This storm fund amount is approximately 88 percent of the
19		average annual amount of major storm costs that have been eligible for
20		deferral during the same 4.5 year period.

1	Q.	Why is the Company proposing to modify the current mechanism for
2		addressing major storm costs?
3	A.	Currently, if the Company's system is affected by a major adverse weather
4		event, the Company may have to incur tens of millions of dollars in
5		unforeseen costs in a very short time period. These costs are often
6		payments to third-party contractors and suppliers, and can have a
7		significant effect on the Company's cash flow. Although the current
8		deferral mechanism provides an opportunity to recover these costs, such
9		recovery may occur more than 4 years after a storm, depending on the
10		timing of the event.
11		
12		Establishing a storm fund to which customers contribute over time would
13		provide a source of funds to respond to these significant events, and
14		reduce the potentially significant cash flow impacts which can result from
15		a major storm. In addition to enhancing the availability of funds needed to
16		respond to a major storm, a storm fund is also expected to provide greater
17		matching of cost recovery with cost incurrence.
18		
19	Q.	How would the storm fund operate?
20	A.	The storm fund would work as a pre-funded account. The Company
21		would include an amount in base rates which would be used to fund the

1 storm fund, and major storm costs would be assessed against this account 2 balance. If the balance of the storm fund is brought below zero as of 3 December 31 of any year because of major storm costs, the Company 4 would recover an amount to bring the fund balance to zero through the 5 EDAM described in the Revenue Requirements Panel testimony. 6 7 Q. Is the Company proposing to change the types of major storm costs 8 that are eligible for recovery? 9 A. No. The Company proposes to use the existing criteria that were 10 established for deferral of storm costs. 11 12 0. How did the Company determine the proposed storm fund amount? 13 A. The proposed storm fund amount is slightly less than the annual average 14 of the Company's deferred major storm costs from April 2005 through 15 August 2009 (i.e., \$152 million/4.5 years = \$33.78 million/year). The 16 establishment of the storm fund is not intended to insure the availability of 17 all the funds necessary to respond to every major storm, but rather to help 18 meet the substantial short-term cash demands that result when the 19 inevitable major storm event occurs. Exhibit (IOP-11) provides a 20 summary of the major storm deferral amounts described above that were 21 used to arrive at the proposed \$30 million storm fund amount.

2 Q. What is the Site Investigation and Remediation ("SIR") program? 3 A. The SIR program refers to those activities undertaken and costs incurred 4 by the Company in connection with the management and remediation of 5 environmentally contaminated sites. Such sites might include former 6 manufactured gas plant sites, other Company operating sites that have 7 become environmentally contaminated, or non-Company sites where the 8 Company faces potential PRP (Potentially Responsible Party) exposure 9 relating to alleged liabilities under Federal or State Superfund law or other 10 law or regulation relating to the control of hazardous waste or substances. The Company's current electric rates include base recovery of \$12.75 12 million per year for SIR costs. This amount represents the 85% electric 13 allocation of the total \$15 million SIR costs previously established in rates 14 for both electric and gas operations. To the extent actual electric SIR costs 15 exceed or are less than the annual rate allowance, the difference is 16 deferred for subsequent recovery or return.

17

18

19

20

21

A.

11

1

Q. What types of costs are incurred under the SIR program?

Allowable costs under the SIR program include associated consultant and contractor costs, base labor expense as well as incremental internal labor used for SIR activities, remediation activities aimed at reducing the

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

FY 2008:

volume, toxicity or mobility of pre-existing contamination, and incremental external costs, including insurance and legal costs, incurred to seek recovery from third parties or to otherwise seek to mitigate the Company's costs or liability associated with the SIR program. Under the MJP, allowable SIR costs are to be offset by: (1) net gains from the sale or transfer to Non-utility Property of the Company's land and buildings included in rate base, or from the sale of stone, gravel, sand or timber from such land; (2) any net gains recognized from the leasing of such land or from the sale or lease of mining or drilling rights to such land; and (3) net insurance proceeds and net recoveries from third parties. O. What have the Company's historic SIR costs been? A. The Company's current level of SIR recovery in electric rates is \$12.75 million. However, the Company's actual total SIR expenses over the period FY 2003 – FY 2009 have been: FY 2003: \$28,675,183 FY 2004: \$22,045,153 FY 2005: \$29,610,349 FY 2006: \$21,680,242 FY 2007: \$18,644,941

\$14,731,334

1		FY 2009: \$33,663,069
2		The variability in annual amounts results from the fact that SIR project
3		spending is significantly affected by whether SIR activities are focused on
4		investigation (when spending is lower) or construction (when spending
5		increases).
6		
7	Q.	What is the most recent level of SIR deferrals associated with the
8		Company's electric operations?
9	A.	As of September 30, 2009, the Company had an SIR deferral balance of
10		\$82.3 million. Its forecasted deferral balance at December 31, 2010 is
11		\$109 million.
12		
13	Q.	Is the Company proposing a change in the amount of SIR recovery in
14		base rates?
15	A.	Yes. The Company is proposing to increase the annual level of SIR
16		recovery in electric base rates from the current level of \$12.75 million to
17		\$29.75 million. This is based on annual projected total SIR costs of \$35
18		million, with 85% allocated to electric and 15% to gas.
19		
20	Q.	Was SIR expense addressed in the Company's recent gas rate case
21		(Case 08-G-0609)?

1	A.	res. In that case, the Commission approved a settlement which included
2		annual gas SIR expense of \$4.5 million. This amount was based on a total
3		gas and electric SIR expense of \$30 million per year, with 15% of the total
4		expense allocation to gas operations (0.15 x $$30$ million = $$4.5$ million).
5		
6	Q.	Why is the Company proposing total SIR expense of \$35 million in
7		this case?
8	A.	As described in the gas case, and as indicated by the historic spending
9		above, the Company's actual SIR spending has been far in excess of its
10		actual rate allowance. Future SIR expense is expected to increase still
11		further as more projects move from the investigation stage to construction.
12		In the gas case, the Company noted that the \$30 million estimate it
13		proposed was conservative, and additional recent information bears out
14		that characterization. For the first 6 months of FY 2010, the Company's
15		SIR spending has total \$22 million. For the 16 month period from
16		September 2009 through December 2010, the Company projects SIR
17		spending at \$64.1 million (with the 85% electric share at \$54.485 million).
18		To provide for more current cost recovery, therefore, the Company
19		proposes that annual base rate recovery of electric SIR costs be set at
20		\$29.75 million (85% of \$35 million).
21		

Q. What is driving the increased SIR expense?

A. The projected average annual spend of \$35 million is based on recent spending and ongoing/near term construction projects. It is increased to reflect more recent actual data, as well as for inflation. The project schedule for the MGP sites, which comprise the vast majority of the spending, is controlled by the DEC under Orders on Consent. A copy of the most recent schedule is attached as Exhibit __ (IOP-12). The schedule is intended by DEC to set ambitious completion goals and does not account for project delays related to such things as extended regulatory reviews, permitting, third-party property access issues, or other common occurrences. The DEC meets with the Company and other New York utilities to discuss adjustments to the schedule. Spending projections using the DEC schedule would result in even higher proposed recovery levels.

A.

O. Does the Company propose to continue the SIR deferral mechanism?

Yes. For each year of the rate plan, the Company will compare its net actual electric SIR costs with the amount collected in rates and will reflect the difference, positive or negative, in the EDAM, which is discussed in the Revenue Requirements testimony. The increase in base rate recovery

1 requested here is intended to provide for more current cost recovery and a 2 corresponding reduction in the amounts deferred annually. 3 4 Q. What is the Company's proposal relative to SIR labor costs? 5 A. In the gas rate case settlement, the Company agreed to transfer internal 6 labor costs from the gas SIR deferral account to base rates. The Company 7 proposes the same treatment for electric-related SIR expense, and 8 proposes to transfer deferred SIR labor expense into base rates. Currently, 9 four positions are included in base rates, while five positions are 10 accounted for in the SIR deferral account. Consistent with the treatment 11 reflected in the gas settlement, it is proposed that all nine SIR positions be 12 included in base rates. 13 14 Q. The Commission's Order Approving Transfer with Modifications, in 15 Case 09-E-0593, issued December 23, 2009, directed the Company to 16 make a number of adjustments to its accounting books and take other 17 steps to address treatment of costs, including among other things, SIR 18 costs, associated with non-utility property. Does the Company's filing 19 address the Commission's directives in that case?

1	A.	Yes. The actions that the Company is taking to address the Commissions
2		order in Case 09-E-0593 are described in the testimony of the Revenue
3		Requirements Panel and in Mr. Sloey's testimony.
4		
5		G. <u>Service Quality</u>
6	Q.	Please describe the Company's reliability service quality performance
7		associated with electric operations.
8	A.	The Company's electric reliability performance is measured through the
9		Company's Service Quality Program established in accordance with the
10		requirements of the Commission's July 2, 1991 Order in Case 90-E-0119
11		(the "1991 Order"). In the 1991 Order, electric service standards were
12		adopted for large New York electric utilities, as a means of ensuring that
13		the utilities provided adequate levels of service. The Service Quality
14		Program includes three discrete metrics for electric reliability: SAIFI
15		(System Average Interruption Frequency Index), CAIDI (Customer
16		Average Interruption Duration Index), and momentary interruptions
17		("MI").
18		
19		SAIFI is calculated based on the total number of customers interrupted
20		divided by the number of customers served and is a reflection of the
21		number of times the average customer is without service annually. CAIDI

1		is a measure of the average interruption duration experienced by those
2		customers who have had an outage and is calculated from the total
3		customer minutes interrupted divided by the customers interrupted. MI are
4		momentary operations recorded at the substation breakers.
5		
6		The Company's current reliability targets for SAIFI of 0.93 and for CAIDI
7		2.07, are based historic performance between 1986 and 1990. Despite
8		being established in the late 1980s from a legacy paper-based manual
9		reporting system, the historical SAIFI and CAIDI targets form the baseline
10		for present-day measurement of the Company's reported electric reliability
11		performance.
12		
13	Q.	What events are classified as interruptions?
14	A.	Interruptions are outages of at least 5 minutes in duration and include all
15		outages except those related to major storms. For reliability reporting
16		purposes, a weather event is classified a major storm when at least 10
17		percent of customers are interrupted or one customer experiences a 24
18		hour interruption within an operating area.
19		
20	Q.	How are interruptions recorded by the Company?

1 A. The recording of interruptions for the measurement of SAIFI and CAIDI 2 is accomplished utilizing the System Interruption Reporting database 3 (SIR-SQ), a mainframe-based system that records and stores data related 4 to system interruptions. The legacy SIR-SQ system, which was state of 5 the art when implemented, is a manual, paper-based system that has been 6 used to report reliability performance over the last 14 years. The SIR-SQ 7 system stores information recorded on paper tickets that are manually 8 filled out by line crews during their shifts. Information includes time off, 9 estimated number of customers interrupted and time on. Data on SIR-SQ 10 tickets is then manually entered into the SIR-SQ database by an office 11 technician.

12

13

14

15

16

17

18

19

20

21

A.

Q. How has the Company performed against the Service Quality Reliability based targets?

Following a period of worsening performance in the early 2000s, the reliability of the Company's system has shown steady improvement from 2004 through 2008. In addition, preliminary results for 2009 indicate that the Company has again met its SAIFI and CAIDI performance objectives as illustrated in the chart in Exhibit__ (IOP-3). This will mark the second consecutive year that the Company has met both its SAIFI and CAIDI metrics.

1	Ų.	what measures has the Company taken to address rehability
2		performance?
3	A.	To meet its reliability objectives, the Company has developed and
4		executed a work plan that involves substantially increased levels of system
5		maintenance and capital investment to stabilize and improve the system.
6		This investment has been a necessary precursor to the achievement of
7		significant improvement in safety and reliability performance and the
8		Company's recent efforts in this regard are already yielding results.
9		
10		The Company has taken a number of major steps to improve reliability
11		performance, including implementation of the Reliability Enhancement
12		Program ("REP"), initiation of the Overhead Transmission Line
13		Refurbishment Program, and other operational improvements. The REP
14		and Overhead Transmission Line Refurbishment programs combine
15		infrastructure investment projects and maintenance activities designed to
16		enhance the long-term performance and health of network assets through
17		the implementation of a portfolio of asset strategies. In addition to the
18		base level of spending, since 2006, the Company has spent approximately
19		\$190 million in capital and approximately \$22 million in associated
20		expenses to achieve targeted reliability performance and renewed asset
21		health. The key elements of the REP included a targeted program to

enhance the performance of distribution feeders (Feeder Hardening), feeder sectionalizing through the installation of reclosers and fuses, asset replacement, improved inspection and maintenance, and a vegetation management program. The Company has delivered on this program and customers have experienced improved service reliability as a result. The Overhead Transmission Line Refurbishment Program is a long-term program to rebuild over 30 transmission lines that have demonstrated poor performance because of their condition. Lessons learned from implementing the REP and Overhead Transmission Line Refurbishment Program have helped guide the development of the Company's current business plan, and the associated infrastructure investment and operations plans.

From an Operations perspective, the Company has negotiated new job classifications with the IBEW to utilize line trucks operated by one person crews (OPC's) that are positioned throughout the service territory to improve response time to outages. In addition, the Company has renewed the focus of its control center and field personnel to 'switch before fix' whenever possible to restore as many customer as possible in the shortest amount of time. The reduction in the duration of interruptions resulting from these efforts contribute toward improved reliability performance.

1	Q.	How does the weather affect reliability metrics?
2	A.	Service interruptions associated with adverse weather events are a primary
3		factor affecting the Company's reliability performance. As mentioned
4		previously, outages associated with major storms are excluded from the
5		calculation of SAIFI and CAIDI. In some years, the Company
6		experiences a large number of major storms that are excluded, such as in
7		2008. In other years, the Company's service territory may be affected by
8		a large number of smaller storms that cause many customer interruptions,
9		but are not excluded, thereby contributing to lower reported reliability
10		performance.
11		
12	Q.	Is the Company proposing any changes to the electric operations
13		service quality thresholds for SAIFI and CAIDI?
14	A.	Not in this case. The Company is addressing modifications to its service
15		quality metrics through a separate effort with DPS Staff.
16		
17	Q.	Are there any other changes the Company wishes to make regarding
18		reliability service quality metrics?
19	A.	Yes, the Company is proposing two additional changes. First, the
20		Company is proposing to modify the existing service quality penalty terms
21		by providing an additional incentive for the Company to improve its

reliability performance if it becomes subject to the maximum double penalties established under the MJP. That is, the Company proposes that in the event it is subject to the maximum double penalties under the MJP, and that its reliability performance for at least two consecutive years is within the established reliability targets, that the risk of double penalties would be reduced to the standard single penalty for the following year. Thus, when the reliability penalty level for SAIFI or CAIDI is at \$8.8 million based on the current penalty doubling provisions of the MJP, the penalty level would be reduced to the pre-doubling level of \$4.4 million upon meeting the reliability metrics for two consecutive years. This process would not otherwise affect the doubling provision.

A.

Q. What is the basis for this request?

The Company accepted the risk of increased penalties for poor reliability performance in the MJP. However, once the double penalty band is triggered, there is no provision for the return to the standard penalty levels established in the MJP. This proposal establishes a mechanism to return to the standard penalty bands in the event of continued reliable performance, and provides an additional incentive to consistently achieve reliability goals.

1	Q.	What is the second additional request?
2	A.	The Company proposes to eliminate PSC Cause Code 7 for Pre-arranged
3		Outages from the calculation of SAIFI and CAIDI.
4		
5	Q.	What is the basis for this request?
6	A.	The number of planned interruptions has steadily increased as the
7		Company has increased its proactive management of its assets to address
8		system reliability and sustainability issues. Including planned outages in
9		the calculation for SAIFI and CAIDI creates a disincentive for the
10		Company to correct reliability and asset health issues that require a
11		planned outage. The Company works diligently to minimize the number
12		of planned outages through utilization of energized work practices. In
13		addition, the Company attempts to reduce the impact of pre-arranged
14		outages on our customers through timely notification based on internal
15		Company procedures. However, there are certain types of work that
16		absolutely require an outage. These include voltage conversions, as part
17		of feeder upgrades, where individual transformers must be de-energized to
18		change the operating voltage from 4 to 13.2kV.
19		
20		The second factor is worker safety. Certain work practices have been
21		established in conjunction with the IBEW, to ensure worker safety and

comply with internal and external (OSHA) safety requirements for energized work by line mechanics. These cases are typically due to proximity to energized conductors or, in the case of the replacement of defective equipment such as potted porcelain cutouts, to reduce the risk of failure while the equipment is being replaced. Thus, removing PSC Cause Code 7 from the calculation of the Company's performance metrics promotes long-term reliability and modernization of the system in a safer manner.

A.

VIII. Research, Development and Demonstration ("RD&D") Programs

Q. Please describe the Company's RD&D program generally.

The purpose of the Company's RD&D program is to drive innovation through new technologies to improve the efficiency of the Company's electric operations while meeting the challenges and future needs of providing safe, reliable, efficient reasonable cost service to our customers. The program identifies new technologies, tests and evaluates these technologies, and ultimately integrates them into our day-to-day operations. The Company uses a centralized RD&D model to guide, monitor, and report these activities. The objectives of the program are to:

1) reduce customers' costs through reductions in the Company's capital and O&M expenses, 2) improve the reliability of the electric system, and

1		3) meet the challenges of climate change from a mitigation perspective
2		(e.g., facilitating the integration and interconnection of renewable
3		generation) and an adaptation perspective (creating a better understanding
4		of the impacts of climate change on customers and the electric system).
5		
6	Q.	Can you provide an example of how a program in the Company's
7		RD&D portfolio might reduce customer costs or lead to improves
8		reliability?
9	A.	Yes. Included in the Company's proposed portfolio of projects is the
10		Wireless EMS (Energy Management System) project, which the Company
11		would undertake jointly with other utilities and vendors. Wireless EMS
12		would enable further penetration of EMS capabilities and improved
13		SCADA (Supervisory Control and Data Acquisition) information
14		throughout expansive electric networks (such as the Company's) at lower
15		cost than using dedicated communications lines would allow. Other
16		examples include vegetation management projects in the RD&D portfolio.
17		These projects would develop models, tools and techniques that would
18		improve reliability by reducing tree-caused outages without increasing
19		costs.
20		

1	Q.	What sort of work in the RD&D portfolio is aimed at addressing
2		climate change and efficiency initiatives?
3	A.	The Company's plan also calls for continued work in the Renewable
4		Integration area. In the past, the Company participated in EPRI studies
5		focused on Renewable Integration, including, for example: Integrating
6		High Penetrations of Variable Utility-Scale Renewable Power Sources
7		into the Electric Power Infrastructure; Enhancing Grid-Connected
8		Photovoltaic Systems with Advanced Interface Devices; Distributed
9		Photovoltaic: Utility Integration Issues and Opportunities. The Company
10		also has an ongoing project at Niagara Falls, in collaboration with
11		NYSERDA, the objective of which is to install and evaluate the
12		performance of a 100-kW, 150-kWh zinc-bromide (ZnBr) flow battery in
13		conjunction with a nominal 30-kW photovoltaic (PV) system installed on
14		a Niagara Falls State Park facility. Of primary interest to the Company is
15		evaluating the opportunity to shift the renewable generation to meet the
16		customer's peak demand.
17		
18		The Company will start work on Adaptation Strategies for Climate
19		Change. The purpose of this program is to develop climate change
20		adaptation strategies for the electric distribution and transmission
21		infrastructure. Two studies are envisioned; one focusing on network

1 resilience and the other on flooding. The results of these studies will 2 provide the basis for the Company to potentially modify its system design 3 and operational procedures to mitigate the effect of and to adapt to 4 weather trends going forward and ensure the best location placement of 5 new infrastructure and assess the locations of existing infrastructure. 6 7 The Company has and will continue to work collaboratively with other 8 utilities, NYSERDA, and DOE, thereby leveraging the Company's 9 investment in RD&D. All of the opportunities for external funding require 10 a commitment of co-funding which is included in the funds requested for 11 this program. The Company has already negotiated a corporate agreement 12 with EPRI, which covers all National Grid's activities. This has the effect 13 of leveraging funds such that it reduces the cost of the EPRI program to 14 the Company's customers in New York. 15 16 Q. Is the Company proposing to recover the costs of its RD&D program in this case? 17 18 A. Yes. The Company's revenue requirement reflects incremental recovery 19 above the historic test year amounts of \$1.26 million in CY 2011, \$2.73 20 million in CY 2012, and \$3.08 million in CY 2013 associated with the 21 RD&D program.

1	Q.	wing is the Company proposing cost recovery for KD&D initiatives in
2		this case?
3	A.	The importance of this program is clear. These investments are needed to
4		reduce the size of future larger investments that would be required if we
5		continued down a business as usual path. Additionally, the program will
6		focus on many of the urgent needs as identified in by New York State
7		Energy Plan (NYSEP) over its 10-year planning horizon. Specifically the
8		program supports all five of the NYSEP's policy objectives ⁷ :
9		 Assure that New York has reliable energy and transportation systems;
10		 Support energy and transportation systems that enable the State to
11		significantly reduce greenhouse gas (GHG) emissions, both to do the
12		State's part in responding to the dangers posed by climate change and
13		to position the State to compete in a national and global carbon
14		constrained economy;
15		• Address affordability concerns of residents and businesses caused by
16		rising energy bills, and improve the State's economic competitiveness.
17		• Reduce health and environmental risks associated with the production
18		and use of energy across all sectors; and
19		 Improve the State's energy independence and fuel diversity by
20		developing in-state energy supply resources.

 7 State Energy Planning Board, 2009 State Energy Plan - Volume I; Governor David A. Patterson, State of New York, December 2009.

Further the program supports four of the five strategies identified in the NYSEP to achieve these objectives: (1) produce, deliver and use energy more efficiently; (2) support development of in-state energy supplies; (3) invest in energy and transportation infrastructure; and (4) stimulate innovation in a clean energy economy. As a matter of business practice, the program supports the fifth objective: (5) engage others in achieving the State's policy objectives through collaborative effort.

The NYSEP Plan identified energy efficiency as the priority resource to meet its multiple objectives. It sets a goal of reducing electricity use by 15 percent below 2015 forecasts. The NYSEP energy plan identifies electric system efficiency as a "wedge" in achieving this goal. The NYSEP states, "Improving efficiency in the delivery of electricity from generation facilities to end-users in a cost effective manner by reducing transmission

and distribution system losses will also mitigate prices and environmental impacts." The Company will continue to collaborate with stakeholders across the state in this area. In addition, staff supported by this Program

will analyze methods to reduce electric system losses including, for

example use of amorphous core distribution transformers. Energy storage is another technology that was identified in the NYSEP to improve system

efficiency. The Company's RD&D program has invested in energy

1	storage demonstrations in the past and will continue to evaluate this
2	technology.
3	
4	To support the development of in-state energy supplies, the NYSEP calls
5	for expanding the Renewable Portfolio Standard (RPS) to 30 percent of
6	the State's electricity needs with renewable resources by 2015. Distributed
7	Renewables, including photovoltaics (PV) have a large technical potential
8	to help meet this expanded RPS. PV installed costs dropped 30 percent
9	from 1998 to 2008. ⁸ The high level of incentives provided in New York
10	contributed to it being the state with the lowest net installed cost for
11	residential PV systems.9 New York's net metering law will continue to
12	increase the customer interest in PV. The proposed RD&D program
13	would address the impacts of high penetrations of Distributed Renewables
14	and work to address other barriers associated with the interconnection of
15	these resources.
16	
17	The NYSEP states, "Because New York's electric infrastructure is old,
18	significant capital investments will need to be made in the utilities'
19	electric transmission and distribution systems to meet future electric
	8 UC Description of Figure 1 annual 2 Depleton National Laborator Description the Conflict

⁸ US Department of Energy Lawrence Berkeley National Laboratory Report "Tracking the Sun II: The Installed Cost of Photovoltaics in the U.S. from 1998-2008" Wiser, R., G. Barbose, C. Peterman, and N. Darghouth. LBNL-2674E. October 2009

⁹ Ibid

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

demand and allow them to continue to provide reliable service. Replacement and improvement of existing aging infrastructure are critical, as system failures not only raise safety and reliability concerns but can also lead to increased system congestion and therefore higher emissions and costs." A major focus on the Company's RD&D program will be to accelerate the use of technology and innovation to ensure that these required investments are made in the most cost effective manner to relieve some upward pressure on rates. For example, the Program's portfolio would include a project to test the Communications and Network systems in substations standard IEC 61850. This new international protocol has been developed to enhance substation automation and is expected to result in significant improvements in both cost and performance of electric power systems. However, despite the projected benefits of IEC 61850, it is essentially untested on the Company's system and within the industry. Once proven, the Company would roll out this standard across its operations and reap the savings benefit for its customers. In addition to the urgent needs that these RD&D investments will address for our customers, this program will also play a role in stimulating innovation in the clean energy economy. The Company will continue to work with local universities, such as Syracuse University, Rensselaer

Polytechnic University, and Clarkson University and entrepreneurs both inside and outside of upstate New York who are interested in creating businesses and jobs in New York. According to recent studies, New York is behind in developing jobs in and for the green economy. A recent Pew Center study found that jobs in the clean energy economy grew at a national rate of 9.1 percent per year, while traditional jobs grew by only 3.7 percent between 1998 and 2007. In contrast to this national trend, New York lost clean energy jobs at a rate of -1.9 percent per year. 11 According to the same Pew Center study, New York is also further behind in attracting venture capital to the state attracting just 1.7 percent of the \$12.6 billion invested in clean energy from 2006-2008. Through its "Capstone" program, the Company would sponsor student design projects at Clarkson University, Syracuse University, RPI, Union College, and the University at Buffalo. The investment in these projects provides the region with the necessary engineering talent to participate in the global green economy. The benefit to the Company, in addition to the project work product, is creating student interest in the energy delivery industry. Participation in capstone design projects also allows the Company to attract candidates for future employment.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

¹⁰ Pew Charitable Trusts, "The Clean Energy Economy: Re-powering Jobs, Businesses and Investments Across America," June 2009.

¹¹ Ibid.

¹² Ibid.

1	Q.	Does the Company provide a description of the projects included in its
2		RD&D program?
3	A.	Yes. Exhibit (IOP-13) includes a summary description of the each of
4		the projects included in the Company's RD&D portfolio, along with the
5		estimated annual funding during the proposed rate plan period for each
6		identified project.
7		
8	IX.	Safety and Environmental Performance
9	Q.	Please describe the Company's approach to enhancing safety and
10		environmental performance.
11	A.	The Company believes a focus on operational excellence results in a safer
12		environment for both employees and the general public. To that end, the
13		Company is working to improve environmental compliance, reduce the
14		risk of environmental incidents and comply with legal and regulatory
15		requirements.
16		
17		For example, to meet environmental objectives, the Company is working
18		with its construction alliance partner, Northeast Power Alliance
19		("NEPA"), to implement best management practices ("BMPs") in
20		connection with transmission line re-builds in New York State to protect
21		sensitive areas. Work on hundreds of miles of electric transmission line

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

rights-of-way will involve or be close to freshwater wetlands, rivers, streams, other water bodies, forestlands, wildlife habitats and important agricultural, cultural and historical resource areas. Use of environmental BMPs will help assure that critically-needed transmission line reinforcements and refurbishments are accomplished in an environmentally compatible and responsible manner. Another example of the Company's environmental stewardship is its SF6 (sulfur hexafluoride) gas program. Equipment containing SF6 gas is monitored for leaks and leaks are mitigated as part of the Company's SF6 Mitigation Plan. Through the use of emerging technologies such as a camera using ultraviolet technology, determining SF6 leak locations and making equipment repairs is addressed on a more expedited basis. The Company also joined the U.S. Environmental Protection Agency Voluntary SF6 Reduction Partnership in 2004 and continues to report reductions on a yearly basis to the EPA. With respect to safety, the Company is implementing a series of initiatives to enhance the safety of employees and the general public. Through formation of Safety Strategy Committees ("SSC"), the Company is focused on increasing union participation and enhancing safety for all

1	employees. This improved involvement approach and continued focus on
2	ERGO power teaching should provide continuous improvements to our
3	safety performance.
4	
5	The reporting of near-miss incidents and hazardous conditions has also
6	exposed some areas of concern that may have otherwise gone unnoticed.
7	The SSC teams will further evaluate identified trends in order to
8	recommend corrective actions, and teams are being developed now to
9	evaluate ways of eliminating the most significant safety concerns. The
10	Company's safety department also works closely with our contractor
11	alliances and their safety professionals to share best practices and promote
12	a safe work place.
13	
14	The Company's objective is to create a working culture directed towards
15	achieving zero injuries and zero work-related illnesses—and at this time
16	the results have shown the effectiveness. Our efforts to enhance public
17	safety are equally robust and evidenced by the on-going improvements
18	with our electric system infrastructure and the creation of a new position
19	within the safety organization, Manager, Contractor, Public Safety and
20	Fleet.
21	

1	X.	Reporting Requirements
2	Q.	Please describe the Company's proposal relative to modifying certain
3		reporting requirements.
4	A.	Niagara Mohawk is subject to several periodic reporting requirements.
5		One such requirement established under the Merger Joint Proposal
6		approved in Case 01-M-0075 is the filing of a Load Pocket Study. The
7		Load Pocket Study filing requirement does not appear to serve any useful
8		purpose at this point, and the Company is seeking authorization from the
9		Commission to cease submitting this study in the future.
10		
11	Q.	Please describe the Load Pocket Study requirement.
12	A.	Section 1.2.22 of the MJP provides in part that:
13		Niagara Mohawk will provide to DPS Staff, within six months of
14		the Effective Date and every two years thereafter, economic
15		analyses of the costs and benefits (including the expected impacts
16		on customer commodity costs) of potential transmission
17		investments. These studies will include transmission investments
18		which will have the potential to benefit Niagara Mohawk
19		customers, including, but not limited to, analyses of congestion
20		costs, and local "load pockets," that is, those load pockets within

1		Niagara Mohawk's service territory whose impacts primarily affect
2		Niagara Mohawk customers.
3		
4		The Company has produced the required load pocket study every two
5		years, and filed it with the Commission. There are several reasons why
6		this requirement should be reexamined, and potentially eliminated.
7		
8	Q.	Why is the Company seeking to be relieved of the requirement to file
9		the Load Pocket Study?
10	A.	First, the development of the Load Pocket Study requires the engagement
11		of numerous Company resources to produce; yet, there is no evidence that
12		the study is useful. The Company has received no comments, questions,
13		or feedback of any kind from the Commission or its staff on any load
14		pocket study report it has submitted since 2003, suggesting to the
15		Company that the study has limited value to the agency.
16		
17		Likewise, the Company itself does not derive any business value from the
18		load pocket study. No transmission capital projects have been created or
19		implemented as a result of the findings of a load pocket study. Had the
20		load pocket studies not been required and not performed, there would have

1	been no difference in the Company's construction program or operations
2	during the corresponding period.
3	
4	Further, independent of any load pocket studies developed to satisfy the
5	reporting requirement, the Company also continues to improve its
6	transmission system in ways that mitigate or eliminate "load pockets."
7	For example, the 2009 load pocket study showed that transmission
8	projects planned for the Company's Northeast Region to fulfill reliability
9	requirements and serve load growth could eliminate the load pocket
10	entirely. In Western New York, the Huntley load pocket is caused by a
11	specific double circuit contingency (lines 193 and 194) and a resulting
12	constraint imposed by loading on line 195. For reliability reasons, the
13	Company has an approved project to re-conductor the line, mitigating the
14	load pocket as an additional benefit. Thus, load pocket mitigation is
15	occurring irrespective of any studies done to fulfill the reporting
16	requirement.
17	
18	Eliminating the Load Pocket Study requirement would avoid what appears
19	to be an unnecessary use of resources, and promote greater efficiency for
20	the benefit of the Company and its customers.
21	

- 1 Q. Does this conclude the panel's testimony?
- 2 A. Yes, it does.

- 1 BY MR. GAVILONDO:
- 2 Q Now, Panel, as part of your direct pre-filed
- 3 testimony, do you sponsor any exhibits?
- 4 A (Smith) Yes, in our pre-filed direct testimony we
- 5 sponsor 14 exhibits.
- 6 Q Were those exhibits prepared by you or under your
- 7 direction?
- 8 A (Smith) Yes, they were.
- 9 Q Okay.
- 10 MR. GAVILONDO: I ask that those exhibits to
- 11 the direct pre-filed testimony be marked for
- identification. I believe, Your Honor, there is a
- 13 list that appears to begin at Exhibit Number 81
- 14 through 94 for the 14 exhibits that represent the
- exhibits of the pre-filed direct.
- 16 ALJ BOUTEILLER: We've reserved those
- 17 numbers for the exhibits associated with the direct
- 18 testimony of this panel, and they'll be used.
- 19 Exhibits Numbers 81 through 94 are now provided for
- 20 those exhibits that were pre-filed with the direct
- 21 testimony.
- MR. GAVILONDO: Thank you.
- 23 BY MR. GAVILONDO:
- 24 Q Panel --
- MR. GAVILONDO: I'm going to forego

ALEXY ASSOCIATES, INC. (518) 798-6109

- 1 approaching, Your Honor.
- 2 Q I direct your attention to a document that consists
- 3 of a cover page and 17 pages of questions and answers and
- 4 ask if you could please identify that document for the
- 5 record?
- 6 A (Smith) This document is the pre-filed corrections
- 7 and updates testimony of the Infrastructure & Operations
- 8 Panel dated May 3, 2010.
- 9 Q Do you have any changes or corrections to that
- 10 document?
- 11 A (Smith) Changes or corrections to our corrections
- and updates testimony are addressed in our subsequent
- 13 submittal, rebuttal testimony.
- 14 Q Panel, if I were to ask you here today the questions
- 15 that appear in your pre-filed corrections and updates
- 16 testimony, would your answers be the same as they are in
- 17 that testimony?
- 18 A (Smith) Yes.
- 19 Q Okay. Do you adopt that pre-filed testimony as your
- sworn testimony in this proceeding?
- 21 A (Smith) Yes.
- MR. GAVILONDO: I request that the pre-filed
- corrections and updates testimony dated May 3rd of
- the Infrastructure & Operations Panel be moved into
- 25 the record.

1	ALJ BOUTEILLER: Absent objection I'll
2	instruct the reporter to copy into the record as if
3	given orally today the pre-filed corrections and
4	update testimony offered by this panel.
5	MR. GAVILONDO: Thank you.
6	(The referenced testimony is inserted into
7	the record as follows.)
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

Before the Public Service Commission

NIAGARA MOHAWK POWER CORPORATION d/b/a NATIONAL GRID

Corrections and Updates Testimony

<u>of</u>

The Infrastructure and Operations Panel

Dated: May 3, 2010

1	I.	<u>Introduction</u>
2	Q.	Please identify the members of the Infrastructure and Operations
3		Panel.
4	A.	The Panel consists of Ellen Smith, Bruce Walker and Keith McAfee.
5		
6	Q.	Is this the same panel that testified previously in this proceeding?
7	A.	Yes. The Infrastructure and Operations Panel ("IOP") provided direct
8		testimony as part of the Company's January 29, 2010 filing.
9		
10	Q.	What is the purpose of your corrections and updates testimony?
11	A.	The purpose of the Panel's corrections and updates testimony is to identify
12		and explain certain updates and/or corrections to direct testimony and
13		exhibits from the January 29, 2010 filing.
14		
15	Q.	Are you sponsoring any exhibits through your corrections and
16		updates testimony?
17	A.	Yes. The Panel sponsors the following exhibits:
18		1. Exhibit (IOP-1CU), Schedules 1, 2, 5, 6, and 8 (revised
19		infrastructure investment plan funding schedules to reflect
20		revised capital investment plan);

1		2.	Exhibit (IOP-6CU) (revised information systems projects
2			table reflecting corrected amortization amounts and actual
3			spending through March 2010);
4		3.	Exhibit (IOP-9CU) (corrected aerial inspection program
5			information);
6		4.	Exhibit (IOP-13CU) (corrected and revised description of
7			research, development & demonstration ("RD&D") programs
8			and funding levels); and
9		5.	Exhibit (IOP-13ACU) (new exhibit setting forth RD&D
10			program cost allocation percentages and annual funding
11			levels).
12			
13	Q.	What up	dates and/or corrections do you have to your January 29,
14		2010 test	imony and exhibits?
15	A.	The Panel	l's corrections and updates testimony describes the following
16		changes to	o the January 29, 2010 filing:
17		1. De	ownward adjustment to the infrastructure investment plan of
18		ap	proximately \$99 million for the FY11-FY14 period to reflect
19		re	moval of some proposed projects from the plan and the addition
20		of	others;

1		2. Updates to reflect a revised in-service date for the Company's
2		Energy Management System ("EMS") replacement project;
3		3. Changes in the amounts for capital-related operations and
4		maintenance ("O&M") costs and cost of removal ("COR");
5		4. Corrections in the testimony relating to facilities investments;
6		5. Corrections relating to information system investments;
7		6. Corrections relating to the Company's aerial inspection program;
8		and
9		7. Corrections relating to the proposed research, development and
10		demonstration ("RD&D") programs.
11		
12	II.	Corrections and Updates
13		<u>Update to Infrastructure Investment Plan</u>
14	Q.	Please describe the Company's updates relating to its infrastructure
15		investment plan.
16	A.	The Company is proposing an overall downward adjustment of \$99
17		million for the period FY11-FY14 in the transmission portion of its
18		investment plan. This adjustment reflects the removal of a number of
19		projects related with the Frontier Region Program described in our direct
20		testimony, as well as the addition of other projects required as a result of
21		the removal of the Frontier Region projects.

1	Q.	Please describe the Frontier Region Program and explain the basis for
2		removing the projects associated with it from the plan.
3	A.	Based on information evaluated after development of the infrastructure
4		plan reflected in the January 29 filing, the Company is proposing to
5		remove from the plan a number of projects included in the Frontier Region
6		Program. The removal of the projects in the Frontier Region Program will
7		also impact the Other Asset Condition Program and the Reliability Criteria
8		Compliance Program. The Frontier Region Program is described at pages
9		72 and 73 of the direct testimony of the IOP, and we do not repeat a
10		description of the program here.
11		
12		As part of its continuing review of system needs, in February 2010 the
13		Company performed an extensive review of the drivers behind the planned
14		construction of Tonawanda Station, the closure of the Packard 115 kV bus
15		tie and the re-conductoring of circuits between Packard, Tonawanda and
16		Gardenville substations. The review included 2009 Summer peak results
17		and the latest economic load growth forecast. The updated system
18		representation reflected significant load reductions at several large
19		industrial customers, a modified load distribution across the area and a
20		lower growth rate well into the future. The result of this evaluation
21		indicates that the capacity need driving the Frontier Region Program

projects will not likely materialize within the 15-year horizon for system projections. Therefore, the Company has removed these projects from the capital investment plan proposed in this rate case. Removing these projects from the plan is appropriate, and is consistent with the Commission's directives to eliminate or defer spending when doing so can be accomplished without compromising the provision of safe and reliable service.

Q. Please explain the changes proposed for the Reliability Criteria

Compliance and Other Asset Condition programs.

A. As part of the Reliability Criteria Compliance Program, the Strategy to Reinforce the Transmission System in New York's Frontier and Southwest Region (Strategy Paper SG 075 v2 – April 2009) included work to reconductor the #180 and #181 circuits, create a new 115 kV circuit between Packard and Gardenville using retired, in-place assets, and associated substation work at Packard, Tonawanda and Gardenville (referred to in SG 075 v2 as "Frontier Line Rebuilds (T Line and Station)" – project numbers C24018 and C24019, respectively). The reconductoring was originally required to prevent post-fault overloads under N-1 conditions; however, without the system changes at

1		is no longer necessary. Nevertheless, because the reconductoring projects
2		would have also addressed important asset condition issues at the same
3		time, it is now necessary to undertake additional projects in the Other
4		Asset Condition Program and the Other System Capacity & Performance
5		program.
6		
7	Q.	What specific projects are affected by removal of the projects in the
8		Frontier Region Program and what are the funding amounts
9		associated with those projects?
10	A.	The affected projects in the Frontier Region Strategy include project
11		numbers C11494 and C11495, as indicated in Exhibit (IOP-1),
12		Schedule 8, Sheet 13 of 26. The aggregate funding amounts for these two
13		projects were \$29.3 million (FY11), \$54.3 million (FY12), \$12.2 million
14		(FY13), and \$3.4 million (FY14), for a total of \$99.2 million for the
15		period FY11-14.
16		
17		The affected projects in the Reliability Criteria Compliance program
18		include project numbers C24018 and C24019, as indicated in Exhibit
19		(IOP-1), Schedule 8, Sheet 15 of 26. The aggregate funding amounts for
20		these two projects were \$1.6 million (FY11), \$2.1 million (FY12), \$14.5

million (FY13), and \$21.0 million (FY14), for a total of \$39.2 million for
the period FY11-14.

Does removal of the Frontier Region Program projects result in the
need for other capital work not reflected in the January 29, 2010
plan?

A. Yes. To ensure the long-term reliability of the Buffalo / Niagara Falls

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Yes. To ensure the long-term reliability of the Buffalo / Niagara Falls area, the Company must undertake six projects in the area - predominately on assets that would have been replaced or made less essential if the Frontier Region Strategy projects had moved forward under the period covered by this case. The projects needed include: (1) installation of permanent capacitor banks at the Huntley 115 kV bus and improvements to grounding at Huntley (project number CNYPL11-1); (2) replacement of the remaining shield wire on the #182 line (project number CNYAS11-1); (3) refurbishment of the Niagara-Gardenville #180 line (southern part) with the double circuited Packard-Urban #181 line (southern part) from Ellicott Junction to the Gardenville substation (project number CNYAS11-2); (4) interim safety related shield wire replacements (under Strategy SG073) on the Huntley – Lockport #36 / #37 lines (project number C28707); (5) replacement of shield wire on the Huntley – Gardenville #38 line (project number C28676); and (6) replacement of the shield wire on

1	the Packard-Huntley #130 and Walck-Road #133 lines between Huntley
2	and Ellicott Junction (project number C28712).
3	
4	Planned annual spending for the capacitor bank and grounding
5	improvement project is as follows: FY11 \$0.100 million, FY12 \$0.400
6	million, FY13 \$2.60 million, and FY14 \$0.950 million, for an aggregate
7	cost of \$4.05 million over the FY11-FY14 period. Planned annual
8	spending for the Huntley-Lockport #36 / #37, Huntley-Gardenville #38
9	and Huntley-Walck Road shield wire replacement work is \$1.275 million
10	in FY11 and \$0.275 million in FY12, for a total of \$1.550 million.
11	Planned annual spending for the refurbishment of the #180 and #181 lines
12	is as follows: FY11 \$0.02 million, FY12 \$0.5 million, FY13 \$15.0
13	million, and FY14 \$15.0 million, for an aggregate amount of \$30.52
14	million over the FY11-FY14 period. Planned annual spending for the
15	replacement of the remaining shield wire on the #182 line is as follows:
16	FY11 $\$0.02$ million, FY12 $\$0.08$ million, and FY13 $\$2.0$ million, for an
17	aggregate amount of \$2.1 million over the FY11-FY14 period.
18	

1		The revised capital investment amounts are set forth in Exhibit (RRP-
2		6CU), Schedule 1, Sheet 4, to the corrections and updates testimony of the
3		Revenue Requirements Panel.
4		
5	Q.	Has the Infrastructure and Operations Panel prepared revised
6		exhibits that reflect the described changes to the infrastructure
7		investment plan?
8	A.	Yes. Included with our testimony are Exhibit (IOP-1CU), Schedules 1,
9		2, 5, 6, and 8, which reflect the changes described above. In Schedule 8,
10		the pages that include the changes described above are Pages 13-15 and
11		22-25.
12		
13	Q.	Is the Company proposing any other changes to the infrastructure
14		investment plan proposed in the case?
15	A.	The Company will continue to review system needs; however, at this time,
16		no other changes in the plan are warranted.
17		
18		<u>Updated In-Service Dates for EMS Replacement Project</u>
19	Q.	Please describe the update related to the revised in-service date for
20		the EMS project.

1 A. The Company's Energy Management System ("EMS") Replacement 2 Project is described at pages 203-204 of the panel's January 29 direct 3 testimony. In our direct testimony, we indicated that work on the EMS 4 project was expected to continue through the end of 2012. The Company 5 now anticipates that the EMS project will be implemented earlier than 6 initially projected, with a current estimated in-service date of February 7 2012. 8 9 Revised capital-related O&M and COR costs 10 Q. Please describe the changes to the Company's filing relating to 11 capital-related O&M costs. 12 A. As described in the IOP testimony (pages 226-230 of 266), whenever the 13 Company undertakes capital investment work that affects existing 14 facilities, it incurs O&M costs related to that capital work. Because the 15 infrastructure investment plan presented in this case reflects an amount of 16 investment greater than in the historical test year period, the Company's 17 January 29, 2010 filing included an amount of incremental capital-related 18 O&M expense. Because of the downward adjustment to the Company's 19 infrastructure investment plan described previously, it is necessary to 20 reduce this level of incremental capital-related O&M expense.

1	Q.	What adjustment is the Company proposing to its capital-related
2		O&M expense?
3	A.	The Company is proposing reductions in capital-related O&M expense
4		associated with the downward adjustments in the infrastructure plan as
5		follows: CY11: \$2.22 million reduction; CY12: \$0.75 million reduction;
6		and CY13: \$0.40 million reduction.
7		
8	Q.	Did the Company identify any other corrections needed in capital-
9		related O&M?
10	A.	Yes. In preparing its response to IR AJR-8, the Company identified a
11		spreadsheet cell reference error that resulted in an overstatement of annual
12		capital-related O&M amounts of \$0.64 million. The Company has
13		addressed the cell reference error and calculated a corrected capital-related
14		O&M amount. Adding this adjustment and the adjustment associated with
15		the reduced capital plan amount produces total annual capital-related
16		O&M reductions of: \$2.86 million in CY11, \$1.39 million in CY12 and
17		\$1.04 million in CY13. These reduced amounts are reflected in Exhibit
18		(RRP-2CU), Schedule 35, Sheet 4 to the corrections and updates
19		testimony of the Revenue Requirements Panel.
20		

1	Q.	Please describe the changes to the Company's filing relating to cost of
2		removal ("COR").
3	A.	As described in the IOP testimony (pages 134-135 of 266), whenever
4		existing assets are removed from the Company's asset inventory (e.g., due
5		to replacement, retirement, etc.), the Company incurs costs considered
6		COR. The amount of COR estimated in this case is based on the
7		investment levels included in the infrastructure plan. Because of the
8		downward adjustment to the Company's infrastructure investment plan
9		described previously, it is necessary to reduce the level of incremental
10		COR in the case.
11		
12	Q.	What adjustment is the Company proposing to its COR amount?
13	A.	The Company is proposing reductions in COR amounts associated with
14		the downward adjustments in the infrastructure plan as follows: FY11:
15		
		\$2.20 million reduction; FY12: \$4.18 million reduction; FY13: \$0.53
16		\$2.20 million reduction; FY12: \$4.18 million reduction; FY13: \$0.53 million reduction; and FY14: \$0.61 million reduction. These reduced
16		million reduction; and FY14: \$0.61 million reduction. These reduced
16 17		million reduction; and FY14: \$0.61 million reduction. These reduced amounts are reflected in Exhibit (RRP-6CU), Schedule 1, Sheet 5 to the
161718		million reduction; and FY14: \$0.61 million reduction. These reduced amounts are reflected in Exhibit (RRP-6CU), Schedule 1, Sheet 5 to the

1		Facilities-related investments
2	Q.	Please describe the corrections identified to the Company's facilities-
3		related investment.
4	A.	We describe two corrections to the panel's January 29 testimony. First, at
5		page 188 of 266, the panel describes that National Grid's Northborough,
6		Massachusetts consolidated control center would serve to "back up" the
7		Company's Henry Clay Boulevard consolidated control center in the event
8		of an evacuation of the Henry Clay Boulevard facility. Although the
9		Northborough facility will have visibility over the Company's system, the
10		primary back-up facility in the event of an evacuation of the Henry Clay
11		Boulevard control center will be at the Company's Syracuse Office
12		Complex in Syracuse. This correction is only for purposes of clarification,
13		and has no other impact on the Company's operations or revenue
14		requirements.
15		
16	Q.	Please describe the second facilities-related correction.
17	A.	At page 197 of 266, line 9, of the direct testimony, the reduction of lease
18		expense related to the Star Lake facility should read "\$8,725," not
19		"\$5,500."
20		
21		

1		<u>Information System investments</u>
2	Q.	Please describe the corrections identified to the Company's
3		information systems investments.
4	A.	The Company's infrastructure-related information system ("IS")
5		investments are described at pages 198-204 of 266 of the IOP's direct
6		testimony, and in Exhibit (IOP-6). In responding to IR MM-42, the
7		Company determined that it had reflected only a portion of the applicable
8		amortization amounts for the following Operations-related IS projects in
9		Exhibit (IOP-6): INVP 1185, 1242, 1243, 1246, 1363, 1482, 1484,
10		1642, 2144, 2182, and 2195. Attached as Exhibit (IOP-6CU) is a
11		revised table reflecting the correct amortization amounts and actual
12		spending through March 2010.
13		
14		Aerial Inspection Program
15	Q.	Please describe the corrections identified to the Company's aerial
16		inspection program.
17	A.	The aerial inspection program is described at pages 219-220 of 266 of the
18		IOP's direct testimony. In preparing its response to IR VVP-13, the
19		Company identified several reference errors in Exhibit (IOP-9),
20		Schedule 2, relating to the transmission aerial patrol program. These
21		errors were described in detail in the response to IR VVP-13, and are

1		reflected in revised Exhibit (IOP-9CU), Schedule 2, included with this
2		corrections and updates testimony. The corrections do not impact the
3		Company's proposed funding level of the aerial inspection program.
4		
5		Research, Development and Demonstration ("RD&D") Program
6	Q.	Please describe the corrections identified to the Company's RD&D
7		program.
8	A.	The Company's RD&D programs are described at pages 251-260 of 266
9		of the IOP's direct testimony, and in Exhibit (IOP-13) of the January
10		29 filing. Exhibit (IOP-13) provides a detailed description of each
11		program as well as annual funding amounts for each program. In
12		responding to IR MM-120, the Company determined that the incremental
13		funding amounts described for the programs reflected total funding levels,
14		and not just the portion of funding that was allocable to Niagara Mohawk.
15		In addition, the Company determined that in Exhibit (IOP-13), it had
16		reflected the costs (unallocated) of the EPRI Reactive Power Management
17		Program twice (\$80,000 annually), incorrectly included the Grid Wise
18		Alliance program (\$20,000 annually), and misstated the CY 12 funding for
19		the DV2010 program (should have been \$50,000, but was reflected as
20		\$150,000).
21		

1	Q.	What has the Company done in this filing to address these errors.
2	A.	The Company calculated Niagara Mohawk's allocated share of the RD&D
3		program costs and included those costs in its updated revenue
4		requirements submission. As a result of these corrections, the corrected
5		incremental RD&D funding levels above the historic test year amount are
6		\$0.635 million in CY11, \$1.378 million in CY12, and \$1.559 million in
7		CY13, for a three-year incremental funding total of approximately \$3.57
8		million. The corrected funding amounts associated with the individual
9		RD&D programs, as well as the allocation percentages and the revised
10		annual funding levels are reflected in Exhibit (IOP-13A-CU) included
11		with our testimony. In addition, the panel is sponsoring Exhibit (IOP-
12		13CU), which presents the program information originally included in
13		Exhibit (IOP-13), revised to reflect removal of the Grid Wise Alliance
14		and redundant EPRI Reactive Power Management programs, as well as
15		the corrections to the funding levels as described above.
16		
17	Q.	Does the panel have any other corrections or updates at this time?
18	A.	No. However, conditions facing the Company are always changing, and
19		the Company is continually evaluating opportunities to reduce costs and
20		provide service to customers in the most efficient manner practicable. To

the extent the panel identifies additional corrections or updates that

- significantly affect its testimony in this case, it will seek to bring them to
- 2 the attention of the Commission.

- 4 Q. Does this conclude the panel's testimony?
- 5 A. Yes, it does.

- 1 BY MR. GAVILONDO:
- 2 Q Panel, do you sponsor any exhibits as part of your
- 3 pre-filed corrections and updates testimony?
- 4 A (Smith) Yes, in our pre-filed corrections and
- 5 updates testimony we sponsored five exhibits.
- 6 Q Were those exhibits prepared by you or under your
- 7 direction?
- 8 A (Smith) Yes, they were.
- 9 MR. GAVILONDO: I request that the five
- 10 exhibits that accompany the corrections and updates
- 11 testimony which have been identified, reserved
- 12 Exhibits Numbers 95 through 99 be applied to those
- exhibits.
- 14 ALJ BOUTEILLER: We will use those numbers
- 15 which have been reserved for this portion of the
- testimony, Numbers 95 through 99.
- 17 MR. GAVILONDO: Thank you, Your Honor.
- 18 BY MR. GAVILONDO:
- 19 Q Were those exhibits prepared by you or under your
- 20 direction? I think I may have already --
- 21 A (Smith) Yes, you did.
- 22 O Yes, I did. Thank you. Panel, I turn your attention
- 23 to a copy of a document that consists of a cover page, a
- two-page table of contents and 167 pages of questions and
- answers, and ask if you can identify that for the record?

- 1 A (Smith) This document is the pre-filed rebuttal
- 2 testimony of the Infrastructure & Operations Panel dated
- 3 August 6, 2010.
- 4 Q And, Panel, do you have any changes or corrections to
- 5 your pre-filed rebuttal testimony?
- 6 A (Walker) Yeah, we do. At page 24 of 167 on line 10,
- 7 the amount 133,000 should be replaced with 104,000. And
- 8 on page 25 of 167 the -- similarly, the 133 which is at
- 9 line 6 should be replaced with 104,000. And at line 8,
- the sentence beginning with the word "however," all the
- 11 way through the 150,000 should be stricken. And at line
- 12 12, the amounts 70 and 180,000 should be replaced with
- 13 27,000 and 143,000 respectively. And at line 13 the
- 14 133,000 should be replaced with 104,000. And at page 26
- 15 the amounts on line 1 -- states 133,000, should be
- replaced with 104,000, and the forecast amount of 26.6
- 17 million should be replaced with 20.8. And then the 20
- 18 million should be replaced with 15.6 million.
- 19 Q Thank you, Mr. Walker. Does the panel have any
- 20 corrections to any exhibits that were included in the
- 21 corrections and updates -- I'm sorry, in the rebuttal
- 22 testimony?
- 23 A (Walker) Yes. In Exhibit IOP-1R, schedule 1, page 1
- 24 of 1, the note at the bottom of the sheet refers to
- exhibit (the Revenue Requirement Panel-20R). It should be

1	21R in	nstead of 20R.
2	Q T	hank you. If I were to ask you here today these
3	same c	questions that appear in your pre-filed rebuttal
4	testim	mony, would your answers be the same as contained in
5	that t	testimony as you've just described corrected?
6	Α (Smith) Yes.
7	Q D	o you adopt that as your sworn testimony in this
8	procee	eding?
9	Α (Smith) Yes.
LO		MR. GAVILONDO: I ask that the pre-filed
L1	r	rebuttal testimony as corrected be entered into the
L2	r	record.
L3		ALJ BOUTEILLER: Absent objection it will be
L4	е	entered into the record as you've described it by the
L5	W	ritness today.
L6		(The referenced testimony is inserted into
L7	t	the record as follows.)
L8		
L9		
20		
21		
22		
23		
24		

Before the Public Service Commission

NIAGARA MOHAWK POWER CORPORATION d/b/a NATIONAL GRID

Rebuttal Testimony

<u>of</u>

The Infrastructure and Operations Panel

Dated: August 6, 2010

TABLE OF CONTENTS

I. Iı	ntroduction	1
II.	Capital Investment Plan	
A.	Transmission Upgrade Projects	
1.		
2.	Clay & Porter Station BPS Upgrades	12
3.	Reliability Criteria Compliance	14
4	$\boldsymbol{\mathcal{U}}$	
5.		
6		
В.	Transmission Asset Replacements	
1.	· · · · · · · · · · · · · · · · · · ·	
2	$\mathcal{E}_{\mathcal{I}}$	
3.	$\mathcal{L}_{\mathcal{I}}$	
4	$\mathcal{L}_{\mathcal{I}}$	
5.		
6	Relay Replacement Strategy	44
C.	Sub-Transmission and Distribution Projects	47
1.		
2		
3.	\mathcal{E}	
4	$\boldsymbol{\mathcal{C}}$	
5.		
6.		
D.	Swe Transmission with 2 issue when the proventions	
1.		
2	\mathcal{E}	
3.		
5.		
E.	Non-Infrastructure Capital Investments	
F.	Cash Outlays	
G.	Facilities, Properties and Lease	
Н.	Inventory Management	
I.	Capital Investment Plan Implementation	
1.	Transmission Regional Delivery Ventures	
2		
III.	Operation & Maintenance Expense	
A.	Operating Expense Associated with Incremental Capital Investment	
В.	Additional Employees	
C.	RD&D	
D.	Tower Painting	
E.	Infra-red and Aerial Patrol	
F.	Transmission Footer Inspections	115

G.	Incremental Distribution I&M Program	115
IV.	Capital Investment Reconciliation Mechanism	117
V .	Staff Vegetation Management Panel	117
A.	Transmission Vegetation Management	118
B.	Distribution Vegetation Management	123
VI.	Staff Reliability Performance Mechanism Panel	126
VII.	Storm Costs/Storm Fund	139
VIII.	Site Investigation and Remediation	149
IX.	Pace Energy and Climate Center and Natural Resources Defense Council	158

- 2 Q. Please identify the members of the Infrastructure and Operations Panel.
- 3 A. The Panel consists of Ellen Smith, Bruce Walker and Keith McAfee.

4

- 5 Q. Is this the same panel that testified previously in this proceeding?
- 6 A. Yes. The Infrastructure and Operations Panel ("IOP") provided testimony as part 7 of the Company's January 29, 2010 and May 3, 2010 filings.

8

9

- Q. What is the purpose of your testimony?
- 10 The purpose of our testimony is to respond to issues raised in the testimony of the A. 11 Staff Infrastructure Panel on the Company's infrastructure and operations plans 12 presented in this case. We also respond to the testimony of the Staff Vegetation 13 Management Panel, the Staff Reliability Performance Mechanism Panel, and 14 portions of the testimony of the Staff Accounting Panel and Policy Panel to the 15 extent that testimony relates to matters addressed in the January 29, 2010 direct 16 pre-filed testimony and the May 3, 2010 Corrections and Updates testimony of 17 the Infrastructure and Operations Panel. In addition, we respond to the testimony 18 of James M. Van Nostrand on behalf of the Pace Energy and Climate Center and 19 the Natural Resources Defense Council.

- 21 Q. Are you sponsoring any exhibits through your rebuttal testimony?
- 22 A. Yes. The Panel sponsors the following exhibits:

1	1.	Exhibit (IOP-1R), Comparison of Company and Staff proposed Capital
2		Adjustments and Balances;
3		Schedule 1—Summary Comparison of Transmission, Sub-
4		Transmission and Distribution Capital Adjustments and Balances;
5		Schedule 2—Comparison of Transmission Adjustments and
6		Balances by Program;
7		Schedule 2A—Transmission Capital Investments-Reserve
8		Adjustments;
9		Schedule 3— Comparison of Sub-Transmission Adjustments and
10		Balances by Program;
11		Schedule 4— Comparison of Distribution Adjustments and
12		Balances by Program;
13	2.	Exhibit (IOP-2R), Comparison of Select Company and Staff Proposed
14		Incremental Operating Expense Adjustments and Balances;
15	3.	Exhibit (IOP-3R), Condition Report: Mortimer – Golah #109 Line;
16	4.	Exhibit (IOP-4R), Conductor Clearance Strategy: Average Cost per
17		Span;
18	5.	Exhibit (IOP-5R), Oil Circuit Breaker Trouble Report History;
19	6.	Exhibit (IOP-6R), Revised Facilities Capital Budget;
20	7.	Exhibit (IOP-7R), Additional Employee Summary Information;
21	8.	Exhibit (IOP-8R), 115 kV ROW Widening—Target Circuits;
22	9.	Exhibit (IOP-9R), Sub-Transmission ROW Widening—Target
23		Circuits;

1		10. Exhibit (IOP-10R), Saratoga Springs SIR Site Memorandum;
2		11. Exhibit (IOP-11R), National Council on Electricity Policy Report; and
3		12. Exhibit (IOP-12R), Select Information Request Responses Referenced
4		in Company Testimony but Not Contained in Staff Exhibit (SPP-1).
5		
6	Q.	Summarize the Company's position on the Staff's testimony.
7	A.	The Staff did a thorough job in reviewing the Company's presentation, and made
8		several recommendations based on its view of the Company's proposal. In a
9		number of instances, Staff identified errors or proposed adjustments with which
10		the Company agrees. Where the Company accepts an adjustment or agrees with
11		an issue raised by Staff or another party, such acceptance or agreement is
12		affirmatively noted. However, on many other issues, the Company does not agree
13		with the Staff's proposed adjustments. With respect to issues on which the
14		Company does not accept Staff's position, and for which additional information is
15		necessary to clarify the record, we provide testimony. In the case of issues on
16		which the Company disagrees with Staff and relies solely on its previously filed
17		testimony to support its position, we do not repeat our previous testimony here.
18		
19	Q.	How is your testimony organized?
20	A.	To try to facilitate comparison and review, our testimony will generally follow the
21		organization of the Staff's testimony.
22		

Q. Does your testimony reflect any updates?

1	A.	Capital planning for an electric utility by necessity is done on a multi-year
2		timeframe due to the long-lead time, capital intensive nature of the infrastructure
3		investment. The Company is continually refining its spending plans based on
4		new information on field conditions, more detailed project estimates, and
5		reprioritization based on system and customer needs. To the extent that the
6		Company has identified material changes in its capital or operational plans that
7		would affect the proposal set forth in this case, we identify such updates here in
8		the context of the particular projects or programs affected.
9		
10	Q.	Has the Company revised its proposed capital investment and operations
11		plans in this rebuttal testimony?
12	A.	Yes, the Company proposes several adjustments to its capital investment plan, the
13		net effect of which would be a downward adjustment of \$111.279 million for the
14		period FY11-FY14 when compared to the Company's May 3 filing. The
15		Company's filing also supports a downward adjustment of \$4.489 million for rate
16		year 2011 relating to various operational expenses. A summary of these
17		adjustments and the resulting balances is provided in Exhibit (IOP-1R)
18		(capital) and Exhibit (IOP-2R) (operating expenses).
19		
20	II.	Capital Investment Plan
21	Q.	Please address the Staff's proposal regarding a one-year rate case versus
22		three-years.

1	A.	Staff proposed moving forward on the basis of a one-year case. However, the
2		Staff Infrastructure Panel evaluated and proposed testimony based on the
3		Company's proposed three-year capital plan. A multi-year period is appropriate
4		in the context of evaluating a utility's capital investment plans given the long-
5		term planning horizon and long lead-times associated with planning and
6		implementing such plans. Such a time-frame provides improved planning
7		stability compared to a one-year plan. Thus, the Company appreciates the effort
8		and willingness of the Staff Infrastructure Panel to evaluate the Company's
9		proposed multi-year plan, and believes the Commission should likewise establish
10		rates in this proceeding to cover the three-year period 2011-2013.
11		
12	Q.	Staff recommended several adjustments relating to several specific capital
13		programs and projects. Could you please address them?
14	A.	Yes. As noted above, we will follow the general format set forth in the Staff
15		Infrastructure Panel's testimony to facilitate comparison.
16		
17		A. <u>Transmission Upgrade Projects</u>
18		1. Northeast Region Reinforcement Strategy
19	Q.	What is the Staff's position with respect to the Company's proposed
20		Northeast Region Reinforcement ("NERR") project?
21	A.	Staff's position is that the Company used too stringent a reliability planning
22		standard in designing the NERR project. As a result, Staff is recommending no
23		funding on the fourth Rotterdam transformer or Turner Road Substation, and a

1		total downward adjustment of \$54.6 million in FY12-FY14 in connection with
2		this strategy.
3		
4	Q.	Does the Company agree with the Staff Infrastructure Panel's views on
5		transmission planning criteria and study methods?
6	A.	No. Although Staff states that they "fully support adherence to all applicable
7		reliability criteria," (p. 43) there are two specific areas in which the Company
8		disagrees with the panel. The Company differs with the Staff Panel on how
9		contingencies involving large power transformers should be reflected in planning
10		studies, and also on how generation should be represented in planning models.
11		
12	Q.	Please describe how the Company's position on how contingencies involving
13		large power transformers should be reflected in planning studies differs from
14		that of the Staff Panel.
15	A.	
16		In its discussion of the Northeast Region Reinforcement program (p. 44), Staff
10		In its discussion of the Northeast Region Reinforcement program (p. 44), Staff states that the Company "is relying on double contingency outages (loss of two
17		
		states that the Company "is relying on double contingency outages (loss of two
17		states that the Company "is relying on double contingency outages (loss of two area transmission transformers)" to justify the Turner Road and Rotterdam
17 18		states that the Company "is relying on double contingency outages (loss of two area transmission transformers)" to justify the Turner Road and Rotterdam projects, "both of which go beyond reliability criteria requirements." The Staff
17 18 19		states that the Company "is relying on double contingency outages (loss of two area transmission transformers)" to justify the Turner Road and Rotterdam projects, "both of which go beyond reliability criteria requirements." The Staff Panel continues by stating that they do not recommend funding of these projects

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

These statements indicate a misunderstanding by the Staff Panel of the transmission planning criteria that form the foundation for the Company's planning studies. The Staff Panel presents as its Ex. (SIP-4) National Grid's procedure TGP28, Transmission Planning Guide. Section 4.2.6 of TGP28 discusses expected restoration time, noting that "Restoration times are typically longer than 24 hours for generators, gas insulated substations, underground cables, and large power transformers." TGP28 goes on to state, "When the expected restoration for a particular contingency is expected to be greater than 24 hours, analysis should be performed to determine the potential impacts if a second design contingency were to occur prior to the restoration of the failed equipment." In the event a large autotransformer (such as one of the Rotterdam 230-115 kV banks) fails, restoration could easily take many weeks or months, far exceeding the 24 hour period described in TGP28. If the assessment of the cause and damage reveals that repairs can be achieved on site, the assessment and repairs alone would likely take more than 24 hours. If the failure is serious enough to require factory repair, or so serious that the bank is not repairable, it would take two to three weeks to drain the oil, prepare the unit for removal, arrange for the equipment needed to remove the transformer from the foundation, and transport it to a different location. If a spare transformer of the appropriate specifications is available, moving it onto the foundation (after removal of the failed unit), and preparing and testing it for energization and service would take an additional two to three weeks. If no spare is available, the time the system will be without the

transformer would be longer. All these factors combine to result in a period of weeks or months during which the system will be operating in an N-1 state.

During this lengthy period, the system would be vulnerable to the loss of another system element, such as a transmission line or another transformer, resulting in what is commonly referred to as an N-1-1 situation. Ensuring that system voltages will be acceptable and that transmission lines, transformers and other equipment will not exceed their ratings is essential to meeting the expectations of TGP28.

Q. What would be the potential consequences of not designing the system to sustain such N-1-1 situations?

A. The exact consequences would vary depending on what time of year the events were to occur, the system load level and bulk power system transfers at that time, how long the two contingencies overlap, and other factors. However, if the heavy summer load periods were to be involved, it is likely that significant (and costly) constraints in bulk power transfers and system dispatch may be required, and emergency operating procedures including customer appeals and other measures would be activated. Although a last resort, it is quite possible that service to large numbers of customers might have to be interrupted (rotating blackouts) to prevent serious damage to the remaining, undamaged transformers.

1	Q.	Are there additional reasons why the Company considers it consistent with
2		good utility practice to plan for situations involving two transformers out of
3		service at the same time?
4	A.	Yes. NERC planning standard TPL-003-0a, NPCC planning criteria contained in
5		NPCC Directory 1 (section 5.4), and the New York State Reliability Council
6		Reliability Rules (which are approved by the Commission and for which
7		compliance is mandatory) all contain provisions for contingencies involving more
8		than one bulk power system element at a time. Of particular note are the
9		requirements for planning the system for N-1-1 contingencies, which result in two
10		bulk power system elements being out of service simultaneously (although
11		triggered by separate events). A further illustration that planning for more than a
12		single contingency is good utility practice is present in the local reliability rules
13		section of the NYSRC Reliability Rules, where it states that "Certain sections of
14		the Con Edison system are designed and operated for the occurrence of a second
15		contingency." Thus, the Company believes the planning criteria underlying the
16		development of the Northeast Region Reinforcement project are consistent with
17		good utility practice and industry standards, and disagree that planning for
18		projects that go "beyond single contingency criteria" is inappropriate.
19		
20	Q.	Are there other concerns with the Staff Panel's position on the Northeast
21		Region Reinforcement project?
22	A.	Yes. In its testimony (p. 42) the Staff Panel extensively quotes from the
23		Company's Strategy paper SG060, dated September 2006, and which was

provided in response to information requests. However, more recent information was provided in response to IR DPS-556 (JJA-65). In response (2) (D) of that IR the Company clearly states that the GlobalFoundries load (the current, correct name for Advanced Micro Devices) is expected to reach 36 MW by 2012. A more recent load projection from GlobalFoundries puts this load at 74 MW, with the potential to more than double, depending on economics associated with the customer's initial plant. This updated information further underscores the need for transmission reinforcement for the area following the Company's current schedule.

A.

Q. Based on the factors you've discussed, does the Company believe that it is appropriate to plan its system to sustain N-1-1 situations involving large power transformers?

Yes, in many situations the Company believes that the reliability implications for its customers, should it fail to plan its system this way, would be serious and that it is prudent, and consistent with planning standards and criteria, to do so.

Applying N-1-1 analysis for the large power transformers, consistent with TGP28 and other industry standards, supports the need to complete the Turner Rd. substation and to install the Rotterdam 230-115 kV autotransformer. Failure to fund these components of the Northeast Region Reinforcement project, as suggested by the Staff Panel, will expose the Company and its customers to significant reliability risks. Accordingly, Staff's proposed adjustment should be rejected.

1		
2	Q.	Is the Turner Road substation required for reasons unrelated to the N-1-1
3		analysis?
4	A.	Yes. Turner Road will also help to maintain 115 kV transmission line loadings in
5		the Albany area within limits for N-1 contingencies. Without Turner Road,
6		several N-1 contingencies would trigger the potential need to reconductor 20-25
7		miles of 115 kV lines, at substantial cost. The Turner Road project should not be
8		viewed as solely justified by the N-1-1 analysis.
9		
10	Q.	Does the Company agree with the Staff Infrastructure Panel's proposal to
11		procure one or two additional 230/115kV spare transformers as an
12		alternative to the planned work at Rotterdam and the Turner Road
13		substation under the Northeast Region Reinforcement program?
14	A.	No. As stated above, the Company believes that applying N-1-1 analysis for the
15		large power transformers, consistent with TGP28 and other industry standards,
16		supports the need to complete the Turner Rd. substation and to install the
17		Rotterdam 230-115 kV autotransformer. Failure to fund these components of the
18		Northeast Region Reinforcement project, as suggested by the Staff Panel, will
19		expose the Company and its customers to reliability risks.
20		
21	Q.	Is the Company recommending to update the capital expenditures for the
22		Northeast Region Reinforcement Strategy?

- 1 A. No. Based on the foregoing testimony, we recommend total capital forecasts of
- 2 \$7.34 million, \$41.16 million, \$64.99 million and \$38.45 million in FY 11, FY
- 3 12, FY 13, and FY 14, respectively, as shown in Exhibit (IOP-1R), Schedule 2.

4

5

- 2. <u>Clay & Porter Station BPS Upgrades</u>
- 6 Q. The Staff Panel proposed no adjustment to the Clay and Porter substation
- 7 upgrade projects based on the Company initial filings. Has the Company
- 8 updated the information for these projects?
- 9 A. Yes. The table below shows the Company's latest forecast for the Clay and
- 10 Porter BPS rebuild projects.

Project #	Title	FY11	FY12	FY13	FY14	Total
C28686	Porter – 115kV	\$0.1 m	\$12.0 m	\$12.0 m	\$0	\$24.1 m
	(Original)					
	Porter 115kV	\$0.3 m	\$3.0 m	\$8.0 m	\$20.0 m	\$31.3 m
	(Revised)					
C28705	Clay 115kV	\$9.75 m	\$8.0 m	\$11.0 m	\$0	\$28.75 m
	(Original)					
	Clay 115kV	\$11.68 m	\$16.65 m	\$5.83 m	\$5.99 m	\$39.15 m
	(Revised)					
Total	Original	\$9.85 m	\$20.0 m	\$23.0 m	\$0 m	\$52.85 m
	Revised	\$11.98 m	\$18.65 m	\$13.83 m	\$25.99 m	\$70.45 m

11

- 12 Q. What has changed since the original Capital Investment Plan submission in
- 13 **January 2010?**

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

A. The originally approved strategy for Porter proposed a single straight bus layout. After further analysis it was determined that the number and duration of outages required to implement the original plan would make it infeasible from a construction perspective. It was also recognized that with this layout a stuck tie breaker would cause an outage of both 115kV busses at Porter which would separate the surrounding 115kV system from all bulk power support. As a result a revised breaker-and-a-half arrangement was recommended in July 2010 to maintain reliability. In addition to the layout change, short-circuit analysis has since identified nine 230kV circuit breakers at Porter that are over duty and hence in need of replacement. As a consequence of needing to replace the 230kV breakers, upgrades to protection and controls are also required since the 230kV site was previously 'grandfathered,' or exempted, from the more stringent NPCC Bulk Power requirements, and the exemption will no longer apply once the breakers are replaced. The 230kV circuit breaker replacements were originally budgeted under project CNYAS36. The movement of funding from this project to the BPS Station Upgrade project does not change on the Company's overall revenue requirement. Q Is the Company recommending to update the capital expenditures for the **Substation BPS Upgrades Strategy?** A. Yes. Based on the foregoing testimony, we recommend total capital forecasts of \$11.98 million, \$18.65 million, \$13.83 million and \$25.99 million in FY 11, FY

12, FY 13, and FY 14, respectively. Compared to the Company's original

testimony forecast of \$9.85 million, \$20 million and \$23 million in FY11, FY12 and FY13, this is a net increase of \$17.6 million over the period FY11 – FY14, as shown in Exhibit __ (IOP-1R), Schedule 2.

3. <u>Reliability Criteria Compliance</u>

- Q. You previously described the Company's approach to the N-1-1 planning standards. Please describe how the Company's views on the modeling of generation differ from those of the Staff Panel, and why.
- 9 A. The Staff Panel asserts that "reliability criteria do not call for the elimination of dependence upon local generation" (p. 52). Although the Company agrees with this statement in general, it also believes that this is an oversimplification and not correct in many planning situations.

Section 3.5.6 of the TGP28 describes the generation dispatch approach that should be used in transmission planning studies. There it states: "The intent is to bias the generation dispatch such that the transfers over select portions of the transmission system are stressed pre-contingency as much as possible." In some cases, this may mean modeling a particular generator at its maximum output, as that would provide the maximum stress to the system. However, when local 115 kV systems are studied, especially in weaker parts of the system, the system may be stressed most when a particular generator is out of service. Where this is the case, the Company performs its local 115 kV area studies with the largest or most critical generator in the study area out of service as a base case condition. This

does not, as the Staff Panel asserts, constitute a double contingency test (p. 53) when a contingency involving another system element is studied. It is a recognition that the base condition on any given day may involve the generator being unavailable, and that reliability must be maintained for the remaining system.

An alternative way to look at this situation is to consider that loss of a generator can be a long restoration time event. Generators can be off line not only because they fail to be selected in the NYISO unit commitment process, but also because of equipment failures. In fact, there have been cases where generators have gone off line and never returned to service because of equipment failures that the owners considered too expensive to repair. In this sense, loss of a generator could be thought of as the first contingency in an N-1-1 scenario, for which the system must be operable without voltage or loading violations. The Company, however, believes that the more appropriate view is that the generator should be out of service in the base case, with N-1-1 testing applied to that case. Either way, sound and responsible transmission planning should not consider a generator outage to be an N-1 contingency and ignore the consequences of other elements failing while the generator is out of service.

Q. What evidence is there that planning with one or more generators out of service in the base case is regarded as an appropriate practice?

A. The Company has not attempted to identify all utilities that conduct planning with generators out of service, but is aware of significant utilities that do. For example, utilities in California follow the California ISO Grid Planning Standards, which state, in Section II.3: "Combined Line and Generator Outage Standard - A single transmission circuit outage with one generator already out of service and the system adjusted shall meet the performance requirements of the NERC Planning Standards for Category B contingencies." Thus, with respect to the assumption that a generator should be out of service in the base case prior to conducting N-1 testing, California's transmission planning approach is very similar to the Company's approach. Closer to home, ISO-New England's ISO-TO Study Coordination Group has determined that New England studies should be done with two generators out of service in the base case. They are working on possible changes to their Reliability Guide. While this has not yet been formally approved, there is consensus and it is probable that this approach will be adopted. While not binding on New York studies, these examples demonstrate that the Company's practice of taking one generator out of service in the base case is not out of line with practices elsewhere in the industry. What implications do these differences regarding planning criteria for generator out of service have for the Company's capital projects?

18

19

20

21

22

23

A.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

Q.

Properly testing the Company's Southwest area with the Indeck Olean generation out of service, consistent with TGP28 and other industry practices, supports the need for the Southwest 345-115 kV substation. The Staff Panel discusses out-of-

merit generation costs (p. 52) as if the sole purpose of these projects is to avoid those costs, and as if running out-of-merit generation is a sufficient alternative to constructing the proposed system reinforcements. This is a mischaracterization. Failure to plan the system for the absence of the Indeck Olean generation would be more than an economic issue; it would expose customers in the area to reliability risks in the event of a serious equipment failure.

It is true that the Company's strategy paper SG075 notes that the projects will provide the benefits of eliminated reliance on local generation and avoidance of out-of-merit dispatch costs. However, these are not the drivers for the projects. The projects are a complete package of components that together will ensure that all applicable reliability criteria are met, including needs that are either unrelated to the local generation or not entirely addressed by its presence. The fact that independence from the local generation will result should be viewed as an ancillary benefit. Paying out-of-merit generation costs is not, by itself, a sufficient alternative to meeting the system needs.

The Staff Panel portrays N-1 contingencies with the Warren-Falconer #171 line out of service and Indeck Olean generation off line as a "triple contingency" (p. 53). However, in actuality, Line #171 was out of service 26% of all hours between 2003 and 2009. This increases to 35% if only summer hours are considered. This is because First Energy, the utility that owns the southern portion of the line, and whose equipment limits the overall capability of the

circuit, must open it to prevent overload. The line is most likely to be open at the precise times when it might be useful to support the Southwest region needs. In fact, a Special Protection System exists at First Energy's Warren substation that will trip the line if it surpasses its limits. Thus during real time system emergencies, operators would not have the ability to keep the line in service and may not have any warning prior to the line tripping. This is a normal, frequent situation that is so prevalent that it must be regarded not as a contingency but as a base case condition. Seasonal Operating studies performed by the NYISO reflect this condition. Transfer levels for the NY-PJM interface are calculated with and without three 115 kV lines, one of which is #171. Relative to the Indeck Olean generation, as noted previously, it is the Company's practice, based on TGP28, to take a local generator out of service in the base case. Thus, it is inaccurate to portray the scenario studies as triple contingencies, when they do not reflect very rare occurrences, and are at most N-1 or N-1-1 situations.

A.

Q. Are there any other concerns with the Staff Panel position relative to the Southwest and Frontier projects?

Yes. Staff supports the reconductoring of the Warren-Falconer #171 line (p. 54) but does not support the Southwest 345-115 kV station. This will not work because First Energy owns 59% of the line and must pay for the reconductoring of their portion, which is 11.55 miles. They will only do this if there are reciprocal system benefits. If the Southwest station is not built, then reconductoring will benefit only Niagara Mohawk but yield no benefits to First Energy, because the

1		Company's system will be too weak to provide support to First Energy for
2		contingencies on their system. Thus, there is no option to pursue the #171 line
3		reconductoring unless it is accompanied by the other system reinforcements.
4		Accordingly, Staff's proposed downward adjustment associated with this project
5		should be rejected.
6		
7	Q.	Does the Company agree with the Staff Panel position relative to the
8		Mortimer-Golah #109 project?
9	A.	No. The Staff Panel associates the need for the Mortimer-Golah #109 project
10		with the fact that testing was done with the Seneca Power generator out of
11		service. Aside from the fact that this is the appropriate way to test, as previously
12		discussed, the need for this project is completely independent of the Seneca
13		Power generator. The Mortimer-Golah #109 project is needed to prevent a low
14		voltage condition at the Golah substation for the loss of the existing Mortimer-
15		Golah #110 line (an N-1 contingency). The low voltage condition is not
16		remediated if the Seneca Power generator is on line. The Mortimer-Golah #109
17		project is still needed, with the same timing, and the associated funding for the
18		project should be as proposed by the Company.
19		
20	Q.	Are there any condition issues affecting the Mortimer – Golah #109 line that
21		would need to be addressed if funding is not provided to convert the line to
22		115kV?

1	A.	Yes, the attached Computapole report highlights serious condition issues on this
2		line that would need to be addressed (See Exhibit (IOP-3R)). The cost to
3		remediate these condition issues has not been separately determined as they are
4		planned to be addressed during the 115kV conversion project.
5		
6	Q.	The Staff Panel recommends that a study be performed of the potential
7		impacts of retirement of the Jamestown generating plant. Does the Company
8		agree to perform this study?
9	A.	The Company is willing to perform such a study under appropriate conditions.
10		The study scope, including the scenarios to be reviewed relative to Jamestown
11		load and generation assumptions, will require the Jamestown BPU to work with
12		the Company before the study commences. Adequate time must be allocated for
13		the study, given the Company's many other planning responsibilities, such as the
14		mandatory NERC studies. A schedule that provides six months for the
15		completion of the study would be appropriate. Since the study would be
16		performed for the benefit of Jamestown customers and not National Grid's retail
17		customers, Jamestown should pay the costs of the study. Finally, should such a
18		study be performed, and the need for system reinforcements identified,
19		appropriate funding mechanisms will be required to ensure that those
20		reinforcements can be supported.
21		
22	Q	Is the Company recommending adjustments to the proposed capital
23		expenditures for the Reliability Criteria Compliance Strategy?

1	A.	No. Based on the foregoing testimony, we recommend adopting the Company's
2		capital funding levels of \$9.97 million, \$27.7 million, \$18.78 million and \$2.09
3		million in FY 11, FY 12, FY 13, and FY 14, respectively, as shown in Exhibit
4		(IOP-1R), Schedule 2.
5		
6		4. <u>Other Damage/Failure</u>
7	Q.	Does the Company have a position on Staff's recommendation with regard to
8		the adjustment of the Other Damage / Failure budget?
9	A.	Yes. The Staff Panel's testimony does not reflect the fact that the Damage /
10		Failure spending rationale is made up of four separate programs of which 'Other
11		Damage / Failure' is one element. The three other programs are NY Inspection
12		Projects, Steel Tower Strategy and Wood Pole Strategy.
13		
14		The sub-category of Other Damage Failure program itself includes four relatively
15		small budgetary reserve amounts for Transmission Line Replacements,
16		Transmission Storm budgetary Reserve, Transmission Underground budgetary
17		Reserves and Transmission Station Failures.
18		
19		The Transmission Station Failures budget accounts for only a small proportion of
20		the overall spend on damage/failures. The remaining spend comes from the
21		overall 'Budgetary Reserve' line (as distinct from the Transmission Storm
22		budgetary Reserve, Transmission Underground budgetary Reserves mentioned
23		above) which the Company uses to balance its overall spending budget. The

1		actual expenditures for Transmission Station Failures were \$931,782, \$927,812
2		and \$1,591,520 in FY08, FY09 and FY10 respectively while the overall Damage /
3		Failure spend the Company incurred was FY08 - \$11.9 million, FY09 - \$14.1
4		million and FY10 - \$10.4 million. Consequently the Company does not agree
5		with the proposed reduction.
6		
7	Q.	Are the replacement costs for forced transformer outages included in the
8		Damage / Failure budget?
9	A.	No. The replacement cost for transformer failures is currently not included within
10		the Damage / Failure budget. The procurement, installation and commissioning
11		costs for these failures are walked-in to the business plan and projects are walked-
12		out of the plan or the 'Budgetary Reserve' line is adjusted to manage the overall
13		budget. We recognize that the Company should have a clearer understanding of
14		what projects are likely to be undertaken and at what cost, especially in the near-
15		term. Therefore the Company proposes to increase the Damage / Failure budget
16		line item to \$13 million each year and corresponding allocated reductions to the
17		Budgetary Reserve category in the respective years to reflect the 3 year average of
18		actual damage / failures. See Exhibit (IOP-1R), Schedule 2A.
19		
20		This \$13 million budget item would include the cost of replacement for the
21		unforeseeable transformer failures that are currently not included in either the
22		Transformer Replacement Strategy or the Transmission Station failures budget.

1		Including unforeseeable transformer failures in the Damage / Failure budget will
2		increase the amount of 'planned' work included in the Capital Investment Plan.
3		
4	Q	Is the Company recommending adjustments to the proposed capital
5		expenditures for the Other Damage / Failure category?
6	A.	Yes. Based on the foregoing testimony, we recommend an adjusted capital
7		forecast of \$13.0 million, \$13.0 million and \$13.0 million in FY 12, FY 13, and
8		FY 14, respectively. This represents an increased forecast for FY11 – FY14 of
9		\$29.7 million compared to the Company's previous position, as shown in Exhibit
10		(IOP-1R), Schedule 2. However, as mentioned above, the Budgetary Reserve
11		line is being reduced by corresponding amounts in the respective years, resulting
12		in no net overall budget impact for the period set forth in the rate case. See
13		Exhibit (IOP-1R), Schedule, 2A.
14		
15		5. <u>Conductor Clearance</u>
16	Q.	Does the Company agree with the Staff's proposed downward adjustment of
17		approximately \$15 million to the Conductor Clearance strategy?
18	A.	No. The Company agrees with Staff that "the Conductor Clearance strategy
19		[is] necessary to comply with the NESC's (National Electric Safety Code)
20		governing codes." However, we do not agree with Staff's view that the proposed
21		program funding level represents an inappropriate ramp-up of spending. The
22		Company's initial efforts have centered on aerial laser survey (ALS), validation of
23		the ALS results and the engineering design necessary to rectify sub-standard

1		clearances. Physical construction activity commenced to rectify sub-standard
2		clearances in FY09 and Niagara Mohawk has a responsibility to act in an
3		expedient manner to bring these spans up to code.
4		
5	Q.	Is the Staff's proposed downward adjustment of \$5.0 million in FY12
6		appropriate?
7	A.	No. Preliminary engineering is completed or nearly completed for 13 conductor
8		clearance projects planned to be addressed by the end of FY12. These 13 projects
9		include the remediation of Level 1 and Level 2 substandard spans at an average
10		cost of \$104,000 per span. See Exhibit (IOP-4R).
11		
12		Preliminary engineering for a further thirty projects still in conceptual engineering
13		is expected to be completed in FY11 and FY12. While most of these projects will
14		undergo construction in FY13, a few others will be targeted for implementation
15		by the end of FY12.
16		
17	Q.	Why has the forecast number of substandard spans gone down since the
18		original strategy paper was published, and from the time of the response to
19		IR DPS-415 (VVP-29)?
20	A.	The verification process determines whether the Level 1 and 2 substandard spans
21		identified during Aerial Laser Surveys (ALS) are valid. This process frequently
22		requires field visits and a manual span-by-span analysis against the appropriate
23		governing code. As a result of the field visits and the manual span by span

1		analysis, it was determined that a number of spans initially identified as
2		substandard by ALS were not in fact substandard. Once conceptual engineering is
3		completed, the number of substandard spans is confirmed and preliminary cost
4		estimates are generated.
5		
6	Q.	Why has the average cost per span increased from \$75,000 to \$104,000?
7	A.	In the Company's response to IR DPS-415 (VVP-29), we stated that the cost per
8		span (to bring it up to code) was expected to average about \$75,000. Following
9		recently completed preliminary engineering for the 13 projects mentioned above,
10		the cost per span ranged from \$27,000 to \$143,000 with an average cost of
11		approximately \$104,000 per span. The average cost has increased because in
12		some cases live line working will be required for the 230kV and 345KV bulk
13		circuits and in some cases spans requiring correction are geographically remote
14		requiring high mobilization costs.
15		
16	Q.	Does the Company agree with the Staff Infrastructure Panel's
17		recommendation that capital expenditures of \$10 million in FY13 and \$10
18		million in FY14 provide reasonable funding under the conductor clearance
19		strategy?
20	A.	No. Based on the forecast number of spans scheduled for remediation in FY13
21		and FY14 (200 and 150 respectively) and using an average cost per span of
22		\$104,000 establishes a forecast of \$20.8 million in FY13 and \$15.6 million in
23		FY14. However, based upon the field engineering walk downs (mentioned

1		above) we anticipate additional spans will be confirmed as not needing
2		remediation, therefore a forecast of \$15 million per year (FY12 - FY14) as set
3		forth in the Company's testimony represents reasonable funding for this strategy.
4		
5		Niagara Mohawk has a responsibility to act in an expedient matter to bring these
6		spans up to code in a timely method. The speed of bringing these spans up to
7		code must be commensurate with the risk that is reasonably foreseeable. Since we
8		are focusing on the Level 1 and Level 2 substandard spans first, we feel it is
9		prudent to correct these spans within the time period outlined by the Conductor
10		Clearance Strategy SG029. This requires higher budgetary levels than the Staff
11		Infrastructure Panel's recommendation.
12		
13	Q.	Does the Company agree that only considering ratepayer financial risk is a
14		valid reason to limit proposed capital expenditures?
15	A.	The Company is sensitive to the need for holding down costs to customers.
16		However, timely compliance with the NESC requirements is required to minimize
17		the safety risk to the general public and a prudent ramp-up in span correction is
18		required to achieve this. In addition the Company believes that timely compliance
19		with the Orders Instituting Safety Standards, Case 04-M-0159, issued January 5,
20		2005 ("2005 Safety Order") and December 15, 2008 ("2008 Safety Order")
21		requires a ramp-up in span correction.
22		

1	Q.	Is the Company recommending adjustments to the proposed capital
2		expenditures for the Conductor Clearance Strategy?
3	A.	No. Based on the foregoing testimony, we recommend capital expenditures of
4		\$1.5 million in FY 11 and \$15 million in FY 12, \$15 million in FY 13 and \$15
5		million in FY 14 to provide reasonable funding under this strategy, as shown in
6		Exhibit (IOP-1R), Schedule 2.
7 8		6. Other System Capacity & Performance
9	Q.	Does the Company agree with the Staff Infrastructure Panel's
10		recommendation to limit capital expenditures in the Other System Capacity
11		and Performance category to \$6.5 million in FY13 and FY14?
12	A.	No. Although the Company stated that reconductoring of the Boonville – Rome
13		#4 line (project CNYPL4) will only be pursued if found necessary in the 2010
14		Northern Area study, the facilities would require refurbishment in FY13 in any
15		event due the condition and performance of the line. The Boonville-Rome 4 and
16		the Boonville-Rome 3 lines (both installed in the 1930s) have experienced recent
17		conductor related failures due to arc damage caused by insulator flashovers at
18		locations where suspension clamps have loosened. Comprehensive engineering
19		field walk-downs are proposed for FY13 at a cost of \$0.5 million.
20		
21	Q.	The Staff Panel discusses projects CNYPL1, CNYPL25 and CNYPL26 (p.
22		63). Do you have information that will assist in understanding the status of
23		these projects and their respective funding requirements?

1	A.	Yes. The 2010 Northern Area study has progressed to the point where we no
2		longer will pursue CNYPL1. The funding originally requested for CNYPL1 (\$0.1
3		million in FY13 and \$5.0 million in FY14) will no longer be needed for this
4		project.
5		
6		However, CNYPL25 and CNYPL26 are needed and full documentation will be
7		available in the fall upon completion of area studies in progress. (Note: These
8		projects are related to different studies, not the 2010 Northern Area Study, which
9		was incorrectly referenced in the testimony.) These studies demonstrate that
10		Maplewood plus the Central and Mohawk Valley areas show the combined need
11		for at least 18 breaker replacements, and possibly as many as 22. At
12		approximately \$500,000 each, that suggests that a total of between \$9.0 and \$11.0
13		million will be needed. The exact number of breakers and a more accurate cost
14		estimate will be established when the studies are completed, but it is clear that
15		these expenditures are not speculative and funding will be required in excess of
16		the combined levels (\$6.0 million through FY14) shown in the Company's plans.
17		For 20 breaker replacements (the middle of the range of 18-22), the Company
18		now estimates that the combined requirements for CNYPL25 and CNYPL26 will
19		be \$0.67 million in FY12, \$3.63 million in FY13, and \$5.7 million in FY14. This
20		has the effect of increasing the FY12 requirements by \$0.27 million and the FY13
21		requirements by \$1.53 million over the Company's original filing, and decreasing
22		the FY14 requirement by \$2.9 million. As a result the total for FY11 through FY
23		14 decreases by \$1.1 million.

1		
2	Q	Is the Company recommending adjustments to the proposed capital
3		expenditures for the Other System Capacity & Performance category?
4	A.	No. Based on the foregoing testimony, we recommend total capital forecasts of
5		\$5.95 million, \$7.97 million, \$14.10 million and \$19.05 million in FY 11, FY 12,
6		FY 13, and FY 14, respectively, as shown in Exhibit (IOP-1R), Schedule 2.
7		
8		B. <u>Transmission Asset Replacements</u>
9		1. Overhead Line, Tower and Pole Refurbishment Strategy
10	Q.	Does the Company agree with the Staff Infrastructure Panel's position that
11		"absent the existence of physical deterioration, we do not recommend
12		refurbishment based strictly upon outage experience"?
13	A.	Yes. The Company employs a selection methodology that takes into account
14		outage experience particularly outages that affect customers as a way to prioritize
15		circuits for remedial work. These circuits are then subjected to an extensive
16		engineering field walk down to identify the existence of physical deterioration
17		and to classify the level of that deterioration (Level 1 through 4). Only circuits
18		with Level 1 through 3 physical deterioration identified during the field walk
19		down are brought forward for refurbishment. The selection methodology is only
20		a screening tool; the physical condition of overhead lines drives the refurbishment
21		need.
22		

23

The term "refurbished" encompasses a wide range of intervention options available to the Company to address physical deterioration whether or not it results in poor outage performance. At one end of the scale, refurbishment could entail the wholesale replacement of steel and wood structures, conductor replacement and the replacement of all hardware and fittings. At the other end of the scale it could for example mean replacement of shield wire to improve lightning performance. The actual defined scope of work for a refurbishment is determined during conceptual engineering.

A.

Q. Does the Company believe that the selection methodology used by Niagara

Mohawk will maintain reliability?

A. Yes. For the refurbishments listed in the Company's testimony in all cases except the refurbishment of the Ticonderoga #2-3 lines (which is safety driven) the majority of outages (momentary, sustained or long-sustained) are attributable to either line physical condition or weather (including lightning), to which the Staff Infrastructure Panel recognizes that lines in poor condition are somewhat more susceptible.

Line	Performance (CY2005 – 2009)
Dunkirk – Falconer #161 / 162	75% of momentary outages caused by line
	equipment, weather and lightning.
Niagara / Packard – Gardenville #180 / 182	84% of outage duration and 100% of sustained
	outages caused by line equipment, weather and
	lightning.
Gardenville-Dunkirk #141-142	89% of outage duration caused by line equipment,
	weather and lightning.
Gardenville-Homer Hill #151-152	53% of sustained outages caused by line equipment,
	weather and lightning.
Lockport-Batavia #112	100% of long sustained outages caused by line
	equipment, weather and lightning.
Lockport-Mortimer #111	88% of long sustained outages caused by line
	equipment, weather and lightning

Lockport-Mortimer #113-114	100% of long sustained outages caused by line equipment, weather and lightning.
Pannell-Geneva #4-4A	67% of sustained outages caused by line equipment, weather and lightning.
Indeck Oswego-Lighthouse Hill #2	44% of momentary outages caused by line equipment, weather and lightning.
Taylorville-Booneville #5-6	92% of momentary outages caused by line equipment, weather and lightning.
Taylorville-Moshier #7	86% of momentary outages caused by line equipment, weather and lightning.
Porter-Rotterdam #31	67% of momentary outages caused by line equipment, weather and lightning.
Ticonderoga #2-3	Safety driven refurbishment. These radial lines are in poor condition but do not generate many outages; however, the negative customer exposure from potential failure is significant.
Lockport #103-104	44% of sustained outages caused by line equipment, weather and lightning.

Q. Does the Company agree with Staff's conclusion that total outage duration

should be the main selection criterion for overhead line refurbishment?

A. While total outage duration is important, it is a lagging indicator of performance and, over time, numerous short interruptions can be just as disruptive to customers; and if they occur at inopportune times (i.e. during other events or peak demands, etc) can be more disruptive. Therefore the Company uses a number of

performance indicators to select and prioritize overhead lines for intervention.

Q. Does the Company agree with the Staff Infrastructure Panel's recommendation that "funding be provided to refurbish overhead transmission line facilities that are in unacceptably severe deteriorated condition (i.e. Niagara Mohawk's defined Level 1, Level 2 and Level 3 conditions), as opposed to entire lines, unless a compelling justification can

be provided for the full refurbishment"?

Yes. Unless the Company believes there is a compelling justification that the full refurbishment of a line is required, only refurbishment of Level 1, Level 2 and Level 3 type items are sanctioned. If however, the Company determines that a line does require refurbishment then engineering discretion will be used for Level 4 type items plus structural components nearing end-of-life. For example, a leaning structure might be classified as a Level 4 item but further evaluation may show that this structure might no longer meet applicable ice loadings. In these cases, failure to address the level 4 work and only the Level 1, Level 2 and Level 3 items will be more expensive in long run for customers due to repeated visits to the line and additional mobilization costs, including, for example, repeated use of swamp matting.

Α

A.

Q. Does the Company believe that for FY13, the \$38.0 million funding amount recommended by Staff will be sufficient?

No. In FY13 two overhead line refurbishment projects (Gardenville – Dunkirk #141 / 142 and Lockport – Mortimer #111) will be well into construction. The proposed reduction in FY13 could only be achieved by either: (a) reducing the capital expenditure on these two projects by \$15.7 million (which would effectively add an additional year to the overall project timescale); or (b) doing less work and not fully addressing the condition based needs of the project. Alternative (a) would likely result in longer outage requirements, longer construction schedules, increased overall project costs and a longer time period before obtaining the safety, reliability and capacity benefits of the project.

Alternative (b) would likely result in the need for future work to address the deficiencies and concerns that would not be addressed as part of the reduced project and result in additional overall project costs (e.g. additional mobilization and de-mobilization costs, additional permitting and licensing, etc). The Company does not believe that either alternative is in the best interests of customers.

A.

Q. Does the Company believe that for FY14, the \$42.0 million funding level proposed by Staff will be sufficient?

No. In FY14, there are five major projects (including the two from FY13) plus the Gardenville #180 / 182 lines, the Lockport – Batavia #112 line and the Indeck Oswego – Lighthouse Hill #2 line. Conceptual engineering is well underway for the Gardenville #180 / 182 lines and the Lockport – Batavia #112 projects.

Originally, the Gardenville #180 / 182 project was for the section of these circuits North of Ellicott Junction (in Tonawanda). The cancellation of the Tonawanda and Frontier project means that the Gardenville #180 / 182 project will require additional work due to the poor condition of the 182 circuit South of Ellicott junction. The scope of the Indeck Oswego – Lighthouse Hill 2 project will depend upon the results of conductor testing. The reduction in funding would result in project delays that would likely create a backlog of circuits with safety, condition and/or reliability concerns.

1	Q.	Is the Company recommending adjustments to the proposed capital
2		expenditures for the Overhead Line Refurbishment Strategy?
3	A.	No. Based on the foregoing testimony, we recommend total capital forecasts of
4		\$20.2 million, \$32.5 million, \$53.7 million and \$92.0 million in FY 11, FY 12,
5		FY 13, and FY 14, respectively, as shown in Exhibit (IOP-1R), Schedule 2.
6		
7		2. <u>Transmission Substation Rebuild Strategy</u>
8	Q.	Does the Company agree with the Staff Infrastructure Panel's
9		recommendation to stagger the scheduling of the rebuild projects?
10	A.	Yes. The Company agrees to stagger the scheduling of the station rebuild projects
11		by deferring Elm Street and Lighthouse Hill by 1 year, and by deferring the
12		Lockport, Mohican, North Leroy, Rotterdam and Reynolds Road projects by
13		several years. In addition the Company has re-assessed the spend profile for the
14		rebuild of Gardenville and Rome with completion now postponed until FY16 and
15		FY15, respectively. These rebuild projects have been staggered as far as practical
16		to reduce the financial impact on customers. This extension to timescales
17		introduces additional safety, environmental and reliability risks in the meantime.
18		
19	Q.	What impact does the staggering and re-phasing have on the FY11 – FY14
20		forecast spend?
21	A.	Overall, these changes will reduce the FY11 – FY14 spend by \$68.75 million.
22		

1	Q.	Has the Company made any further adjustments to the Station rebuild
2		projects?
3	A.	Yes. In FY14, \$10.0 million was transferred from project CNYAS36 (which is
4		part of the Substation Rebuild program) into the Porter BPS Upgrade project to
5		replace over-duty 230kV circuit breakers at Porter. Project CNYAS36 now only
6		includes the replacement of the 230kV disconnects at Porter and the budget has
7		been adjusted to reflect this. This transfer has a net zero effect on the overall
8		capital budget.
9		
10	Q.	Does the Company agree with Staff's proposal to limit spending in FY14 to
11		\$25 million?
12	A.	No. With the revised spend profile for the substation rebuild projects a required
13		investment of \$45 million in FY14 is needed (compared to the previously forecast
14		\$73.8 million) to rebuild Gardenville and Rome in a timely manner. Limiting
15		investment to \$25 million in FY14 would unacceptably delay completion of these
16		two seriously deteriorated stations into FY17 and FY16 respectively.
17		
18	Q.	Does the Company accept the recommendation that the time allotted for
19		planning and design of these retrofits be lengthened?
20	A.	No. The Company believes it allocates sufficient time and resources to properly
21		plan and design these projects and to provide a realistic opportunity to develop
22		alternatives.
23		

1	Q.	Does the Company agree that staggering these rebuild projects will allow
2		improvements developed at one site to be adapted to rebuilds at other sites?
3	A.	Not necessarily. Given the large variations in size, complexity and overall layout
4		of Transmission substations it is uncertain to what extent improvements
5		developed at one site could be adapted to rebuilds at other sites. However, the
6		Company does recognize the value of standardization in design and will adopt the
7		approach where practical and cost-effective.
8		
9	Q	Is the Company recommending adjustments to the proposed capital
10		expenditures for the Substation Rebuild Strategy?
11	A.	Yes. Based on the foregoing testimony, we recommend total capital forecasts of
12		\$2.66 million, \$6.42 million, \$17.14 million and \$44.45 million in FY 11, FY 12,
13		FY 13, and FY 14, respectively (compared to \$2.80 million, \$8.91 million, \$58.86
14		million and \$68.86 million proposed previously by the Company). These
15		adjustments represent a total reduction of \$68.75 million in this category from the
16		Company's previous position but it should be noted that this includes the transfer
17		of \$10 million from CNYAS36 in the Substation Rebuild program to Substation
18		BPS Upgrades program.
19		
20		3. <u>Transmission Transformer Replacement Strategy</u>
21	Q.	Does the Company agree with the Staff Infrastructure Panel's
22		recommendation that "a transformer be replaced if its dissolved gas in oil

1		analysis is deemed excessive in terms of industry standards indicating
2		imminent failure"?
3	A.	Yes. However, the Company's initial assessment using current DGA results and
4		only the IEEE Standard C57.104.1991 guidelines is that this approach may
5		produce a requirement to replace more transmission transformers than currently
6		proposed by the Company. IEEE Standard C57.104.1991 provides guidance on
7		specific methods and procedures to assist the transformer operator in deciding on
8		the status and continued operation of a transformer that exhibits combustible gas
9		formation. Using the IEEE Standard C57.104.1991 guidelines shows 58
10		Transmission units with Code 4 which, depending upon the rate of gas generation,
11		should be considered for removal from service or where the owner should
12		exercise extreme caution and plan an outage.
13		
14	Q.	Does the Company agree with Staff that "given the existing diverse stock of
15		transmission transformers on Niagara Mohawk's system, that a certain
16		number of transformer forced outages will occur each year; based upon
17		historical averages, this could average approximately six forced permanent
18		outages annually".
19	A.	Yes. The number of unforeseeable failures for the past 10 years (2000 - 2009) was
20		64 and the average failure rate was approximately 6 per year.
21		
22	Q.	Does the Company believe that an incremental amount of \$4.0 million for

1	A.	No. The reduction proposed by the Staff Infrastructure Panel would in FY12,
2		FY13 and FY14 only allow the replacement of one 115kV transformer per year
3		beyond the first year (at an average installed cost of \$1.7 million). Recently
4		obtained prices for transformers at the factory gate for 115kV units range from
5		\$712,646 to \$971,550; 230kV units are approximately \$2 million, and for 345kV
6		units range from \$3.1 million to \$4.5 million. The reduced budgeted amount in
7		FY12, FY13 and FY14 would not cover the purchase price of a single large auto-
8		transformer.
9		
10	Q.	Does the Company agree with the Staff Infrastructure Panel's
11		recommendation that Niagara Mohawk not proceed with its transformer
12		replacement program?
13	A.	No. The Company maintains that given a population of over 500 transformers a
14		modest preemptive replacement program of 4 (typically 115kV 25MVA with
15		Load Tap Changer) units per year at an average cost of \$1.7 million (in addition
16		to the 6 average failures) is not unreasonable. The Transformer Replacement
17		Strategy proposes to replace transformers where DGA trends do not necessarily
18		show an active internal fault but this information in conjunction with other factors
19		such as poor oil quality, known design weaknesses, poor mechanical condition,
20		provide sufficient justification for replacement of the equipment.
21		
22	Q.	Will the Company simply replace transformers that are deteriorated to an
23		unacceptable level with like-for-like replacements?

1	A.	No. Transformers will be replaced with standard units. Standard units with
2		identical voltage ratios, vector groups and MVA ratings will be less expensive in
3		the long run than purchasing many different units and will help promote a
4		manageable spares inventory level. Single phase transformers will be replaced
5		with three phase transformers. Replacing single phase transformers with three
6		phase transformers will also reduce the impact on the spares inventory
7		requirements. In addition, all long-term transformer replacements will consider
8		the protection schemes (i.e. circuit breakers, circuit switchers and relays) and,
9		where their condition warrants, these too will be included in the overall
10		transformer replacement. In substations where a transformer is to be replaced, oil
11		containment will be included as part of the replacement infrastructure.
12		
13	Q.	Does the Company support Staff's recommendation to submit updated,
14		detailed analysis to determine the appropriate number of additional spare
15		transformers that are needed for back-up and/or replacement of
16		transformers that do fail?
17	A.	Yes. The Company fully supports Staff's recommendation and looks forward to
18		discussing with Staff how cost recovery and allocation would be determined for
19		any additional spare transformers identified as required.
20		
21	Q.	Is the Company recommending adjustments to the proposed capital
22		expenditures for the Transformer Replacement Strategy?

1	A.	No. Based on the foregoing testimony, we recommend total capital forecasts of
2		\$4.0 million, \$7.0 million, \$7.0 million and \$7.0 million in FY 11, FY 12, FY 13,
3		and FY 14, respectively.
4		
5		4. <u>Circuit Breaker Replacement Strategy</u>
6	Q.	Does the Company agree that "it is not possible to predict if reliability would
7		decline by curtailing capital expenditures for the circuit breaker replacement
8		strategy for fiscal years 2013 and 2014"?
9	A.	No. The Company's recent history with oil circuit breaker trouble reports is
10		shown in Exhibit (IOP-5R). This exhibit shows an increasing amount of
11		trouble work (typically found on inspection or following alarm) and follow-up
12		work (typically found during maintenance) on oil circuit breakers. Without capital
13		investment to replace obsolete equipment that has already deteriorated to
14		unacceptable levels this trend will continue leading to lower reliability. As the
15		Company stated in Exhibit_ (IOP-14) Schedule 2, "11 percent of sustained
16		outages on the bulk system and 12 percent of sustained outages on the non-bulk
17		system are caused by substation equipment including circuit breakers." Without
18		the proposed investment in 2013 and 2014 the Company will be unable to
19		maintain its reliability.
20		
21	Q.	Does the Company agree with the Staff Infrastructure Panel's
22		recommendation to limit capital expenditures for the circuit breaker

1		replacement strategy in F x 13 and F x 14 to no more than \$5 million and \$7
2		million respectively?
3	A.	No. The Company maintains that given a population size of 377 oil circuit
4		breakers a modest replacement program of 13 units per year at an average cost of
5		\$500,000 is reasonable. This is particularly true as there is evidence of
6		deterioration through known failure mechanisms and a lack of suitable
7		replacement parts inventories. The Company maintains that this approach is not
8		sustainable and a modest asset replacement and refurbishment program is required
9		over the coming decade to replace equipment that has already deteriorated to
10		unacceptable levels. A modest replacement rate of 13 units per year will take
11		approximately 40 years to replace the entire oil circuit breaker population of
12		which 59% is already between 40 and 59 years old.
13		
14	Q.	Has the Company or affiliates experienced failures of any of the types of oil
15		circuit breakers proposed for replacement?
16	A.	Yes. In 2000, a GE FK-115 circuit breaker R8205 at Ash Street failed. In 2002, a
17		GE FK circuit breaker R350 failed at Union. In 2003, a FP RHE-84-10000
18		230KV circuit breaker R84 failed at Rotterdam. In 2003 a GE FK-115 circuit
19		breaker R252 failed at Dunkirk. In 2003, an AC BZO-115-10000 circuit breaker
20		R213 failed at Lockport. In 2005, an AC BZO-115-10000 failed at Porter. In
21		2005 a FP RHE-84-10000 230KV circuit breaker R82 failed at Rotterdam. In
22		2007, a GE FK-115-5000 circuit breaker R130 at Schuyler failed. In 2008, a GE
23		FK circuit breaker R210 failed at Schuyler.

	In New England recent oil circuit breaker failures include: in 2006, a GE-FK
	115KV circuit breaker 11-45 at Salem Harbor, MA. In 2008, a GE-FK 115KV
	circuit breaker 9085 failed at Kent County, RI. In May 2010, an AC-BZO 115KV
	circuit breaker 1802 failed at Bell Rock. In June 2010, an AC-BZO 115KV circuit
	breaker TL812 failed at Somerset, MA. In July 2010, a GE-FK circuit breaker 120
	failed at Bellows Falls, VT. In New England, the Company's affiliates recently
	approved the replacement of 20 highest priority oil circuit breakers over 5 years
	based on their condition. A further 50 high priority oil circuit breakers will also be
	replaced for condition deficiencies during load related projects.
	The Company has also had numerous instances of interrupter failures associated
	with these breaker types. In most cases, we were able to replace with spare parts
	from removed breakers. For future occurrences, with spare parts supplies low, we
	will increasingly need to replace the entire circuit breaker. Unplanned
	replacement following failure is always more costly in the long-term and in the
	short-term creates a safety hazard to Company personnel, and causes disruption to
	the system and to customers.
Q	Is the Company recommending adjustments to the proposed capital
	expenditures for the Circuit Breaker replacement strategy?
A.	No. Based on the foregoing testimony, we recommend total capital forecasts of
	\$0.1 million, \$1.1 million, \$7.25 million and \$14.45 million in FY 11, FY 12, FY
	13, and FY 14, respectively, as shown in Exhibit (IOP-1R), Schedule 2.

1		5. Other Asset Condition
2	Q.	Does the Company support a macro adjustment for the Other Asset
3		Condition program?
4	A.	No. The Company does not believe a downward macro adjustment in spending
5		levels is appropriate given the nature of the spending and projects in this category.
6		
7	Q.	Does the Company agree to the Staff Infrastructure Panel's recommendation
8		of capital expenditures of approximately \$14 million and \$12 million for
9		FY13 and FY14 respectively?
10	A.	No. As part of the Company's Updates and Corrections testimony filed on May
11		3, 2010 an additional \$15 million was added into the Capital Investment Plan in
12		the FY13 and FY14 periods for this category. The Updates and Corrections
13		testimony stated that:
14		"As part of the Reliability Criteria Compliance Program, the
15		Strategy to Reinforce the Transmission System in New York's
16		Frontier and Southwest Region (Strategy Paper SG 075 v2 – April
17		2009) included work reconductor the #180 and #181 circuits,
18		create a new 115 kV circuit between Packard and Gardenville
19		using retired, in-place assets, and associated substation work at
20		Packard, Tonawanda and Gardenville (referred to in SG 075 v2 as
21		"Frontier Line Rebuilds (T Line and Station)" - project numbers
22		C24018 and C24019, respectively). The reconductoring was
23		originally required to prevent post-fault overloads under N-1

1		conditions; however, without the system changes at Tonawanda,
2		these overloads are no longer an issue and the reconductoring is no
3		longer necessary. Nevertheless, because the reconductoring
4		projects would have also addressed important asset condition
5		issues at the same time, it is now necessary to undertake additional
6		projects in the Other Asset Condition Program and the Other
7		System Capacity & Performance program."
8		Planned annual spending for the refurbishment of the #180 and #181 lines is as
9		follows: FY11 \$0.02 million, FY12 \$0.5 million, FY13 \$15.0 million, and FY14
10		\$15.0 million, for an aggregate amount of \$30.52 million over the FY11-FY14
11		period. The Company would note that this work is a result of not undertaking the
12		Tonawanda project and a simple downward macro adjustment is not justified.
13		
14	Q	Is the Company recommending adjustments to the proposed capital
15		expenditures for the Other Asset Condition category?
16	A.	No. Based on the foregoing testimony and our Updates and Corrections
17		testimony, we recommend total capital forecasts of \$21.81 million, \$7.04 million,
18		\$28.01 million and \$24.06 million in FY 11, FY 12, FY 13, and FY 14,
19		respectively, as shown in Exhibit (IOP-1R), Schedule 2.
20		
21		6. Relay Replacement Strategy
22	Q.	Does the Company accept the Staff Infrastructure Panel's recommendation
23		to limit capital expenditures on this strategy in FY12 to \$0.5 million?

A. No. The Company accepts that its Relay Replacement Strategy is not yet fully developed but does not believe Staff's recommendation to limit capital expenditures in FY12 to \$0.5 million is warranted. The relay replacement project will be extremely complicated and will require a significant up-front engineering design effort to ensure that relay replacements are undertaken efficiently and without jeopardizing transmission system reliability. In the Company's response to Information Request DPS-400 (VVP-23), we indicated that we anticipated replacing relay packages on approximately 16 circuits during FY13 at an average cost of \$200,000 per circuit. As stated above, the proposed relay replacement work requires engineering and design along with the procurement of the relays in advance of the installation and the Company believes that 10% of the total project spend for preliminary engineering is reasonable (i.e. \$1 million). Arbitrarily limiting spend in FY12 will impede the Company's capacity to replace relays in FY13 along with our ability, as Staff states, to "help improve the reliability of the Company's transmission system."

16

17

18

19

20

21

A.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Q. Is the Company recommending adjustments to the proposed capital expenditures for the Relay Replacement Strategy?

No. Based on the foregoing testimony, we recommend total capital forecasts of \$0.05 million, \$1.0 million, \$3.75 million, and \$6.45 million in FY11, FY 12, FY 13, and FY 14, respectively, as shown in Exhibit (IOP-1R), Schedule 2.

22

1 Q. Does the Company agree with the Staff Infrastructure Panel's decision to 2 make downward adjustments in several of the proposed spending rationale 3 categories (including Conductor Clearance Strategy, Other System Capacity 4 & Performance, Circuit Breaker Strategy, Other Asset Condition, Relay 5 Replacement Strategy) based on what the panel refers to as "reducing rate-6 payers risk due to possible project overestimating" on the Company's part? 7 A. No. Though the Company recognizes that there is always opportunity for 8 improvement when it comes to managing projects and producing conceptual 9 grade estimates, project management practices in general allow for a minimum 10 uncertainty in conceptual estimates of at least plus or minus 25%. Failing to 11 recognize the need for a reasonable amount of conceptual grade uncertainty would undermine the value of medium and long term capital investment planning 12 13 in the first place, since such a plan is mostly based on conceptual grade studies. 14 Moreover, the Company is proposing a capital investment tracker with limited upward adjustment and full downward adjustment if the Company adds plant at 15 16 less than forecasted levels: 17 18 What would be the implications if Staff requires conceptual engineering Q. 19 estimates to be completed prior to the inclusion of a project in rates? 20 A. In these circumstances, it would only be possible to give visibility of the costs of 21 conceptual engineering in the three-year period of the rate case. A utility would

already does today to developing a capital plan that might nevertheless be

need to dedicate significantly more engineering and planning resources than it

22

23

1		substantially affected and undermined by circumstances outside of its control. In		
2		effect, the utility must balance the appropriate level of precision to bring to an		
3		investment plan with external factors such as shifting demands, customer		
4		mobility, and long capital lead-times. Requiring completion of conceptual		
5		engineering in order for inclusion in a utility's capital plan would severely shorten		
6		the utility's workable planning horizon.		
7				
8		C. <u>Sub-Transmission and Distribution Projects</u>		
9		1. <u>Distribution Line Reclosers</u>		
10	Q.	What does the DPS Staff Infrastructure Panel recommend regarding the		
11		distribution line recloser program?		
12	A.	The Staff Infrastructure Panel recommends the installation of 70 reclosers per		
13		year decreasing the Company's proposed budget by \$1.5 million in FY11, \$2.5		
14		million in FY12, \$2.5 million in FY13 and \$6.5 million in FY14.		
15				
16	Q.	Does the Company agree with the recommendation?		
17	A.	No. As Staff notes, the Company has been able to meet its reliability goals (for		

which failure to achieve results in significant financial penalties) in part, by making investments in the recloser program. The utilization of reclosers is cost effective in light of the realized reliability benefit and an important component of the Company's ongoing effort to continue to achieve its reliability metrics. The Staff notes the diminishing return as additional reclosers are installed on the

system but the Company does not believe that the saturation point has been reached or will be reached over the FY11-14 period.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

A.

1

2

Q. Why is Staff's position that the saturation point for the installation of reclosers inaccurate?

Staff's position appears to be based on its view of the effect of having multiple reclosers on a feeder. This is evidenced in the ratio cited by Staff. Under Staff's view there would be diminishing returns since the "next" recloser on a feeder that already had a recloser must by definition provide less reliability opportunities than the first. However, the Company has many locations where the first reclosers have not yet been installed, which is why it uses a "recloser model" to identify potential site locations. Thus, claims of saturation for those locations are not accurate. Further, the ratio cited by Staff was used to initiate the recloser program, which was premised on the installation of three phase gang operated reclosers. Three phase gang operated reclosers, although very useful in achieving reliability, are limited in their capability to optimally minimize outages that are single phase in nature. A three phase gang operated recloser opens all three phases for a downstream fault – even if the downstream fault is single phase. Thus, the Company, in order to maintain reliability has begun to evaluate through pilots opportunities to utilize three phase single phase operated reclosers as well as independent single phase recloser technology on the same feeders that have three phase gang operated reclosers. Thus, the assertion that the Company has reached a point of diminishing returns does not consider the benefits that can be

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

Q.

Α.

achieved by isolating significant portions of the system (downstream of a three phase gang operated recloser) by using single phase recloser technology. Ultimately, the use of this technology will further protect areas of the system that, but for the inclusion of the single phase recloser, would result in all customers downstream of the three phase gang operated recloser being without power for a single phase fault. This provides a significant opportunity to continue to costeffectively maintain reliability and address the overall exposure to the predominantly overhead system from tree-related outages, which continue to be the leading cause of outages on Niagara Mohawk's distribution system. (It should be noted that the continued use of reclosers will ultimately have the effect of increasing system CAIDI as each outage becomes more discrete – and the total number of impacted customers is reduced - yet the precipitating event causing the outage and the resulting amount of time to correct the issue does not change). The Company is in the process of evolving the recloser strategy from one that focuses primarily on three phase reclosers to one that will increasingly install single phase reclosers or three phase reclosers that can be used to isolate single phase faults. What does the Company recommend as a practical approach to the application of reclosers in a balanced and proactive manner? The Company recommends the utilization of a feeder specific combination of gang-operated three-phase reclosers, three-phase reclosers that accommodate

single-phase operation and single phased reclosers or Trip Savers. While three phase recloser saturation will be a concern at some point in the future, we are not there yet.

A.

Q. How is the inclusion of the additional types of isolation devices reflected in the investment forecast?

The investment level set forth in the testimony is driven by continued investment (for the FY11-FY14 period) in three phase reclosers at 100 per year to support meeting reliability performance metrics. The installation of the 100 reclosers per year requires the investment of \$5 million annually in FY11-FY14. In addition, for FY12 and beyond, we include investment for additional single phase isolation devices in the amount of \$1.0 million in FY12, \$1.0 million in FY13 and \$5.0 million in FY14, which in conjunction with the \$5 million annually for three-phase reclosers results in the amounts originally set forth by the Company. The Company would recommend maintaining the existing budget of \$5.0 million for

A.

Q. What does the Company recommend for FY14?

FY11 and \$6.0 million for FY12 and FY13.

Although the Company believes that investment in this category is needed in order to maintain reliability, it is also conscious of the challenging economic times and the ramp up in this program as it relates to investment in alternative recloser technology. Accordingly, we believe it is appropriate to reduce the funding in FY14 by \$2 million resulting in an investment for FY14 of \$8 million.

The Company's proposed funding amounts for this program are shown in Exhibit (IOP-1R), Schedule 4. It should be noted, that the additional investment in alternative recloser technology is in recognition that the Company's ability to achieve its reliability metrics is continually challenged by tree related events which represent 40% of the causes for outages and that the existing tree related outage exposure due to the size and design of the overhead system is too large to not undertake further isolation actions. 2. Distribution RTU Program Q. What are the Staff's recommendations regarding the Company's **Distribution RTU program?** A. The Staff Infrastructure Panel recommends the budget for the Distribution RTU program be decreased by downward adjustments of \$0.5 million in FY11, \$1.0 million in FY12, \$1.0 million in FY13, and \$2.0 million in FY14 for a total decrease of \$4.5 million over the period FY11-14. The stated basis for Staff's

151617

1

2

3

4

5

6

7

8

9

10

11

12

13

14

calculated overall investment requirement of \$18 million through FY14. It should

be noted that the Company had included more than \$21 million in investment

(\$150,000) and the 120 locations that were identified, which resulted in a

proposed adjustments is a mismatch between the estimated cost per installation

20 need for the same period.

21

22

18

19

- Q. What was the basis for the Company's original budget forecast for
- 23 **Distribution RTUs?**

1 A. In response to IR DPS-127 (WEL-4), the Company sets forth 88 RTU
2 replacements and an additional 32 new distribution RTU installations expected to
3 be placed in service at the end of FY14. These volumes were based on best
4 available information at the time. However, when the necessary investment level
5 was developed, variations to the program were accounted for because additional
6 RTU investment opportunities were anticipated.

A.

Q. Have additional units been identified to the program?

Yes. Since the submission of IR DPS-127 (WEL-4), the Company has continued to review new RTU locations and prioritization with a view of ensuring efficient and effective application of RTUs. Specifically, a review was conducted in May 2010 with regional control operators, field operations, and network planning to identify locations where substation status, metering and control would be most advantageous based both on their experience in mitigating customer outages and with a goal of improving system integrity and operability. Further, the heat wave during the beginning of July 2010 confirmed the need for many of the additional RTU investments identified in the May review. An additional 24 distribution substations, for a total of 56 locations (32 original locations plus the additional 24 locations), have been identified for new RTU installations. In addition to input from regional control operators, a review of all candidate locations was performed based on substation loading and the relative importance of the station to the overall system. No previously identified locations were removed from the original 32 stations.

1		
2	Q.	What does the Company recommend for RTU related capital investment
3		levels?
4	A.	Due to the additional 24 locations identified, the Company recommends that the
5		capital investment levels for Distribution RTUs of \$4.7 million for FY11, \$5.2
6		million for FY12, \$5.2 million for FY13, and \$6.4 million for FY14, budgeted for
7		by the Company and shown in Exhibit (IOP-1R), Schedule 4 be maintained
8		and the Staff's proposed adjustment not accepted.
9		
10	Q.	Why does the Company believe that investments in RTUs are important and
11		how do they benefit customers?
12	A.	Utilization of RTUs at substations is fundamental to modernizing the electric grid
13		and will enable improving energy efficiency by controlling line losses through
14		phase balancing, integrating distributed and renewable resources through better
15		visibility of the actual performance of a feeder, increasing the capability of
16		operators to manage the system – especially during emergencies and peak periods
17		and improving load forecasting through a better understanding of actual feeder
18		loading and system / feeder peaks.
19		
20		3. <u>Distribution Planning Criteria</u>
21	Q.	What did Staff recommend with respect to the Company's Planning Criteria
22		program?

- 1 A. The Staff proposed reductions in this program for FY11 of \$3.157 million, FY12
- 2 of \$3.9375 million and FY13 of \$0.750 million.
- 3 Q. Why did Staff recommend these reductions?
- 4 A. Staff recommended these reductions because nine projects were cancelled for
- 5 which investments had been allocated in these amounts and the Company had not
- 6 reduced its budget.
- 7 Q. Does the Company agree with Staff's proposed reductions?
- 8 A. No. As part of this program, the Company evaluates its system and its work plan
- 9 annually to ensure that work that has been identified is still necessary based upon
- the most recent realized loads and load forecast. Accordingly, as is demonstrated
- by the nine cancelled projects, there is every expectation that circumstances may
- change and these changed circumstances may necessitate the addition or removal
- of work from the work plan.
- 14 Q. Has the Company identified additional work during this period that is
- 15 necessary based upon the annual system evaluations?
- 16 A. Yes. The Company has identified eleven additional projects that are necessary
- during FY12 and FY13.
- 18 Q. What is the aggregated level of investment necessary for the eleven projects?

1	A.	The investment level necessary in FY12 is \$2.1 million; in FY13 it is \$5.0
2		million; and FY14 it is \$2.0 million.

- 3 Q. How do these amounts compare to Staff's proposed adjustments?
- 4 A. The Company accepts the Staff's downward adjustment of \$3.157 million in 5 FY11. In FY12, the Company accepts the Staff's downward adjustment of 6 \$3.9375 million, offset by the \$2.1 million for the eleven additional projects for a 7 net downward adjustment of \$1.838 million. In FY13 the Company accepts the 8 Staff's downward adjustment of \$.75 million, offset by the \$5.0 million impact for 9 the eleven additional projects for a net upward adjustment of \$4.25 million. There is no proposed adjustment for FY14. These net adjustments will provide 10 11 adequate funding for the eleven newly identified projects that are needed in order 12 to provide reliable service to customers under the Company's planning criteria.

4. Underground Networks

15 Q. What was the Staff's recommendation regarding the Networks program?

These changes are shown in Exhibit (IOP-1R), Schedule 4.

16 A. The Staff recommends reducing Underground Network Project #C33173 (Albany
17 Network) by \$0.8 million in FY11 and FY12 in an effort to bring the anticipated
18 investments in line with typical costs similar to Projects #C29205 and #C29206
19 (Buffalo – Elm Street Network). The Staff also recommends removing all
20 Underground Network expenditures for FY13 through FY15 (\$2.0 million, \$2.25
21 million and \$2.5 million respectively) due to lack of specific projects.

22

13

14

1	Q.	What is the scope of the Albany Network project?		
2	A.	The Albany Network project is comprised of two distinct portions. One portion is		
3		the annual replacement of 5 network transformers and 5 network protectors based		
4		upon condition which will be an ongoing investment for the FY11-FY14 period.		
5		It is for this portion of the project that Staff recommends using the estimates from		
6		the Buffalo - Elm St. projects. The other portion of this project involves		
7		investment requirements that were identified through a detailed network study;		
8		the Albany Network Secondary Distribution Study.		
9				
10	Q.	Do you agree with the proposal set forth by Staff?		
11	A.	We agree in part and disagree in part.		
12				
13	Q.	Do you believe it is reasonable to compare project #C33173 with projects		
14		#C29205 and C29206?		
15	A.	We do believe it is reasonable to compare the projects as the general scope of the		
16		work is similar. However, the estimates that were used for the projects #C29205		
17		and #C29206 were based upon 2008 estimates and we have better information		
18		based upon actual work for this type of project.		
19				
20	Q.	What is the scope of the projects on the Buffalo – Elm Street Network and		
21		what were the projects estimates?		
22	A.	The scope of Buffalo – Elm Street Network consists of replacing 5 network		
23		transformers at an estimated cost of \$0.05 million to \$0.1 million (Project		

1		#C29205) and replacing 5 network protectors at an estimated cost of \$0.025
2		million to \$0.06 million (Project #C29206).
3		
4	Q.	What does the Company believe is the appropriate cost for each component
5		of this portion of the Albany Network project?
6	A.	The Company believes based upon similar completed work that the cost of
7		replacement of each network transformer is \$0.110 million for a total of \$0.550
8		million annually and the cost of replacement for each network protector is \$0.060
9		million for a total of \$0.300 million annually. In total this portion of this project
10		will require the investment of \$0.850 million annually.
11		
12	Q.	What was the purpose of the Albany Network Secondary Distribution
13		Study?
14	A.	The purpose of the Albany Network Secondary Distribution Study was to analyze
15		the network secondary distribution system serving the City of Albany. The study
16		included: the analysis of thermal and voltage limits during normal, single
17		contingency and double contingency conditions; and the expected performance of
18		the network secondary distribution system for solid faults in the secondary cable
19		system. The additions designed to alleviate all of the calculated thermal criteria
20		concerns, voltage criteria concerns, and fault criteria concerns are recommended
21		in the study.
22		
23	Q.	When was the study completed and what were its findings?

1	A.	The Study was completed in April 2010 and recommendations from the study
2		have resulted in Project #C36274 which is part of the overall Albany project
3		Underground Network Project #C33173 (Albany Network). Project #C36274
4		consists of replacing an additional 3 network protectors, 6,707 circuit feet of
5		secondary network sets and 28 secondary manhole and ring buses (\$0.095 million
6		FY11, \$0.817 million FY12 and \$0.629 million FY13).
7		
8	Q.	Is Project #C36274 replacing Project #C33173?
9	A.	No. Project C#36274 is in the budget as a sub project of Project #C33173.
10		
11	Q.	What is the total cost of the Albany Network Underground Network Study
12		Construction?
13	A.	As a result of the Albany study (Project #C36274) and the estimated costs of
14		replacing 5 network protectors and transformers annually (Project #C33173), the
15		Albany Underground Network Study Construction is estimated to cost a total of
16		\$4.1M (FY11-\$0.95 million, FY12-\$1.7 million, and FY13-\$1.5 million).
17		
18	Q.	Does the Company recommend similar underground network projects in FY
19		14 ?
20	A.	Yes. The Company intends to continue being proactive and plans on performing
21		similar network related projects on other underground secondary networks such as
22		those located in Syracuse, Utica, Watertown, and Buffalo. Therefore the
23		Company's forecasted expenditures in FY14, although not supported by specific

projects due to the fact that the detailed studies have not been completed at this time, is reasonable. In is reasonable to assume that the Company should continue to modernize critical underground network, many of which were installed many decades ago.

A.

Q. Why does the Company consider its proactive approach in maintaining its Underground Networks to be important?

The underground network systems are highly integrated and complex, and as their condition is deteriorating, they require monitoring, maintenance and replacements based on network studies to maintain safety and reliability. When network failures do occur they have a significant impact on the reliability and integrity of the overall network due to the length of time required to make repairs, the complexity of making the repairs and the associated costs for such repairs.

Additionally, unlike the overhead system, in the secondary underground networks system failure is designed to cascade in an attempt to sustain the reliability of the network. This places added importance on the need to ensure that the equipment in the network is viable and able to operate as designed. By continuing with the network program beyond the Albany network the Company is taking a proactive approach to maintaining and sustaining the underground secondary network system.

Q. What does the Company recommend?

I	A.	Based upon the investment requirements as set forth above for the Albany project
2		(FY11-\$0.95 million, FY12-\$1.7 million, and FY13-\$1.5 million) the Company
3		recommends that; its FY11 investment as DPS Staff recommends, its FY12
4		investment level be set at \$1.7 million which is \$0.400 million more than Staff
5		recommends, its FY13 investment be set at \$1.5 million which is \$1.5 million
6		more than Staff recommends and that the FY14 be set consistent with the
7		investment required in FY13 of \$1.5 million, which is \$1.5 million more than
8		Staff recommends, in anticipation of work that will be identified similar to the
9		work delineated for the Albany Network.
10		
11		5. <u>Mercury Vapor Replacement Program</u>
12	Q.	What does the Staff recommend regarding the Company's Mercury Vapor
13		(MV) replacement program?
14	A.	The Staff recommends reducing the MV replacement program budget, which
15		currently ranges from \$2.5 million to \$3.0 million in FY11 through FY13, to
16		\$0.75 million per year in FY11, FY12 and in FY13.
17		
18	Q.	What is the basis of the Company's MV replacement program?
19	A.	The MV luminaire replacement program is based upon several key points. First,
20		when developing this program, the Company understood that applicable
21		legislation adopts an attrition model for luminaire replacement beginning in 2008.
22		Second, the Company was also aware of criteria proposed within the federal
23		Clean Energy Policy Act which would establish efficacy standards for lamps

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

which the MV lamps may not achieve. Ultimately the legislation would result in the termination of production of MV lamps beginning in 2016. Although the legislation is still pending, the direction of energy policy at both the federal and state levels is towards greater energy efficiency. We therefore believe that it is reasonable for the Company to plan now for the adoption by government at some level of efficiency standards for lamps that will require the replacement of MV luninaires. The Company's replacement strategy provides sufficient time and resource allocation to achieve the luminaire conversion in a way that promotes quality consistency and efficiency. Q. When is the expected completion date of the MV replacement program? The MV replacement program is expected to be completed in FY13. A. Would a spot replacement process as proposed by Staff achieve a similar Q. objective? Yes. The individual spot replacement process would eventually achieve the A. elimination objective; however, it will not promote quality consistency and efficiencies in the use of all resources. Q. Why are there comparative differences between the program and historical unit cost values? Α. The comparative difference between the program and historical unit cost values are due to the current program's future cost, which includes estimates of all

associated in-house costs, current purchase costs of the specific luminaires and reasonable production rates. The historic costs include actual costs for activities involved in design through construction with all other costs being applied as supplemental factors.

Q.

A.

Is it recommended that the Company continue with the MV replacement

program?

Yes. The Company believes its current coordinated, bundled approach to the replacement of all MV luminaires by the FY13 target date is the right approach and is justifiable given the associated environmental concerns and improved energy efficiency that will be gained from alternative light sources.

A.

Q. What is the most beneficial aspect of the MV replacement program?

The most beneficial aspect of the project is achieved through the efficiencies of managing large volumes of luminaire replacements at all stages of the work order process flow, procurement, materials management, installation and resource recovery. The program will address geographically targeted customers to maintain a uniform and continuous performance model across the service territory promoting the efficient utilization of labor, transportation, material resources and retired equipment disposal. This approach minimizes the impacts to labor and material resources associated with unplanned and random customer contacts.

Are there any other benefits from implementing the Company's $\boldsymbol{M}\boldsymbol{V}$

1

Q.

2		replacement program?
3	A.	The proposed replacement program further addresses the Company's timely
4		commitment to achieve energy efficiency targets, promote reductions in carbon
5		emissions and mercury usage.
6		
7		6. <u>Pockets of Poor Performance</u>
8	Q.	What did Staff recommend with respect to the Company's Pockets of Poor
9		Performance Program?
10	A.	The Company proposed funding of \$2.13 million/year for each year FY11-FY14 for
11		the Pockets of Poor Performance program. Staff recommended the Company not
12		receive any funding in this case for the program.
13		
14	Q.	What is the intent of the "Pockets of Poor Performance" Program?
15	A.	The main driver for the program is improved customer reliability at the local level.
16		There are a number of customers who undergo repeated interruptions, but because
17		these events affect only a relatively small number of customers, prioritizing this work
18		on a system reliability basis is difficult. It is these small, localized events that the
19		Company terms "pockets of poor performance." The reliable service for individual
20		pockets is very important to the customers adversely impacted and the Company
21		believes it appropriate to address these issues to improve reliability and promote
22		greater customer satisfaction.
23		

1	Q.	How does the Company intend to identify and manage the pockets?
2	A.	The Company conducts quarterly reliability reviews to identify both poorly
3		performing feeders and local pockets of poor performance. This program targets 3
4		identified pockets per division per quarter to be addressed. Local Divisional Field
5		Engineers perform Engineering Reliability Reviews (ERRs) and perform field studies
6		and identify appropriate mitigation opportunities based upon the specific needs of an
7		identified pocket. Local divisional recommendations are endorsed by the Divisional
8		Reliability Council and approved in the System Reliability Council.
9		
10	Q.	How many pockets are there, and how many customers are affected?
11	A.	When the Pockets of Poor Performance Strategy was updated in March 2010, there
12		were approximately 125 pockets affecting about 10,500 customers. Subsequent
13		analyses are ongoing.
14		
15	Q.	Does the Company believe such pockets of poor performance could be addressed
16		through other on-going reliability programs?
17	A.	Reliability blankets are typically utilized to address larger interruptions at the feeder
18		level, which provide, or have the potential to provide, substantial interruption
19		improvements in terms of customer counts and durations. On an overall basis the
20		existing reliability programs help pockets of poor performance by reducing overall
21		system exposure. However, because these broader reliability programs are designed
22		to maintain overall system reliability, the Company believes they are not necessarily
23		focused enough to effectively address localized reliability issues that generate pockets

of poor performance. The pockets of poor performance program is more targeted and focused to address these localized issues than a broader reliability blanket can.

A.

Q. What are some causes of pockets of poor performance?

Causes of pockets of poor performance are numerous but may include small sections of overhead conductor prone to tree events or inadequate step down transformer capability which may have resulted through shifting or increased loading in any particular area. Addressing such pockets may include actions such as reconductoring small sections of deteriorated overhead line, or performing voltage conversions.

A.

Q. Is it possible that mitigation for some pockets would be identified through other programs, such as Reclosers or I&M?

It is unlikely that issues relating to an individual pocket would be identified through recloser analyses, as the number of customers addressed is likely to be too small. Similarly, the I&M program, which is a visual inspection program looking at discrete asset integrity, would not likely address local reliability issues. Further, neither program is likely to identify root causes of local problems which are addressed as part of the pockets of poor performance program. Accordingly, the Company believes Engineering Reliability Reviews resulting from identification of pockets of poor performance are the appropriate tool to identify mitigations and recommend action.

Q. Are there generic solutions to pockets of poor performance?

1	A.	No. Although there may be common issues, each pocket must be evaluated	
2		individually and separate mitigation plans prepared.	
3			
4	Q.	How does a separate program help in managing pockets of poor performance?	
5	A.	The separate program allows for pockets to be managed as separate entities distinct	
6		from the overall reliability budget. Metrics can then be developed on mitigations	
7		performed and improvements made with reference to the pockets alone. By	
8		maintaining a separate budget it is possible to prioritize work on pockets at the	
9		beginning of the year which would otherwise be unlikely to be addressed under	
10		'normal' reliability initiatives.	
11			
12	Q.	Is there a generic budget forecast for an individual pocket?	
13	A.	Some pockets will have operational solutions requiring no capital; others may require	
14		significant capital (e.g., installation of spacer cable and reconductoring).	
15		Unfortunately there is no generic solution and consequently no generic budget	
16		forecast. In initial investigations, an average of \$100,000 per pocket is a reasonable	
17		estimate for capital solutions.	
18			
19	Q.	Is \$2.13 million an appropriate amount to budget for pockets of poor	
20		performance each year?	
21	A.	The Company believes the budget of \$2.13 million is sufficient to address, on	
22		average, 3 pockets per division per quarter. As noted, each pocket is an individual	
23		and unique occurrence of localized poor performance. With a \$100,000 per pocket as	

capital, and 60% of pockets requiring capital rather than operational mitigation, and an aim of 36 pockets annually, \$2.13 million is an appropriate budgetary figure.

Given the beneficial customer effects of this program, the Company's proposed funding level of \$2.13 million annually as shown in Exhibit __ (IOP-1R), Schedule 4, should be accepted, and the Staff's recommendation not adopted.

A.

- D. Sub-Transmission and Distribution Asset Replacements
- 1. <u>Sub-transmission Inspection and Maintenance Program</u> (I&M)
- Q. The Staff recommends that the capital estimated budget for sub-transmission repairs in response to visual inspection be reduced by 50% per year. Please explain the Company's concern about this reduction.
 - Inspection and Maintenance program for Sub-Transmission is the replacement of poles based on condition assessments. The Company's proposed level of funding for this program was determined using actual Sub-Transmission inspection results for calendar year 2008. This proposed level of spending was confirmed by the results of the 2009 inspections and aligns with a pro-rated level for the inspections conducted thus far in 2010. Accordingly, because the Company recognizes that the main driver of necessary capital investment for this work is driven by pole replacement, and the Company utilized an average cost multiplied by the number of poles to be replaced as identified during the past inspections to develop the anticipated capital investment, the Company's proposed level of funding is reasonable and should be adopted.

1

Q. Describe how the Company developed the budget levels it proposes for this program.

4 A. The Company budgeted \$9.6 million, \$10.0 million, \$11.0 million, \$11.5 million 5 and \$11.0 million for repairs to its sub-transmission system for FY 11 through FY 6 15, respectively. The budgeted estimate was developed based on 2008 actual 7 inspection findings. The table below highlights the total remaining poles to be 8 replaced on the Sub-Transmission system based on our current outstanding work 9 for both Level 2 and Level 3 deficiencies identified through the inspection 10 process. In fact, based on the work that is necessary to complete Level 2 and 11 Level 3 findings consistent with the requirements set forth in the Safety Order we estimate work for FY2012 already in excess of \$ 7.0 million. As 2010 inspections 12 13 continue we anticipate that there will be additional Level 2 work identified which 14 will need to be completed by the end of 2011.

15

Year	Total	Total	Total
Inspected	Found	Completed	Remaining
2008	772	413	359
2009	681	52	629
(YTD) 2010	323	0	323

16

18

17 Q. Is there a way that the Company can provide Staff with an annual

identification of the work completed under this program?

19 A. Yes. The Company, consistent with the requirements of the PSC Safety Order 20 evaluates 20% of its sub-transmission system annually through field inspections

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Q.

Α

Q.

Overarching Strategy?

and captures the results of this by discrete maintenance codes each with a unique description (for example, maintenance code 511, description visual rotting of a pole). Based upon the assessment and the severity of the deficiency which defines the relative level and thus the replacement schedule for the work, this work is scheduled for future investment consistent with the requirements of the PSC Safety Order. All of the maintenance codes are captured in a computer program; Computapole, and the resulting work is scheduled from the work that is queued during each cycle. The investment levels identified as part of this filing are based upon the actual inspection data that is presently in the queue from 2008 and 2009. The Company, using the data that is captured in the Computapole program and the work that is completed by the Company each year can provide Staff a summary of discrete investments in the system. What is the Company's recommendation regarding this program? The Company's proposed funding levels for this program, as shown in Exhibit (IOP-1R), Schedule 3, should be accepted, and the Staff's recommended adjustments not adopted. 2. Sub-Transmission Line Overarching Strategy What are the Staff's recommendations for the Sub-Transmission

1	A.	The Staff recommends the budget for the Sub-Transmission Line Overarching
2		Strategy forecast be set to \$11 million per year, which would result in a total
3		program decrease of \$10.7 million over the period FY11-FY13.

Q. On what did the Staff base its recommendations?

A. Staff accepts the Company's line selection process and the projects identified; however, it recommends the forecasted budget be reduced so as to align it with historic spending in 2008 and 2009.

A.

Q. Why does the Company view historical spending to be an inaccurate way of determining budget levels for a suite of projects?

The choice to match past spending by Staff does not align with the Company's identification of reliability opportunities on the sub-transmission system that were previously not focused due largely to the Company's concentration on distribution reliability opportunities in order that the Company expeditiously begin to meet its reliability targets. However, in order to maintain the Company's present reliability levels the additional work has been identified on the sub-transmission system. Work in this category has been identified through reliability reviews and the aerial helicopter survey which was just recently completed over the last two years. Moreover, the Company has taken a holistic view of opportunities to improve reliability through these targeted investments in its sub-transmission system as informed through detailed reviews with Operations and Engineering

1 personnel. The projects identified provide Operational capabilities by making the 2 system more discrete from the standpoint of isolating and restoration capabilities. 3 4 Each project identified in the Company budget has specific scopes based on 5 design, construction configuration, topography in the work area, permitting 6 requirements, and outage availability. Due to the above variations in project 7 scopes, historic spending levels are not an accurate method of determining 8 forecast levels. 9 10 The projects identified in the budget are quantified, well-developed projects with 11 engineering complete, materials procured, permitting requirements met, and ready 12 for schedule. Because these projects are in advanced stages of development, the 13 spend and project schedules are accurate and realistic. Accordingly, the funding 14 levels proposed by the Company, as shown in Exhibit (IOP-1R), Schedule 3, 15 should be adopted and the Staff's recommended adjustment rejected. 16 17 3. **Indoor Substations** 18 Q. What has Staff proposed for this program. 19 A. Staff has proposed a reduction in the number of substations that should be funded 20 annually based upon the Company's slower than expected progress in the past for 21 substation rebuilds under this program. Additionally, Staff proposes to reduce the 22 investment level consistent with the three substations they recommend to be 23 funded annually.

1	

- 2 Q. Does the Company agree with the proposed reduction in the number of
- 3 substations to be completed annually?
- 4 A. Yes. The Company agrees with the reduced number of substations that are to be funded on an annual basis based upon the complexity and amount of work that is being realized at these substation upgrades.

7

8

- Q. Does the Company agree with the reduced investment level for these
- 9 **projects?**
- 10 A. No. Although the Company has progressed at a slower pace than anticipated it is 11 due to the complexity and volume of work that is being realized at these locations. The result of the complexity and volume of work is that in aggregate the program 12 13 is costing more than the \$4 million that has been proposed by Staff and was 14 identified in IR Response DPS-302 (CVB-21). Average cost per station is approximately \$8 million based on latest estimates. Despite the reduction in the 15 16 number of substations proposed under the program, the original investment level 17 proposed by the Company is more consistent with the funding requirements for 18 three substations as proposed by Staff. The Staff proposed adjustment should be 19 rejected and funding as shown in Exhibit (IOP-1R), Schedule 4, should be 20 adopted.

21

22

4. Distribution Station Transformers

1	Q.	what does Staff recommend regarding distribution substation power
2		transformers?
3	A.	The Staff acknowledges the need to proactively replace substation transformers
4		based upon condition which, as Staff notes, the Company does. Staff's
5		recommendation is to replace two transformers per year at a cost of \$0.4 million
6		per unit resulting in a downward adjustment for FY11, FY12 and FY13 of \$0.7
7		million and \$1.2 million for FY14. This investment level provides the capability
8		for less than the number of transformers the Company believes should be replaced
9		in order to properly manage the system.
10		
11	Q.	How many distribution transformers has the Company identified that need
12		to be replaced based upon condition?
13	A.	The Company has identified 62 units which are included on its 5 year replacement
14		list. Of these, 13 replacements already have project numbers assigned and are
15		progressing through engineering.
16		
17	Q.	How many transformers does the Company need to replace a year and why?
18	A.	The Company replaces between 4 and 8 units a year in order to ensure that:
19		• the condition of the transformer inventory currently in service is adequate
20		for purpose
21		• the Company has the capability to deal with significant events which
22		require use of spare units
23		• the system is sustainable; and

• the uncontrolled occurrence of transformer failures is minimized.

Α

Q. Why must transformers be replaced and not just maintained?

Power transformers deteriorate (degrade) with time. Some elements of deterioration, such as oil quality or tap changer contacts, may be addressed through maintenance. However, a key component of transformer insulation is paper, which is cellulose based, and which can suffer deterioration as a result of three key processes: oxidation, hydrolysis and thermal heating. The oxidation and hydrolysis can be controlled, to a degree, through maintenance activities such as gasket refurbishment and oil preservation systems. The thermal deterioration, however, is cumulative and irreversible and is a consequence of the natural operation of the transformer. It cannot be addressed via maintenance.

A.

Q. What would happen if transformers were not replaced in a timely manner?

Deferred or delayed replacement of transformers creates additional risk that a significant number of transformers would deteriorate simultaneously to the point where they are no longer fit to perform their function or can operate in a manner which is reliable. Moreover, if this occurs the necessary replacement rate to restore the reliability of the system would be difficult and not cost efficient.

Q. Does the Company recommend transformers be replaced on the basis of age?

A. No. The Company takes a condition based approach to replacement, based on available inspection, test and maintenance data (including dissolved gas in oil

analysis). Age is a contributing factor to cellulose degradation but it is used as an indicator of possible concern rather than as a driver for replacement of a unit. Our present list of replacement candidates for transformers tends to have older units, but is not limited to those above a certain age. In fact, the correlation between age and the units that have been previously been identified for replacement based on condition is what establishes our concern about deferring investment in distribution transformer replacement. It should be noted that of the 62 units identified based upon condition, 48 or 77% of them are older than 50 years old. Furthermore, 27 or 43% of those identified are older than 70 years and 21 or 33% of those identified are more than 80 years old.

Q. How old are the Company's transformers?

A. More than 50% of our approximately 806 substation transformers are greater than 50 years old.

A.

Q. What would happen if we only replaced 2 transformers per year?

In twenty years, if the Company replaced only two substation transformers per year in this age grouping, 57% of our transformers (or 456 units) would be greater than 70 years old and nearly 600 units (or greater than 72%) would be greater than 50 years old. And while age is not a direct indicator of condition it is reasonable to assume that with a larger population of older transformers that the number identified for replacement based upon condition will likely be larger as well. If this were to occur the Company's ability to efficiently and effectively

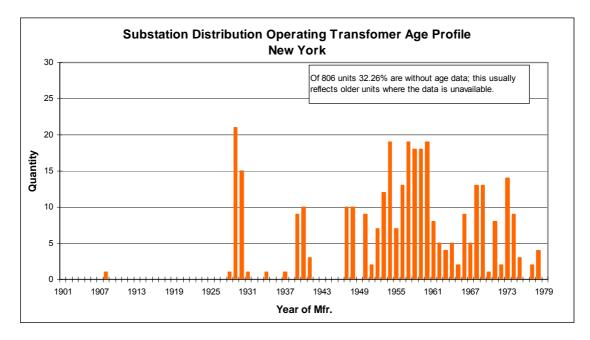
replace the large number of complex assets would be compromised. Table 1 and Figure 1 represent the present day age of our distribution substation transformers.

3

Station	Percentage	
Transformer	of	
Age in Years	Population	Count
>30	77.0%	621
>40	70.9%	572
>50	61.5%	496
>60	44.1%	356
>70	39.8%	321

Table 1. Age of Transformer Population





5

6

Figure 1. Distribution Substation Transformer Age Profile

7

8

9

Q. What does the Company recommend for the distribution substation

transformer investment forecast?

- 10 A. Given the current condition of the transformer population and the identified
- substation units to be replaced, the Company believes it is prudent to maintain the

1		level of forecast originally set out (\$1.5 million for FY11, FY12 and FY13 and
2		\$2.0 million for FY14), as shown in Exhibit (IOP-1R), Schedule 4.
3		
4		E. <u>Non-Infrastructure Capital Investments</u>
5	Q.	What does Staff recommend in regards to the forecasted level of
6		expenditures for non-infrastructure general equipment and
7		telecommunications?
8	A.	Staff has proposed a reduction in the forecast for non-infrastructure general
9		equipment and telecommunications of \$2.1million in FY12 to a recommended
10		funding level of \$3.2 million, and funding at \$3.2 million per year, adjusted for
11		inflation, for FY13 and F14. The Company points out that although these
12		adjustments were described in Staff's testimony, they were not reflected in the
13		Staff's exhibits. In order to address this apparent inadvertent discrepancy, the
14		Company's Exhibit (IOP-1R), Schedule 4, reflects Staff's proposed adjustment
15		as if it had been originally reflected in Staff's exhibits.
16		
17	Q.	Does the Company accept that flood mitigation projects are "too speculative
18		to include in the projected budgets"?
19	A.	No. As the Staff Infrastructure Panel states, "the Company has a history of
20		flooding events at the high risk substation locations" and, based on analysis by
21		independent consultants, the Company has identified specific flood mitigation
22		actions required at each of the high risk sites.
23		

1	Q.	Does the Company have specific projects in mind to address these historic
2		flooding events?

Yes. At the Amsterdam 115 kV Station, 2006 flooding from the Mohawk River
resulted in some upgrades at the site. An impermeable berm surrounding the
station and/or raising the height of the equipment in the station should also be
added. At the South Oswego 115 kV Station, the southern portion of the yard has
a history of flooding due to beaver dams that are periodically built in the upstream
culverts. The culverts are periodically cleaned out manually, but a more
permanent resolution such as a gated concrete culvert to replace the existing metal
culvert needs to be installed. The manual cleaning of the culvert poses a safety
risk to personnel so the gated culvert would eliminate this risk as well. Flooding
associated with Zimmerman Creek, a significant tributary of the Mohawk River,
occurred in 1995 and 2006 resulting in inundation of the St. Johnsville 115 kV
Station with almost three feet of water. A new berm along the western side of the
station four feet high would protect it from future overflow from the creek.
Likewise, the same flooding event of the Mohawk Valley in 2006 resulted in
overflow of the East Canada Creek tributary into the Inghams 115 kV station. A
stone berm was constructed between the station and the creek, but it does not have
an impermeable interior liner or barrier (like clay or sand). An impermeable
barrier needs to be added. Other recommendations from the consultant study
regarding Gardenville and Lighthouse Hill will be addressed as part of the
separate plans to rebuild those stations.

A.

1	Q	Is the Company recommending adjustments to the proposed capital
2		expenditures for the Non-Infrastructure Investments?
3	A.	No. Based on the foregoing testimony, we recommend total capital forecasts of
4		\$2.0 million and \$1.1 million in FY 13, and FY 14, respectively, as initially
5		proposed by the Company, as shown in Exhibit (IOP-1R), Schedule 2.
6		
7		F. <u>Cash Outlays</u>
8	Q.	The Staff Infrastructure Panel addresses three projects that it groups in a
9		category it calls "cash outlays." Could you respond to the Staff's
10		recommendations in this area?
11	A.	Yes. The Staff classified three projects included in the Company's filing as "cash
12		outlays": (1) the Tri-Lakes project; (2) the Luther Forest project; and (3) the
13		Hydro One BP76 Transformer Replacement project. Staff's testimony indicates
14		that the Company's proposed cost recovery for the Tri-Lakes and Hydro One
15		BP76 Transformer Replacement projects be allowed. However, the Staff
16		recommends that the potential costs of the Luther Forest project not be included
17		in rate base as the Company had proposed.
18		
19	Q.	Please summarize the Company's proposal regarding the Luther Forest
20		project.
21	A.	As described in our direct testimony, the Luther Forest project involves the
22		development by Luther Forest Technology Campus Economic Development
23		Corporation (LFTCEDC) of a new technology park designed to serve the needs of

large, high-tech customers with requirements for highly reliable electric service,
such as nanotechnology computer chip manufacturers. LFTCEDC is constructing
facilities that would interconnect directly to the Company's existing transmission
system. In addition to enabling service to be provided to computer chip
manufacturing facilities in the new technology park, the new facilities would
become part of the integrated network transmission system. Once the facilities are
constructed, it is anticipated that their ownership will be transferred to the
Company, and the Company would own, operate and maintain the facilities going
forward. It is estimated that such transfer will occur in stages as construction is
completed, with the first transfer of assets occurring no later than September
2010. This is substantially in advance of the March 2012 transfer date identified
in our initial filing in this case. The estimated cost of the transmission facilities
being developed by LFTCEDC is approximately \$37 million. This updated
amount is approximately \$20 million less than the estimate reflected in the
Company's January 29 filing. The bases for the reduction include a change in
project scope, as well as the availability of actual costs information versus
previously estimated costs. LFTCEDC and the Company have previously
discussed that once completed, the facilities would be transferred to the Company
for \$1. The assets would be put on the Company's books at that amount, and the
corresponding effect on the Company's rate base would be negligible. In other
cases where a transfer of assets has occurred substantially below their value, the
U.S. Internal Revenue Service has held that there is a resulting income tax
liability for the asset recipients. The amount of the tax is based on the recipient's

tax rate. In a case like this, where the assets are estimated to cost approximately \$37 million, the resulting tax liability could be significant (perhaps as much as \$14.8 million when using a 40% tax rate). To the extent the Company incurs any income tax liability as a result of the transaction, it would propose to handle such tax liability as a deferred tax asset on the Company's books.

- Q. What's Staff proposal for treating the costs of the transferred Luther Forest assets in the Company's rate base?
- A. The Staff recommended that the cost of the facilities not be included in the rate base until there is a signed contract for the transfer of the assets, and that contract is finally adjudicated at FERC.

A.

Q. What is the Company's understanding of Staff's position?

Staff is concerned that customers may be asked to bear costs for capital investments the Company is not required to make. Indeed, aligning cost responsibility with actual capital investments is the primary protective mechanism provided by the Capital Investment Reconciliation Mechanism (the "Tracker") proposed by the Company in this case. To the extent the capital investment upon which rates are set is greater than the actual capital investment amount on the Company's books for the given period, customers would be credited the revenue requirement effects of that difference.

1	Q.	Does Staff's recommendation rely upon the Tracker to provide customers the
2		benefit of a potentially lower capital cost of the facilities on transfer?
3	A.	No, it does not.
4		
5	Q.	What is the Company's response to the Staff's proposal?
6	A.	The Company believes the Tracker mechanism could have been used in this
7		scenario but understands Staff's concerns about including the entire cost of the
8		project in rate base prior to any direction from FERC on the allocation of costs
9		associated with the transfer. In order to ensure the customer is energized on their
10		timeline, the Company proposes that the assets be transferred from LFTCEDC to
11		the Company and to the extent that the Company incurs any income tax liability
12		as a result of the transaction, it proposes to include the tax liability as a deferred
13		tax asset on the Company's books. The Company would then earn a return on the
14		timing difference of the tax liability over the life of the asset.
15		
16	Q.	Is there any other issue associated with the Luther Forest transaction that
17		you would like to discuss?
18	A.	Yes. FERC's approval of the asset transfer. In light of FERC's potential
19		jurisdictional authority over the transfer of looped high-voltage facilities, that
20		agency's determination on the transfer is also expected to determine if the cost of
21		the facilities can be directly allocated to a single developer (which is not the
22		ultimate end-use customer), which in this case is LFTCEDC. Although the
23		Company and LFTCEDC have agreed to the transfer at \$1, and the unique

circumstances of the situation justify the contemplated \$1 transfer price, there is uncertainty whether FERC will authorize the transfer at \$1. If FERC requires the Company to fund the entire market value of the assets now estimated at \$37 million the Company would adjust its revenue requirement prior to this case being resolved to reflect their decision. To the extent FERC's decision were to occur after the resolution of this case, the Company would propose to include the amount of increased capital investment in rates through the proposed capital tracker mechanism or petition the Commission for appropriate rate treatment.

A.

G. <u>Facilities, Properties and Lease</u>

Q. Please respond to the Staff's proposal regarding capital funding for the Company's facilities projects.

The Staff recommended removing all capital funding for the Company's proposed control center consolidation project, and further proposed levelizing facilities capital funding over the remaining fiscal years covered by the Company's proposed rate plan period. However, the proposed profiled investment plan set forth in the Company's initial filing was intended to reflect actual or planned spending commitments during those periods. The Staff's proposed flattening of the profile, while intended by Staff to provide a comparable level of non-control center project funding, would nevertheless result in a significant mismatch in the Company's capital investment schedule and the recovery schedule in rates.

Although the Company presents updated information below which reduces total facilities investment levels in FY11 and increases it slightly in FY12 from what

we presented in our Corrections and Updates filing, the updated investment levels are still based on anticipated expenditure dates, and the Staff's flattening proposal would still produce a mismatch, as seen in Exhibit __ (IOP-6R). Finally, as described below, the Company believes Staff may not have properly or completely evaluated the benefits from the proposed control center consolidation project, and we therefore recommend that Staff's proposed adjustments be rejected.

- Q. Please address Staff's concern that the Company's proposed facilities capital budget in the rate plan exceeds its historic level of facilities capital spend.
- A. Most of the spend forecast in FY11 and FY12 is for the purchase of two facilities as discussed later in this testimony. As such, while there is risk that commercial factors may contribute to a delay, there is lower risk with this type of spending as compared to a major renovation or new construction project.

- Q. Please describe the mentioned updates to the Company's facilities capital budget.
- 18 A. There are two major changes. The first is that the full scope of the North Albany
 19 area project will not take place due to the estimated costs received from
 20 contractors for the proposed work being higher than originally estimated by the
 21 engineering firm hired by the Company to address the needs of the building and
 22 the addition of scope to the project. The second is that the consolidation of the
 23 Beacon North facility to Henry Clay Boulevard will not take place. This also is

1		due to the estimated cost from contractors coming in higher than anticipated from
2		the Company's engineering firm as well as the addition of scope to the project
3		
4	Q.	Regarding the North Albany Area project, will the two existing facilities in
5		Troy and the one in Glenmont still be utilized?
6	A.	It is possible that one of the Troy facilities will be closed in the future. However,
7		the Company has not completed a re-evaluation of its options.
8		
9	Q.	Is work still required at the North Albany facility without the consolidation?
10	A.	Yes. A condition assessment of the building identified upgrades necessary to
11		address components such as HVAC, electric infrastructure, fire alarm system,
12		restrooms and windows which are beyond their useful life. The total estimated
13		cost for renovations (without consolidation) is approximately \$7 million.
14		
15	Q.	How has the Company addressed the operations savings for the consolidation
16		project?
17	A.	The operations savings associated with Troy-Smith Ave, Troy – Oakwood and
18		Glenmont shown in Attachment 1 of IR MM-81 will no longer be realized and
19		have been removed from the Cost of Service.
20		
21	Q.	Has the capital spending plan been revised for the North Albany area
22		project?

1	A.	Yes. The capital plan has been staged as shown in Exhibit_(IOP-6R) to
2		complete the North Albany upgrades identified earlier into fiscal years FY12,
3		FY13 and FY14.
4		
5	Q.	Have capital building system upgrades been identified at Henry Clay
6		Boulevard (HCB) absent the relocation requirements of the Beacon North
7		Facility?
8	A.	Building system upgrades are not anticipated at this time for the Henry Clay
9		Boulevard facility.
10		
11	Q.	Is there an alternate plan to address the Beacon North facility under the
12		Syracuse Area Project?
13	A.	The Company is currently in negotiations to purchase a property that meets the
14		needs of the departments located at the Beacon North facility and will be less
15		expensive than the HCB retrofit.
16		
17	Q.	Does Staff's proposed capital spending schedule set forth in Exhibit_(SIP-
18		12) match the Company's anticipated spending for the proposed purchase of
19		the property?
20	A.	No, it is anticipated that negotiations will conclude shortly and the Company
21		would make the purchase as quickly as possible to take advantage of substantial
22		savings in avoided lease payments. Therefore, the capital spending schedule

1		proposed by Staff does not match the Company's anticipated capital
2		requirements.
3		
4	Q.	What are the Company's plans if the purchase is not completed?
5	A.	The Company intends to continue leasing the Beacon North facility for the
6		foreseeable future if the property purchase option is not implemented.
7		
8	Q.	What effect will not consolidating the Beacon North operations to HCB have
9		on the facilities capital plan proposed by the Company and the adjustments
10		to operation expense spend?
11	A.	There are two options, depending on whether the Company succeeds in its
12		proposed facility purchase, or whether it remains at the Beacon North site under a
13		continued lease arrangement. Under the first option, the capital spending level
14		will be approximately \$8.0 million in FY11, a downward adjustment of \$2.0
15		million in FY11 from the Company's capital plan submitted in the Corrections
16		and Updates filing. This option is presented in Exhibit (IOP-6R). If the
17		Company remains at the Beacon North facility under a continued lease
18		arrangement, the capital spending plan for this project will be \$0.0 million for
19		FY11 and FY12. In addition, the operational expense savings shown in
20		Attachment 1 of IR MM-81 will not be realized. However, no adjustment has
21		been made to the cost of service as this scenario is currently speculative.
22		

1	Q.	Regarding the remainder of the facilities capital plan for FY11 and FY12,
2		what is the Company's proposal for baseline facilities spending compared to
3		Staff's recommendation?
4	A.	As shown in Exhibit (IOP-6R), the Company proposes to spend \$3.9 million in
5		FY11 and \$4.4 million in FY12 as compared to Staff's proposal of \$1.6 million
6		and \$3.4 million, respectively.
7		
8	Q.	Why is the Company proposing a higher spend level than Staff for FY11 in
9		baseline spending?
10	A.	The Company has already committed to \$3.4 million in spend based on submitted
11		purchase orders and received bids. It would be difficult to retract the work four
12		months into FY11. In addition, \$0.5 million of additional projects are already in
13		progress.
14		
15	Q.	How is the Company's Buffalo area project progressing?
16	A.	The Company has completed the relocation of personnel and material from its
17		Tonawanda facility and anticipates that actual spending levels will be at or near
18		the original budget. However, the Company has moved \$1.2 million in capital
19		spend from FY11 to FY12 at the Kensington site in Buffalo, as shown in Exhibit
20		(IOP-6R), to further evaluate the renovations needed to accommodate the
21		relocation of personnel, vehicles and material from the Tonawanda facility.
2.2.		

1	Q.	Can the Company accommodate Staff's proposed spending levels for the
2		Syracuse Office Complex (SOC) façade project?
3	A.	No, as shown in Exhibit (IOP-6R), the Company proposes to spend \$3.5
4		million in FY11 and \$1.0 million in FY12 as compared to \$1.4 million and \$0.8
5		million proposed by Staff, respectively. It is anticipated that the planned budget
6		amounts will likely be spent since the SOC façade repairs are in progress. In fact,
7		it is anticipated that FY11 spending will exceed the proposed budgets due to the
8		discovery of more extensive damage by the contractor as the masonry and
9		window repairs have progressed. The Company has implemented a stringent
10		review of the work and alternative repair options are being investigated in an
11		effort to keep cost over-runs at a minimum.
12		
13	Q.	Can the Company's plan for renovating the SOC be adjusted to meet Staff's
14		proposal?
15	A.	No, renovation work is in progress at the SOC in order to make room for an
16		additional 570 work spaces necessary to implement the Transaction Delivery
17		Center (TDC), EDO Transformation initiatives to consolidate clerical staff plus
18		other additional initiatives such as the consolidation of departments within the
19		SOC. The Company requires its original proposed budget levels of \$10.5 million
20		in FY11 and \$2.0 million in FY12, as shown in Exhibit (IOP-6R), as compared
21		to Staff's proposal of \$4.4 million and \$1.5 million respectively to complete the
22		project.
23		

1	Q.	Can you address Staff's concern related to the negative cost/benefit ratio of
2		the Saratoga Area project?
3	A.	The Company currently leases a facility in Saratoga at a very favorable rate.
4		Unfortunately, the lease agreement will expire in October 2011. Given the very
5		favorable rate that the Company now pays, the cost/benefit ratio of the
6		alternatives of purchasing an existing facility or constructing a new one to
7		accommodate business needs should be expected to be negative.
8		
9	Q.	Can the Company modify the Saratoga Area project to meet Staff's proposed
10		spending schedule?
11	A.	Because the Company is currently planning to purchase an existing facility, it
12		would not be possible to accommodate the Staff's proposed spending schedule for
13		this project. If the Company elected to construct a new facility, it could adjust
14		spending in FY11 and FY12 per Staff's proposed schedule; however, it is
15		anticipated that in that case, the total spending level will be higher and would
16		require a longer timeline. The anticipated move-in date is no later than March 31,
17		2012 to an existing facility.
18		
19	Q.	Please comment on the Staff's recommendations regarding the proposed
20		control center consolidation.
21	A.	The Staff concluded that the Company's proposed control center consolidation
22		was not justified and recommended removing \$13.5 million in capital funding for
23		that effort. However, we believe the Staff did not properly or completely evaluate

the benefits from that project, and their proposed downward adjustment should be rejected.

Staff based its conclusion on the benefits of the consolidation, in part, on the incorrect view that consolidation will actually adversely affect the efficiency of the system operators, and that the benefits from the consolidation arise from upgraded systems alone. In fact, the consolidation of the control centers will allow for improved sharing of best practices during real time events, which should lead to a more consistent application of real time monitoring and response from one central location. The sharing of knowledge of a consolidated group within one building is expected to improve effectiveness during emergency situations.

A consolidated control center also allows for more efficient management of emergency events, such as major storm response. The pooling of control room expertise and experience during storms will help to reduce the number of times the field will need to open field storm rooms/boards. In addition, a consolidated control room is also closely linked to the centralization of clerical and design employees at the SOC. When additional help is required due to the size of a storm, employees will be brought into the control center to work in storm rooms from other groups such as design, clerical and mapping technicians. These resource capabilities will enable the new center to manage storm events for longer periods with personnel within the control center. In addition, the centralized resources will allow small to medium scale events to be managed from within the

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

Q.

A.

consolidated center, significantly reducing the number of times decentralized field storm rooms / boards are needed to be opened to support the dispatch, and assignment of outage calls. It is also expected that operations supervision that typically managed storms from the local office in the past will spend significantly more time in the field expediting restoration efforts. Further, at its central location at Henry Clay Boulevard, the consolidated control center would be located along with the Transmission Control Center and Gas System Operation Dispatch at a single location. Such proximity will promote further sharing of best practices and help support resource availability in response to emergency events. In summary, the Company believes there are significant operational and efficiency factors that result from the control center consolidation that may not have been considered by Staff. Upon consideration of those factors, the benefits of consolidation are apparent. Therefore, the Company proposes that its proposal to fund the consolidation of the control center be accepted and that Staff's proposal be rejected. H. **Inventory Management** Does the Company accept Staff's adjustment with respect to inventory management (IM) capital funding? No. While the Company agrees that historic spending in this category has been lower than requested in this rate case, there are specific plans that require capital funds to implement improvements. For example, IM is in the process of

1 consolidating warehouses and current "par locations" (crew barn stock rooms). 2 This effort will require additional items such as racks, bins, "tailgaters" and 3 forklifts at the existing locations following consolidation. In addition, all of the 4 existing handheld units will need to be updated with new software when the 5 Company migrates to the new SAP system. Lastly, the existing handhelds are 6 approaching the end of their useful life. A new five year program should be 7 implemented to replace the outdated units. Therefore, the Company proposes that 8 its proposal to fund upgrades within Inventory Management be accepted and that 9 Staff's proposal be rejected. 10 11 I. Capital Investment Plan Implementation 12 1. <u>Transmission Regional Delivery Ventures</u> 13 Q. Could you describe the Company's proposed capital work plan delivery 14 model? 15 Α In our initial testimony, we described the portfolio of construction delivery 16 resources the Company proposed to use to deliver the capital plan. These 17 included a combination of: 18 • Enhanced Internal Construction Capabilities; 19 • Traditional "project-by-project" competitive bidding; 20 • Distribution Alliance Contracts; 21 • Transmission Regional Delivery Ventures (RDVs); and • "Turn-Key" Engineer, Procure, and Construct (EPC) events for 22 specialized installations. 23

This portfolio of resources provides a range of different delivery means for different parts of the Company's capital plan, and represents an evolution in approach from our historic practice. Relatively new in the mix of work delivery resources are the Transmission RDV and the Distribution Alliance contracting models.

A.

Q. Please describe the Transmission RDV and the Company's goals in using that work delivery model.

The Transmission Regional Delivery Ventures (RDV) represents the Company's adoption of an innovative contracting strategy aimed at improving capital plan work delivery and increasing value for customers. The RDV was designed to operate under a long-term contract (i.e., 5-years) for the integrated provision of detailed design, project management and construction services to deliver an assigned portion of the Company's transmission capital investment program. The model includes an open costing framework and shared risk arrangement, coupled with performance incentives, which are intended to produce superior results at efficient cost.

During the competitive procurement event used to select the RDV partners, a total cost analysis was performed by the Company to evaluate the cost to deliver the 5-year capital program based on competitive bid pricing. Based on its analysis of projected savings under the RDV model versus traditional work delivery methods, the Company estimated total savings of 6.5% for the contractor element of the

five-year capital plan, or approximately \$45 million. These savings, combined with estimated insurance cost savings of \$15 million over the contract period, were reflected in the Company's five-year capital budget plan presented in this case, thereby reducing the budget to deliver the identified work versus what it otherwise would have been under a "business as usual" approach.

One of the primary value drivers of the RDV model is the development of long-term, integrated supplier relationships aimed at capturing the value of negotiating a large portfolio of work. Faced with substantially increasing capital investment requirements, the RDV arrangement provides the Company with resources to deliver the capital plan that we felt could not be effectively provided through increased internal staffing or use of traditional contracting resources alone. Given the upward trend in infrastructure spending throughout the country, and the anticipated high demand for skilled engineers, designers and craft workers that existed at the time the Company was evaluating capital delivery plan options, the long-term RDV arrangement enabled the Company to secure highly skilled personnel and construction equipment needed to deliver on the investment plan.

A.

Q. What position has Staff expressed on the RDV model?

Staff opposes the RDV model. Staff has expressed a clear concern that the RDV model may not provide the same level of certainty and competitive contract results that the more traditional construction contracting model would provide.

The Staff therefore recommends that the Company revert to a more traditional

contracting model, where fixed-price, design/build and design/procure/build contracts are competitively bid on an individual, site-specific, project-by-project basis.

A.

Q. What is the Company's position with respect to Staff's recommendation?

Given the environment in which the Company is operating, particularly where capital investment demands are increasing and the pool of qualified resources to deliver that investment are limited, we believe the RDV model represents an innovative strategy for providing long-term customer value. Identifying innovative approaches to do traditional work is part of the Company's commitment to continuous improvement, and something the Commission expects us to undertake. Although the traditional contracting model is not necessarily broken, its "business as usual" approach was not viewed by the Company as the most effective or efficient means of addressing the pressing challenges it faced.

Nevertheless, we acknowledge that the traditional contracting model advocated by Staff provides a level of certainty, familiarity, and comfort with which the marketplace, regulators, and, indeed, the Company are accustomed. Despite our belief that the RDV model as structured by the Company has the potential to provide substantial customer value over time, the Company is willing to undertake a review of the RDV model and assess whether there is a basis for incorporating more elements of the traditional competitive contracting model advocated by Staff. The objective of such a review would be to determine

1		whether there are any reasonable opportunities to revise the existing arrangements
2		to provide additional customer benefits and efficiencies in the delivery of the
3		work plan.
4		
5	Q.	Has the Company developed a plan for how it might incorporate more
6		traditional contracting elements into the RDV arrangements, or what a
7		revised RDV model might look like?
8	A.	No. Other than committing to explore the incorporation of more traditional
9		competitive contracting elements, the Company has not developed a plan yet.
10		The RDV arrangements were designed to be long-term relationships, and revising
11		them will require careful consideration. Importantly, as we explore options for
12		refining the RDV arrangement, the Company must strive for seamless delivery of
13		on-going work, and attempt to avoid delays or interruptions in the schedule for its
14		infrastructure projects.
15		
16	Q.	Please respond to Staff's recommendation that Niagara Mohawk review how
17		its various lines of business and departments can work together more
18		effectively, and the level of staffing necessary for delivery of its capital
19		investment plan.
20	A.	The Company is always considering ways to more effectively and efficiently
21		provide service. With respect to the specific recommendation made by Staff, we
22		note that it is substantially similar to Recommendation III-2 of the Management
23		Audit. In response to Recommendation III-2, the Company has implemented an

organizational model that combines the distribution and transmission work delivery and operations functions. Under the consolidated organizational model, the Chief Operating Officer, Ellen Smith, is responsible for combined operating activities. Therefore, through its actions to implement the Management Audit recommendations, the Company is addressing the Staff's recommendation in this case.

Q.

A.

2. <u>Distribution Alliance Contracts</u>

Could you describe the Company's Distribution Alliance Contracts?

The Distribution Alliance Contract arrangement is a three-year fixed-price unit rate contract arrangement between the Company and Harlan (a subsidiary of Myr Group) for the delivery of Niagara Mohawk's distribution line construction program. Under the Alliance contract, Harlan's performance will be evaluated against its unit costs, workload delivery, and agreed Key Performance Indicators (KPIs). The KPIs are focused on Safety and Environment, Quality, Delivery, and People performance measures and are designed to drive improved customer value. The release of work in subsequent years is dependent on satisfactory performance against these criteria to ensure acceptable costs and workload delivery.

Q. What recommendations did Staff make regarding the Distribution Alliance

Contract?

A. The Staff proposed that the Company should competitively bid out 20 percent of distribution and sub-Transmission work that would have gone to Harlan under the

1		Alliance contract in order to test the market and benchmark Harlan's
2		performance.
3		
4	Q.	Does the Company agree with Staff's recommendation?
5	A.	The Distribution Alliance contract structure and KPI mechanisms impose
6		sufficient incentives on Harlan to deliver the work efficiently and effectively.
7		Nevertheless, the Company is willing to direct a reasonable portion of the work
8		that would otherwise have gone to Harlan to other providers in order to better
9		assess Harlan's performance. Such providers could include internal workforce
10		resources, competitively selected contractors, or other contract providers.
11		
12	III.	Operation & Maintenance Expense
13		A. Operating Expense Associated with Incremental Capital Investment
14	Q.	Please explain the Staff Infrastructure Panel's adjustment to reduce
15		incremental Opex associated with Capex directly related to the capital
16		expenditure budget.
17	Α.	Staff's incremental Opex associated with Capex adjustment considers two items.
18		First, the adjustment considers a flow through adjustment associated with Staff's
19		capital budget forecast adjustment. Secondly, the adjustment imputes an O&M
20		savings forecast.
21		
22	Q.	Does the Company agree with the flow through adjustment associated with
23		Staff's capital forecast adjustment?

1	A.	The Opex associated with Capex amount included in the Company's filing is
2		based on applying the historic ratio of operations expense incurred in connection
3		with capital investment to the amount of incremental capital investment reflected
4		in the infrastructure plan. As explained in our testimony previously, the Company
5		does not agree with many of Staff's adjustments to the capital budgets, and
6		correspondingly does not agree with the amount of the flow through adjustment of
7		incremental Opex associated with Capex.
8		
9	Q.	Does the Company agree with the imputed O&M savings adjustment
10		included in the Opex associated with Capex adjustment?
11	A.	The Company does not dispute the methodology used by Staff to calculate an
12		amount of imputed O&M savings resulting from incremental capital investment.
13		However, we do not agree with the incremental capital investment levels used by
14		Staff in calculating their proposed adjustment, and therefore do not agree with the
15		amount of the proposed adjustment.
16		
17	Q.	Does the Company agree that if there are capital budget reductions, there
18		would be an associated reduction for the incremental operating expenditures
19		associated with capital expenditures?
20	A.	Yes, the Company agrees that capital budget reductions would also impact
21		incremental operating expenditures associated with capital expenditures.
22		Additionally, based on the Commission's determination of Staff's proposed

1		capital reductions, Staff's incremental opex savings adjustments would need to be
2		revised accordingly.
3		
4		B. <u>Additional Employees</u>
5	Q.	Can you provide additional explanation regarding the 'Additional
6		Employees' described in Section 8 of the Staff Accounting Panel?
7	A.	Yes. The Company's original proposal was to hire 136 incremental FTEs
8		primarily to accomplish the capital work plan proposed in this rate case.
9		Incremental funds were added to capital related expense recognizing that the
10		incremental FTEs will contribute significantly to this cost.
11		
12	Q.	Does the Company agree with the Staff Accounting Panel's operating
13		expense adjustment to exclude entirely the additional Transmission
14		employees?
15	A.	No. The Company has already hired 30 employees to date as detailed further
16		below. However, our most recent view of the organization under the T&D re-
17		alignment which has been prepared in response to recommendations of the
18		Management Audit indicate the total number of FTEs may be reduced to sixty-
19		five (65) from the previously proposed level of 136.
20		
21	Q.	Can you provide additional detail regarding the revised number of additional
22		FTEs proposed by the Company and their responsibilities?
23	A.	Yes. This information is also summarized in Exhibit (IOP-7R).

1	<u>Transmission Management</u> - (1) FTE reduction as originally proposed by the
2	Company.
3	
4	Asset Management – (14) incremental FTEs originally proposed by the Company
5	Nine (10) incremental FTEs have already been hired between September 30, 2009
6	and July 31, 2010:
7	• Three (3) in Transmission Planning to support NERC/NPCC
8	requirements, Smart Grid and renewable planning activities, CEII
9	document protection requirements and STARS.
10	• Three (3) in Transmission Line Engineering to fulfill need for system
11	condition assessment, system incident analyses, engineering due to
12	condition of transmission infrastructure in New York and to accurately
13	estimate projects.
14	• Two (2) in Asset Strategy to support system condition and risk analysis,
15	and PSC and ISO reporting requirements.
16	• One (1) Forester to assist in managing the maintenance of transmission
17	right of ways.
18	• One (1) in Investment Management responsible for putting together the
19	capital and maintenance work plan and coordinating with work delivery
20	groups.
21	Four (3) incremental FTEs are still required:

1	• Two (1) in Transmission Planning to assist in the development of
2	coordinated T&D system plans, reporting and management of increasing
3	asset replacements and to help manage the planning staff.
4	• Two (1) in Asset Strategy to support system condition and risk analysis
5	due to the condition of transmission infrastructure in New York, project
6	justification via the Transmission Cost Allocation process, and increasing
7	regulatory compliance requirements.
8	• One (1) in Portfolio Management to manage the number of projects in our
9	capital investment plans and work with the PM to provide support and
10	forecasting of project spend.
11	One (1) incremental FTEs is no longer needed:
12	• One (1) in Forestry was deemed unnecessary given the current workforce.
13	
14	Network Operations – Four (4) incremental FTEs originally proposed by the
15	Company.
16	Two (2) incremental FTEs have already been hired between September 30, 2009
17	and July 31, 2010:
18	• Two (2) Outage Coordinators to determine, plan, and manage the outage
19	system and schedule due to increased work load resulting from an
20	increasing capital plan.
21	Two (2) incremental FTEs are still needed:

1	• One (1) Outage Coordinator to determine, plan, and manage the outage
2	system and schedule due to increased work load resulting from an
3	increasing capital plan.
4	• One (1) Control Room Trainer to ensure compliance with new or revised
5	NERC Standards and as a result of increased NERC training requirements
6	as defined in NERC Standards PER-005.
7	
8	Regulation & Commercial - Two (2) incremental FTEs originally proposed by
9	the Company.
10	One (1) incremental FTE has already been hired between September 30, 2009 and
11	July 31, 2010:
12	• One (1) analyst to assist with department workload, expanded business
13	needs, and to provide continual workflow.
14	One (1) incremental FTE is still needed:
15	• One (1) budget analyst to assist with department workload, expanded
16	business needs, and to provide continual workflow.
17	
18	<u>Transmission Finance</u> – One (1) incremental FTE originally proposed by the
19	Company.
20	One (1) incremental FTE has already been hired between September 30, 2009 and
21	July 31, 2010:

1	• One (1) incremental FTE was filled to assist with additional workload
2	driven by corporate, regulatory, and statutory financial reporting
3	requirements.
4	
5	Regional Delivery – Nine (9) incremental FTEs originally proposed by the
6	Company.
7	Two (2) incremental FTEs have already been hired between September 30, 2009
8	and July 31, 2010:
9	• Two (2) Construction Administrators to oversee RDV work to ensure that
10	they are following the pre-set arrangements determined by the contract.
11	One (1) incremental FTE is still needed:
12	• One (1) FTE to analyze, manage and optimize risk and administrative/
13	control compensate events.
14	Six (6) incremental FTEs are no longer needed:
15	• Six (6) in Regional Delivery were deemed unnecessary given the current
16	workforce.
17	
18	Works Program Management – Eleven (11) incremental FTEs originally proposed
19	by the Company.
20	Eight (8) incremental FTEs have already been hired between September 30, 2009
21	and July 31, 2010:

1	• Seven (7) in Program Management to develop the capex schedule and
2	milestone reports, evaluate and analyze schedule deliverability with
3	workforce and PMs, and analyze the capital portfolio.
4	• One (1) in Quality Assurance to document and ensure procedures are
5	being followed within various steps of a project's lifecycle, perform
6	construction audits, write quality manuals/procedures, document work
7	instructions and perform quality checks/audits and documentation.
8	One (1) incremental FTE is still needed:
9	• One (1) in Program Management to support opex and capex reporting
10	requirements, develop the capex schedule and milestone reports, evaluate
11	and analyze schedule deliverability with workforce and PMs, analyze
12	capital portfolio, and fulfill financial reporting requirements.
13	Two (2) incremental FTEs are no longer needed:
14	• Two (2) in Program Management were deemed unnecessary given the
15	current workforce.
16	
17	<u>Transmission Project Manager</u> – Ten (10) incremental FTEs originally proposed
18	by the Company.
19	One (1) incremental FTE is still needed:
20	• One (1) Project Manager is still needed to determine, plan, and manage
21	capital projects.
22	Nine (9) incremental FTEs are no longer needed:

1	• Nine (9) FTEs in Project Management were deemed unnecessary given the
2	current workforce.
3	
4	System Delivery – Eighty-six (86) incremental FTEs originally proposed by the
5	Company.
6	Seven (7) FTEs have already been hired between September 30, 2009 and July
7	31, 2010:
8	• Two (2) in Estimating to estimate and prepare Good Faith Estimates and
9	work proposals for internal RDV projects due to increase in work
10	loads/new work operating model.
11	• One (1) in Scheduling to produce and update the daily, weekly, and
12	monthly rolling work plans in Primavera and other scheduling tools.
13	• One (1) in Transmission Line Services (TLS) to oversee Western Division
14	construction and maintenance projects.
15	• One (1) in TLS Construction to complete the extensive amount of work
16	expected in the Central Division.
17	• One (1) in System Delivery Construction to support forecasting,
18	budgeting, and monitoring O&M and Capital spending.
19	• One (1) in Maintenance to oversee contractor work relating to the
20	maintenance program.
21	Twenty-seven (27) FTEs are still needed:
22	• Eleven (11) electricians in Electrical Service Construction to support the
23	expanding capital work plan.

1

• Fifteen (15) in TLS Construction to support the expanding capital work

2		plan.
3		• One (1) in Maintenance to oversee contractor works relating to the
4		maintenance program.
5		Fifty-two (52) FTEs are no longer needed:
6		• Twenty (20) FTEs in Electrical Service Construction were deemed
7		unnecessary given the current workforce.
8		• Nine (9) managers in Substation Construction Services were deemed
9		unnecessary given the current workforce.
10		• Two (2) in TLS were deemed unnecessary given the current workforce.
11		• Twenty-one (21) in TLS Construction were deemed unnecessary given the
12		current workforce.
13		
14	Q.	What adjustment does the Company propose for this issue?
15	A.	The Company proposes to reduce its incremental funding request from \$3.067
16		million to \$1.978 million. The reduced funding level reflects the Company's
17		reduced incremental staffing needs, comprised of \$1.214 million for employees
18		already hired since the end of the historic test year, and \$0.764 million for
19		employees remaining to be hired. Exhibit (IOP-7R) includes additional
20		information on the breakdown of costs and the proposed adjustment.
21		
22		C. <u>RD&D</u>

I	Q.	Does the Company agree with the Staff's recommended adjustments
2		regarding the Research, Development and Demonstration ("RD&D")
3		program?
4	A.	No. Staff proposes to reject all incremental RD&D funding identified by the
5		Company for the rate years, and also proposes incorrect accounting treatment for
6		a \$150,000 contract rescission payment received by the Company in the historic
7		test year.
8		
9	Q.	What is the basis for Staff's proposed rejection of incremental RD&D
10		funding?
11	A.	Staff acknowledges that RD&D can provide financial benefits to customers.
12		However, it says that in the existing economic conditions, incremental RD&D
13		funding should be curbed. Staff also claims that the Company did not sufficiently
14		demonstrate the benefits of the RD&D programs it identified in its filing.
15		
16		The incremental funding for the RD&D programs identified in the filing are
17		designed to produce customer benefits which will result in lower costs to
18		customers, and the proposed funding levels should be approved. While the
19		immediate savings is unknown for the projects contained in RD&D the resulting
20		realized benefits are captured in future years and thus customers realize benefits
21		when the cost of service is evaluated in future rate cases.
22		

1	Q.	what effect would Staff's proposed adjustments have on the Company's
2		ability to undertake electric system RD&D efforts?
3	A.	The impact would be very significant. As an initial matter, it is important to
4		recognize that the Company pays nearly \$2.2 million of the \$2.552 million base
5		RD&D funding amount recommended by Staff to NYSERDA under its state
6		assessment. This leaves only \$0.352 million remaining for the Company to invest
7		in other beneficial RD&D programs. At a time when elected officials and policy
8		leaders are highlighting the historically inadequate level of research and
9		development investment in the nation's electric utility infrastructure, such a
10		minimal investment level seems counterintuitive. Indeed, even the spending
11		levels proposed by the Company in the corrections and updates filing is far below
12		the average research and development investment by utilities throughout the US
13		and in New York.
14		
15		In addition to being below the average level of utility RD&D spending, the
16		funding level recommended by Staff would severely limit the Company's ability
17		to leverage other available funding sources for the benefit of customers. The
18		Company is working with its affiliates in pursuing applicable collaborative
19		funding, and has submitted applications in response to solicitations of relevance
20		issued by various external funders. Generally, all funding mechanisms available
21		through external entities require co-funding by the participant. Both the DOE and
22		NYSERDA funding mechanisms require co-funding. For example, NYSERDA
23		programs often include a co-funding amount that is generally between 30 and 50

percent of total project costs. Availability of RD&D funds for co-funding will
enhance the Company's ability to leverage additional funds for the benefit of
customers, including potential federal funds to address New York State issues.

A.

Q. How does the Company's RD&D program contribute to reduced customer costs?

In addition to providing technical evaluation and input to the asset strategy development process, there are opportunities to make specific improvements to projects that have multi-year time frames. An example of this would be the recent collaborative on elevated voltage, which is also a good example of these partnerships and leveraging. New York State utilities are required to perform regular elevated voltage testing to protect the public from unsafe conditions. Prior to the work of the collaborative, the equipment and methodology for utility testing has been proprietary and available through only one vendor. As a result utilities were unable to competitively bid this work. The desire to perform this work effectively and economically led to a collaborative between Niagara Mohawk, Consolidated Edison and EPRI, which has resulted in a new detection technology that is expected to become available in the public domain and is anticipated to significantly reduce future costs for all utilities. These cost reductions will be captured by future rate cases as the extent of the savings is known.

Q. What other ways might the RD&D program provide value to the customer?

1	A.	The RD&D program's investment in technology and innovation is valuable to the
2		ratepayer in several ways. These include potentially reduced energy costs, and
3		accelerated penetration of new technologies that require utility participation in the
4		development, testing and evaluation stages. Some of these technologies that are
5		identified in the proposed RD&D program include:

- Increased system reliability and power quality through the use of smart switches, and VAR support devices.
- Managing intermittent renewable generation, using, for example, energy storage; and,
- Reduced transportation energy costs by encouraging the acceptance of and understanding the impact of plug-in electric vehicles.

Q. Please describe the Company's position on Staff's recommended treatment of the \$150,000 contract rescission payment received during the test year.

The Company disagrees with Staff's proposed treatment. First, Staff incorrectly characterizes the rescission payment as a royalty payment. As indicated in the Company's response to IR DPS-347 (RAV-122), the subject payment was for the rescission of a contract, not the liquidation of future royalties. Therefore, there is no basis for suggesting that the rescission amount should be amortized over a period of years as Staff proposes. Further, Staff's proposed treatment of this issue item as an adjustment to rate base (as shown on Exhibit __ (SAP-1), Schedule 6, page 4) appears to be an error. Staff's adjustment and proposed accounting treatment for this item should be rejected.

1		
2	Q.	What is the Company's recommendation?
3	A.	The Company recommends that the RD&D program be funded at the levels set
4		forth in the May 3 corrections and updates testimony in order to best leverage our
5		investments and help enhance our ability to modernize the energy infrastructure,
6		and that Staff's recommended downward adjustment, and its proposed
7		amortization of the \$150,000 contract rescission payment, be rejected.
8		
9		D. <u>Tower Painting</u>
10	Q.	Do you agree with Staff's method for calculating tower painting costs per
11		tower?
12	A.	No. Staff's method of averaging the per unit cost of three prior years and
13		escalating for inflation it is not applicable in this case.
14		
15	Q.	Please explain.
16	A.	Staff's method would be reasonable provided there were no changes to the tower
17		painting program. As described in our response to Question 2 of IR DPS-356
18		(VVP-18), a new painting procedure has been established to enhance worker
19		safety. Improvements include not allowing work on the upper section of a
20		structure unless the circuit is de-energized for a single circuit structure or at least
21		one circuit is de-energized for a double circuit structure. In addition, painting

electrically unqualified laborers.

22

23

activities on the top part of the structure will require qualified lineman in place of

1		
2	Q.	Does the Company have a contract in place that can be used to provide a
3		firm cost for the program?
4	A.	Despite the Company's determined efforts, we have not yet secured a qualified
5		painting contractor that meets the updated requirements. However, preliminary
6		pricing from a potential vendor indicated the new procedures may increase the
7		cost of the tower painting program to \$2,635 per tower for an 80 foot tall
8		suspension tower which is considered the average size on the Niagara Mohawk
9		system. Therefore, \$952,219 should be added back to the Company's funding
10		levels and the Staff's proposed adjustment reduced accordingly. This is shown in
11		Exhibit (IOP-2R).
12		
13		E. <u>Infra-red and Aerial Patrol</u>
14	Q.	Does the Company accept Staff's adjustment for Activity TO1165 – Perform
15		Aerial patrol – Non Fault?
16	A.	Yes.
17		
18	Q.	Does the Company accept Staff's adjustment for Activity TO1166 – Perform
19		Aerial patrol – Post Fault?
20	A.	The Company has implemented this program in FY11 to provide more aggressive
21		post fault patrolling in order to identify deficiencies that cannot be spotted from
22		the ground. Items identified as having a high potential for causing a future fault
23		are corrected thereby improving the availability of the transmission system.

1		Based on actual spending through the first four months of FY11 the Company
2		anticipates an annual cost of approximately \$321,000. Therefore, \$221,000 should
3		be added back to the Company's funding levels and the Staff's proposed
4		adjustment reduced accordingly. This is shown in Exhibit (IOP-2R).
5		
6		F. <u>Transmission Footer Inspections</u>
7	Q.	Does the Company accept Staff's adjustment for transmission footer
8		inspections and repairs?
9	A.	Yes.
10		
11		G. <u>Incremental Distribution I&M Program</u>
12	Q.	Does the Company agree with Staff's recommendation not to implement fast
13		feeder patrols and infrared inspections of pad mounted transformers and
14		hand holes under the Distribution Inspection program?
15	A.	Yes.
16		
17	Q.	In addition to complying with Safety Order, why does the Company feel a
18		QA/QC program which audits 25% of the Inspection work identified and
19		25% of the work performed is necessary under the Distribution Inspection
20		program?
21	A.	The Company has forecasted budget levels of \$135.5 million for Inspection and
22		Maintenance of Distribution and sub-Transmission facilities. With this volume of
23		capital, the Company feels that a comprehensive QA/QC program to audit the

1		end-to-end process of the Inspection and Maintenance program is warranted to
2		continually improve data quality, training requirements, and inspection criteria.
3		
4	Q.	What is the current QA/QC process?
5	A.	Current audit of the Inspection and Maintenance program is conducted by an
6		outside contractor to satisfy the requirements of the 2008 Safety Order to use a
7		third party. A small sample size of work identified and completed in the field is
8		audited. A more robust audit program that evaluates the entire Inspection and
9		Maintenance process, from identification of the work through work order
10		closeout, will offer opportunities to improve inspection data collection, streamline
11		work flow, and more efficiently manage resources. The scope of this QA/QC
12		process will include:
13		• Perform QA Inspection on 25% of the locations where Level 2 and Level
14		3 work is identified within 30 days of initial inspections.
15		 Compare data gathered during initial inspections that was
16		identified as Level 2 and Level 3 against QA inspections.
17		• Perform QA Inspection on 25% of inspection-generated, completed work
18		orders.
19		 Compare construction against work order 'design.'
20		• Determine root causes of discrepancies found and report findings to
21		management.
22		• Identify and track actions to completion

In other programs within the Company, both the Company and customers have benefited from a comprehensive QA/QC program in terms of improving overall quality of work and increasing accountability. These improvements have led to improved data accuracy for design which, in turn, reduces labor in the field due to a lower number of field corrections. This leads to more efficient use of resources since field labor accounts for the largest component in manhours within the program. In addition, audit of data collection results alone may result in reductions of identified work, identify training issues, and assist in further enhancement to the equipment inspection codes. In light of the potential efficiencies that may be realized by implementing a full QA/QC program, the Company recommends that Staff's proposed downward adjustment in the distribution inspection program be reduced by \$1.2 million and the appropriate adjustments made to allow the enhanced QA/QC program to be implemented. The program would consist of hiring approximately 12 QA/QC inspectors to implement the program.

IV. Capital Investment Reconciliation Mechanism

- Q. Could you respond to the Staff's recommendations regarding the Company's proposed Capital Investment Reconciliation Mechanism?
- 20 A. The Revenue Requirements Panel sets forth the Company's position on the Staff's recommended changes to the capital investment reconciliation mechanism.

V. Staff Vegetation Management Panel

1		A. <u>Transmission Vegetation Management</u>
2	Q.	Has the Company proposed a \$12.1 million plan for the transmission
3		vegetation management program including requests for incremental
4		funding?
5	A.	Yes, as outlined in the response to IR DPS-22 (DSM-1), the Company has
6		proposed a comprehensive plan that includes right-of-way ("ROW") Integrated
7		Vegetation Management floor maintenance with cycle pruning (Floor Trim),
8		Danger Tree removal, Off-cycle work to address unplanned hazard tree removal,
9		Sub-transmission widening program, treatment of substations, grass mowing and
10		the 115kV ROW widening program.
11		
12	Q.	How many acres does the Company propose to floor trim during the rate
13		years?
14	A.	The Company plans to perform floor trim site maintenance on approximately 628
15		acres per year during the rate plan. This includes: 1) trim, prune, 2) cut, stump
16		treat, chip, and 3) mechanical brush mowing. The average acreage amount is
17		based on actual performance between the 2006 through 2009 as described in the
18		response to Question A of IR DPS-23 (DSM-2).
19		
20	Q.	How did the Company derive an estimate of \$935,000 for the activity of Floor
21		Trim Sites?
22	A.	In summary, an increase in the allocation for trim sites in the years subsequent to
23		the historic test year is needed because our estimated floor trim acres for 2011

1		through 2013 are higher than the historic year, but closely reflect the average
2		number of acres for the years 2006 through 2009.
3		
4	Q.	Can you address Staff's concerns related to when the floor trim site
5		inventories will be completed?
6	A.	As described in the response to Question A of IR DPS-23 (DSM-2) and Question
7		1 of IR DPS-88 (DSM-4), the Company maintains detailed site-by-site inventories
8		for each transmission line right-of-way which are updated within the year prior to
9		scheduled maintenance. These inventories are performed after the previous
10		growing season ends and prior to the treatment of the right-of-way. Since the
11		cycle length for the scheduled lines could be 4-8 years, changes in acres and
12		treatment type are expected. Once the inventories are completed, the specifics of
13		the work will be recorded in the Company's GIS System in early 2011, 2012, and
14		2013. In addition, accurate inventories are necessary when addressing landowner
15		environmental and aesthetic concerns for each right-of-way on a case by case
16		basis to insure that the right-of-way remains in a condition that is reliable,
17		manageable, as well as pleasing to the neighbors and community.
18		
19	Q.	Can the Company address Staff's concern that a list of potential 115kV
20		circuits for widening is not available.
21	A.	The Company has developed a list of 115kV circuits, plus alternates, that will be
22		widened over a three year period and the list is provided in Exhibit(IOP-8R).
23		The 115 kV system has been prioritized and scheduled by right-of-way utilizing

1		recorded outage history, Line Importance Factors, danger tree maintenance
2		cycles, and recommendations by the Division Foresters.
3		
4		This list reflects the lines chosen for work for each fiscal year as well as an
5		alternate list. The widening program for each year will target the lines on the
6		assigned list. Due to changes in priority, field conditions or other circumstances
7		not identified at this time, the list will be updated annually, and each line on the
8		list may not be able to receive the work intended. These lines will be replaced,
9		first by lines from the following years' lists or the alternate list. Lines not
10		identified on the yearly schedule may also be inserted if it becomes evident that
11		work should proceed. The proposed work lists will be updated annually and be
12		provided in the Company's annual vegetation management report to Staff.
13		Statistics (miles, costs, etc.) on the work will be maintained and reported in the
14		Company's annual report.
15		
16	Q.	Has the Company performed an inventory of the work that is required for
17		the selected 115kV circuits?
18	A.	No, as with the floor trim program, it is not practical to perform an inventory too
19		far in advance of the actual work that will be performed in 2011, 2012 and 2013.
20		Inventories will be performed during the year prior to scheduled work and after
21		the growing cycle to capture accurate data about the work that needs to be done.
22		
23	Q.	Has the Company completed any 115kV ROW widening projects in the past?

1	A.	Yes, the Company has widened the Ticonderoga-Republic and Gardenville-
2		Homer Hill ROWs. The Ticonderoga-Republic ROW was reviewed by PSC Staff.
3		It was our understanding that Staff generally acknowledged the need for the work
4		and the manner in which it was executed. In fact, our experience with these
5		circuits was used to develop the budget estimate for the program.
6		
7	Q.	What type of contracting arrangement will be used to complete the 115 kV
8		widening work in the field?
9	A.	The work will primarily be completed on an hourly basis based on the field walk
10		down that will occur prior to initiating the work. In addition, to address Staff's
11		concerns, the Company will assemble work packages for lump sum bidding on 17
12		of the 58 miles planned for fiscal year 2012. Work packages for lump sum
13		bidding on approximately 30% of the lines will also be utilized in the remaining
14		two rate years as a means to determine the effectiveness of lump sum bidding as
15		compared to the hourly contracts.
16		
17	Q.	Can you address Staff's concerns related to the Sub Transmission (SubT)
18		ROW Widening program?
19	A.	The Company plans to widen approximately 140 miles of sub-transmission
20		ROW's per year as part of its Transmission Vegetation Management program.
21		Staff was provided a list of sub-transmission ROWs to be widened in Attachment
22		1 of DPS-444 (DSM-6). The previously provided attachment has been updated in
23		Exhibit(IOP-9R) to identify which circuits will be widened in rate years 2011,

1		2012, and 2013, as well as an alternate list. This list will be adjusted annually so
2		as to include an updated list of the highest priority lines based on customers
3		interrupted due to tree related events.
4		
5	Q.	Has the Company performed an inventory of work for each SubT line?
6	A.	The Company will perform a comprehensive review of its property rights prior to
7		performing widening activities on a specific sub-transmission line. If the
8		Company has the appropriate rights to perform widening activities, then the work
9		will be scheduled and performed. If there are a burdensome number of deed or
10		other restrictions that preclude the Company from performing widening activities
11		to desired specifications, another line will be selected from the list and reviewed.
12		
13	Q.	Does the Company agree with the Staff's proposed downward adjustment to
14		the transmission vegetation management program, or the Staff's basis for
15		proposing that adjustment?
16	A.	No. Staff stated that Niagara Mohawk's recent four-year historical spending on
17		transmission vegetation management program averaged \$8 million, and it
18		proposed a downward adjustment of \$3 million from the Company's projected
19		\$12.1 million spending level. However, the Company's actual program
20		expenditures for the period FY08, FY09, and FY10 have been \$9.892 million,
21		\$9.919 million and \$10.830 million, respectively, for an average of \$10.214

level would prevent the Company from performing all of the work it has

million annually for the most recent three year period. Staff's proposed funding

22

23

1 historically performed. Additionally, it would not allow the Company to initiate 2 the incremental programs described previously to maintain reliable service for our 3 customers.

4

5

6

7

8

9

10

11

12

13

14

A.

What is the recommendation of the Company? Q.

The Company recommends that Staff's proposed \$3 million adjustment be rejected in order to maintain the number of acres treated during the floor trim program; maintain the current SubT ROW Widening program; implement the 115kV ROW Widening program to ensure reliability performance does not degrade on the 115kV system; and fund start up costs for a Habitat Conservation Plan ("HCP") in support of the Company's application to the U.S. Fish & Wildlife Service for an Incidental Take Permit ("ITP") under the Endangered Species Act (which is described in our initial testimony but not specifically addressed in Staff's comments).

15

16

B. Distribution Vegetation Management

- 17 Q. Do you agree with Staff's proposed downward adjustment to proposed 18 distribution vegetation management funding?
- 19 A. No. First, Staff's proposed adjustment is based on an error due to the use of 20 incomplete cost data in arriving at its estimated total cost for distribution cycle 21 trimming. Staff also did not acknowledge or provide recovery for cost-effective 22 incremental hazard tree and large limb removal work to be done on circuits 23 scheduled for cycle trimming.

1

2

Q. Please explain the data error you mentioned.

3 A. In its testimony, Staff states it used information provided by the Company in IR 4 DPS-48 (CVB-4) to derive the annual cost for cycle pruning. In response to question 6D of IR DPS-48 (CVB-4), the Company provided a forecasted average 5 6 cost of \$3,303/mile for cycle pruning, and multiplied that per mile amount by the 7 7,200 miles the Company plans to prune annually to arrive at an annual amount of 8 \$23.7 million annually. Staff then compared this amount to the Company's 9 proposed cycle trim funding amount of \$28.9 million to arrive at a downward 10 adjustment of \$5.2 million.

11

12

13

14

15

16

17

18

19

20

A.

Q. What is wrong with that analysis?

The average cost per mile information provided in response to IR DPS-48 (CVB-4) was the bare contractor cost for pruning: it did not include New York State sales tax or the cost of publications. The effect of sales tax adds approximately \$2.0 million to the contractor cost. In addition, there are costs for printing publications and mailings utilized by the Company to notify customers of scheduled vegetation management activities in their neighborhood. This cost is approximately \$300,000 per year. Therefore, the total cycle pruning cost is \$26.0 million per year, as opposed to \$23.7 million.

21

1	Q.	Can you explain the remaining \$2.9 million difference between the \$26.0
2		million cost for pruning with sales tax and publication costs, and the
3		Company's original request of \$28.9 million?
4	A.	The remaining \$2.9 million relates to the Company's proposal to include
5		incremental funds to expand the number of hazard tree and large limb removals
6		on circuits scheduled for pruning. As described in our January 29th testimony on
7		page 225 of 266, the incremental funds will be utilized to identify the highest risk
8		trees for removal based on the same risk analysis protocol as the Enhanced
9		Hazard Tree Mitigation (EHTM) program, also described in testimony.
10		
11	Q.	What is the purpose of addressing hazard tree removals during cycle
12		pruning?
13	A.	As described in our testimony, tree-related interruptions are the most significant
14		driver in the Company's reliability performance. The Company proposes to
15		include this level of funding in order to increase hazard tree removals done on
16		cycle pruning. This work is expected to realize benefits which will help the
17		Company efficiently maintain its level of reliability consistent with recent
18		performance, recognizing that trees continue to be the single largest challenge.
19		These additional removals focus on minimizing the frequency and damaging
20		effect of large tree and limb failures on circuits undergoing cycle pruning.
21		
22	Q.	How is this different from the current EHTM program?

The current EHTM program addresses only those circuits with a specific need for extensive hazard tree removal independent of the cycle pruning program. This proposal takes the EHTM program, which has had success reducing tree related interruptions by up to 25% in the years following hazard removal, and combines it with the cycle pruning program to maintain reliability performance in a cost effective manner. It should be noted that feeders that are addressed under this program coincident with the cycle trimming cycle will address 20% of the system annually - due to the 5 year trim cycle. This increased hazard tree removal during cycle trimming is intended to realize benefits similar to the EHTM program as cost effectively as possible, and therefore the projected \$2.9 million cost for this work should be added back to the Company's funding levels and the Staff's proposed adjustment rejected.

VI.

A.

Staff Reliability Performance Mechanism Panel

- Q. Please summarize the Company's position regarding the Reliability

 Performance Mechanism presented in the testimony of Mr. Christian Bonvin of Staff.
- A. Staff's testimony recommends rejecting the Company's proposed changes to the
 existing electric reliability performance mechanism ("RPM") regarding planned
 outages and the doubled penalty threshold, proposes additional changes to
 integrate the Company's interruption disturbance system ("IDS") reporting into
 the electric RPM, and proposes creating entirely new mechanisms to track the
 accuracy of the Company's capital project estimating and performance on

implementation of generation standard interconnection requirements. The Company disagrees with Staff that doubled penalties are necessary in order to maintain the Company's focus on the delivery of reliable service. However, given the Company's agreement to Staff's proposal for a new 2-tier performance mechanism associated with the transition to IDS, as discussed below, the issue is not relevant. With respect to setting estimating performance criteria, we believe it is premature in light of the on-going efforts to implement management audit recommendations on this very issue; and with respect to interconnection performance criteria, we disagree that the Company's performance warrants the imposition of penalties; and if a performance mechanism is established, it should be done in a different, broader forum.

Α

Q. What is the Company's position on Staff's proposed changes to the electric RPM to integrate the Company's IDS?

National Grid has used the Interruption and Disturbance System (IDS) database to capture, track, and report on the Company's reliability performance in parallel with Niagara Mohawk's legacy System Interruption Reporting (SIR-SQ) system for nearly four years. The SIR-SQ system is a manual, paper-based system that has been used to report reliability performance for over twenty years. Over the past several years, National Grid has worked with Staff to transition from the SIR-SQ system to the IDS application. The Company has continued to compare IDS against SIR-SQ to understand any differences in reliability reporting between the two systems, and this information has been shared with Staff.

1	
1	

2

3

4

5

6

7

In its initial direct testimony, the Company proposed to address the transition to IDS in a separate proceeding. However, the Company is willing to address transition to the IDS system in this proceeding as Staff proposes. It is the Company's position that transition to IDS should be done in a performance neutral manner such that the standards are neither tightened nor relaxed as a result of the transition.

8

9

10

Q. Why do the paper-based SIR-SQ system and the newer IDS application generally produce different results?

11 A. The use of the IDS system produces different results from the SIR-SQ based system because it captures all reported outage calls automatically and utilizes an 12 13 algorithm which is representative of the overall electric system's connectivity to 14 predict, based on the aggregation of all outage calls and the logic contained in the algorithm, the number of customers that are out. The SIR-SQ process relies upon 15 16 field personnel in conjunction with operators in the control center to determine the 17 number of customers affected by a particular outage. Therefore, in order to move 18 from the SIR-SQ-based system to the IDS-based mechanism, it is necessary to 19 modify the performance in order to maintain neutrality performance assessment.

20

21

Q. Are the standards proposed by Staff performance neutral?

22 No. For SAIFI (System Average Interruption Frequency Index), Staff proposes a Α. 23 two-tiered system with negative revenue adjustments of \$3 million and \$6 million

for failure to achieve average SAIFI of 1.10 and 1.15, respectively. However, based on the Company's analysis, we maintain that an average SAIFI of 1.20 is needed for performance neutrality. A twenty-four month comparison of SIR-SQ and IDS between April 1, 2008 and March 31, 2010 shows a 29% difference between the two systems. Applying this 29% differential to the previous SAIFI target of 0.93 results in an adjusted, performance neutral SAIFI target of 1.20. Given that this is a transition period, the Company believes the two-tiered approach is reasonable, and using 1.20 as the average SAIFI target would result in performance tiers at 1.17 and 1.22 instead of the 1.10 and 1.15 proposed by Staff. Accordingly, the respective penalties for failing to meet the performance tiers would be \$3 million (for SAIFI = 1.17) and \$6 million (for SAIFI = 1.22). For CAIDI (Customer Average Interruption Duration Index), Staff proposes a similar two-tiered system, with penalties of \$3 million and \$6 million for failure to meet system-wide CAIDI of 2.05 and 2.15, respectively. Similar to the discussion above with SAIFI, the analysis that was completed identifies that there should be a 1% increase in the CAIDI target to ensure that it is neutral. The SIR CAIDI target was 124.2 minutes or 2.07. An increase of 1% places the CAIDI at 2.09 which is within the upper and lower limits set forth by Staff's proposal and therefore the Company agrees with this proposal.

21

22

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

Q. What other performance mechanisms does Staff propose?

A. Staff proposes adding new performance mechanisms for project estimating and generation interconnection performance with an aggregate penalty exposure of \$7 million. The Company agrees with the elimination of momentary outage performance metrics and in principle with the establishment of performance criteria in the areas of project estimation and generation interconnection.

However, the Company believes Staff's proposal is premature with respect to project estimating, in the wrong forum with respect to interconnection standards, and would significantly increase the Company's financial exposure compared to what is in place today.

A.

Q. Please describe the Company's position regarding measuring project estimating performance.

The Company believes that the measurement of project estimating accuracy is both valuable and beneficial. However, it would be premature at this stage to specify the metrics upon which significant penalties could result. The Company has just completed the configuration of the estimating software package, along with related process steps, and will shortly begin processing new projects in the plan through the new software package. The Company has committed to the application of metrics to measure the accuracy of project estimating by September 30, 2010, as part of its Management Audit Implementation Plan. The metrics will take into account the experience we have gained in the development of the Estimating Center of Excellence (ECoE) and the implementation of the Success Enterprise estimating application. There are several key factors that will need to

be taken into account before committing to one or more metrics, including how to incorporate the impact of influencing variables, such as external delays due to permitting, licensing, third party pole sets, property rights acquisition, delays driven by customer or governmental schedules, and the timing and impact of outsourcing decisions. Other considerations would be treatment of legacy projects, which were estimated using prior methods and tools.

The Company proposes that the final review and decisions for estimating metrics be undertaken after the Company completes development of estimating metrics under the Management Audit Implementation Plan. Subsequently, the Company will commit to working with DPS Staff to incorporate the appropriate metrics in the Quarterly Capex Report submitted to Staff. Accordingly, as experience is gained across a range of estimate amounts and types and estimating improvements are quantified through selected metrics, it may in the future be appropriate to consider a penalty/reward system to maintain a continued estimating focus and improvement. However, until we have experience using the new estimating processes and application, and measure their effectiveness through selected metrics, the adoption of a performance metric with potential financial penalties is premature.

If however, the Commission chooses to impose a penalty mechanism for estimating distribution and sub-transmission specific projects the tolerances for achieving the metric should be consistent with the maturity of the revised process.

If the metrics are simply unattainable the penalties are punitive and do not encourage or foster improvement. As noted above, there have been on-going improvements and changes to the existing process in an effort to provide consistent and accurate project estimates. Notwithstanding the recent and ongoing improvements, the level of accuracy (plus or minus 10%) and the frequency (90% of the time) are simply not attainable given the maturity of the process. The Company would recommend that if a penalty is imposed despite the immaturity of the process that the accuracy be set at 25% and the frequency be set at 70%. Furthermore, final estimated costs should take into account agreed upon and authorized scope changes encountered during field construction. Lastly, the application of this penalty should be applied prospectively rather than retroactively thus ensuring that improvements in the process are being evaluated and include improvements made since the implementation of ECoE. Thus, if the mechanism were to be ordered by the Commission, the mechanism should apply to new specific projects approved after January 1, 2011.

A.

Q. What does Staff propose with respect to generator interconnection

performance metrics?

Staff proposes that two new performance metrics be applied to Niagara Mohawk relating to the standardized interconnection requirements and application process adopted by the Commission for distributed generators 2 MW or less that are connected to a utility's distribution system ("SIR-DG"). First, Staff proposes that Niagara Mohawk be held to a target of evaluating and responding to 95% of all

applications under the SIR-DG within 10 business days for systems 25 kW or less (per Section IB of the SIR-DG) and 15 business days for those systems above 25 kW (per Section IC of the SIR-DG), with a negative revenue adjustment of \$2 million if the Company fails to meet the target. Second, Staff proposes that the Company meet a target of installing 90% of net meters for systems 25 kW or less within ten business days of receiving a customer request (per Section IB of the SIR-DG), with a negative revenue adjustment of \$2 million if the Company fails to meet the target.

Q. What reasons does Staff provide for seeking to implement these performance

metrics?

A. Staff maintains that these performance metrics are appropriate because Niagara Mohawk has not complied with the rules set forth under the SIR-DG.

Specifically, Staff states: 1) that Niagara Mohawk has not revised its bulletin advising customers regarding the distributed generation interconnection process to match the most recent version of the SIR-DG; 2) that Staff has received "frequent" complaints from customers and contractors regarding their dealings with the Company with respect to the SIR-DG process, particularly with respect to returning phone calls and following certain steps in the SIR-DG requirements; and 3) that the Company has not been installing net meters for systems 25 kW or

less within the 10 day timeframe specified in the SIR-DG.

1 Q. How do you respond to Staff's claim that Niagara Mohawk has not provided 2 customers with accurate and up-to-date information regarding the SIR-DG 3 process? 4 A. We disagree. Staff states that it obtained a copy of the Company's bulletin (ESB-5 756) from its web site which still lists the requirements in place prior to February 2009, and furthermore, that the link provided by the Company in its response to 6 7 IR DPS-588 (WEL-23) that requested a copy of its SIR-DG bulletin was simply a 8 link to the same non-updated document. Staff, however, overlooks the fact that in 9 addition to the base Electric System Bulletins documents, the Company also 10 maintains errata and revisions documents for all of its ESBs, including ESB-756. 11 In its response to DPS-588 (WEL-23), the Company provided a link to the relevant errata and revisions document for ESB-756. Page 9 of that document 12 13 contains a notification regarding the updated SIR-DG and a link to the updated 14 SIR-DG on the DPS website. Moreover, following the link for "Distributed Generation/Interconnection of Generators" on Niagara Mohawk's website leads to 15 16 a page which refers specifically to the updated SIR-DG process, and contains a 17 link to the February 11, 2010 version of the SIR-DG, which was the current 18 version as of Company's response to DPS-588 (WEL-23). 19 Further, the PSC updated the SIR-DG information on their website on or about 20 July 15, 2010. The Company promptly updated its link to the PSC website. 21 Finally, the Company is not aware of any customer complaints relating to its 22 provision of information regarding the SIR-DG process. Thus, it appears Staff's

Staff's testimony refers to the revisions to the SIR-DG being made in February 2008. We assume that Staff actually meant to reference February 2009, which is the date that the set of revisions referred to by Staff were made to the SIR-DG.

belief that Niagara Mohawk is providing incorrect information to its customers
regarding the SIR-DG process is based on an incomplete understanding of the
facts, and is therefore wrong.

Q. How do you respond to Staff's statement that DPS has received "frequent" complaints from customers and contractors regarding their dealings with the Company with respect to the SIR-DG process?

With respect to complaints regarding not returning phone calls relating to distributed generation interconnections, it is difficult to address this statement fully, given that Staff has provided no specific information regarding such complaints. Regardless, Niagara Mohawk is committed to providing excellent service to all of its customers, and therefore takes such issues very seriously. Niagara Mohawk welcomes the opportunity to work with Staff and customers to resolve any such concerns. Indeed, the Company has promptly resolved any specific complaints that Staff had forwarded from customers. The Company also continues to update is interconnection inventory database on a regular basis as requested by Staff. However, it seems that Staff's primary concern revolves around following the process as set forth in the SIR-DG, given that Staff's proposed performance metrics would be based on the Company's compliance with that process, rather than on some level of customer complaints.

1	Q.	How do you respond to Staff's statement that Niagara Mohawk has not been
2		installing net meters for systems 25 kW or less within the 10 business day
3		timeframe specified in the SIR-DG.
4	A.	Although Staff is correct that Niagara Mohawk has not always met the 10 day
5		timeframe for installing net metering, it is important to place this information in
6		the appropriate context. First, over the past two years, Niagara Mohawk has faced
7		significant logistical and administrative challenges in meeting a greatly increased
8		level of demand for net metering installations relating to distributed generation
9		interconnections. This increased demand is driven largely by recent New York
10		legislation promoting distribution-level interconnections, particularly for
11		renewable resources such as solar photovoltaic systems. The original February
12		2000 SIR-DG addressed interconnections up to 300 kW. In 2004, legislation
13		amended the upper limit of such interconnections to 2 MW. In 2009, peak
14		demand limits on residential solar and wind service, farm service, and non-
15		residential service customers were increased. In 2010, micro-combined heat and
16		power ("CHP") and fuel cell electric generating systems were designated as
17		generation eligible for net metering and, most significant to the increase in
18		customer applications, removed the peak demand limit on non-residential solar
19		and wind generating equipment.
20		
21		As a direct result of these significant legislative changes, the Company received
22		over 30% more applications in 2008 (184) as compared to 2007 (140). The
23		acceleration of applications has continued with over 50% more applications

received in 2009 (274) versus 2008 (184). Further, 2010 is proving to be another record year, with the Company already having received 242 applications through June. As Staff points out, more customers have requested interconnections and net metering arrangements under the SIR-DG in Niagara Mohawk's service territory than any other utility in the state. Given the increasingly high level of demand, and the revised SIR-DG requirements which provide less time for utilities to turn around metering requests, it is not surprising that Niagara Mohawk has faced the greatest challenge in meeting the demand for such services.

However, the Company has significantly improved its performance in meeting the 10 business day installation requirement by deploying additional trained personnel and improving its internal processes. In 2010 to date, only 10% of net meters were installed after the deadline, as compared to 34% in 2009 to 48% in 2008 and. Thus, during the last six months, the Company has, on average, been meeting Staff's proposed 90% target for net metering installations. This performance improvement reflects the challenge that the Company initially faced in implementing the SIR-DG requirements combined with the greatly increased level of demand for distributed generation interconnections, but shows that the Company is moving towards successfully meeting that challenge.

Q. Has Niagara Mohawk also improved its performance with respect to the 10 and 15 business day requirements for processing applications under the SIR-DG?

1 A. Yes. As with net metering installations, the internal process improvements
2 implemented by Niagara Mohawk over the past several years have also led to
3 substantially increased performance in processing applications received under the
4 SIR-DG standards. This has culminated in the Company achieving the 95%
5 target proposed by Staff for the month of July 2010, despite the ever-increasing
6 number of applications that the Company is receiving.

A.

Q. What is your recommendation regarding Staff's proposed performance metrics for distributed generation interconnections?

Given the information provided above, and in particular, the significant improvement that the Company shown with respect to its performance in processing distributed generation interconnection requests and installing net meters, the performance metrics proposed by Staff are not warranted. Moreover, putting aside the substantive merits of this issue, this proceeding is not the appropriate forum to consider such metrics. If Staff continues to believe that performance metrics are necessary for distributed generation interconnections, then the fairest and most efficient way to address Staff's concerns would be through a generic statewide process, rather than one focused on Niagara Mohawk specifically. Such a process would be consistent with the manner in which the SIR-DG requirements were adopted in the first place, and would have the advantage of encouraging the participation of all parties interested in this issue, which would presumably include utilities, customers contractors and system

1		developers throughout the state, many of which are not parties to this particular
2		rate proceeding.
3		
4	VII.	Storm Costs/Storm Fund
5	Q.	Does the Company agree with the Staff Accounting Panel's
6		recommendations and adjustments to the Company's proposal for funding
7		for its storm response expenses?
8	A.	No. The Company disagrees with Staff's characterization of the Company's
9		efforts in responding to storms. We also disagree with the Staff's analysis of the
10		Company's storm response costs, and Staff's recommended adjustments to the
11		Company's proposed storm funding levels. While we address much of the basis
12		for our disagreement, the Revenue Requirements Panel provides a detailed
13		analysis of concerns with the derivation of Staff's proposed adjustment. The
14		Company believes the proposal that was included in the filed case is correct in
15		regards to treatment of storm costs.
16		
17	Q.	Why is the means and amount of storm response funding so critical to the
18		Company?
19	A.	It is very important not to lose sight of the purpose of the Company's storm
20		funding proposal in the first place. Customers rely on Niagara Mohawk to restore
21		their electric service as promptly as possible when it has been interrupted during a
22		storm. The Company has no control over the timing, location or severity of storm

events. The rate allowance and recovery mechanisms proposed in this case are intended to allow for recovery of the Company's costs to restore and maintain essential electric service for customers in response to storm events, and are based on the Company's actual historic costs.

- Q. What is the purpose of and basis for the Company's storm response funding proposal?
- A. Quite simply, the purpose of the Company's storm funding proposal is to provide
 for recovery of costs incurred in responding to storm events in order to restore
 service to customers and return the system to its pre-storm condition and
 configuration. The basis for the proposed funding level is the Company's actual
 historic storm-related costs.

Q. Has the Staff of the Department of Public Service advised the Company that it should scale back its storm response efforts?

A. We are not aware of Staff advocating that the Company's storm response activities should be scaled back; however, the positions and recommendations set forth in the Staff Accounting Panel's testimony, if adopted, would result in the Company being unable to recover its actual costs to restore service in response to storm events. We believe Staff's proposals are not well-founded, and contain three fundamental errors which make their conclusions incorrect and should therefore be rejected. The first two errors pertain to the fact that Staff's proposed \$18.928 million rate year reduction effectively negates any recovery of

1		incremental non-deferrable major storm costs and incremental minor storm costs.
2		The third error relates to Staff's calculation of its proposed \$9.219 million
3		incremental major storm rate year allowance. Detailed analysis of these errors is
4		included in the testimony of the Revenue Requirements Panel.
5		
6	Q.	Could you please address some of the Staff's statements regarding the
7		Company's operational response to storm events?
8	A.	Yes. Staff's testimony on the storm response funding issue is focused primarily
9		on accounting and financial issues, and does not delve too deeply into operational
10		issues. However, in several instances where Staff's testimony does address
11		operational considerations, we do not find them to be accurate in all cases. For
12		instance, the Company might incur costs for storm response activities up to six
13		months after a major storm. In some cases, vegetation management activities
14		and/or repairs to storm damaged equipment can take place months after customers
15		have been restored following a major storm. As described in the response to IR
16		DPS-41 (RAV-27), question I, "major storm related" costs would not generally be
17		incurred more than 3-4 months from the end of the event restoration. However, in
18		some extraordinary cases, costs can be incurred even later.
19		
20		After a devastating major storm the Company typically conducts post-storm
21		surveys to identify and subsequently repair damage to the system caused by the
22		storm event. Such damage may not have been necessary to repair in order to
23		immediately restore service, but still was caused by the storm. For example, the

December 2008 ice storm required follow up patrols and maintenance from

January through March due to the extent of the severe damage incurred during the
event. Experience in major events has provided insight into complete restoration
requirements, which may require surveys, tree trimming, and
construction/maintenance of facilities. It is also important to note that there is a
difference between when costs are incurred and invoicing, which could differ
greatly. For example, invoices for mutual assistance, reconciling and verifying
invoices, etc., may be received long after actual incurrence of the costs reflected
in the invoices. In any event, all deferred costs would still be subject to audit, and
Commission approval.

- Q. Why would such costs incurred months after a major storm be storm-related as opposed to normal maintenance work?
- 14 A. When the Company restores customers' service during a major storm, it often
 15 utilizes temporary repairs to expedite the restoration process. The Company will
 16 then follow up with permanent repairs to restore the integrity of the system.
 17 Although this work is not part of the effort to immediately restore service during
 18 the storm event, the repairs are a direct result of the storm event, and are not part
 19 of routine maintenance.

Q. Are these later-incurred storm repair costs accomplished at a lower cost than would otherwise be the case?

1	A.	Yes. When the Company is able to make non-emergency storm repairs to restore
2		the system to its pre-storm integrity, it allows the work to be completed in a more
3		efficient manner. In these cases, the permanent repairs may be completed after
4		initial storm restoration, and can be done during normal work hours, with reduced
5		overtime, thus lowering the overall costs as compared to completing the work
6		during or immediately following the actual major storm.
7		
8	Q.	Does the Company utilize internal resources or its contracted work force to
9		accomplish the permanent repairs?

A. In the past, the Company has utilized both internal and contracted work force to accomplish permanent repairs. Crews are assigned based on the workload at the time as well as customer and other work plan priorities.

Q.

Do you agree with Staff's assertion that the Company would utilize contractors ahead of Company crews because the cost of contractors can be fully deferred during a major storm as opposed to the base labor of internal crews?

A. No, we strongly disagree. When an operating division is impacted by a storm, the Company's first priority is public safety and electric service restoration to customers. The Company will first utilize all available and qualified internal resources, as well contractors that are working locally, to begin the restoration process. Should an operating division require resources beyond this level, the System Storm Room will coordinate the efforts to provide a supplemental work

1		force to assist with the storm. The System Storm Room's priority in these
2		situations is to obtain the necessary or requested staffing as quickly as possible to
3		meet customer expectations.
4		
5		The first resource that is evaluated by the System Storm Room is available
6		internal Company crews from other divisions. The next resource that is evaluated
7		are available contractors who are working for the Company performing planned
8		construction and maintenance work in other divisions. Should additional
9		resources be necessary beyond these levels, the Company will then reach out to
10		other utilities through the mutual aid process and contractors not on Company
11		property when the storm originally occurred.
12		
13		Contrary to the Staff's suggestion, the deferral mechanism does not enter in the
14		staffing decisions made by the Company during a major storm. In fact, the
15		preferred labor resource during any restoration effort are internal Company crews
16		due to their inherent knowledge of Company standards, safety practices, clearance
17		and control procedures, electric operating procedures and electric emergency
18		procedures.
19		
20	Q.	What has the general response been to the Company's storm restoration
21		efforts?
22	A.	The Company has received positive feedback from government officials for its
23		storm response in recent years. In fact, the Company was awarded the EEI

Emergency Response Award for its response to the December 2008 ice storm. In addition, the Company has integrated comments received from DPS Staff during post storm critiques into its Electric Emergency Procedures to enhance the overall process from the customer's perspective.

A.

Q. How is the Company's storm funding proposal in this case structured?

The Company's proposal has two elements: (1) base rate recovery for storm costs that are not eligible for deferral; and (2) a reconciling storm fund for deferrable major storm costs. The first element provides for base rate recovery of costs for minor storms (not-deferrable) and major storms (not-deferrable), and is based on actual historic test year costs. The second element (i.e., the reconciling storm fund) is based on (and slightly below) the annual average of deferred major storm costs incurred by the Company over approximately the past five years. The rebuttal testimony of the Revenue Requirements Panel addresses several errors the Company found in examining the Staff's recommended adjustments to the Company's base rate allowance for storm costs. As described in the Revenue Requirements Panel's testimony, correcting the calculation errors demonstrates that Staff's recommended downward adjustment of \$18.928 million to the storm base funding amount should be eliminated entirely.

In addition, while our panel addresses some of the reasons for creating a reconciling fund to cover the costs of responding to extraordinary storm events,

1		the Revenue Requirements Panel discusses additional rationale justifying
2		establishment of such a fund.
3		
4	Q.	Does the Company agree with Staff's proposal to eliminate the major storm
5		deferral mechanism?
6	A.	No. Major storms represent a significant source of costs for the Company. They
7		are not predictable or controllable. Furthermore, the broad geographic range of
8		the Company's system makes it particularly susceptible to impacts from severe
9		weather events among utilities in the State. The major storm deferral mechanism
10		provides a means for the Company to recover legitimate incremental costs it
11		incurs in restoring service to customers in response to major storm events.
12		
13		As Staff's testimony acknowledges, the existing deferral mechanism contains
14		substantial annual and per-event deductible mechanisms to encourage the
15		Company to aggressively manage its storm costs where it can control them.
16		Eliminating the deferral mechanism would result in a considerable and
17		unwarranted shift in the risks faced by the Company. Increasing the risk of non-
18		recovery for costs the Company incurs to restore service to customers following a
19		significant weather event is unreasonable and should be rejected.
•		
20		

1	Q.	is the Company asking to change the criteria of the allowable costs that are
2		recoverable by the proposed Storm Fund as compared to the deferral
3		mechanism that is in place presently?
4	A.	No. The Company purposely used the same criteria for allowable costs recovered
5		under the proposed Storm Fund that are presently in place under the deferral
6		mechanism. The Company is not proposing to recover more funding than it does
7		presently, but rather change the timing of that recovery through the proposed
8		Storm Fund.
9		
9		
10	Q.	Please comment on Staff's proposal that a "major storm" for deferral
11		purposes be defined as an individual event with storm costs in excess of \$20
12		million?
13	A.	The Revenue Requirements Panel addresses this issue in greater detail. However,
14		from an operational risk perspective, such a proposal creates substantially
15		increased risk to the Company and should be rejected. Under that proposal, if the
16		Company incurred expenses in responding to major storms that exceeded the
17		Staff's proposed based rate allowance of \$9.219 million, it would be unable to
18		petition for deferral of any of those extraordinary costs except costs from a storm
19		with \$20 million or more in damage. Thus, if the Company incurred
20		extraordinary storm costs of \$60 million due to two \$17 million storms, four \$5
21		million storms and three \$2 million storms, it would be precluded from seeking
22		deferral treatment for more than \$50 million in legitimate costs incurred to restore

customers to service. Moreover, Staff's proposal would impose restrictions on the Company's ability to seek deferral treatment which would be significantly more stringent than exist under the Commission's general guidelines for deferral treatment. Therefore, the proposal should be rejected.

A.

Q. What is the Company's position regarding the Staff's recommendation to eliminate the proposed major storm fund of \$30 million from the Company's rate proposal?

The Company believes that establishment of a major storm fund is reasonable and appropriate and Staff's recommendation should be rejected. Whether you believe in climate change, or are a climate change skeptic, it is clear that media reports linking significant weather events to changing climate have increased. It is also clear that the frequency of significant weather events affecting the Company's service territory has also increased when compared to prior periods. The storm fund amount was calculated using actual major storm costs incurred over approximately the last five years. Given the Company's expansive service territory, which stretches from west of Buffalo to east of Albany and north to the Canadian border, its susceptibility to impacts from future severe weather events, which are beyond its ability to predict or control, is considerable. The fund would also be reconcilable. Therefore, to the extent actual costs are below the funding level, customers would be credited accordingly. Establishing a storm fund that would provide the Company with current recovery of the incremental costs associated with a major storm is reasonable and it should be approved.

1		
2	VIII.	Site Investigation and Remediation
3	Q.	Please respond to the Staff's proposed adjustments related to the Company's
4		Site Investigation and Remediation ("SIR") program funding.
5	A.	Staff proposed two adjustments to the Company's SIR program: (1) an
6		adjustment to remove acquisition costs for two properties (Excelsior Avenue in
7		Saratoga Springs, and Woodrow Avenue in Rome) that the Company acquired in
8		order to perform SIR clean-up actions; and (2) an adjustment to remove the
9		estimated cost of remediating those properties. However, these costs are
10		appropriate for recovery through the SIR deferral, and Staff's proposed
11		adjustments should not be made.
12		
13	Q.	Why would the Company need to acquire properties to effectuate its clean-
14		up efforts under the SIR program?
15	A.	The Company described the need to acquire non-utility properties in order to
16		undertake its obligations under the SIR program in its response to IR DPS-130
17		(AAE-14). There, the Company explained:
18		Pursuant to environmental laws and Orders on Consent
19		with the NYS DEC and US EPA, Niagara Mohawk is
20		required to address contamination associated with former
21		utility operations, regardless of where the contamination is
22		currently located. For example, former MGP plants
23		operated by Niagara Mohawk and its predecessors operated

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

in a period spanning the 1840's to 1960's. The formerly owned properties were either sold after the plants were decommissioned or were converted to other utility use, such as gas regulator stations, operations centers, etc. Contamination from the plants may have migrated onto adjacent properties or water bodies; were transported to remote locations; and/or were deposited on other properties, or water bodies. Therefore, Niagara Mohawk is required to address contamination from the former MGP operations located on property owned by Niagara Mohawk (utility and non-utility property), as well as property not owned by Niagara Mohawk. During the investigation of a property that is not owned by Niagara Mohawk, the property is initially evaluated (following soil and/or water sampling results) to determine if the current use can be maintained. The NYS DEC has generic concentration thresholds that are protective of industrial, commercial, restricted residential, and unrestricted residential use. If the sampling indicates that concentrations in excess of unrestricted use are attributable to former MGP operations, the future (or current) property use will need to be restricted. Property owners are often

either unwilling to place deed restrictions on their property (as required by the NYS DEC in the event that impacted material will remain following remediation), or unable to, considering the current property use (i.e., existing residence). Since the Company has no legal power to enforce a deed restriction on an unwilling property owner, the Company must remediate the site to unrestricted use levels. In those situations, a purchase analysis is conducted to determine if it is cost effective to purchase the property from the owner, and remediate the site to a lower cleanup level (such as commercial or industrial), or to compensate the property owner (typically the property value) to maintain a deed restriction on the land.

Q. What adjustment does the Staff propose related to the Saratoga Springs and Rome properties?

A. The testimony of the Staff Accounting Panel provides that in response to IR DPS-130 (AAE-14), the Company provided some analysis to show that for eight of ten non-utility property purchases, the "reduction in remediation expenses associated with the purchase exceeded the cost of the purchase and ongoing remediation of the property." Staff Accounting Panel, p. 70, Il. 5-12. However, Staff noted that "for the Saratoga and Rome properties, no analysis was provided." Id., p. 70, Il. 12-13. Staff thus proposes downward adjustments of \$1.003 million for the

1		purchase of the Saratoga Springs property, \$0.190 million for the purchase of the
2		Rome property, and \$0.119 million for the estimated costs to clean up these
3		properties.
4		
5	Q.	Please explain the Company's basis for acquiring the Saratoga Springs
6		property.
7	A.	As summarized in the response to IR DPS-130 (AAE-14), the Saratoga Springs
8		property was acquired in order to reduce the overall costs of environmental
9		remediation associated with a former manufactured gas plant ("MGP") site in the
10		area. Contaminants from the former MGP site had migrated onto an adjacent
11		parcel, and Niagara Mohawk was obligated to remediate that parcel pursuant to a
12		1995 U.S. EPA Record of Decision. By acquiring the property, Niagara Mohawk
13		was able to remediate the property to less stringent commercial clean-up
14		standards, rather the more stringent residential standards, thereby reducing the net
15		remediation costs by approximately \$1 million from what they otherwise would
16		have been had it not owned the property.
17		
18	Q.	Does the Company have an assessment of the benefits of acquiring the
19		Saratoga Springs property?
20	A.	Yes. Attached as Exhibit (IOP-10R) is a December 17, 2002 memorandum
21		from William R. Jones to Alan J. Rabinowitz describing the basis for the
22		acquisition. That memorandum details the specifics and justification for the

1		purchase, and explains the basis for the Company's determination that the
2		acquisition would reduce SIR deferral costs by \$1 million.
3		
4	Q.	Why didn't the Company include a copy of the December 17, 2002
5		memorandum with the response to IR DPS-130 (AAE-14)?
6	A.	Because many of the older files related to prior purchase of MGP properties are
7		archived off-site, the Company was unable to locate and retrieve the
8		memorandum in time to include with its initial response to DPS-130 (AAE-14).
9		Nevertheless, the memorandum does clearly demonstrate the reasonableness of
10		the purchase, and the savings that accrued as a result of the Company's actions.
11		Although we acknowledge that providing the documentation sooner would have
12		been preferable, it is clear that a cost/benefit analysis prepared around the time of
13		the purchase does exist which clearly demonstrates that the Company's purchase
14		action produced positive customer benefits. Under such circumstances, the
15		Staff's proposed \$1.003 million adjustment should be reversed.
16		
17	Q.	Please explain the Company's position regarding the Rome property.
18	A.	The Woodrow Avenue property in Rome was part of former MGP operations in
19		that area. Niagara Mohawk was obligated under the Order on Consent with the
20		NYS DEC to clean up the contamination from the former MGP operations. The
21		owner of the Rome property was unwilling to grant the Company access to the
22		property to complete the remediation. Attempting to remediate contamination
23		from a property without being allowed access to that property is extremely

difficult, if not impossible, and is certainly not the most cost-effective way to remedy environmental contamination. Because the Company was under an obligation to remediate the contamination (including the contamination on the Woodrow Avenue property), and because the then-owner of the property would not grant access to the Company in order to perform the clean-up, the Company acquired the property in order to obtain access and complete the required remediation in a cost-effective manner. Because the \$0.190 million purchase price for the Rome property was a necessary expenditure to enable Niagara Mohawk to undertake required clean-up efforts, Staff's proposed downward adjustment should be rejected.

A.

Q. Did the Company provide a cost-benefit assessment for the acquisition of the Rome property?

As we mentioned previously, retrieval from off-site storage of historical documentation associated with many of the Company's legacy SIR sites is challenging. The Company was not able to locate a specific cost-benefit assessment for the Rome property. However, in its response to IR DPS 130 (AAE-14) the Company did provide a copy of a September 23, 1998 letter describing Niagara Mohawk's plans for remediation on the property. In the next to last paragraph in the letter, Niagara Mohawk's Director of Environmental Affairs noted that the property owner had expressed an interest in purchase of the property by Niagara Mohawk, and stated that Niagara Mohawk was "willing to consider it [purchasing the property] on the basis of achieving fair and reasonable

A.

Q. Could you please address the Staff's proposed adjustment to disallow the estimated costs to clean-up the Saratoga Springs and Rome properties you just discussed?

Yes. As we described, the Company's purchase of the Saratoga Springs and Rome properties produced benefits for customers (in the form of overall lower SIR deferrals) which outweighed the purchase prices of those properties. However, irrespective of whether the Company owned or did not own those properties, the relevant U.S. EPA and NYSDEC obligations required Niagara Mohawk to clean up those sites. In other words, the Company was under a regulatory requirement to remediate those properties regardless of their ownership. Therefore, it is irrelevant whether the Company purchased the two sites or not with respect to the clean-up obligations for those sites, and Staff's proposed adjustment to disallow \$0.119 million of estimated clean-up costs for the Saratoga Spring and Rome properties should be rejected.

1	

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

Q.

A.

Does the Company agree with Staff's recommendation that future actual SIR costs in excess of the base rate allowance be shared 80/20 between customers and the Company? No. As an initial matter, such a proposal runs counter to the sound public policy objective of promoting cooperation between the Company and environmental agencies in the clean up of SIR sites. Imposing a risk of cost recovery on the Company would create a disincentive to the Company implementing clean up in the optimum manner as determined by NYS DEC and US EPA if the cost would exceed the amount allowed in rates. Further, it should be recognized that the Company's SIR obligations arise from the Company's legacy business operations. They do not pertain to the Company's current business of delivering electric and gas service. Imposing performance measures on a portion of the Company's activities that do not relate to its core business does not seem appropriate. These reasons alone would be sufficient to reject such a proposal. The 80/20 sharing proposal should be discarded for other reasons as well. As we discussed in our initial direct testimony, the proposed SIR base rate allowance is based on the Company's projected actual spending to investigate and remediate contaminated sites. The timing to perform that work—and hence the associated spending profile—is dictated by a schedule controlled by the NYS DEC. Exhibit (IOP-12) presented with our direct testimony is the schedule of site

remediation activities included in the NYS DEC Order on Consent. If work

progresses in accordance with that schedule, spending will be substantially greater
than the level proposed in rates. The projected annual spend provided in rates is
an estimate of the average forecasted spend over the next three years. The
average spend estimate is less than what would result under the schedule in
Exhibit (IOP-12) because the Company's experience has been that project
delays can extend the schedule, thereby reducing annual spending from what
would be the case if the schedule were strictly implemented by the environmental
agencies. Delays are typically the result of timing of regulatory approvals (NYS
DEC and US EPA); timing of permits from local municipalities and the Army
Corps of Engineers, where required; discovery of additional subsurface
contamination; and property access issues. Thus, the Company's ability to
manage the timing of its spending is extremely limited, and is largely in the hands
of the State environmental regulatory agency. Inasmuch as the Company does not
control the schedule of work which drives the spending, it would be inappropriate
to impose increased risk on the Company tied to how it performs against the rate
allowance. Under Staff's proposal, to the extent the timing of expenditures cause
the Company to exceed the rate allowance in one year, the Company would be at
risk for 20 percent of the difference; however, if the schedule resulted in an under
spend in a year, the Company would receive zero percent of the difference. Such
an unbalanced mechanism is unfair. The SIR provision is fully reconciling and
should remain so, and Staff's proposed asymmetric sharing mechanism should be
rejected.

1	IX.	Pace Energy and Climate Center and Natural Resources Defense Council
2	Q.	How does the Company respond to the comments and recommendations of
3		the Pace Energy and Climate Center and Natural Resources Defense Council
4		("Pace/NRDC") regarding the Company's system planning processes?
5	A.	Pace/NRDC's characterization of the Company's efforts to incorporate potential
6		"Non-Wires Alternatives" ignores the obligation of the Company to provide safe,
7		reliable service versus the obligations of customers, the efforts the Company has
8		undertaken so far, the difficulty of implementing Non-Wires Alternatives (NWA)
9		effectively as they continue to evolve, and the need to ascertain the ability of
10		customers to provide demand-side options that maintain safe, reliable service on
11		an ongoing basis.
12		
13	Q.	Please describe the different obligations of the Company and customers and
14		its significance for evaluation and use of NWA.
15	A.	The Company has an obligation to provide safe, reliable and reasonably priced
16		service to all of its customers. Customers who may participate in any NWA
17		project do not have this obligation. The objective of the NWA effort is to develop
18		processes and tools that provide enough customer-side resources to allow reliable
19		deferral of necessary investment while recognizing the differing obligations of
20		Company and customers.
21		
22	Q.	Please describe how the Company is developing its capability to assess
23		

The Company has dedicated significant resources to investigating how NWA
might be effectively incorporated into the system in a way that allows the
Company to continue to provide safe and reliable service. About 18 months ago,
the NWA Team was established to develop procedures for evaluating targeted
demand-side measures as an alternative to transmission or distribution
investments. The team was formed partially in response to regulatory and
stakeholder interest in this issue, including the Commission's August 15, 2008
order (Case 06-M-0878) directing the Company to "investigate, consider, and
evaluate all reasonable options for alternatives to T&D investment, including
distributed generation and energy efficiency." The formation of the team also
reflected the Company's abiding commitment to providing safe, reliable and
reasonably priced service to all of its customers through use of the entire spectrum
of energy resources. The Team members are the personnel actively involved in
the planning for new investment to remedy load or reliability issues, along with
members of Distributed Resources, Energy Efficiency, Regulation and Siting.
The Team has focused on two efforts: revisions to planning procedures to allow
early consideration of NWA for identified needs, and development of an interim,
informal mechanism for this evaluation to be used immediately. We describe
some of the interim assessment of NWA for particular projects further below.
Through this initial assessment work, members of the NWA Team have
developed a better understanding of the data, process, staffing requirements, and
tools needed to formally implement alternative assessments across the Company.

Based on this initial assessment work, the NWA Team is currently developing "Guidelines for Analysis and Implementation of Non-Wires Alternatives to Transmission and Distribution Investments." These guidelines will be informed by the preliminary assessment work undertaken over the last eighteen months, the pilot in Everett, Massachusetts mentioned in the Pace/NRDC testimony, earlier efforts to utilize NWA in pilots in the New England service area and Niagara Mohawk's experience in an earlier pilot to elicit demand-side alternatives in a Request-for Proposal process. It is also important to recognize that the evaluation of NWA is in its infancy for the Company, and the industry as a whole, which means that we have a lot to learn to optimally utilize NWA. Thus, we expect these guidelines to evolve as the Company's knowledge and capabilities improve with time and experience.

Α

Q. What processes has the Company established to evaluate NWA?

As discussed in its response to IR JVN-4, the Company is developing for implementation a process whereby planning engineers request evaluation by the Distributed Resources group of the potential energy efficiency, distributed generation, and demand response alternatives to potential capital investments. The transmission or distribution planning engineers would provide information on the size and timing of the potential resource need, the locations where load reduction would be required, and the number of hours of load reduction per year that would be needed to allow the Company to provide reliable service to its customers without additional capital investments beyond what would normally be

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

required under traditional methods. This information would allow the Distributed Resources group to assess the types of resources that might be deployed to address the resource need, and the likelihood that such resources would be available in sufficient quantity and at reasonable cost to maintain acceptable system reliability. The NWA assessment would be performed in parallel with development of alternatives for major capital projects with a five-to-ten year planning horizon. After assessing the types of NWA, the Distribution Resources group would determine whether any NWA are available and would notify the transmission or distribution planners for their planning analysis. This would be consistent with the planning horizon that would be needed to effectively plan, procure, and implement a NWA to a capital project. Evaluation of NWA within planning studies would provide the opportunity for the Company to develop the best overall cost-effective opportunities for NWA to serve the need with enough time for marketing and enlisting customer resources to meet the need without risk to reliability. These are the aspirations for the assessment of NWA that the industry promotes. However, the Company and the industry require more experience with NWA and, with experience, these analyses will become significantly more sophisticated and successful. As discussed above, the NWA Team has put in place an informal, interim process for assessing NWA to capital projects, and has used this analysis for certain

transmission planning studies. The Company and its affiliates have undertaken similar assessments for a number of distribution projects. These efforts have helped the Company refine its analysis methodologies and understand its requirements for further improvement.

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

A.

1

2

3

4

Q. Please describe the Company's efforts to assess NWA recently.

Over the last eighteen months, the Company and its affiliates have evaluated the potential for NWA to a number of major transmission projects throughout National Grid's US service territory. The Company used its informal, interim approach for these analyses. In New York, the Company evaluated the potential use of energy efficiency, demand response, and distributed generation resources as an alternative to the proposed construction of its new 115 kV Spier Falls-Rotterdam transmission circuit and Turner Road substation. This analysis, documented in Exhibit 3 to the Company's Article VII filing for the Spier-Rotterdam project, explicitly took into account the increased levels of energy efficiency investments required by the Commission's EEPS (Energy Efficiency Portfolio Standards) Order, as well as assumed aggressive pursuit of energy efficiency by NYSERDA in support of the State's "15 by 15" goal. It nonetheless concluded that, given the magnitude of the area resource need and the relatively short lead time, it would have been inappropriate to rely on energy efficiency, demand response, and distributed generation as an alternative to the Spier-Rotterdam project.

23

22

1	Q.	Does Pace/NRDC describe the Company's use of increased energy efficiency
2		levels in the Company's forecast correctly?
3	A.	No. Pace/NRDC asserts that the Company is not taking into account the
4		increased levels of energy efficiency investments required by the Commission's
5		EEPS Order in its planning process. Pace/NRDC notes on page 14 of its
6		testimony that the Company's response to IR NM 944 (JVN-22) indicates that
7		load forecasts developed by the Company since the rate case filing have been
8		adjusted to reflect enhanced efficiency savings from NSYERDA and Company-
9		sponsored programs approved by the Commission under the EEPS proceeding.
10		These load forecasts were not available for use in the rate case filing because final
11		Orders from the Commission establishing EEPS savings amounts were not yet
12		available. However, the adjusted load forecasts are currently being used for
13		system planning, as stated in the Company's response to IR NM 944 (JVN- 22),
14		and by the NWA cross-functional team. Pace/NRDC's assumption that "the
15		impact of the higher energy efficiency investments stimulated by the 15 by 15
16		(EEPS proceeding) target is <i>not</i> being taken into account as a non-wires
17		alternative to the cross-functional team" therefore is incorrect.
18		
19	Q.	Please summarize what National Grid has learned over the last 18 months
20		regarding assessment of NWA.
21	A.	While the Company has made substantial progress over the past eighteen months,
22		there is significant work left to accomplish in the areas of tool development,
23		NWA cost estimation and the development of practical business models for

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

Q.

A.

targeting distributed generation, direct load control, and demand response in specific geographic areas. Of specific importance to this proceeding, the Company needs tools that would enable it to have detailed market intelligence with regard to its customer's loads, allowing the Company to easily link customers fed from specific circuits with their capability to utilize NWA and what type. This would allow the company to estimate costs, development cycle times, customer acceptance rates, and potential reductions from various NWA components such as targeted energy efficiency, targeted demand response, direct load control, and distributed generation deployments from specific customer groups. The NWA Team planned to request the ability to conduct pilot studies on certain projects to further develop its knowledge in these areas before recommending more permanent solutions. Experience will help design a better framework for any further development of system capabilities and tools. Please comment on Pace/NRDC's recommendation that in future proceedings, the Company be required to "demonstrate that it evaluated Non-Wires Alternatives as a means of deferring or avoiding T&D investment as an element of its *prima facie* case for recovery of T&D costs." We generally agree that the Company should consider reasonable alternatives available to it when evaluating a system investment. However, the state of knowledge on the use of NWA to traditional utility investment is not sufficiently developed such that it would be reasonable to impose such a requirement.

Utilities all over the country are just beginning to wrestle with how best to

incorporate NWA into their planning. A good reference on where the industry is with regards to NWA is a document dated September 2009 prepared by the National Council on Electricity Policy titled 'Updating the Electric Grid: An Introduction to Non-Transmission Alternatives for Policymakers,' a copy of which is attached as Exhibit __ (IOP-11R). In Section 3 of this document, examples of NWA analysis by utilities were found in CT, ME, VT, and the Pacific Northwest. Referring to those examples, the report states: "Each of these approaches is new and very little in the way of actual non-Transmission projects have resulted from these efforts as of yet."

Challenging issues must be understood and considered in NWA analyses. Some examples of issues include the degree of utility control over customer facilities, ability to hedge capabilities through diversifying customer response, whether customer performance can be mandated (or made firm), and utility ownership of

Challenging issues must be understood and considered in NWA analyses. Some examples of issues include the degree of utility control over customer facilities, ability to hedge capabilities through diversifying customer response, whether customer performance can be mandated (or made firm), and utility ownership of generation, among others, remain to be resolved. The timeline for analysis of NWA must allow enough time for customers to elect participation while anticipating the long lead times needed to design, permit, and construct traditional infrastructure. If NWA are chosen and work has begun to prepare the wires investment, the recovery of both costs will require consideration and resolution. In addition, the issue of how targeted energy efficiency, demand response, direct load control, and costs of distributed generation activities are recovered, and the rate design changes needed to recover the costs for such activities, also need to be addressed. The evaluation of NWA itself is an admirable goal but the intent is to

implement NWA when and where economic. Resolution of these issues through experience and regulatory processes will guide the success or failure of this effort.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

1

2

Moreover, to the extent that Pace/NRDC is suggesting that the PSC should require the Company to explicitly evaluate NWA to each and every transmission and distribution investment as a condition of cost recovery, the Company respectfully disagrees. Even after the challenging issues outlined above are resolved, NWA must be matched to the characteristics of the need. Generally, investments driven by asset condition or statutory/regulatory drivers typically are not appropriate candidates for NWA because they are generally addressing specific issues many of which do not lend themselves to NWA opportunities. Certain projects driven by contingency loss of supply are also not appropriate candidates for any NWA that is not always deployed. Small-to-medium scale projects may prove more amenable to non-wires solutions than larger-scale or very small projects. Our customers will receive the best value when we are able to focus our analysis of targeted energy efficiency, distributed generation, and demand response on those types of needs, or geographic areas, where we are most likely to find cost-effective opportunities. In short, while the Company shares the desire of Pace/NRDC to move to a world where NWA play an increasing role in utility investment plans, a great deal of analysis remains to be done. Therefore, the Company believes a requirement to include evaluations of NWA as a condition to recovery of all infrastructure investment costs is not appropriate.

23

22

1	Q.	What is the Company's position on Pace/NRDC's recommendation that the
2		Company undertake a pilot program to investigate use of Non-Wires
3		Alternatives as a means of avoiding or deferring T&D investment?
4	A.	The Company would support such a pilot program. As stated above, the NWA
5		Team intended to propose a Pilot opportunity to evaluate NWA and further
6		develop our capabilities. Also, the Company has experiences with NWA pilots
7		throughout its service territory. Indeed, doing such a pilot program would seem to
8		be a logical precursor to any steps to implement NWA more broadly, and
9		certainly should precede any effort to impose non-wires alternative evaluations in
10		rate case filings as a prerequisite to the recovery of infrastructure investment
11		costs.
12		
13		The pilot program mentioned by Pace/NRDC in their testimony was implemented
14		by Niagara Mohawk's Massachusetts affiliate. That pilot program was funded by
15		the Massachusetts Technology Collaborative, and was aimed at evaluating the
16		potential use of renewable energy resources to reduce loading on the distribution
17		system in a limited and focused area. The Company would be amenable to
18		implementing a pilot program in its service territory to advance its knowledge on
19		this issue further, subject to identifying a suitable location for study, and subject
20		to receiving cost recovery.
21		
22	Q.	Does this conclude your testimony?
23	A.	Yes.

1	BY MR. GAVILONDO:
2	Q Panel, you described a correction to an exhibit. Has
3	the panel prepared and sponsored exhibits as part of this
4	pre-filed rebuttal testimony?
5	A (Smith) Yes, our pre-filed rebuttal testimony
6	sponsored 12 exhibits.
7	Q Were those exhibits prepared by you or under your
8	direction?
9	A (Smith) Yes, they were.
10	MR. GAVILONDO: Your Honor, I believe
11	Exhibit Numbers 100 through 111 have been reserved
12	for the exhibits to the pre-filed rebuttal testimony
13	of this panel.
14	ALJ BOUTEILLER: We will use those numbers
15	for purposes of identifying and including in the
16	record the exhibits associated with the panel's
17	rebuttal testimony.
18	MR. GAVILONDO: Thank you, Your Honor. Your
19	Honor, I'd just like to indicate that a corrected
20	version of the testimony will be provided
21	electronically to the reporter and also corrected
22	versions of the exhibit appear on the Bench with your
23	copies of exhibits, and I do have corrected copies of

24

25

the exhibit to provide to any parties that would like

a corrected version. And with that, Your Honor, I

1 tender the panel for cross-examination.

2.4

ALJ BOUTEILLER: Okay, very good. Can you hear me from here? I don't know if this microphone is working. It's not quite as loud as the other ones, so I'll try to compensate for that.

Before we turn to any cross-examiners, I provided you with a sheet with questions that were prepared by my colleague, Judge Stegemoeller, and I'd like to run through those questions with you and that way we can have something for the Judge when he returns to the proceeding and we can move things along from his perspective.

The first question that he had for you is a question which asks as a general matter how does the capital planning for the lines of businesses result in a capital budget for each of the individual company affiliates? Can you respond to that question?

MS. SMITH: Yes, we can, Judge. The plan that is developed begins with a ground level view up by jurisdiction. So in the example of Niagara Mohawk we begin with a condition asset study that's done every year, and we use that study as a basis for our annual work plan and then the budget that goes along with that. Mr. Walker, do you have anything to add?

Т	MR. WALKER: I would add that with that
2	bottoms-up approach what we do is we go and work with
3	the various components of the businesses to identify
4	the needs based on the system, and a large part of
5	that is actually informed by the asset condition
6	report, as well as other evaluations on the system,
7	whether there are systems study on the transmission
8	system or distribution studies on the distribution
9	system. And fundamentally those areas are grouped
10	into five categories, which are basically the
11	categories that we utilize to capture the necessary
12	work to meet the service requirements that we have.
13	And they are comprised of the statutory regulatory
14	work, damage failure, system capacity and
15	performance, and then asset condition, as well as
16	non-infrastructure. And we evaluate each one of
17	those areas based on the needs. So much of what is
18	done on an annual basis is well-known because
19	approximately 40 to 50 percent on an investment basis
20	of the work is in the statutory regulatory work.
21	And, historically, that tends to be similar year on
22	year.
23	ALJ BOUTEILLER: Okay. Is that your total
24	answer to the question?
25	MS. SMITH: Yes.

ALJ BOUTEILLER: Since you parsed it out, I 1 just want to make sure I'm getting all the pieces. 2 3 MS. SMITH: Yes, it is. ALJ BOUTEILLER: As we understand it, you 4 5 have a global risk scoring tool that's employed for 6 purposes of funding and financing and going forward 7 with these projects. Are projects competing across the entire line of business for the same pot of 8 9 money, or is there a separate budget target 10 established for each affiliated company? Can you respond to that question or those two questions? 11 12 MR. WALKER: Sure. I'll respond to that. 13 The global risk tool is not done across lines of It's done on an affiliate basis. 14 business. 15 again, with that ground-up approach with identifying 16 all of the work, we basically identify, using those 17 five categories that I outlined earlier, identify the 18 necessary work in there, and then we use the global 19 risk tool to basically prioritize them and each one 20 of those categories. But when we're doing that, we do not look across the state affiliations, so we look 21 22 at NiMo's very differently than we look at 23 Massachusetts and New Hampshire and Rhode Island. 2.4 ALJ BOUTEILLER: Would you say you fully 25 fund each affiliate or each operating company and

they're not competing with one another?

MR. WALKER: They are not competing with

each other. The merits of the work within the

investment plan stand on their own, and they're

compared on a like basis using the risk scoring tool

2.4

that we have.

ALJ BOUTEILLER: Okay. The next question asks about the amount of alteration modification, the fluid nature of the change of your capital plans.

When such things occur -- and I guess you call these things walk-ins and walk-outs -- how does that affect the budgets and the funding for the company-specific

plans? Is that done as an exercise on the whole line of business, or is that accommodated by each individual company?

MR. WALKER: So building on the last answer, the -- because we do the evaluation on a state basis or affiliate basis, the evaluation of the walk-ins and walk-outs are therefore done on a state-by-state basis. So, again, as we develop the actual investment levels necessary for each state, we use that risk scoring tool. And when work is identified as being necessary, it means that we utilize the risk scoring tool and identify that a walk-in outranks a necessary or another job that's in the cue, and we

1	would walk out that corresponding job in order to
2	fund it. So the risk tool is used essentially to be
3	able to help us prioritize and optimize our
4	investment, but it is done on an affiliate basis.
5	And the walk-in/walk-out process relies upon the
6	veracity of the risk scoring tool in order to
7	prioritize the work.
8	ALJ BOUTEILLER: So as a follow-up, if there
9	was a walk-in, if I'm understanding the terminology
10	correctly, in Massachusetts, that would not affect
11	any of the work to be done in the Niagara Mohawk
12	Electric service area?
13	MR. WALTERS: Absolutely not.
14	MS. SMITH: That's correct.
15	ALJ BOUTEILLER: Thank you for your answer.
16	In this area one final question. The
17	question really is what's the relationship between
18	the rate base that we will establish in this case and
19	the actual spending behaviors and performance by the
20	company within the service territory? Are the two
21	related or correlated? How do you appreciate or
22	understand the relationship between the established
23	rate base and your project financing activity as it
24	occurs in reality?
25	MR. WALKER: Again, when we build the

budget, we develop it and base it upon the needs of 1 2. the system. And the needs of the system are then utilized to determine which work moves forward. 3 One of the things that we proposed in this 4 5 case was a two-way capital tracker such that we 6 define the needs of the system such that we meet our 7 safety and reliability goals and requirements. 8 two-way capital tracker that we propose with the 10 9 percent up and an unlimited down mechanism was really 10 meant to account for those type of things, because when a certain rate base is identified through the 11 12 rate case, that's just one component that is evaluated as we develop the overall budgets for the 13 14 system. But that is done on a financial basis, not 15 on the needs of the system basis. ALJ BOUTEILLER: Okay. I think I understood 16 17 your response. 18 I'd like to turn to a different topic at 19 this point, a matter that did come up in discovery 20 and the judges were a little bit familiar with it, 21 the regional delivery venture. Is this panel the 22 appropriate panel to ask about that? 23 MS. SMITH: Yes, it is. 2.4 ALJ BOUTEILLER: We understand from our 25 review, I guess, of the testimony and from the

discovery that the company is going to reexamine or take a look at this convention or this device for purposes of letting some of the work. Will the -- I'll call it the regional delivery venture, will it remain in place pending this further review of the process?

2.4

MR. GAVILONDO: Your Honor, if I may interject, and I apologize for not mentioning this earlier, it's been in front of me for the last several weeks, so much so that it's blinded me, but the company, the staff and other parties have reached an agreement in principle on a number of CAPX and OPEX related matters that are raised in the IOP panel's testimony.

ALJ BOUTEILLER: Is this one of them?

MR. GAVILONDO: This is one of them. The agreement has not yet been executed but we have nevertheless reached an agreement in principle. The challenge is because it's the result of the settlement and it's not been finalized, I believe we can disclose what the terms of that settlement is in this proceeding, and I just wanted to bring that to your attention. I believe that will -- the intent of the agreement in principle is to effect the going forward operation of the regional delivery venture.

1 ALJ BOUTEILLER: Let's give the panel then a 2 pass on that question as long as you remember that when we deal with settlements and stipulations in 3 this case, I assume Judge Stegemoeller will be with 4 5 us at that time, and if we can at least -- Counsel, 6 if you can be well enough versed on that matter to be 7 able to address any questions or inquiries that he 8 might have, either at the level that I've disclosed 9 to you currently or at a further level, I think that 10 might be sufficient. MR. GAVILONDO: Okay. Yes, Your Honor. 11 12 ALJ BOUTEILLER: We can skip that topic. The other topic, last remaining topic is one that 13 14 maybe there's another stipulation, I don't know, 15 transmission project management, is that a matter 16 that I can inquire of this panel about? 17 MR. McAFEE: Yes. 18 ALJ BOUTEILLER: Okay. We recognized from 19 looking at your testimony that you have an ambitious 20 plan to proceed with capital projects in the future. We're also aware of the additional personnel that 21 22 you're planning to add. As we understand it it's 23 only one additional person. Given the amount of 2.4 volume of activity that you have planned and only the 25 limited amount of additional workers for this area,

do you believe that the quality of your work or the cost control of this program would be jeopardized in any way by the aggressiveness of your behaviors or your plans versus the known level of staffing that you're contemplating?

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

2.4

25

MR. McAFEE: We do not believe that anything would be put in jeopardy. There's three component parts to our decision-making on this topic. First is our proposed transmission capital budget has seen some reductions in its present form. Second is through the T&D organizational realignment, which we have recently completed, the project managers report to one organization, no longer two, and those individuals report up through Ellen Smith's organization, and there's benefits to that combination. And, thirdly, we also use contracted project managers to supplement our internal work force. Presently we have ten internal project managers and five experienced contractors who provide those services, and we believe based on our present budget and plans that this is adequate. We will continue to reevaluate going forward.

ALJ BOUTEILLER: Okay. Thank you very much. Those are the questions I have from here. If there's any need for follow-up, you will hear from us in the

1	future, but otherwise, at this time I'd like to turn
2	to the cross-examiners for today. And again we'll
3	begin with staff.
4	MR. GAVILONDO: Your Honor I'm sorry to
5	interject.
6	MR. LECAKES: That's okay.
7	ALJ BOUTEILLER: They were available.
8	They're not available any more?
9	MR. GAVILONDO: Number one, I appreciate
10	everybody staying after to put the panel on today
11	because it's just better. I have to drive back to
12	Syracuse, and if I had to come back tomorrow
13	morning
14	ALJ BOUTEILLER: Let's go off the record.
15	We don't need that on the record.
16	(Discussion off the record.)
17	ALJ BOUTEILLER: While we were off the
18	record we anticipated the degree to which this panel
19	will be cross-examined today. I understand that
20	there is some cross-examination for the panel today,
21	is that correct?
22	MR. LECAKES: Yes, Your Honor.
23	ALJ BOUTEILLER: We'll proceed with that. I
24	understand as well that there is continuing
25	discussion to simplify the issues and enter into

stipulations covering some of the subject matter of 1 2 your testimony. We encourage that. We welcome that. My colleague is a great proponent of those sorts of 3 efforts, and we would want to cooperate with them to 4 5 the maximum degree possible without compromising the 6 remainder of the process and the integrity of the 7 events as they were to occur. So you will remain subject to recall, and I won't excuse you at the end 8 9 of today. However, if the stipulation process works 10 out, you won't be called back. If it doesn't work out, then we would expect to see you revisiting us 11 12 possibly next week sometime, and that's the contingency for which we will be planning. 13 So with all of that on the record -- that 14 15 was what we discussed while we were off the record --16 let's turn to staff counsel who will engage in some 17 cross-examination of you today. 18 MR. LECAKES: Thank you very much, Your 19 Honor. 20 CROSS-EXAMINATION 21 BY MR. LECAKES: 22 Panel, the questions that I'm going to ask you are going to be limited to your reply testimony or your 23 2.4 rebuttal testimony. And, basically, there's two areas 25 that I want to get into. The first is a little bit

- 1 shorter than the second. The first deals with Luther
- 2 Forest. Your discussion in your rebuttal testimony
- appears on pages 79 to 81. Starting with page 80 of your
- 4 rebuttal testimony, lines 11 and 12, there you state that
- 5 "The revised estimated cost of the Luther Forest
- 6 transmission facilities is approximately \$37 million," is
- 7 that correct?
- 8 A (Smith) Yes, it is.
- 9 Q And also on page 80, on lines 17 to 19, you state
- 10 that "The Luther Forest Technology Campus Economic
- 11 Development Corporation, the LFTCEDC, and the company have
- 12 previously discussed that once completed the facilities
- that are being built there would be transferred to the
- company for \$1, isn't that correct?
- 15 A (Smith) That's correct.
- 16 Q If I understand your testimony correctly, then, that
- 17 indicates that there are no financial transactions that
- 18 will take place until the facilities are fully completed,
- 19 correct?
- 20 A (Smith) That's right.
- 21 Q Is there a signed contract yet for the \$1
- 22 transaction?
- 23 A (Smith) No, there's not.
- 24 Q What is the projected in-service day for the fully
- 25 completed Luther Forest facilities?

- 1 A (Smith) At this time it's not determined.
- 2 Q As far as you're concerned or as you know, will that
- 3 projected in-service date be after January 1, 2011?
- 4 A (Smith) The in-service date is expected to be before
- 5 that.
- 6 O For the full completion of the facilities?
- 7 A (Smith) Yes.
- 8 Q On page 80, still, on lines 9 through 12, you state
- 9 that the transfer of the facilities will occur in stages
- 10 as construction is completed at Luther Forest, isn't that
- 11 correct?
- 12 A (Smith) That's right.
- 13 O What are the estimated dates of each such stage of
- 14 completed construction being transferred over to the
- 15 company?
- 16 A (Smith) The first phase of the transfer of assets
- 17 was supposed to happen in the last week. It was held up
- 18 due to a commercial issue that Luther Forest had. We
- began some work on energization, and we've now stopped
- work pending their resolution of their issue.
- 21 Q So the first phase was supposed to be completed and
- transferred over to the company within the last week,
- 23 correct?
- 24 A (Smith) That's right.
- 25 Q And that did not happen?

- 1 A (Smith) No, it did not.
- 2 Q How many other phases are there supposed to be before
- 3 final facility completion, if you know?
- 4 A (Smith) I don't know. We can take a request for
- 5 that.
- 6 Q If you could provide that information to staff, we
- 7 would appreciate that.
- 8 Following up on that, when is the next phase supposed
- 9 to be completed and transferred over to the company after
- the one that was targeted for this past week?
- 11 A (Smith) The one that was targeted for the past week
- is a significant milestone. It's the biggest piece of it.
- 13 And we'll follow up with the request for the date for the
- 14 second piece --
- 15 O Okay.
- 16 A (Smith) -- or any follow-up work that is intended.
- 17 Q Okay. Are there more than two phases to this?
- 18 A (Smith) Not to my knowledge.
- 19 Q How much of the estimated \$37 million total project
- 20 costs or total project projected amount of facilities will
- 21 be transferred over to Niagara Mohawk Power Corporation at
- each stage?
- 23 A (Smith) That was the amount that was intended to be
- transferred in the last week or so. And that will be the
- 25 amount that would be transferred once this issue that

- 1 Luther Forest has is resolved. There may be some
- 2 remaining small pieces of work after that, but we'll get
- 3 back to you with those details.
- 4 ALJ BOUTEILLER: Just for clarity on the
- 5 record, you're indicating that the \$37 million spoken
- about in the testimony would have been the amount
- 7 with your Phase I?
- 8 MS. SMITH: That's right.
- 9 ALJ BOUTEILLER: Thank you.
- 10 Please proceed.
- 11 BY MR. LECAKES:
- 12 Q I apologize in advance because I don't have a
- 13 citation offhand. We can look one up if you need it, but
- 14 staff's understanding as we sit here right now is that in
- the original testimony of the Infrastructure & Operations
- Panel the target date was sometime in 2012 for Luther
- 17 Forest. Does that ring any bells?
- 18 A (Smith) Yes, it does.
- 19 Q Okay. Was there some sort of project acceleration
- that would now have that project being completed before
- 21 that date?
- 22 A (Smith) Yes. They drove the acceleration through
- 23 their accelerated construction and infrastructure needs
- 24 with their project.
- Q Okay. I'm going to now turn to storm costs, and that

- 1 section begins on page 139 of your rebuttal testimony.
- 2 Actually, my first question is going to rely on pages --
- 3 page 146. There on page 146 of your rebuttal testimony at
- 4 lines 16 to 17, the panel states that "eliminating the
- 5 storm deferral mechanism that's in place currently would
- 6 result in a considerable and an unwarranted shift in the
- 7 risks faced by the company." Isn't that correct?
- 8 A (McAfee) That's correct. That's what's stated.
- 9 Q Okay. On the previous page, 145, lines 7 and 8, you
- 10 state that the company's storm funding proposal has two
- 11 elements, isn't that correct?
- 12 A (McAfee) Yes, that's correct.
- 13 O And the first element that the panel refers to is
- 14 base rate recovery of storm costs not eligible for
- 15 deferral. Is that correct?
- 16 A (McAfee) Yes, that's correct.
- 17 Q Please explain what you mean by "base rate recovery
- 18 of storm costs not being eligible for deferral."
- 19 A (McAfee) In order to follow and answer this
- 20 question, I would like to introduce three IRs that the
- company responded to, IR RAV 157, RAV 158 and RAV 160 into
- the record, please.
- 23 ALJ BOUTEILLER: You've referred to them. I
- don't know if they're included in the record.
- 25 Counsel can assist us. Have we had these marked for

1	inclusion in the record yet?
2	MR. GAVILONDO: Your Honor, it's my
3	understanding that RAV 157 was included in the book
4	that staff introduced into the record this morning.
5	ALJ BOUTEILLER: Okay.
6	MR. GAVILONDO: It is identified as DPS 613.
7	MR. LECAKES: It's Exhibit 326 on the
8	reserved list.
9	MR. GAVILONDO: And, Your Honor, I do have
10	copies of the other two Information Requests which
11	Mr. McAfee referred to, and I can provide them to the
12	Bench and a copy to staff as well, and we can reserve
13	new exhibit numbers for those.
14	ALJ BOUTEILLER: If they're not included in
15	anything that's been provided previously, either for
16	this morning or from Multiple Intervenors or from
17	staff's other documents with Interrogatory Responses,
18	then I'm amenable to including the ones that have not
19	been previously identified.
20	MR. LECAKES: I don't believe that either of
21	those have been introduced yet.
22	ALJ BOUTEILLER: Do we want two numbers or
23	one number?
24	MR. GAVILONDO: Your Honor, it's whatever
25	the Bench prefers, two numbers or one number.

1	ALJ BOUTEILLER: We'll give you the benefit
2	of two numbers.
3	MR. GAVILONDO: Thank you.
4	ALJ BOUTEILLER: 332 would be used for
5	and you'll provide the company's response to staff
6	interrogatory request preliminarily identified as RAV
7	158, and Exhibit Number 333 will be used for the
8	staff inquiry and the company's response to RAV 160.
9	MR. GAVILONDO: Your Honor, I have one copy
10	for the Bench at this time. I will get additional
11	copies made.
12	ALJ BOUTEILLER: Okay, we appreciate that.
13	(Exhibit No. 332 and 333 were marked for
14	identification.)
15	MR. GOODMAN: Do you have other copies?
16	MR. GAVILONDO: I do. Actually, Your Honor,
17	I have an additional copy for the Bench.
18	ALJ BOUTEILLER: Do you have one for
19	Multiple Intervenors?
20	MR. GAVILONDO: I do have one for Multiple
21	Intervenors. I leave one for myself.
22	ALJ BOUTEILLER: Keep one. Just give one to
23	Multiple Intervenors. You can cover me tomorrow or
24	next week.
25	MR. GAVILONDO: Okay.

1	ALJ BOUTEILLER: Do you have one for
2	yourself? Take one back, please.
3	MR. GAVILONDO: Okay.
4	ALJ BOUTEILLER: Make sure Multiple
5	Intervenors have one.
6	MR. GOODMAN: Thank you, Your Honor.
7	ALJ BOUTEILLER: There's an outstanding
8	question. You preliminarily indicated that your
9	response would make reference to these
10	interrogatories. Are you responding that everything
11	that the question called for would be contained in
12	your answers to these Information Requests?
13	MR. McAFEE: Actually, sir, I'd like to
14	reference parts of the Information Request in my
15	response.
16	ALJ BOUTEILLER: Please proceed, then.
17	MR. McAFEE: Thank you.
18	A (McAfee) I'm going to refer to RAV 157. On the
19	second page there's a table, and I think it's important to
20	understand the cost that the company incurs when restoring
21	service to customers due to events.
22	A few years ago the company segmented costs that
23	occurred during minor storms from routine O&M in separate
24	work orders. This was done to better understand our cost
25	structure. A minor storm is defined as an event that

1	impacts customers that is somewhat isolated and the impact
2	of that storm does not qualify for a major storm
3	qualification. A major storm qualification is defined as,
4	for reliability purposes, 10 percent of an operating
5	region within Niagara Mohawk's operating companies
6	affected by the event, 10 percent of the customers within
7	that operating region, or a customer being impacted for an
8	in excess of 24 hours. During the historic test year
9	minor storm costs which are not deferrable totalled \$8.221
LO	million.
L1	The second classification of storms are
L2	non-deferrable major storms. These storms qualify for
L3	exclusion under reliability indices purposes but do not
L4	qualify for deferral accounting. So the definition of
L5	those storms are a storm that affects an operating region
L6	that impacts customers in excess of 24 hours or 10 percent
L7	of the customers within that operating region being
L8	impacted. The total cost during the historic test year
L9	for those events is \$18.086 million.
20	The third category are major deferrable storms.
21	Those are defined as 10 percent of an operating region
22	within Niagara Mohawk's service territory being impacted
23	or 1 percent of a customer account within an operating
24	region being impacted for in excess of 24 hours. The
) 5	total cost of those storms during the historic test year

- 1 was \$55.972 million.
- 2 So the total cost of storms during the historic test
- 3 year that impacted the company was \$82.279 million.
- 4 Referring back to the major deferrable storm category,
- 5 there is a calculation of what is deferrable and what is
- 6 non-deferrable within that \$55.972 million. That
- 7 calculation is conducted by our finance department and
- 8 will be -- the mechanics of that calculation will be
- 9 handled by the discussions within our Revenue Requirements
- 10 Panel.
- 11 ALJ BOUTEILLER: That completes your answer?
- MR. McAFEE: Yes, sir.
- 13 ALJ BOUTEILLER: Okay. Let's turn back to
- 14 staff counsel.
- 15 MR. LECAKES: Thank you, Your Honor.
- 16 BY MR. LECAKES:
- 17 Q So if I understand you correctly, if I'm trying to
- 18 find out more information about what makes, for example,
- in this chart that you referred to on RAV 157 this \$9.945
- 20 million non-deferrable, what makes that non-deferrable,
- 21 the Revenue Requirements Panel is the proper panel to ask
- that question to?
- 23 A (McAfee) Yes, that's correct. There's a calculation
- that finance does. It's outlined within our electric
- emergency procedure, Section EEP.01, that outlines that

- 1 calculation, and that was done by finance and will be
- 2 handled by the Revenue Requirements Panel.
- 3 Q And they can answer the question, then, why those
- 4 costs would not be eligible for deferral?
- 5 A (McAfee) Yes, that's correct.
- 6 O Okay. When you started your answer after the
- 7 exhibits were passed out you referenced -- I heard
- 8 something along the lines of two years ago or a couple of
- 9 years ago. What was that in reference to? I missed it.
- 10 A (McAfee) A few years ago we added a category which
- 11 we defined as minor storms, and that segmented out of
- regular O&M events that were storm-related, were more than
- 13 blue sky events or equipment failure but were less than
- 14 that of threshold of the reliability indices that I
- 15 discussed earlier.
- 16 Q Okay.
- 17 MR. LECAKES: Your Honor, I apologize for
- 18 the delay, but a number of questions now we're
- thinking are better directed toward the Revenue
- 20 Requirements Panel, so we're trying to figure out
- 21 where we are for this panel.
- 22 ALJ BOUTEILLER: Take your time. I'm not
- rushing you.
- MR. LECAKES: Thank you.
- Thank you, Your Honor. We're ready to

- 1 proceed.
- 2 ALJ BOUTEILLER: Okay.
- 3 BY MR. LECAKES:
- 4 Q Panel, on page 148 of your rebuttal testimony,
- 5 beginning at line 14 to line 16, there the panel states
- 6 that "the storm fund amount was calculated using actual
- 7 major storm costs incurred over approximately the last
- 8 five years." Is that correct?
- 9 A (McAfee) Yes, that's correct.
- 10 Q So that would be a five-year average, correct?
- 11 A (McAfee) That's correct.
- 12 Q Now, am I correct that the company has over the past
- 13 20 years experienced a total of three storms that resulted
- in costs exceeding \$20 million for restoration?
- 15 A (McAfee) I believe that's correct based on -- that
- data is correct based on some interrogatories.
- 17 Q Right. And for the record, the interrogatory that
- 18 I'm familiar with would be the company's response to
- 19 RAV-27E, and for reference that can be found in Exhibit
- 20 326.
- 21 Am I also correct, then, that the five-year average
- that was used in this case included two of those three
- 23 storms that the company has experienced over the past 20
- 24 years where the restoration costs exceeded \$20 million?
- 25 A (McAfee) Yes, that's correct. I think it's

- 1 important to understand that customers rely on us to
- 2 restore their service, and that when storms occur, we are
- 3 relied upon by our customers to provide that level of
- 4 service. We have no control over when a storm occurs. We
- 5 don't have any control over the location that is impacted
- 6 nor the severity, but we need to be prepared at all times
- 7 for that response.
- 8 Q All other major storms in your five-year average
- 9 number cost under restoration costs were under \$20
- 10 million, is that correct?
- 11 A (McAfee) I believe that's what is stated in the
- 12 exhibit to -- on this topic.
- 13 Q How many storms would that be, how many major storms
- that cost under \$20 million?
- 15 A (McAfee) I'm going to reference IOP Exhibit 11 in
- our original January testimony, and there is slightly less
- 17 than 50 storms, I believe, listed in that exhibit.
- 18 O Okay. Setting aside the major storm restoration
- 19 costs for the moment, your panel has forecasted a number
- of other operation and maintenance expenses in this rate
- 21 case, isn't that correct?
- 22 A (McAfee) Yes, that's correct.
- 23 Q Things such as tree trimming, vegetation management,
- 24 correct?
- 25 A (McAfee) Yes, that's correct.

ALEXY ASSOCIATES, INC. (518) 798-6109

- 1 0 When the company made these other operation and
- 2 maintenance expense forecasts, were there any normalizing
- 3 adjustments made to eliminate any unusually large costs or
- 4 unusually large activity levels?
- 5 A (McAfee) I'm not sure I understand your question.
- 6 O When the company made its O&M expense forecasts,
- 7 getting away from the storm costs for a moment, the things
- 8 such as vegetation management, did the company make any
- 9 normalizing adjustments to those levels based on the
- 10 historic years that they were looking at for any unusual
- 11 activity?
- 12 A (McAfee) I believe the normalization topic that
- 13 you're referring to would have been handled within the
- 14 Revenue Requirements Panel, not within this panel. Again,
- 15 I'm not sure I fully understand your question.
- 16 Q This panel did make the forecast for the costs,
- 17 correct?
- 18 A (McAfee) Yes, that's correct.
- 19 Q And how were those forecasts made?
- 20 A (McAfee) We took the historic test years spent in
- 21 the categories that you referenced and then looked at our
- 22 plan for those activities and adjusted accordingly.
- 23 Q So when you say "adjusted accordingly," what
- 24 adjustments did you make?
- 25 A (McAfee) For example, we proposed certain changes to

our historic test year and certain O&M activities and 1 2. those were outlined in our testimony. 3 0 Okay. 4 ALJ BOUTEILLER: Let me ask a follow-up 5 question. When you say "adjusted accordingly," did 6 all those adjustments go in one direction, or did 7 they go in two different directions? Were they 8 always going as an increase, or in some instances 9 were they reflected as decreases from your historical 10 expense level? MR. McAFEE: I believe, Your Honor, all the 11 12 increases that we identified in the testimony were increases. 13 14 ALJ BOUTEILLER: Okay, thank you. 15 BY MR. LECAKES: 16 Getting back to the storm costs, then, in coming up 17 with the five-year average that the panel used to forecast 18 the storm restoration costs, am I correct that the panel 19 did not make any normalizing adjustments, though, when it 20 encountered two major storms' restoration costs costing 21 over \$20 million when there have been only been three such 22 costly storms over the past 20 years? (McAfee) I'm not aware of any normalizations that 23 2.4 occurred. Again, as I stated earlier, I believe that

question might be better approached by or answered by the

1	Revenue Requirements Panel.
2	There also are two within the deductible excuse
3	me within the deferral account and again, I'm not an
4	expert in how that is calculated, but there are
5	deductibles embedded within that calculation that the
6	Revenue Requirements Panel can discuss in more detail.
7	ALJ BOUTEILLER: Okay. Let me just follow
8	up. You're responsible for historic values that were
9	established for this case, the historic test year
10	values?
11	MR. McAFEE: That's correct.
12	ALJ BOUTEILLER: You escalated those
13	historic test year values to the rate year, is that
14	correct?
15	MR. McAFEE: That's correct.
16	ALJ BOUTEILLER: You did not reduce any of
17	them when you provided them to the rate year, is that
18	correct?
19	MR. McAFEE: That's correct.
20	ALJ BOUTEILLER: But you believe that it's
21	possible that the other panel, when looking at your
22	information and putting together the final statement
23	of the projections for the rate year, they may have
24	reduced your numbers? Is that what you're
25	suggesting?

1	MR. McAFEE: I'm not sure what was done
2	within the revenue requirement model when they put
3	their schedules together.
4	ALJ BOUTEILLER: So they may have reduced
5	your numbers? Is that a possibility?
6	MR. McAFEE: Again, I don't know the answer
7	to that question. They may have. They may not have.
8	I don't know.
9	ALJ BOUTEILLER: Do you believe that they
10	may have increased your numbers?
11	MR. McAFEE: I don't believe that they
12	increased our numbers.
13	ALJ BOUTEILLER: Okay. So I understand.
14	Thank you.
15	Please proceed.
16	MR. LECAKES: Your Honor, if I can be
17	indulged, I would appreciate if the panel could check
18	the revenue requirement numbers that were submitted
19	by that panel to see if the numbers had changed from
20	the time that the panel submitted their forecasts to
21	the time that the revenue requirement exhibits were
22	made.
23	ALJ BOUTEILLER: Yeah, let's make that a
24	homework assignment for this panel, that they can
25	compare the values they provided to the other panel,

- examine what figures the other panel used, can report 1 2 back to us whether or not they are the same values or different values. And if they are different values, 3 can you tell us what direction they're moving in, 4 5 okay? And this panel is subject to recall. If you 6 can't provide that information, then that would be 7 one of the reasons why we might recall them. Okay? 8 MR. LECAKES: Thank you, Your Honor.
- 9 BY MR. LECAKES:
- 10 Q Getting back to the questions, so your storm fund,
- 11 then, the panel's storm fund request is based on the
- 12 average incremental cost of major storms over the last
- 13 five years, correct?
- 14 A (McAfee) Yes, that's correct.
- 15 Q And the averaging methodology that the panel used
- resulted in the company's request for a \$30 million storm
- 17 fund, isn't that correct?
- 18 A (McAfee) That's correct. What our intention was was
- 19 to not -- was to only recover the funding that we would
- 20 have recovered within those five years.
- 21 Q But if the company is allowed the \$30 million storm
- fund, why does it need an additional \$20 million in base
- 23 rate operation and maintenance allowances for incremental
- 24 costs associated with major storms? Why doesn't the
- 25 five-year average cover those costs?

1	A (McAfee) Again, my understanding and this
2	question, I think, is better handled by the Revenue
3	Requirement Panel, but the intention of the storm fund is
4	to take care of the deferrable costs associated with those
5	major events. As I stated earlier, there is a large
6	component part of restoration costs that's non-deferrable.
7	MR. LECAKES: Your Honor, we have several
8	questions that it sounds like should be, from this
9	panel's observations, directed to the Revenue
10	Requirement Panel, but we do acknowledge that the
11	panel is being left open for recall anyway, so it may
12	be prudent for us to forego some of these questions
13	and then direct them at the Revenue Requirement Panel
14	with the understanding that if the Revenue
15	Requirement Panel can't answer them, this panel
16	should be recalled to answer the questions, since it
17	does appear in their own testimony.
18	ALJ BOUTEILLER: Okay. We can do that as a
19	last resort, and we'll have to wait and see how your
20	questions are responded to by the other panel. The
21	clear impression I have is that you've gained all the
22	information this panel has on at least the questions
23	you've asked. And if you can anticipate from your
24	knowledge of what the other questions are that we

would be running down the same course, we can pick

1	this up with the other panel and see how that goes.
2	MR. LECAKES: Right. Your Honor, I can ask
3	a couple general questions and see what the panel's
4	opinion here is about whether it's better directed at
5	them.
6	ALJ BOUTEILLER: You can test further
7	without belaboring the point, and that's fine.
8	MR. LECAKES: All right.
9	BY MR. LECAKES:
LO	Q The next area I had planned to get into was deals
L1	with the per event deductible. Is there some general
L2	understanding that the panel has that they would be able
L3	to answer some more specific questions about that, or
L 4	would that be better directed to the Revenue Requirement
L5	Panel?
L6	A (McAfee) The only thing I can provide, the only
L7	items I can provide you is that I am aware that there is a
L8	per event deductible of \$2 million as well as a
L9	calculation that's done that's outlined within the EEP, as
20	I mentioned earlier. The mechanics of that and the
21	background of the \$2 million, I would prefer to defer to
22	the Revenue Requirement Panel.
23	MR. LECAKES: Your Honor, I think that
24	concludes staff's cross-examination with the
25	expectation that we'll be able to ask these questions

1	of the Revenue Requirements Panel that we have left.
2	ALJ BOUTEILLER: Okay. Let's see how it
3	goes with the revenue panel. If you're not satisfied
4	I'd expect you at that time to raise the matter and
5	we'll try to resolve it then and see how it works.
6	Mr. Goodman, did you have questions for this
7	panel?
8	MR. GOODMAN: Your Honor, I had anticipated
9	that all questions I had intended to ask would be
10	covered under the issues addressed by the
11	stipulation, but I actually do have a follow-up
12	question or two based on the questions staff asked,
13	so if I may have a couple minutes?
14	ALJ BOUTEILLER: You may proceed.
15	MR. GOODMAN: Thank you.
16	CROSS-EXAMINATION
17	BY MR. GOODMAN:
18	Q Good afternoon, Panel.
19	A (Panel) Good afternoon.
20	Q I just want to clarify, following up on questions
21	regarding potential adjustments to your forecast by the
22	Revenue Requirement Panel, regarding the forecast of
23	historic forecast of rate year expenses you developed,
24	what is your understanding of what it is that the Revenue
25	Requirement Panel does with that when you pass it off?

- For example, would you give it to the Revenue Requirement
 Panel or rates or another group with the expectation it's
- going to be further modified, or do you give it to them
- 4 with the expectation that they're relying on that number
- 5 for insertion into their model?
- 6 A (Walker) Jay, I believe what you're referring to is
- 7 when we provide an operation and maintenance number, it
- 8 takes into account what we know with respect to its -- any
- 9 future expense, non-measurable expenses up or down. We
- 10 would pass that on to the Revenue Requirement Panel. They
- 11 utilize and rely upon that information for inclusion in
- 12 the revenue requirement tabulation.
- 13 O So to the extent that there are adjustments to be
- 14 made, whether to normalization or deductible, whose
- 15 responsibility is it to make that for the purposes of the
- forecast and the rate filing? Is it the panel's
- 17 responsibility, or is it revenue requirement or someone
- 18 else?
- 19 A (Walker) If it's a known unmeasurable change, it
- 20 would be something tied to the operational portion of it,
- it would come from us. If there is any other adjustment
- 22 which may or may not happen, which I'm not aware of, it
- 23 obviously is within the purview of the revenue requirement
- to be able to do that. So if there's an escalation based
- on inflation or something like that, that could very well

1 be put on by the Revenue Requirement Panel. But barring 2. those type of changes, you know, it would be relied upon based on the information we have provided them. 3 4 Okay. So taking a step back --0 5 Α (McAfee) One additional point to your question, to the issue of deductibles that transitions into deferral 6 7 treatment which this panel hasn't dealt with, the Revenue 8 Requirements Panel dealt with the deferral mechanisms. 9 Okay. Stepping back from storm costs, just as a 0 10 general matter, any expense that needs to be normalized out of the rate year forecast, whose responsibility is it 11 12 to do that? 13 Α (Walker) It's ours. It would ours, Jay. 14 0 Thank you. 15 MR. GOODMAN: Nothing further, Your Honor. 16 ALJ BOUTEILLER: Does any other party have 17 cross-examination for this panel? 18 MR. WALTERS: Your Honor, I don't have cross 19 at this point, but I just wanted to reserve my rights 20 with the other parties. We had potentially similar 21 questions as staff had for the Revenue Requirement Panel which they had addressed to this panel, so I 22 just want to state that for the record, that we may 23 2.4 have some questions depending on how the Revenue

Requirement Panel responds.

1	ALJ BOUTEILLER: Okay. Should they come
2	back, you've reserved your rights. Should they be
3	called back for whatever reason, you can engage in
4	that, but you don't independently believe that you
5	would have any separate need or use for this panel?
6	MR. WALTERS: Right. Correct.
7	ALJ BOUTEILLER: Okay. I understand.
8	You've reserved your rights. You won't be cut off in
9	the future.
10	If there is no other cross-examination,
11	then, for this panel, counsel can approach. You can
12	consider if there's a need for any redirect based
13	upon the questions that have been asked today.
14	MR. GAVILONDO: Okay. Thank you, Your
15	Honor. If we can have five minutes?
16	ALJ BOUTEILLER: Sure. You can use the
17	other room if that's provided.
18	(Discussion off the record.)
19	ALJ BOUTEILLER: Company counsel, is there
20	any redirect for this panel?
21	MR. GAVILONDO: Yes, Your Honor.
22	ALJ BOUTEILLER: Please proceed.
23	MR. GAVILONDO: Thank you.
24	REDIRECT EXAMINATION
25	BY MR. GAVILONDO:

ALEXY ASSOCIATES, INC. (518) 798-6109

- 1 O Mr. McAfee, during its cross-examination staff asked
- 2 a question relative to the two different buckets, as it
- 3 were, of storm fund costs, and I believe the question
- 4 related to the company's need for a storm fund or a
- 5 reconciling storm fund and a base rate recovery amount.
- 6 Do you recall that line of questioning?
- 7 A (McAfee) Yes, I do.
- 8 Q Okay. Could you please elaborate on your answer to
- 9 staff?
- 10 A (McAfee) Yes. I'd like to again refer back to RAV
- 11 157, and I'm also going to refer to Exhibit IOP 11 during
- this response. In 157 it illustrates that there are both
- 13 non-deferred costs and deferred costs with the different
- 14 categories of storms. The non-deferred costs are what's
- 15 required -- or what is needed to be recovered in base
- 16 rates. The deferred costs are what we've used to
- 17 calculate our reconcilable storm fund.
- 18 O Thank you. And has the company answered an IR in
- 19 this proceeding that relates to a very similar question to
- the one asked by staff counsel?
- 21 A (McAfee) Yes, it has. It was answered by -- it was
- 22 answered by the Revenue Requirements Panel, and it is RAV
- 23 158, which was submitted into the record.
- MR. GAVILONDO: And, for the record, that
- was marked for identification purposes as Exhibit

1	332.
2	Q Mr. McAfee, how long have you been in the electric
3	utility business?
4	A (McAfee) Approximately 25 years.
5	Q And during that 25 years, order of magnitude, how
6	many 50- or 100-year storm events have you seen?
7	A (McAfee) I've seen, unfortunately, dozens beginning
8	in my career in 1985, working Hurricane Gloria, up to and
9	including running the ice storm restoration here in
10	eastern New York in 2008.
11	MR. GAVILONDO: Thank you. I have no
12	further questions.
13	ALJ BOUTEILLER: Staff?
14	MR. LECAKES: We have no follow-up, Your
15	Honor.
16	ALJ BOUTEILLER: Mr. Goodman?
17	MR. GOODMAN: I have no follow-up, Your
18	Honor.
19	ALJ BOUTEILLER: Okay. So that's as much as
20	we can complete today with this panel. We will not
21	be excusing you. You'll remain subject to recall,
22	and we'll determine later next week whether or not
23	there will be any need for recalling you.
24	As I understand it, there is a stipulation
25	in progress. As I understand it, there are questions

1	that were presented or reserved for the Revenue
2	Requirements Panel, so we'll elect to see both of
3	those things play out, so there remains a possibility
4	that you may have to appear again in the hearing. So
5	you're excused for now, but you are subject to
6	recall. Thank you.
7	Let's go off the record.
8	(Discussion off the record.)
9	ALJ BOUTEILLER: We have excused for today
10	but have not released the members of the panel who
11	just previously appeared. We've talked about our
12	start time for tomorrow, and the hearing tomorrow
13	will resume at 10:00. As a courtesy to the witness
14	who is available now, we have a witness who is
15	addressing depreciation, a member of the panel who
16	still remains subject to call for purposes of the
17	panel presentation just provided. However, he also
18	has stand-alone or independent testimony.
19	Counsel, can you please introduce the topic
20	and the testimony that Mr. Walker provides by
21	himself?
22	MR. GAVILONDO: Yes, Your Honor. Mr. Walker
23	is presenting rebuttal testimony on depreciation
24	service lines. Shall I proceed?
25	ALJ BOUTEILLER: So we understand, there is

- 1 no cross-examination for Mr. Walker on this
- 2 testimony?
- 3 MR. GAVILONDO: No party has indicated an
- 4 interest in cross-examining.
- 5 ALJ BOUTEILLER: You remain under oath. I
- 6 don't need to swear you in again. You don't need to
- 7 identify yourself. You are identified for the
- 8 purpose of the record. Now we can turn to counsel
- 9 who will describe for us your pre-filed testimony.
- 10 BRUCE WALKER,
- 11 having been previously duly sworn by the notary public,
- 12 was examined and testified as follows:
- 13 DIRECT EXAMINATION
- 14 BY MR. GAVILONDO:
- 15 Q Mr. Walker, I direct your attention to a document
- that consists of a cover page and nine pages of questions
- 17 and answers and ask if you can please identify that for
- 18 the record?
- 19 A This is my pre-filed testimony for the depreciation
- 20 asset list.
- 21 Q That dated August 6, 2010?
- 22 A That's correct.
- 23 Q Do you have any changes or corrections to that
- 24 pre-filed testimony?
- 25 A I do not.

1	Q If I were to ask you those same questions today that
2	appear in your pre-filed rebuttal testimony, would your
3	answers be the same?
4	A Yes, they would.
5	Q Do you adopt that testimony as your sworn testimony
6	in this proceeding?
7	A Yes, I do.
8	MR. GAVILONDO: I request that the testimony
9	be moved into the record.
10	ALJ BOUTEILLER: For my understanding, since
11	there's no modifications or changes to this
12	testimony, this testimony has been previously
13	provided to the reporter in digital format, is that
14	correct?
15	MR. O'BRIEN: That's correct.
16	ALJ BOUTEILLER: So I can instruct the
17	reporter to copy into the record, as if given orally
18	today, the pre-filed rebuttal testimony on the topic
19	of depreciation offered by this witness, Mr. Bruce
20	Walker. Okay. His testimony now is in the record
21	absent any objection from the parties present.
22	(The referenced testimony is inserted into
23	the record as follows.)
24	

Before the Public Service Commission

NIAGARA MOHAWK POWER CORPORATION d/b/a NATIONAL GRID

Rebuttal Testimony

<u>Of</u>

Bruce Walker

Dated: August 6, 2010

1 ().	Please state	your	name a	nd	business	address.
-----	----	--------------	------	--------	----	----------	----------

- 2 A. My name is Bruce Walker. My business address is 40 Sylvan Road, Waltham,
- 3 MA 02451.
- 4 Q. Are you the same Bruce Walker who previously submitted testimony in this
- 5 proceeding as part of the Infrastructure and Operations Panel?
- 6 A. Yes. I am.

17

18

19

- 7 Q. What is the purpose of your rebuttal testimony in this proceeding?
- 8 A. The purpose of my rebuttal testimony is to respond to the testimony of the Staff 9 Depreciation Panel. Specifically, I will address the Depreciation Panel's 10 recommendations concerning the average service lives that should be used to 11 establish depreciation rates in this proceeding. My testimony supplements the 12 direct and rebuttal testimony of Ronald E. White of Foster Associates, Inc. who 13 prepared and sponsored Niagara Mohawk's depreciation study in this case. My 14 testimony will address engineering and operating factors supporting the service 15 lives recommended in the Company's depreciation study as opposed to the 16 following service lives proposed by the Depreciation Panel:
 - (i) the proposed seventy-five year mean service lives recommended for Account No. 358 Transmission Plant Underground Conductors and Devices and Account No. 367-10 Distribution Plant Underground Conductors and Devices;

1		(ii) the proposed thirty-year mean service lives recommended for
2		Account No. 353.50 - Transmission Plant - Station Equipment - EMS RTU and
3		Account No. 362.55 - Distribution Plan - Station Equipment - EMS RTU; and
4		(iii) the proposed seventy-five year mean service life recommended for
5		Account No. 361 – Distribution Plant – Structures And Improvements.
6	Q.	What is your understanding of the concept and use of an average service life
7		in establishing depreciation rates?
8	A.	My understanding is that the average service life is intended to represent the
9		average age (measured in dollars - years of service) at which it is expected that
10		facilities in a particular account will be retired. It does not mean that all facilities
11		in that account will be retired by the end of the average service life some will
12		be retired earlier, some will be retired later but it is intended to represent the
13		mean or average life.
14	Q.	Please describe the facilities included in Accounts Nos. 358 and 367.10.
15	A.	The facilities included in Account No. 358 consist of underground transmission
16		cables. The facilities included in Account 367.10 consist of underground
17		distribution and sub-transmission cables. The transmission system has (i) 43
18		miles of high pressure, fluid-filled pipe-type cable, and (ii) 8.5 miles of solid
19		dielectric ethylene, propylene and rubber ("EPR") cable. The distribution and
20		sub-transmission cables accounted for in Account No. 367.10 consist primarily of
21		paper-insulated, lead-covered ("PILC") cable that was installed from the early

20		50 years?
19	Q.	Does the Company believe that some of its pipe-type cable will last more than
18		cycling and TMB on cable are cumulative and irreversible.
17		cause deterioration in cable insulation over time. The effects of ongoing thermal
16		changing loads). This leads to thermal mechanical bending ("TMB") which can
15		result of thermal cycling (the repeated heating and cooling of cables from
14		As pipe-type cable ages, we expect to see an increased failure rate as a
13		regularly inspected and maintained.
12		part of the Company's maintenance program, the cathodic protection system is
11		corrosion leads to the loss of dielectric fluid and can result in cable failures. As
10		type cable system is corrosion due to the loss of cathodic protection. Pipeline
9		mean life of approximately fifty years. One of the causes of end-of-life of a pipe-
8		Company believes that the service life of pipe-type cable can be extended to a
7	A.	Yes. By continuing the Company's inspection and maintenance program the
6	Q.	Does the Company expect the cable to exceed its design life?
5	A.	The pipe-type cable was designed and manufactured to last at least 40 years.
4		installation?
3	Q.	What is the nominal design life, or expected life, of the pipe-type cable at
2		after 1970.
1		1900's until about 1970, and EPR cable that was the predominant cable installed

- 1 A. Yes. With proper maintenance we expect that some cable will last as long as 75
 2 years or even longer. Other cables may be replaced at younger ages.
- 3 Q. What is the Company's expectation with respect to the mean service life for
- 4 **EPR cable?**
- 5 A. EPR has been available as an insulation for distribution cables since the late 6 1960s and for 115 kV transmission voltage cable since 1975. The cause of end-7 of-life for EPR insulated cables is not currently known, but a likely end-of-life 8 scenario would be that the insulation would become hardened and embrittled due 9 to thermal aging and/or through chemical processes. Another end-of-life 10 possibility could be insulation deterioration through the formation of "water trees" 11 or "electrical trees," which have been a problem with earlier Cross Linked 12 Polyethylene ("XLPE") cables. "Water trees" are voids that form in solid 13 dielectric electrical insulation. These typically form in the presence of water or 14 other contaminants. On a microscopic level, these voids have the appearance of 15 trees. Water trees eventually turn into "electrical trees," which are sites of "partial 16 discharge" that rapidly cause cable failure. EPR is felt to be more resistant to the 17 formation of "trees" than XLPE, but tree development could occur as the cables 18 age. Until such time as the end-of-life estimates become more definitive, the 19 Company believes that a 50-year mean service life for EPR cable is reasonable.
- Q. What does the Company expect to see with regard to the PILC cable installed in its distribution system?

- 1 A. The main failure mechanism for PILC cable is insulation failure due to water 2 ingress as a result of breaches in the lead sheath. The Company believes that the 3 most likely cause of end-of-life for PILC cables will be the mechanical movement 4 the cables experience. Ultimately, the repeated thermal cycling and TMB of the 5 cable will lead to fatigue and cracking of the lead sheaths. This in turn allows 6 water to enter the cable, leading to cable failure. The Company has not 7 experienced widespread sheath-cracking events, but has experienced splice 8 failures and some sheath cracking. The fatigue cracking is a function of the 9 number and magnitude of bend cycles the cable experiences and, as such, is an 10 age-related phenomenon. The Company also believes that lead fatigue issues will 11 become more pronounced as PILC cables become progressively older.
- Q. Given the factors that you have described, do you have an opinion as to the average service life of the underground cable accounted for in Account Nos. 358 and 367.10?
- 15 A. Yes. From an engineering perspective it is my opinion that 50 years is an
 16 appropriate average service life for these cables. While some of the cables may
 17 last as long as 75 years, or even longer, I do not expect that this will be the
 18 average service life based upon our knowledge of the factors that are likely to
 19 cause failure as the cable ages. I do not believe that the 75-year average service
 20 life recommended by Depreciation Staff is reasonable for these facilities.
- 21 Q. Please describe the facilities included in Account Nos. 353.50 and 362.55.

1

11

12

13

14

15

16

17

18

19

20

21

A.

A. The facilities included in Account No. 353 and 362 consist of Remote Terminal 2 Unit ("RTU") equipment used for Supervisory Control and Data Acquisition 3 ("SCADA") between a substation where this equipment is located and our Energy 4 Management System ("EMS") at the control center. These systems are used for 5 monitoring and controlling the power system network. The existing population of 6 RTUs is a mixture of equipment from the early 1980s, 1990s and 2000s. The 7 early RTUs were typically hardwired, using discrete component technologies and 8 proprietary communication protocols. The continuation of these systems is 9 dependent on the availability of discrete hardware components to keep them 10 operational.

Q. What are the issues with RTUs that lead to early retirement or replacement?

In the past, SCADA/EMS RTUs were typically highly customized with hardware, and communication protocols specifically configured to the installation. This equipment is now built using standard commercial components and open communication protocols. These newer RTUs are hardened computers with both proprietary or Windows-based operating systems and development tools. The adoption of standard hardware, software and protocols has increased the adoption and functionality and reduced the cost of implementation. However, rapidly changing technology, along with increasing cyber-security requirements, is causing vendors to drop support of older equipment and, therefore, render this equipment obsolete. This has been the trend with computer technology in

1		general. We expect that in the next 5-10 years there will be a requirement to
2		encrypt the communication between SCADA/EMS and the RTU due to cyber-
3		security issues. This is already being accomplished with the Inter-Control Center
4		Protocol used to exchange data among regional control centers.
5		National Grid has experienced vendor abandonment with Systems Northwest
6		RTUs in our New England companies. In addition, as part of the EMS
7		Replacement project, the Company is currently replacing and upgrading the
8		existing population of obsolete RTUs with the new protocols.
9	Q.	Given the factors that you have described, do you have an opinion as to the
10		average service lives of the Transmission and Distribution EMS RTUs
11		accounted for in Account Nos. 353.50 and 362.55?
12	A.	Yes. From an engineering perspective it is my opinion that 20 years is
13		appropriate, but a stretch, for an average service life for this equipment. The
14		
		reason even a 20-year service life will be a stretch is that the pace of technology
15		reason even a 20-year service life will be a stretch is that the pace of technology development and the increasing cyber-security requirements (e.g. encryption) in
1516		
		development and the increasing cyber-security requirements (e.g. encryption) in
16		development and the increasing cyber-security requirements (e.g. encryption) in this area will force retirements or upgrades of this equipment in a much shorter
16 17		development and the increasing cyber-security requirements (e.g. encryption) in this area will force retirements or upgrades of this equipment in a much shorter time.

vendor support and the lack of functionality and programming tools required to keep them operational.

This type of obsolescence is illustrated by the new SCADA/EMS (*i.e.* the other end of the RTU) that is being implemented and is scheduled to be operational in late 2011. It is planned that this equipment will be replaced/upgraded every 5 years to keep pace with the changing hardware and software technology and cyber security requirements.

8 Q. Please describe the facilities included in Account No. 361.

Q.

- 9 A. Account No. 361 includes the building and improvements associated with facilities such as substations that are used in the Company's distribution system.
 - What factors lead to the replacement of existing structures and improvements? While Niagara Mohawk currently has structures of varying ages classified in this account, each structure contains numerous components and improvements such as roofs, electrical systems, plumbing, heating, ventilation and air conditioning systems, walls, flooring, fencing, paving, etc. Each of these components has varying lives and many will be retired and replaced (some several times) before the end–of–life of the entire structure. The average service life of the components as well as the life span of a structure must be considered in estimating a mean life for structures and improvements. This is analogous to estimating the average service life of an ax in which the head and handle are

retired and replaced at varying ages. It would be wrong to conclude that the life of an ax is infinite or only ceases when the ax is lost or stolen.

One of the factors leading to the retirement and replacement of a structure is the deterioration of concrete. The Company has a number of concrete structures that are likely to be replaced over the next few years. Given that the mean service life of improvements is shorter than the life span of a structure and multiple structures of varying ages are classified in this account, we believe that a 65-year average service life is more appropriate than the 75-year average service life proposed by the Depreciation Panel.

10 Q. Does this conclude your rebuttal testimony?

11 A. Yes.

1	ALJ BOUTEILLER: Thank you very much,
2	Mr. Walker.
3	THE WITNESS: Thank you.
4	ALJ BOUTEILLER: I may see you in your
5	capacity again as a member of the previous panel, but
6	you will not be appearing for purposes of your
7	rebuttal testimony on depreciation.
8	If there's nothing further we can accomplish
9	today, then we'll stand in recess until tomorrow
10	morning at 10:00 a.m. Thank you.
11	
12	
13	
14	* * * 6:05 a.m. * * *
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

1	INDEX		
2	ANDREW SLOEY		Page
3	Direct Examination by Ms. Sweet Zavaglia .		339
4	Cross-Examination by Ms. Cicerani	•	451
5	Cross-Examination by Mr. Mager	•	553
6	Cross-Examination by Mr. Walters	•	601
7	Redirect Examination by Ms. Sweet Zavaglia	•	617
8	Recross-Examination by Mr. Mager	•	622
9	INFRASTRUCTURE & OPERATIONS PANEL		
10	Direct Examination by Mr. Gavilondo	•	626
11	Cross-Examination by Mr. Lecakes	•	1102
12	Cross-Examination by Mr. Goodman	•	1123
13	Redirect Examination by Mr. Gavilondo	•	1127
14	BRUCE WALKER		
15	Direct Examination by Mr. Gavilondo	•	1130
16			
17	EXHIBITS		
18	Number First Reference/Marked		
19	54-80 341		
20	81-94 897		
21	95-99 1088		
22	100-111 1091		
23	325 326		
24	326 452		
25	327 464		

ALEXY ASSOCIATES, INC. (518) 798-6109

1		EXHIBITS	(Cont'd)
2	Number	First	Reference/Marked
3	328		500
4	329		531
5	330		531
6	331		546
7	332		1109
8	333		1109
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

1	CERTIFICATE
2	
3	I, Kay Trigilio, a Shorthand Reporter and
4	Notary Public in and for the State of New York, do
5	hereby certify that the foregoing record taken by me
6	is a true and accurate transcript of the same, to the
7	best of my ability and belief.
8	
9	
10	
11	Kay Trigilio, Notary Public
12	State of New York
13	DATE: September 19, 2010
14	DATE: Beptember 17, 2010
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	