BEFORE THE STATE OF NEW YORK PUBLIC SERVICE COMMISSION

In the Matter of

Niagara Mohawk Power Corporation d/b/a National Grid

Cases 17-E-0238 & 17-G-0239

September 2017

Prepared Rebuttal Testimony of:

Staff Gas Programs and Supply Panel

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1	Q.	Members of the Staff Gas Programs and Supply
2		Panel (Panel), please state your names.
3	Α.	Our names are Davide Maioriello and Michael C.
4		Tushaj.
5	Q.	Are you the same Staff Gas Programs and Supply
б		Panel that submitted testimony on August 25,
7		2017 in these proceedings regarding Niagara
8		Mohawk Power Corporation d/b/a National Grid's
9		(NMPC) rate filing?
10	Α.	Yes.
11	Q.	Are there any exhibits in connection with your
12		rebuttal testimony?
13	Α.	Yes, we are sponsoring two exhibits.
14		Exhibit(SGPSP-3) contains a worksheet of the
15		emission savings associated with NMPC's
16		Neighborhood Expansion Program.
17		Exhibit(SGPSP-4) contains various pages of
18		the 2015 State Energy Plan (State Energy Plan).
19	Q.	What is the purpose of your rebuttal testimony?
20	Α.	We will address various recommendations made by
21		Pace Energy and Climate Center (PACE) witness
22		Karl R. Rábago, Environmental Defense Fund (EDF)
23		witness Simi Rose George, and Alliance For A
24		Green Economy (AFGE) witness Thomas G. Acton

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1		(together the Parties) that are related to
2		NMPC's gas programs. The Parties generally
3		recommend that NMPC stop expanding its gas
4		network to serve new customers.
5	Q.	Please summarize your recommendations.
6	Α.	We recommend that the Commission allow the gas
7		programs to continue to allow NMPC to meet
8		customers' requests for service.
9	Q.	Please elaborate on the proposals of PACE, EDF
10		and AFGE.
11	Α.	PACE, EDF, and AFGE propose that the Commission
12		either declare a moratorium on gas load building
13		programs and/or spending until the Commission
14		can establish and implement a new protocol for
15		evaluation of the program from a long-term
16		societal perspective, providing guidance for the
17		development and implementation of more cost-
18		effective alternatives to natural gas system
19		expansion. The new evaluation protocol would
20		include the use of a comprehensive benefit cost
21		analysis (BCA) to evaluate gas programs or
22		projects against alternatives to natural gas
23		system expansion. In addition, the evaluation
24		protocol could be used for designing earning

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1		adjustment mechanisms to guide for the
2		implementation of more cost-effective
3		alternatives.
4	Q.	Does this Panel agree with the parties
5		recommendations?
б	Α.	We do not support the proposed moratorium or
7		curtailment of programs such as the neighborhood
8		expansion program. That said, we do support
9		implementing an evaluation mechanism as
10		described by the Parties.
11	Q.	Why does the Panel disagree with the Parties'
12		recommendations?
13	Α.	The Parties fail to include the ongoing benefits
14		and planning from both the 2015 State Energy
15		Plan (State Energy Plan) and New York State
16		Research and Development Authority (NYSERDA).
17	Q.	How did the State Energy Plan address developing
18		programs to encourage customer conversions to
19		natural gas?
20	A.	On page 96 of the State Energy Plan, it states:
21		"DPS and utilities are developing programs to
22		encourage customer conversions from carbon-
23		intensive petroleum products, such as #6 heating
24		oil and other distillate fuels, to cleaner fuel

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1 alternatives, while emphasizing the use of high-2 efficiency heating equipment. Home heating applications using petroleum distillate fuels 3 4 produce higher levels of carbon dioxide, sulfur 5 dioxide, and particulate matter than natural gas or renewable thermal solutions and can adversely 6 7 affect the health of their surrounding communities. Due to the infrastructure costs 8 9 associated with increasing access to cleaner heating alternatives, DPS will utilize 10 11 regulatory approaches to align these activities 12 with the State's environmental policy goals." 13 Does NMPC have gas programs that address the Ο. 14 State Energy Plan goal of encouraging customer 15 conversions from carbon-intensive petroleum 16 products? In this case, NMPC has developed programs 17 Α. Yes. 18 to encourage customer conversions from carbon-19 intensive petroleum products, such as #6 heating

20 oil and other distillate fuels, to natural gas.
21 NMPC's new growth programs such as the
22 conversion rebate programs and neighborhood
23 expansion program require the use of high-

24 efficiency equipment and supports the goals of

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1 the State Energy Plan by displacing home heating 2 applications using petroleum distillate fuels that produce higher levels of carbon dioxide, 3 4 sulfur dioxide, and particulate matter than 5 natural gas or renewable thermal solutions. These distillate fuel home heating applications 6 7 can adversely affect the health of people in their surrounding communities. As shown in 8 9 Exhibit___(SGPSP-3), the forecast conversion of 120 customers associated with the neighborhood 10 11 expansion program would reduce carbon dioxide 12 emissions by 195 metric tons on a recurring annual basis. Utilizing the societal cost of 13 14 carbon adopted by the Commission of \$102.03 per 15 metric ton, the network expansion program 16 provides an annual social cost of carbon benefit 17 of \$19,921. 18

18 Q. Where did the Commission adopt this societal19 cost of carbon?

A. The Commission adopted the societal cost of
carbon we utilized in our calculation in its
Order Establishing the Benefit Cost Analysis
Framework, issued on January 21, 2016, in Case
14-M-0101, Proceeding on Motion of the

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1		Commission in regards to Reforming the Energy
2		Vision.
3	Q.	Did the State Energy Plan address utility energy
4		efficiency programs?
5	Α.	Yes. On page 79, the State Energy Plan States:
б		"Utility energy efficiency programs will
7		complement NYSERDA's transition under the CEF
8		[Clean Energy Fund] from a resource acquisition
9		(i.e., incentive based) model to a market
10		transformation approach. To avoid market
11		disruption and prevent backsliding, current
12		utility energy efficiency budgets and program
13		performance targets will be maintained."
14	Q.	How is this relevant to NMPC's programs, such as
15		the neighborhood expansion program?
16	Α.	This guidance supports why NMPC should continue
17		to attach new customers and offer rebates, while
18		the Commission, NYSERDA and local distribution
19		companies design new energy efficiency programs.
20		This section of the State Energy Plan goes on to
21		describe other relevant aspects of the
22		transition, planning and coordination with
23		NYSERDA. A copy of the specific State Energy
24		Plan pages are included in Exhibit(SGPSP-4).

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1 How should NMPC coordinate its gas new growth Ο. 2 programs with the NYSERDA Clean Energy Fund 3 Investment Plan? 4 In order for NMPC to prevent a backsliding of Α. 5 the progress in reducing carbon dioxide emissions provided by its existing gas customer 6 7 programs, NMPC should continue those programs while market development of cost-effective 8 9 mainstream alternatives for renewable heating and cooling (RH&C) technologies, such as ground-10 11 source heat pumps, to take place. This 12 transition is described on page eight of the goals associated with Renewable Heating and 13 14 Cooling Chapter of the Clean Energy Fund 15 Investment Plan submitted in Matter 16-00681, In 16 the Matter of the Clean Energy Fund Investment Plan, May 8, 2017. The goal states the 17 following "Cost-effective investment 18 19 opportunities in RH&C would need to increase by 20 an order of magnitude for RH&C to move from its current niche position to a mainstream market. 21 22 The activities in this initiative are intended 23 to reduce costs by 10 percent - 20 percent in 24 communities with campaigns in five years, making

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1 progress towards the preconditions for a 2 sustainable market. NYSERDA will evaluate 3 market conditions to determine what subsequent 4 activities are needed to continue to move RH&C 5 towards a sustainable market. Additional cost reductions (potentially from indirect benefits 6 7 of increased market scale) combined with 8 monetization of grid value and potentially 9 carbon value would likely be needed to create a sustainable mass market industry over the next 10 11 decade." This goal essentially provides a 12 timeline of when NYSERDA foresees that the RH&C 13 may be able to sustainably compete with existing fossil fuel market solutions such as oil and 14 15 propane. 16 What impacts to the State Energy Plan do you Ο. 17 foresee if NMPC were unable to continue to add

18 new customers?

19 A. Due to the well-established and highly 20 competitive fuel oil and propane markets in New 21 York, if NMPC is unable to provide service to 22 new customers, those customers will most likely 23 become and/or remain oil or propane customers, 24 at least until RH&C solutions can provide enough

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1 savings to entice a conversion. This is 2 particularly true of new housing units being constructed in NMPC's service territory that are 3 not on streets with existing gas distribution 4 5 main. Furthermore, according to the Commission's regulations found at 16 NYCRR 6 7 Section 230.2, Provision of gas service, New 8 York state local distribution companies, such as 9 NMPC, have the obligation to provide gas service to customers when requested. Until RH&C becomes 10 11 a cost effective option, if NMPC is not allowed 12 or unable to provide the service requested, the 13 customer will turn to the existing competitive 14 market for service, primarily from unregulated 15 entities such as oil and propane dealers. 16 Why does this Panel support the Parties' Ο. proposal to establish new protocols for 17 18 evaluation of gas projects and programs? 19 Α. We believe that based on the critical needs 20 associated with pipeline constraints for the NMPC service territory, particularly in the 21 22 Eastern Region, and the goals of the State 23 Energy Plan, a collaborative among interested 24 parties in this proceeding will be able to

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1		timely establish a framework that takes into
2		consideration the unique circumstances of the
3		NMPC service territory.
4	Q.	What is your recommendation?
5	Α.	We recommend that the Commission allow the gas
6		programs, such as the neighborhood expansion
7		program, to continue while a new gas project or
8		program evaluation protocol and BCA process is
9		established through a collaborative with the
10		interested parties in these proceedings.
11	Q.	Does this conclude your testimony?
12	A.	Yes, at this time.
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