ATTACHMENT F EXHIBIT NOS. NMPC-200 – NMPC-202

PREPARED DIRECT TESTIMONY OF ANDREW BYRNE

UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

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Niagara Mohawk Power Corporation d/b/a National Grid

Docket No. ER22-___-000

PREPARED DIRECT TESTIMONY OF ANDREW BYRNE ON BEHALF OF NIAGARA MOHAWK POWER CORPORATION

1 I. <u>INTRODUCTION</u>

2	Q.	Mr. Byrne, please state your name, current title, and business address.
3	A.	My name is Andrew Byrne. I am employed as the Commercial Development
4		Director, Clean Energy Development for National Grid, the public utility holding
5		company that wholly owns Niagara Mohawk Power Corporation ("Niagara
6		Mohawk" or "NMPC"). My business address is 40 Sylvan Road, Waltham, MA
7		02451.
8		
9	Q.	Please summarize your educational background and work experience.
10	A.	I have a Bachelor of Commerce degree and a Bachelor of Business degree from
11		the University of Queensland, Australia. I am also an Australian Certified
12		Practicing Accountant (CPA).
13		I joined National Grid in July 2017 and have held director-level positions
14		in the Clean Energy Development Team and the Finance Business Partner Team.
15		Prior to joining National Grid, I was employed by Novanta, a technology
16		manufacturing company, as the Senior Director and head of corporate Financial
17		Planning and Analysis. Prior to Novanta, I worked for InterGen, an international
18		power producer in multiple finance positions in the United States and Australia.

1 Q.

What is the purpose of your testimony?

2	A.	The primary purpose of my testimony is to discuss NMPC's request in this
3		proceeding for incentives associated with its portion of a set of upgrades to the
4		northern New York transmission system known as the Smart Path Connect
5		Project (the "Project" or "SPC Project"). NMPC is seeking the following three
6		incentives for the Project: (1) a 50-basis-point ROE adder to account for the
7		substantial risks and challenges faced due to the development of the Project; (2) a
8		50-basis-point ROE adder for participation in an RTO (or alternatively, based on
9		the customer benefits associated with the Project); (3) inclusion of 100 percent
10		prudently incurred construction work in progress ("CWIP") in rate base ("100
11		Percent CWIP Request"); and (4) recovery of 100 percent of prudently incurred
12		costs of transmission facilities that are cancelled or abandoned, in whole or in
13		part, for reasons beyond NMPC control ("Abandoned Plant Recovery"). The
14		Abandoned Plant Recovery request was made to the Commission in a separate
15		petition for declaratory order filed on November 19, 2021.
16		My testimony provides information necessary to support NMPC's request
17		for incentives for the Project. As I discuss below, developing and placing the

18 Project into service will impose a number of substantial financial risks and 19 challenges to NMPC, as well as significant regulatory risks and other challenges 20 that threaten completion of the Project. I also discuss the mechanisms that NMPC 21 is using to mitigate these risks, and how the four requested incentives are 22 appropriately tailored to alleviate those risks and challenges. Lastly, I explain the

1		80/20 Cost Containment Mechanism that NMPC proposes to implement to control
2		costs.
3		
4	Q.	Are you sponsoring any exhibits to support your testimony?
5	A.	Yes, I am sponsoring the following exhibits:
6		• Exhibit No. NMPC-201 is a copy of NMPC's corporate credit ratings
7		reports from Moody's.
8		• Exhibit No. NMPC-202 is a description of required permits for the SPC
9		Project in addition to the Certificate of Environmental Compatibility and
10		Public Need.
11		
12	Q.	Please provide an overview of Niagara Mohawk.
13	A.	NMPC is a Commission-regulated public utility company organized and operated
13 14	А.	NMPC is a Commission-regulated public utility company organized and operated under the laws of the State of New York. It provides electric service to over 1.5
13 14 15	A.	NMPC is a Commission-regulated public utility company organized and operated under the laws of the State of New York. It provides electric service to over 1.5 million customers and natural gas service to over 540,000 customers in upstate
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1		incorporated in England and Wales. NMPC is the only National Grid USA
2		subsidiary that owns or operates transmission facilities in New York.
3		Note that although NMPC does business in New York under the name
4		"National Grid," for purposes of this testimony, in order to avoid confusion, I will
5		use the terms "Niagara Mohawk" or "NMPC" to refer to the New York service
6		company affiliate, and "National Grid" to refer to the parent holding company.
7		
8	Q.	Would you please briefly summarize the Smart Path Connect Project, why it
9		is needed and how it benefits the New York transmission system?
10	А.	Yes. The SPC Project involves rebuilding approximately 100 miles of existing
11		230kV transmission lines along with associated equipment, converting nearly all
12		of these facilities to 345kV, and upgrading approximately 10 substations in
13		northern New York. The Project is being jointly developed by National Grid and
14		the New York Power Authority ("NYPA"), and is a direct outgrowth of New
15		York climate-related legislation: (1) the Climate Leadership and Community
16		Protection Act, which requires significant reductions in greenhouse gas emissions
17		over the next 30 years, and (2) the Accelerated Renewable Energy Growth and
18		Community Benefit Act, which provides for significant transmission investment
19		in New York, including the ability of the New York Public Service Commission
20		("NYPSC") to designate certain projects as Priority Transmission Projects, which
21		will be developed by NYPA, subject to approval by its Board of Directors, along
22		with joint development partners selected by NYPA. The SPC Project was

1		designated by the NYPSC as a Priority Transmission Project based on findings
2		that it will "unbottle" both existing and future renewable generation, and is
3		needed on an expedited basis to meet New York's emissions reduction mandates.
4		A full discussion of the underlying legislation, the NYPSC's findings, and
5		the costs and benefits that the Project will provide to New York is set forth in the
6		Prepared Direct Testimony of Brian Gemmell, included as Exhibit No. NMPC-
7		100 to this filing.
8 9 10	II.	FINANCIAL REPERCUSSIONS AND RISKS ASSOCIATED WITH THE SMART PATHCONNECT PROJECT
11 12		A. Magnitude of the Investment Relative to Other National Grid and Niagara Mohawk Capital Projects
13	Q.	Please discuss the magnitude of the Smart Path Connect Project.
14	А.	The total cost for the Project is approximately \$1.2 billion. NMPC's portion of
15		the Project costs approximately \$534.5 million, or \$495 million excluding
16		financing costs, making it a major financial undertaking for the company. Below
17		is a cost forecast and spending timeline for NMPC's share of the Project
18		investment through the anticipated in-service date of December 30, 2025.

			Prior	FY22	FY23	FY24	FY25	FY26	Total	
		SPC	4	69	97	149	130	46	495	
2										
3		Expend	itures for	the SPC P	roject repi	resent a su	bstantial i	ncrease in	the overall	
4		level of	NMPC's	transmiss	ion investi	ment in Ne	ew York, o	compared	to previous	
5		years an	nd other ca	apital inve	stments th	at NMPC	plans to n	nake durin	g the period	1
6		that the	Project w	ill be in de	evelopmer	nt.				
7										
8	Q.	Please	provide a	general o	overview (of Niagara	a Mohawł	x's transn	nission	
9		investn	nent plans	5.						
10	A.	NMPC	has histor	ically incr	eased its a	annual inve	estment in	transmiss	ion to meet	the
11		growing	g needs of	its transm	ission cus	stomers. N	MPC's tr	ansmissio	n investmen	ıts
12		grew fr	om \$177 r	nillion in I	FY18 to \$	193 millio	n in FY21	. That tre	nd is expect	ted
13		to accel	lerate goin	g forward	. NMPC j	plans to in	vest \$237	million in	transmissio	n
14		in FY22	2 and proj	ects its and	nual transı	nission inv	vestments	to grow to	s \$305 millio	on
15		in FY2	5. <i>See</i> Fig	ure 2 belo	w.					

Figure 1: SPC Project Spending Projections (\$m)¹

¹ For purposes of my testimony, references to fiscal years are to National Grid's fiscal years. National Grid fiscal years start April 1 of the prior year, continuing to the next March 31 (*e.g.*, FY22 runs from April 1, 2021 through March 31, 2022).





2

Q. Please discuss the magnitude of Niagara Mohawk's transmission investment plans within the context of Niagara Mohawk's overall capital expenditure program.

6 A. Overall capital expenditure ("CapEx") across electric distribution, sub-7 transmission, and transmission is expected to grow from \$677 million in 2022 to 8 \$895 million in 2025. Transmission investments are expected to represent 9 between 33.6 percent and 36.6 percent of annual electric CapEx investment over 10 that period. Also, it is reasonable to expect that NMPC's need to invest in 11 transmission infrastructure will increase more dramatically over the next ten years 12 as efforts to "unbottle" renewable energy and meet emissions reduction targets in 13 New York intensify. The potential increase in transmission investment due to

1		New York's emissions reductions goals is likely to increase the proportion of			
2		NMPC's investment in electric infrastructure that is dedicated to transmission.			
3					
4	Q.	How does the investment in the Smart Path Connect Project compare to			
5		Niagara Mohawk's transmission plant in service?			
6	А.	Transmission capital projects undertaken by NMPC are typically much smaller			
7		than the SPC Project, with 85 percent of all capital projects budgeted at less than			
8		\$20 million. To further put the scope of the Project investment in perspective,			
9		NMPC's electric transmission plant in service as of March 31, 2021, was			
10		approximately \$3,075,915,674. The SPC Project will increase NMPC's			
11		transmission investment approximately \$495,000,000 or 16 percent. In addition			
12		to the unusually large size of the investment, it is also worth noting that NMPC is			
13		voluntarily investing in a project that is beyond the typical investment required of			
14		NMPC as a transmission-owning member of NYISO.			
15					
16 17		B. Financial Impact of the Investment in Smart Path Connect and Other Capital Projects			
18	Q.	How will Niagara Mohawk finance the construction of the Smart Path			
19		Connect Project?			
20	A.	NMPC will finance the costs of the Project as it is being constructed through a			
21		mix of internally generated cash flow, capital infusions from its parent company,			
22		National Grid, and debt financing. NMPC will choose the most cost-effective			
23		method, or combination of methods, for raising the necessary capital. Once			

1		placed in service, NMPC expects to finance the assets with a combination of
2		equity and long-term debt in line with industry standards.
3		
4	Q.	Please discuss Niagara Mohawk's current financial condition.
5	А.	As discussed above, NMPC's investments in electric infrastructure have steadily
6		increased over time. Over the same period, NMPC has endured a deterioration of
7		key financial ratios used by credit reporting agencies, <i>i.e.</i> , credit metrics, that
8		reinforces the negative correlation between increasing CapEx and financial health.
9		NMPC's free cash flow to debt ratio dropped from a high of 23.2 percent in 2017
10		to 18 percent in 2021. See Figure 3. NMPC's expanding CapEx program has
11		historically placed downward pressure on its credit metrics, and I expect that
12		trend to continue.



Figure 3: NMPC's Historical Cash Flow to Debt Ratio



1	Q.	How will the Project investments affect Niagara Mohawk's financial health?
2	A.	The SPC Project will impact NMPC's credit metrics during the construction
3		period, as well as after the Project is placed in service. As shown in Figure 1
4		above, NMPC will incur annual costs of up to \$149 million during the
5		construction phase of the Project. These substantial expenses, in conjunction with
6		the significant additional transmission CapEx that NMPC anticipates over the
7		next several years, will increase the need for NMPC to seek external financing in
8		order to support this additional spending. This, in turn, puts pressure on NMPC to
9		ensure that it supports its credit metrics in order to ensure cost-effective access to
10		capital markets.
11		
12	Q.	Why are credit ratings important to a utility?
13	A.	Credit ratings are used to evaluate a utility's ability to make timely payments of
14		principal and interests on debt. Accordingly, they have a significant impact on
15		the terms under which a utility will be able to raise capital. The higher the credit
16		rating, the lower the cost of borrowing, which benefits customers. The converse
17		is also true. A higher credit rating also enhances the quality of National Grid's
18		equity investment in NMPC and could provide better access to capital should
19		National Grid seek additional equity investment for NMPC. These benefits are
20		especially important during times of stress. A highly rated entity can ensure it

21 retains access to capital markets, to remain liquid and continually fund business

1

operations, while a lower-rated entity may have its access to capital markets limited.

3

2

4 Q. How do a utility's credit ratings affect the availability and cost of capital?

5 A. Credit ratings provide an objective basis for investors or lenders to compare credit 6 quality of companies within an industry and across industries. A higher rating, 7 even within the band of ratings considered investment-grade, gives utilities access 8 to a larger segment of both public and private capital markets. Greater access to 9 capital markets has the effect of lowering the cost of capital. Higher-rated utilities 10 can issue debt at lower costs, which benefits customers by lowering the overall 11 rate of return. Companies with lower credit ratings have a more difficult time 12 accessing capital when markets are strained, particularly if liquidity dries up. 13 Some of the challenges facing utilities in credit markets are discussed in the 14 testimony of Mr. Adrien M. McKenzie, included with this filing as Exhibit No. 15 NMPC-300.

16

17 Q. Please discuss Niagara Mohawk's and National Grid's credit ratings.

18 A. National Grid plc, the holding company, has senior unsecured debt ratings of
19 Baa2 and BBB from Moody's Investors Service and Standard & Poor's,
20 respectively. The US subsidiary, National Grid USA, also currently maintains
21 senior unsecured ratings of Baa2 and BBB from Moody's and Standard & Poor's.

1 Both are investment-grade ratings. Most of the operating companies in the group, 2 including NMPC, have senior unsecured debt ratings of Baa1/BBB+. 3 4 Q. What do these ratings generally show about Niagara Mohawk and National 5 Grid? 6 A. The credit ratings for National Grid and NMPC suggest that, while both entities 7 remain investment-grade, they are subject to risks in the utility sector. In the 8 NMPC credit opinion published by Moody's on November 1, 2021, Moody's 9 downgraded NMPC to Baa1, noting that its credit quality was constrained by 10 downward pressure on cash flows following the most recently filed retail rate 11 case.² Specifically, the opinion highlighted downward pressure on NMPC's cash 12 flows due to the allowed ROE, capital structure, and the effects of tax reform. 13 The impact of these factors is illustrated by Moody's in the chart below. See 14 Figure 4. The projected reduction in NMPC's cash flow relative to its debt drive 15 the downward trend in the key credit metric used by Moody's to assess financial 16 health. Moody's found that NMPC's proposed settlement incorporated sizable 17 rate modifiers which limited the company's cash flow growth at a time when it 18 continues to undertake a large and growing CapEx program. Moody's opinion 19 demonstrates that growth in a company's capital expenditures can increase a

² See Exhibit No. NMPC-201; Moody's Investors Service, "Niagara Mohawk Power Corporation Update following downgrade to Baa1," Nov. 1, 2021

1 company's financial risks and put further strain on credit ratings. Moody's

2 projected that NMPC's credit metrics would continue to weaken. *See* Figure 4.

Figure 4: Moody's Investors Service, NMPC CFO/Debt

Exhibit 1

3





Key assumptions for forthcoming rate plan: (1) No timing differences, e.g. those pertaining to remittance of NYSERDA balances; (2) No additional covid-19 related costs of any future recovery of associated costs; (3) Deferred tax for rate year (RY) 1 assumed as the rate plan's tax expense for RY1; (4) other potential adjustments excluded.

4 Source: Moody's Investors Service

5 Q. Have the credit reporting agencies expressed concern about Niagara

6 Mohawk's high capital expenditure profile?

7 A. Yes. As discussed above, Moody's noted in November 2021 that a significant

- 8 planned CapEx profile (accounting for rate case proposals through November
- 9 2021, which excludes SPC), combined with weaker cash flow metrics, were
- 10 negative credit indicators.

1	Q.	In this context, how could the planned investment in Smart Path Connect
2		and other future capital investments affect Niagara Mohawk credit metrics
3		and financial health?
4	A.	Credit metrics are an ongoing concern for NMPC at the current rating. Moody's
5		has established 14 percent as the lower limit of the acceptable range of its Cash
6		Flow/Debt ratio for NMPC at its current rating. Moody's currently projects
7		NMPC's Cash Flow/Debt ratio to drop to 14.7 percent over the next three years.
8		Given the limited room for deterioration of this key financial ratio, negative
9		impacts to cash flows or increases in debt levels caused by future transmission
10		investments, including the SPC Project, may have an impact on the current rating.
11		After the latest downgrades to NMPC's credit rating, both Moody's and
12		Standard & Poor's have issued a stable outlook. However, that stable outlook is
13		based, at least in part, on the expectation that NMPC maintains a financial profile
14		in line with the guidance for that rating. In order to maintain metrics at their
15		current level, it is important that the SPC Project generates sufficient cash flows
16		both during construction and during the life of the asset.
17		
18	Q.	What would the consequences be if Niagara Mohawk's credit ratings were to
19		be downgraded further?
20	A.	As discussed above, one of the financial risks NMPC faces in connection with a
21		large capital expenditure, such as that associated with the SPC Project, is that the
22		required cash spending and debt incurrence will harm its credit rating. The

1		primary reason Niagara Mohawk must protect its credit rating is to ensure a
2		reasonable cost of capital for its customers. A lower credit rating will increase the
3		cost of debt for future capital market issuances and would make access to capital
4		markets more difficult. Either of these outcomes would result in higher costs for
5		customers. Additionally, limits on NMPC's ability to access capital markets on
6		favorable terms could eventually become a hindrance to the development and
7		construction of large capital projects.
8		
0		
9 10	III.	REGULATORY AND OTHER RISKS AND CHALLENGES FACED BY NIAGARA MOHAWK WITH RESPECT TO SMART PATH CONNECT
9 10 11	III.	REGULATORY AND OTHER RISKS AND CHALLENGES FACED BYNIAGARA MOHAWK WITH RESPECT TO SMART PATH CONNECTA. Regulatory and Policy Risks
9 10 11 12	III. Q.	REGULATORY AND OTHER RISKS AND CHALLENGES FACED BY NIAGARA MOHAWK WITH RESPECT TO SMART PATH CONNECTA.Regulatory and Policy RisksWhat regulatory approvals will the Project require?
9 10 11 12 13	Ш. Q. А.	REGULATORY AND OTHER RISKS AND CHALLENGES FACED BY NIAGARA MOHAWK WITH RESPECT TO SMART PATH CONNECTA. Regulatory and Policy RisksWhat regulatory approvals will the Project require?Before construction may begin, the Project will require a Certificate of
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 9 10 11 12 13 14 15 16 17 	Ш. Q. А.	REGULATORY AND OTHER RISKS AND CHALLENGES FACED BY NIAGARA MOHAWK WITH RESPECT TO SMART PATH CONNECTA. Regulatory and Policy RisksWhat regulatory approvals will the Project require?Before construction may begin, the Project will require a Certificate ofEnvironmental Compatibility and Public Need ("Certificate") and an approvedEnvironmental Management and Construction Plan ("EM&CP") from theNYPSC. On June 15, 2021, NMPC and NYPA filed, under Article VII of theNew York Public Service Law, an application for a Certificate in NYPC Case 21-

³ Application of New York Power Authority and Niagara Mohawk Power Corporation d/b/a National Grid for a Certificate of Environmental Compatibility and Public Need for the Rebuild of Approximately 100 Linear Miles of Existing 230 kV to Either 230 kV or 345 kV along with Associated Substation Upgrades Along the Existing NYPA Moses-Willis 1&2, Willis-Patnode, Willis-Ryan, and National Grid's Adirondack-Porter 11, 12 and 13 Lines in Clinton, Franklin, St. Lawrence, Lewis, and Oneida Counties, New York, NYPSC Case No. 21-T-0340, available at <u>https://documents.dps.ny.gov/public/MatterManagement/</u> <u>CaseMaster.aspx?MatterCaseNo=21-T-0340.</u>

1		whether the Application complies with the Article VII requirements. On
2		December 24, 2021, the NYPSC issued the Project a completeness determination.
3		Now that the Article VII Application has been deemed complete, the proceeding
4		has moved into the settlement phase.
5		In addition to the Certificate and an approved EM&CP, the Project will
6		need to apply to the U.S. Army Corps of Engineers ("USACE") for Sections 10
7		and 404 permits for wetlands and waterbody crossings pursuant to Section 10 of
8		the Rivers and Harbors Appropriation Act of 1899 and Section 404 of the Clean
9		Water Act. Several other permits will be needed prior to project construction,
10		including: a New York State Department of Environmental Conservation State
11		Pollution Discharge Elimination System General Permit for Stormwater
12		Discharge During Construction Activities; a Utility Work Permit from the New
13		York State Department of Transportation; a Coastal Consistency Certificate from
14		the New York State Department of State; historic and archaeological clearances
15		from the New York State Historic Preservation Office/New York Office of Parks,
16		Recreation, and Historic Preservation.
17		
18	Q.	Are there risks that the Project will not obtain all of the regulatory approvals
19		needed to commence construction or complete the Project?
20	A.	Yes. Article VII requires the NYPSC to conduct a full environmental, public
21		health, and safety impact review of the siting, design, construction, and operation

22 of all major transmission facilities in New York State. As discussed above, under

1	Article VII, the Project will require a Certificate and an approved EM&CP from
2	the NYPSC before Project construction may begin. ⁴
3	An Administrative Law Judge has been assigned to conduct public
4	statement and evidentiary hearings. NMPC and NYPA issued a notice of
5	impending settlement negotiations on December 27, 2021, and settlement
6	discussions commenced on January 10, 2022. At the conclusion of this hearing
7	and settlement phase, the NYPSC will determine whether it will grant the
8	Certificate.
9	Any opposition to the application could trigger an administrative
10	evidentiary hearing in which interested parties may submit challenges to the
11	Project, requiring NMCP and NYPA to offer proof in support of the application.
12	Thus, depending on the participation level of affected landowners and other
13	stakeholders and regulator resources, it could take significantly longer than
14	originally anticipated to obtain a Certificate, up to 12 months from the
15	completeness determination. A longer Article VII process has the potential to
16	cause delays to the Project schedule and would increase costs.
17	Assuming it grants the Certificate, the NYPSC has broad authority to
18	impose terms, conditions, limitations, or modifications of the proposed project
19	that it deems appropriate. ⁵ Often the total number of conditions exceeds 100.
20	The conditions may include affirmative requirements or proscriptions on issues

⁴ See id.
⁵ N.Y. Pub. Serv. Law § 121; see also Cty. of Orange v. PSC, 353 N.Y.S.2d 916 (N.Y. App. Div. 3d Dep't 1974), modified, 37 N.Y.2d 762 (N.Y. 1975).

1	such as: facility location requirements; parking restrictions; construction hour
2	restrictions; construction sign requirements; the complaint notification process;
3	required training for contractors; required monthly reporting requirements to the
4	New York State Department of Public Service; specifications on the locations
5	where contractor equipment may be used; required inspectors, including an
6	environmental monitor and agricultural monitor; herbicide use conditions; and
7	facility retirement requirements. Any conditions that require significant
8	modification may cause delays to the Project schedule and increased costs.
9	As discussed above, NMPC must also prepare an EM&CP consistent with
10	the Certificate. The EM&CP consists of a detailed narrative and design drawings
11	of the Project's design and construction plan. It includes a description of the
12	Project's environmental impacts and the applicant's proposed impact mitigations.
13	The EM&CP must also be approved by the NYPSC prior to project construction.
14	Predicting a timeframe for EM&CP approval is difficult. For less complex
15	projects, EM&CPs may be filed concurrently with the Article VII Application.
16	However, most often, the project EM&CP is filed during the
17	evidentiary/negotiation phase of the approval process or after the Certificate is
18	granted, once conditions and restrictions are known. For the Project, NMPC and
19	NYPA expect to submit EM&CPs for the facilities that each will own. The
20	EM&CPs may be provided in phases or may be provided for in one filing for all
21	facilities. Approval for a single EM&CP for longer or more complicated projects
22	can take a year or more.

2	Q.	What land rights will be needed to construct the Project?
3	A.	Both NMPC and NYPA propose to develop the vast majority of the Project within
4		their own respective, existing rights-of way ("ROWs"). However, both NMPC
5		and NYPA will need to engage in good faith negotiations with some third parties
6		to obtain certain new property rights necessary to construct the Project as
7		proposed. The negotiations to obtain these ROWs may result in disputes or
8		challenges that could jeopardize the Project's in-service date or require a material
9		modification to the Project route or scope. To the extent the Project must be
10		modified, the Project could be significantly delayed, with an increase in costs, or
11		could be jeopardized entirely.
12		
13	Q.	Are there any other regulatory risks that the Smart Path Connect Project
14		may face?
15	A.	Yes, in addition to the regulatory risks that most transmission project developers
16		anticipate as they attempt to successfully navigate the permitting process,
17		transmission project developers must also be concerned with other regulatory
18		risks, e.g., public policy shifts that may negatively impact project development.
19		The evolution of the bulk power system has, in recent years, been driven
20		in large part by public policy goals. These policies sometimes have the effect of
21		favoring the development of certain types of projects while disfavoring others.
$\gamma\gamma$		Public policy objectives can be promulgated through legislation or regulatory

1	agencies, e.g., public service commissions or environmental protection agencies,
2	and in some instances are the result of court orders. Unfortunately for project
3	developers, these instruments are just as effective at preventing projects from
4	being developed as they are at incenting project development. The New England
5	Clean Energy Connect ("NECEC") Project is an example of the risks that policy
6	shifts can present to project development. The 145-mile transmission project,
7	developed in Maine by an affiliate of Avangrid ("NECEC LLC") to deliver the
8	output of Canadian hydro resources to New England, received a license from the
9	Maine Department of Environmental Protection ("DEP") authorizing construction
10	on May 11, 2020. ⁶ Beginning in the fall of 2021, however, decisions by a Maine
11	state court and the Maine DEP effectively re-opened NECEC's license,
12	culminating in Maine voters approving in November 2021 a referendum that
13	effectively prohibited development of the NECEC Project. ⁷ In this single
14	example, a validly obtained authorization to commence construction is being
15	restricted by a state court, a state agency, and through legislative action. These
16	policy-related risks exist for all transmission projects, especially for long-distance
17	bulk transmission projects, even when being developed to realize state clean
18	energy policy objectives, like the NECEC Project and the SPC Project.

⁶ In the Matter of Central Maine Power Company, Finding of Facts and Order, L-27625-26-A-N/ L-27625-TG-B-N/ L-27625-2C-C-N/L-27625-VP-D-N/ L-27625-IW-E-N (2020).

⁷ An Act To Require Legislative Approval of Certain Transmission Lines, Require Legislative Approval of Certain Transmission Lines and Facilities and Other Projects on Public Reserved Lands and Prohibit the Construction of Certain Transmission Lines in the Upper Kennebec Region, Maine L.D. 1295 (2021).

1		B. Construction-Related Risks
2	Q.	What type of construction-related risks and challenges will the Smart Path
3		Connect Project face?
4	A.	In addition to the regulatory and policy risks discussed above, the Project faces a
5		number of construction-related risks and challenges, including those relating to
6		scheduling outages, increasing material costs, supply chain disruptions, and
7		securing sufficient labor for the duration of project construction. A number of
8		these risks are due to, or exacerbated by, the continuing impacts of the global
9		COVID-19 pandemic.
10		
11	Q.	Please discuss the risks relating to outages that NMPC and NYPA will face in
12		constructing the project?
13	A.	Because the existing facilities provide significant amounts of power to downstate
14		New York, construction will require substantial outage coordination with NYISO
15		between hard and soft outages to ensure transmission network reliability. Outages
16		to perform the necessary facility work may be limited and may require NMPC to
17		accommodate requests from the system operator to safeguard system reliability,
18		e.g., shorter outage/construction durations or temporary transmission lines. The
19		scale of the Project and the volume of additional transmission projects currently
20		underway across New York also raises the risk that required system outages may
21		not be obtainable in the timeframe needed for Project completion, <i>i.e.</i> , NYISO
22		may choose not to grant requested system outages due to system operation

1		constraints. These risks related to the outages needed to construct and
2		interconnect the proposed transmission facilities have the potential to affect the
3		Project schedule and increase Project development costs.
4		
5	Q.	Please discuss the procurement-related risks associated with construction of
6		the Project.
7	A.	Current market conditions, such as increased inflation and the impact of the
8		COVID-19 pandemic, have resulted in a significant increase in the cost of raw
9		materials, particularly steel. Although NMPC has taken reasonable steps to
10		mitigate this risk, which I discuss below, given ongoing trends, it seems highly
11		likely that these costs will continue to increase through the procurement and
12		construction phase.
13		Other procurement-related risks include:
14		• Demand for structures and conductors, given supply chain challenges and
15		a series of large transmission projects being developed during the same
16		time period and competing for materials, is creating pressure on the prices
17		of these items and, depending on availability, could also impact the
18		Project's schedule.
19		• Potential labor shortages and other issues. As with structures and
20		conductors, the large number of transmission projects being undertaken in
21		New York and nationally during the same time period as the Project could
22		strain the availability of transmission line contractors and crews,

1		particularly if there are any Project delays. Moreover, there is ongoing
2		uncertainty related to federal vaccination mandates and the willingness of
3		represented labor to comply with these regulations.
4		• Manufacturing availability, quality, and delivery logistic risks are
5		significant for a project of this scale. These risks are likely to be
6		exacerbated by the impacts of the COVID-19 pandemic.
7		
8	Q.	What other construction-related risks does the Project face?
9	A.	The NMPC portion of the Project is constructed over 55 miles of right of way.
10		Construction along these rights of way poses risks related to sub-surface
11		geological formations. Those risks include hitting rock (such as Adirondack
12		granite) or encountering unexpected geological conditions, which would require
13		more drilling and changing structure foundation design. Although this risk is
14		somewhat mitigated by geotechnical investigations conducted in advance of any
15		necessary drilling, unexpected geotechnical issues may increase Project costs and
16		lead to schedule delays.
17		Weather has the potential to increase construction costs and delay the
18		construction schedule beyond the allowances initially included as part of the
19		Project cost estimate and schedule. For example, the access plan includes base-
20		level assumptions for utilizing gravel roads and matting in the ROWs. However,
21		seasons with more rain or softer ground conditions in winter could result in
22		significantly higher levels of matting required to mitigate environmental impacts.

1		Also, as explained in NYPA's recent SPC Project-related filing in Docket
2		No. ER22-1014, there are siting and construction-related risks with respect to
3		certain new and expanded substations included in NYPA's portion of the Project.
4		For example, the location of the proposed Haverstock Substation entails
5		environmental and engineering siting risks that could require NYPA to pursue a
6		more complex construction plan that would add approximately \$25 million to the
7		cost of the Project, plus the cost of an enhanced FAA permit for the transmission
8		tower height needed over alternative terrain. Although these risks are specific to
9		NYPA-owned facilities, SPC is a single project, and therefore any risk to one of
10		the co-developers necessarily involves a risk to the overall Project. Moreover,
11		NMPC could be required to make material modifications to its own designs to
12		accommodate any modifications NYPA made to its portion of the Project in
13		connection with these risks. Such modifications may increase the cost of
14		construction and extend the Project development schedule.
15		
16	Q.	Has NMPC taken steps, beyond requesting the risk-reducing incentives
17		discussed in further detail below, to minimize the various risks associated
18		with the Smart Path Connect Project?
19	A.	Yes, NMPC has taken a number of steps to minimize the risks associated with
20		developing and constructing the SPC Project. These include the following:
21		• NMPC is jointly developing the project with NYPA. Joint development
22		will help with outage and schedule coordination, and collaboration on

1	design of structures and substations. Joint development will also help
2	mitigate certain financial risks to NMPC, most notably limiting the scope
3	and resulting costs for which NMPC will be responsible for financing.
4	• NMPC and NYPA have and will continue to utilize best-in-class project
5	management practices and contracting strategies. This includes the
6	development of a detailed schedule identifying all Project tasks, resources,
7	and sequences for such tasks. The schedule will serve to ensure that the
8	entire Project team knows what needs to be completed, by when, and by
9	whom. Additionally, standard procurement processes will be utilized to
10	secure the materials and labor resources at competitive prices, which may
11	include the use of a competitive bid process for needed materials. Further,
12	best-in-class practices will be utilized to the maximum extent possible to
13	assist in incorporating lessons learned on previous projects and avoiding
14	new risks.
15	• As discussed above, NMPC and NYPA have sought, to the greatest extent
16	possible, to site the project using existing rights of way already owned or
17	controlled by NMPC and NYPA. While there are still land rights that
18	NMPC and NYPA will need to obtain in order to effectuate the Project,
19	the maximal use of existing ROWs will significantly reduce the need for
20	additional land rights. NMPC continues to build upon its long-established
21	relationship with NYPA along this shared ROW (portions of which are

1		also occupied by NYPA 765kV Marcy Massena transmission line), which
2		mitigates coordination challenges.
3		• NMPC is incorporating lessons learned from the ongoing NYPA Smart
4		Path Project. NMPC's portion of the SPC Project is a continuation of
5		NYPA's Smart Path Project. NMPC has worked extensively to gain
6		lessons learned by visiting the construction site, which has allowed us to
7		incorporate best practices into our future construction execution plans.
8		These include outage execution sequencing and helicopter soft line
9		stringing to reduce cost and environmental impact.
10		• NMPC completed extensive planning studies of the Adirondack-Porter
11		345-kV upgrade options, enabling a cost-effective solution.
12		• NMPC has well-established community outreach protocols for the
13		Adirondack-Porter facilities, including relationships with the
14		approximately 350 landowners along the ROW and with Lewis and
15		Oneida county and town representatives.
16		
17 18	IV.	<u>THE REQUESTED INCENTIVES ADDRESS THE SPECIFIC RISKS</u> FACED IN THE DEVELOPMENT OF THIS PROJECT
19		A. 100 Percent CWIP In Rate Base
20	Q.	Why is Niagara Mohawk seeking the CWIP Incentive for the Smart Path
21		Connect Project?
22	A.	As discussed above, the SPC Project is a large-scale transmission project
23		requiring large capital expenditures during the construction period. The

1	additional revenues generated through including 100 percent CWIP in rate base
2	for the Project would generate additional cash flow that will serve to reduce the
3	overall need to raise capital during the long construction period. Including CWIP
4	in rate base would also help to alleviate financial pressures on NMPC's credit
5	metrics. Further, adequate cash flow will also help assure that NMPC obtains
6	financing on reasonable terms to fund the SPC Project and other needed
7	transmission and distribution projects. This is especially important when
8	considering the recent downgrade in NMPC's credit rating, and expectations for
9	inflation and upward pressure on the cost of credit. The availability of current
10	cash flow through the CWIP Incentive will help NMPC raise debt capital from
11	investors who may otherwise be discouraged by delays in the recovery of the debt
12	and equity carrying costs of the Project investments during the construction
13	period. Generally, the investment community views CWIP in rate base as more
14	favorable than Allowance for Funds Used During Construction ("AFUDC"),
15	given that AFUDC is not cash income but a promise to pay once the project is
16	completed and placed into service.

1	Q.	Will 100 percent CWIP treatment help mitigate the stresses on Niagara
2		Mohawk's credit metrics?
3	A.	Yes. As noted, NMPC's senior unsecured debt is currently rated BBB+. It is
4		critical that the company minimize the impacts of the large investments in the
5		Project on cash flows and financial ratios. NMPC's request for the CWIP
6		Incentive, if granted, will minimize those impacts. Without CWIP, NMPC's free
7		cash flow to debt ratio is projected to drop between 5 and 40 basis points on an
8		annual basis during the construction of the SPC Project.
9		
10	Q.	Are there any benefits derived from the CWIP Incentive that you have not
11		discussed?
12	A.	Yes. In addition to the benefits to NMPC's cash flows, debt levels, and credit
13		metrics discussed above, the CWIP Incentive also directly benefits customers.
14		Unlike the AFUDC cost recovery mechanism, the CWIP Incentive will enable
15		NMPC to recover SPC Project costs during the construction period. The ability to
16		recover costs during construction prevents a large and sudden increase in rates
17		once the Project is placed in service. The gradual increase in rate base provides
18		rate stability for customers that otherwise may realize rate shock once the Project
19		begins commercial operation and NMPC includes in its transmission formula rate
20		a cash return on both the direct cost of the plant and the capitalized AFUDC, as
21		well as a return of capital through depreciation. In addition, it is well known that

1		the overall revenue requirements paid by customers is lower for projects with the			
2		CWIP Incentive versus those that capitalize AFUDC.			
3					
4	Q.	Will Niagara Mohawk establish accounting procedures to ensure that			
5		customers are not double charged for both CWIP and AFUDC?			
6	A.	Yes. NMPC is proposing to adopt accounting procedures to ensure that NMPC			
7		does not recover both an Allowance for Funds Used During Construction and the			
8		CWIP Incentive for the SPC Project. The details of these procedures are further			
9		discussed in the testimony of Ms. Tiffany M. Escalona, Exhibit No. NMPC-500.			
10					
11		D Deturn on Equity Incontine Addres			
11		B. Return on Equity incentive Adders			
11	Q.	What is an appropriate incentive ROE for the Smart Path Connect Project?			
12 13	Q. A.	B. Keturn on Equity incentive AddersWhat is an appropriate incentive ROE for the Smart Path Connect Project?NMPC should be granted a total of 11.50 percent ROE for the Project. This			
12 13 14	Q. A.	 What is an appropriate incentive ROE for the Smart Path Connect Project? NMPC should be granted a total of 11.50 percent ROE for the Project. This represents an ROE adder of 100 basis points that is added to the base ROE of 			
11 12 13 14 15	Q. A.	 B. Keturn on Equity incentive Adders What is an appropriate incentive ROE for the Smart Path Connect Project? NMPC should be granted a total of 11.50 percent ROE for the Project. This represents an ROE adder of 100 basis points that is added to the base ROE of 10.50 percent calculated using the methodology detailed in the testimony of Mr. 			
112 113 114 115 116	Q. A.	 B. Keturn on Equity incentive Adders What is an appropriate incentive ROE for the Smart Path Connect Project? NMPC should be granted a total of 11.50 percent ROE for the Project. This represents an ROE adder of 100 basis points that is added to the base ROE of 10.50 percent calculated using the methodology detailed in the testimony of Mr. Adrien M. McKenzie. This 100-basis-point incentive adder consists of two 			
112 132 141 151 161 17	Q. A.	 B. Keturn on Equity incentive Adders What is an appropriate incentive ROE for the Smart Path Connect Project? NMPC should be granted a total of 11.50 percent ROE for the Project. This represents an ROE adder of 100 basis points that is added to the base ROE of 10.50 percent calculated using the methodology detailed in the testimony of Mr. Adrien M. McKenzie. This 100-basis-point incentive adder consists of two elements: (1) 50 basis points to address the risks and challenges that NMPC faces 			
112 133 141 151 161 171 18	Q. A.	 B. Keturn on Equity incentive Adders What is an appropriate incentive ROE for the Smart Path Connect Project? NMPC should be granted a total of 11.50 percent ROE for the Project. This represents an ROE adder of 100 basis points that is added to the base ROE of 10.50 percent calculated using the methodology detailed in the testimony of Mr. Adrien M. McKenzie. This 100-basis-point incentive adder consists of two elements: (1) 50 basis points to address the risks and challenges that NMPC faces in developing the Project; and (2) 50 basis points based on NMPC's participation 			
112 133 14 15 16 17 18 19	Q. A.	 B. Keturn on Equity incentive Adders What is an appropriate incentive ROE for the Smart Path Connect Project? NMPC should be granted a total of 11.50 percent ROE for the Project. This represents an ROE adder of 100 basis points that is added to the base ROE of 10.50 percent calculated using the methodology detailed in the testimony of Mr. Adrien M. McKenzie. This 100-basis-point incentive adder consists of two elements: (1) 50 basis points to address the risks and challenges that NMPC faces in developing the Project; and (2) 50 basis points based on NMPC's participation in NYISO and the assumption of NYISO operational control over the Project, or 			
112 133 14 15 16 17 18 19 20	Q. A.	 What is an appropriate incentive ROE for the Smart Path Connect Project? NMPC should be granted a total of 11.50 percent ROE for the Project. This represents an ROE adder of 100 basis points that is added to the base ROE of 10.50 percent calculated using the methodology detailed in the testimony of Mr. Adrien M. McKenzie. This 100-basis-point incentive adder consists of two elements: (1) 50 basis points to address the risks and challenges that NMPC faces in developing the Project; and (2) 50 basis points based on NMPC's participation in NYISO and the assumption of NYISO operational control over the Project, or alternatively based on the customer benefits, including congestion relief, that the 			

1		Since the Commission's issuance of incentive policy standards in Order
2		Nos. 679 and 679-A, the Commission has recognized that certain projects are
3		eligible for incentive ROE adders. Projects of the size and scope of the SPC
4		Project, especially when considering the financial risk assumed by utilities and the
5		benefits conferred upon transmission customers, have qualified for such
6		incentives. These include other similarly scaled regional projects in New York,
7		including projects being developed by New York Transco, LS Power/NYPA, and
8		Next Era Transmission. As noted earlier in my testimony, the development and
9		construction of this large-scale Project involves significant risk, and its operation
10		will provide important benefits to transmission customers statewide.
11		NMPC's share of the Project is \$495 million in development and
12		construction costs, excluding financing costs. This is a significant transmission
13		investment for NMPC, whose financial conditions, as noted earlier in my
14		testimony, are already under pressure as a result of its significant transmission
15		capital expenditure program. In addition to these financial risks, the Project faces
16		numerous regulatory and construction-related risks that I discussed earlier.
17		
18	Q.	How will the incentives for the Project mitigate the risks you have described?
19	A.	The requested 11.50 percent ROE will help mitigate longer-term pressures on
20		NMPC's cash flows. The smaller the negative impact of the Project on free cash
21		flow, the less likely that important credit metrics are adversely affected and
22		NMPC's credit ratings are at risk of further downgrade. Moreover, the stronger

NMPC's credit metrics and ratings, the more likely it will be able to raise capital
 on favorable terms to support its significant ongoing investment needs, including
 the Project.

4 Given the increasing efforts in New York and elsewhere to address the 5 impacts of climate change, the drivers of the development of large-scale 6 transmission projects such as the SPC Project will proliferate. As previously 7 discussed, the development and construction of large-scale transmission projects 8 impose significant financial burdens on project developers and thus the financial 9 challenges associated with these projects will only intensify. NMPC expects that 10 it will need to be prepared to assume the magnified risks of developing numerous 11 large-scale transmission projects to satisfy the mandates of policymakers and 12 adapt to policy changes over time.

13

14 Q. Is an ROE incentive needed if Niagara Mohawk receives the CWIP

15 Incentive?

A. Yes, the requested ROE incentive would still be needed – the CWIP Incentive
alone is not sufficient to address the risks associated with Project. The CWIP
Incentive is designed to address a different risk than the ROE Adder incentive.
Specifically, the CWIP Incentive would alleviate NMPC's cash flow weakness
associated with the large capital requirements of the Project during the
construction process. As the Commission has recognized, the CWIP Incentive
helps companies to protect their financial health during the construction period

1		"by minimizing capital costs, reducing interest expense, increasing cash flows,
2		and improving a company's coverage ratios, which are used by rating agencies to
3		determine credit quality." ⁸ On the other hand, the requested ROE Adder
4		incentives are intended to offset the significant risks and challenges that the
5		Project faces such as development, construction, permitting, and policy risk
6		exposure, and to help attract capital investment. It does this by providing a
7		longer-term and higher return on equity for the project during construction and
8		when it is placed in service.
9		
10	Q.	Are there other reasons that the Smart Path Connect Project should be
11		granted an ROE Adder incentive?
12	A.	Yes. As discussed in detail in Mr. Gemmell's testimony, in addition to the risks
13		and challenges faced by the Project, the Project will provide a myriad of benefits.
14		In particular, the Project is among the types of projects that the Commission has
15		indicated will likely face the types of risks and challenges not addressed by a base
16		ROE or other risk-reducing measures and incentives, particularly: (1) projects that
17		relieve chronic or severe grid congestion; and (2) projects that unlock location-
18		constrained generation resources that previously had limited or no access to
19		wholesale markets. As Mr. Gemmell explains, the NYPSC found, based on
20		analysis performed by NYPA, that the Project will unlock significant renewable

⁸ See Commonwealth Edison Co., 124 FERC ¶ 61,231 at P 29 (2008).

1		significant curtailments due to the transmission system in that region. Moreover,	
2		the Project is expected to result in significant cost savings both in terms of energy	
3		and capacity costs, which will benefit customers statewide. Finally, by	
4		facilitating the ability of substantial amounts of renewable capacity to operate, the	
5		Project will result in an estimated reduction of 1.16 million tons of carbon dioxide	
6		and 160 tons of nitrogen on an annual basis.	
7		In addition, as I discuss below, NMPC is proposing to couple its ROE	
8		Adder incentives request with a robust cost containment mechanism that includes	
9		a mechanism whereby, if NMPC exceeds a defined Cost Cap, it will forego not	
10		only any incentive ROE, but also its base ROE, on the equity portion of the costs	
11		that exceed the Cost Cap.	
12			
13		C. Abandoned Plant Recovery	
14	Q.	Please explain why Niagara Mohawk is seeking the Abandoned Plant	
15		Recovery incentive.	
16	А.	As explained in its separate Petition for Declaratory Order filed on November 19	
17		in Docket No. EL22-17, NMPC is seeking the Abandoned Plant Recovery	
18		incentive to offset some of the uncertainties associated with the SPC Project -	
19		e.g., if one or more components of the Project is unable to move forward for	
20		reasons outside of NMPC's control. This risk is of particular concern given that	
21		the upgrades making up the Project are subject to numerous siting/regulatory	
22		approvals at the state and federal level.	

1		Consistent with the Commission's requirements in Order No. 679, before	
2		NMPC recovers any costs related to the Abandoned Plant Recovery incentive, it	
3		will make a section 205 filing at the Commission seeking approval of the	
4		cancelled transmission plant costs and an amortization for the recovery.	
5			
6	V.	THE 80/20 COST CONTAINMENT MECHANISM	
7	Q.	Explain the origins and purpose of the 80/20 Cost Containment Mechanism.	
8	А.	Under Commission policy, applicants for an incentive ROE based on a project's	
9		risks and challenges must limit the incentive ROE to a Cost Cap. ⁹ In its request,	
10		NMPC is proposing to go a step further by applying the Cost Cap to both its base	
11		ROE and ROE incentives. Thus, the 80/20 Cost Containment Mechanism	
12		proposed for the Project would result in NMPC and customers sharing the risk of	
13		cost overruns related to costs that are included for purposes of the cap (referred to	
14		as "Eligible Project Costs"), rather than customers bearing the entire risk of cost	
15		overruns (at least with respect to base ROE). NMPC is also proposing to adopt a	
16		performance-based ROE incentive structure pursuant to which NMPC will earn	
17		an incentive ROE on its portion of the Project if the project costs come in below	
18		the Adjusted Cost Cap. This type of cost containment and incentive mechanism	
19		has been previously approved by the NYPSC and the Commission, such as the	
20		Central East Energy Connect Project being developed by LS Power and NYPA. ¹⁰	

⁹ See Promoting Transmission Investment Through Pricing Reform, 141 FERC ¶ 61,129 at P 28 (2012). ¹⁰ N.Y. Indep. Sys. Operator, Inc., 175 FERC ¶ 61,210 (2021).

2	Q.	How will the 80/20 Cost Containment Mechanism be implemented?
3	А.	Under NMPC's proposed 80/20 Cost Containment Mechanism, when Eligible
4		Project Costs exceed the Cost Cap, NMPC will earn no ROE for 20 percent of the
5		equity portion of actual costs that exceed the Cost Cap and will only recover the
6		Commission-approved base ROE on the remaining 80 percent of the equity
7		portion of the actual costs that exceed the Cost Cap (not any incentive ROE
8		adders approved by the Commission). This will not limit NMPC's recovery of
9		depreciation and debt costs. Certain Third-Party Costs and Unforeseeable Costs
10		in excess of 2.5 percent of the Cost Cap are excluded from Eligible Project Costs
11		and recovered under the NMPC transmission formula rate. Also, if Eligible
12		Project Costs fall below an Adjusted Cost Cap, NMPC will earn an incentive
13		ROE on its portion of the Project, as explained further below.
14		
15	Q.	What are the Cost Cap and Adjusted Cost Cap that NMPC is proposing and
16		how were they calculated?
17	А.	The Cost Cap for the NMPC portion of the Project is \$481.8 million, exclusive of
18		interconnection and network upgrades resulting from the NYISO evaluation
19		process and additional financing costs. The Cost Cap is based on the Project cost
20		estimate that NMPC prepared for purposes of the Article VII Application
21		submitted to the NYPSC. The assumptions underlying the development of this
22		estimate are set forth in Exhibit 9 to NYPA and NMPC's Article VII submission

1		to the NYPSC. The Adjusted Cost Cap is \$433,058,500, which is the Cost Cap
2		less 50 percent of the cost contingency for NMPC's portion of the Project
3		included in the Article VII estimate.
4		
5	Q.	How are Eligible Project Costs defined?
6	A.	Eligible Project Costs are costs incurred to develop, construct, and place the
7		Project in service, excluding Third-Party Costs and Unforeseeable Costs in excess
8		of 2.5 percent of the Cost Cap. This proposal for defining Eligible Project Costs
9		is substantially similar to the mechanism approved by the Commission in
10		connection with the settlement entered into by LS Power and other New York
11		stakeholders with respect to the Central East Energy Connect Project ("CEEC")
12		in Docket No. ER20-716, with certain differences that I will discuss. One
13		difference is that, unlike the cost containment mechanism approved for CEEC,
14		NMPC is proposing to include Project Development Costs. The CEEC Cost Cap
15		did not include Project Development Costs because they were not part of that
16		project's bid, but NMPC did include them in its Article VII estimate for the SPC
17		Project, and thus they are appropriately included in Eligible Project Costs.
18		
19	Q.	How are Third-Party Costs defined?
20	A.	Third-Party Costs include: (i) interconnection and network upgrade costs resulting
21		from the NYISO evaluation process; (ii) property taxes; and (iii) any increased
22		costs (<i>i.e.</i> , costs incurred related to the rescheduling of outages or to the relocation

1		of utility assets), which are beyond the ability of NMPC to control or mitigate.
2		NMPC proposed to define Third-Party Costs the same way they were for the
3		Segment A project, with two exceptions that narrow the scope of the exclusions.
4		First, for Segment A, LS Power and NYPA included certain real estate-related
5		acquisition costs in Third-Party Costs (i.e., excluded from Eligible Project Costs),
6		whereas NMPC is proposing to include such costs in Eligible Project Costs, as
7		they were included in NMPC's Article VII cost estimate. Similarly, LS Power
8		and NYPA included both property taxes and sales taxes in the definition of Third-
9		Party Costs, whereas NMPC is proposing only to include property taxes in the
10		definition of Third-Party Costs, as sales taxes were included in NMPC's SPC cost
11		estimate.
12		
12 13	Q.	How are Unforeseeable Costs defined?
12 13 14	Q. A.	How are Unforeseeable Costs defined? Unforeseeable Costs are costs that, with the exercise of commercially reasonable
12 13 14 15	Q. A.	How are Unforeseeable Costs defined? Unforeseeable Costs are costs that, with the exercise of commercially reasonable diligence, could not have been anticipated at the time the estimate was developed,
12 13 14 15 16	Q. A.	How are Unforeseeable Costs defined? Unforeseeable Costs are costs that, with the exercise of commercially reasonable diligence, could not have been anticipated at the time the estimate was developed, and include:
12 13 14 15 16 17	Q. A.	How are Unforeseeable Costs defined? Unforeseeable Costs are costs that, with the exercise of commercially reasonable diligence, could not have been anticipated at the time the estimate was developed, and include: • Costs associated with material modifications to the routing or scope of
12 13 14 15 16 17 18	Q. A.	How are Unforeseeable Costs defined? Unforeseeable Costs are costs that, with the exercise of commercially reasonable diligence, could not have been anticipated at the time the estimate was developed, and include: • Costs associated with material modifications to the routing or scope of work of the Project that results from a NYPSC order, negotiation, or
12 13 14 15 16 17 18 19	Q. A.	How are Unforeseeable Costs defined? Unforeseeable Costs are costs that, with the exercise of commercially reasonable diligence, could not have been anticipated at the time the estimate was developed, and include: • Costs associated with material modifications to the routing or scope of work of the Project that results from a NYPSC order, negotiation, or settlement agreement within the siting process, or are imposed or required
12 13 14 15 16 17 18 19 20	Q. A.	How are Unforeseeable Costs defined? Unforeseeable Costs are costs that, with the exercise of commercially reasonable diligence, could not have been anticipated at the time the estimate was developed, and include: • Costs associated with material modifications to the routing or scope of work of the Project that results from a NYPSC order, negotiation, or settlement agreement within the siting process, or are imposed or required by any other governmental agency. For the avoidance of doubt,
12 13 14 15 16 17 18 19 20 21	Q. A.	How are Unforeseeable Costs defined? Unforeseeable Costs are costs that, with the exercise of commercially reasonable diligence, could not have been anticipated at the time the estimate was developed, and include: • Costs associated with material modifications to the routing or scope of work of the Project that results from a NYPSC order, negotiation, or settlement agreement within the siting process, or are imposed or required by any other governmental agency. For the avoidance of doubt, foreseeable obligations, as included in the New York State Article VII

1	as a normal part of the siting process, shall not be deemed to be
2	Unforeseeable Costs;
3	• Costs associated with changes in applicable laws and regulations, or
4	interpretations thereof by governmental agencies;
5	• Costs incurred as a result of orders of courts or action, or inaction, by
6	governmental agencies;
7	• Costs related to destruction, damage, interruption, suspension, or
8	interference of or with the Project caused by landslides, lightning,
9	earthquakes, hurricanes, tornadoes, severe weather, fires, explosions,
10	floods, epidemics, pandemics, ¹¹ acts of public enemy, acts of terrorism,
11	wars, blockades, riots, rebellions, sabotage, insurrections, environmental
12	contamination or damage, or strike or otherwise unavailability of skilled
13	labor, provided that (i) the cause was not reasonably within the control of
14	NMPC, (ii) NMPC made reasonable efforts to avoid or minimize the
15	adverse impacts of any of the above-listed events, and (iii) NMPC took
16	reasonable steps to expeditiously resolve the event after it occurred;
17	• Steel cost escalation that is greater than the Construction Cost Index
18	applied to steel costs in determining the Cost Cap; ¹²

¹¹ NMPC proposes to add "pandemics" to the force majeure provision of "unforeseeable costs" in recognition of the ongoing global health emergency, *See, e.g., Business Continuity of Energy Infrastructure*, 171 FERC ¶ 61,007 (2020) (acknowledging the impact of the national emergency caused by COVID-19 on business continuity of regulated entities.).

¹² Steel cost escalation is measured by the Handy Whitman Construction Cost Index.

1		• Total actual project cost escalation, excluding steel costs, that are greater		
2		than 150 percent of the Construction Cost Index applied to non-steel costs		
3		in determining the Cost Cap; and		
4		• Unforeseeable Costs will be excluded from Eligible Project Costs only if		
5		they exceed 2.5 percent of the Cost Cap.		
6				
7	Q.	Please explain any differences relative to the Central East Energy Connect		
8		definition of Unforeseeable Costs.		
9	A.	Based on the specific facts and circumstances relating to the SPC Project,		
10		NMPC's proposed definition of Unforeseeable Costs differs in a few respects		
11		from the definition adopted for LSPG-NY and NYPA:		
12		• NMPC is proposing to reduce the threshold for Unforeseeable Costs to be		
13		excluded from Eligible Project Costs to 2.5 percent, from the 5 percent		
14		threshold used for the Central East Energy Connect ("CEEC"). This		
15		change brings NMPC's total exposure for Unforeseeable Costs for the		
16		SPC Project (approximately \$12.4 million) more in line with the exposure		
17		to NYPA (\$9.5 million) and LS Power (\$15.8 million) associated with the		
18		CEEC. With a 5 percent threshold, NMPC would be exposed to a		
19		substantially greater amount of Unforeseeable Costs – over \$24.7 million		
20		– for the SPC Project.		

1		• NMPC proposes to add "pandemics" to the force majeure provision of
2		Unforeseeable Costs in recognition of the ongoing global health
3		emergency.
4		• NMPC proposes to add a provision that accounts for the fact that steel
5		costs have risen significantly since NMPC developed its Project cost
6		estimate in mid-2021. That steel costs would drastically rise was
7		unforeseeable at that time. Resultantly, NMPC proposes to include steel
8		cost escalation, as measured by the Handy Whitman Construction Cost
9		Index, in excess of that included in the Cost Cap, as an Unforeseeable
10		Cost.
11		• NMPC also expects to see inflationary pressures on non-steel costs, such
12		as on labor costs. This higher than anticipated inflationary pressure was
13		likewise unforeseeable at the time NMPC developed the Project cost
14		estimate. To the degree that the escalation of actual costs other than steel
15		costs, as measured by the Handy Whitman Construction Cost Index,
16		exceeds 150 percent of the escalation included in the Cost Cap, NMPC
17		proposes this amount to be an Unforeseeable Cost.
18		
19	Q.	Please explain the performance-based incentive ROE treatment that NMPC
20		is requesting.
21	A.	If Eligible Project Costs fall below the Adjusted Cost Cap, NMPC would earn an
22		incentive ROE on the Project, according to the following Table 1.

Table 1ROE Incentive for Project Costs Under the Adjusted Cost CapAdditional ROE on SPC Project

Project Costs Below Adjusted Cost Cap	ROE Adder
0% to $\leq 5\%$	0.05%
$> 5\%$ to $\le 10\%$	0.17%
$> 10\%$ to $\le 15\%$	0.30%
$> 15\%$ to $\le 20\%$	0.45%
$> 20\%$ to $\le 25\%$	0.62%
>25%	0.71%

5

1 2

3

4

6 This performance-based incentive ROE structure, including the resulting ROE

7 adder percentages, is identical to the one approved for the CEEC.

8 Q. Does this conclude your testimony?

9 A. Yes.

UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

Niagara Mohawk Power Corporation)	Docket No.	ER22
d/b/a National Grid)		

DECLARATION OF ANDREW BYRNE

I depose and state under penalty of perjury that the foregoing testimony was prepared or assembled by me or under my direction; that I have read the questions and answers labeled as my testimony; that if asked the same questions my answers in response would be as shown; and that the facts contained in my answers are true to the best of my knowledge, information, and belief.

Executed on March 3, 2022

/s/ Andrew Byrne

Andrew Byrne

EXHIBIT NO. NMPC-201

MOODY'S INVESTORS SERVICE

CREDIT OPINION

1 November 2021

Update

Rate this Research

RATINGS

Niagara Mohawk Power Corporation

Domicile	Syracuse, New York, United States
Long Term Rating	Baa1
Туре	LT Issuer Rating
Outlook	Stable

Please see the <u>ratings section</u> at the end of this report for more information. The ratings and outlook shown reflect information as of the publication date.

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Niagara Mohawk Power Corporation

Update following downgrade to Baa1

Summary

The credit quality of <u>Niagara Mohawk Power Corporation</u> (NiMo) is underpinned by the low business risk of its transmission and distribution (T&D) operations and a transparent and established regulatory framework with favorable cost recovery provisions. The proposed rate case settlement (Joint Proposal), filed¹ in September 2021, expands the suite of reconciliation/deferral mechanisms, from an already strong base, enhancing cash flow predictability over the period to June 2024. The settlement also maintains strong ring-fencing provisions which protect credit quality from additional leverage at NiMo's parent companies.

Credit quality is constrained by weak cash flow metrics that we expect will persist over the forthcoming rate plan, reflected in projected cash flow from operations pre-working capital (CFO pre-WC) to debt around 14% - 16% over this period. The proposed settlement incorporates sizeable rate modifiers which limit the increase in customer bills but also moderate the company's cash flow growth at a time it continues to undertake a large capex program. This accentuates the pressure on operating cash flows from (1) the continuation of relatively low authorized return on equity (RoE, 9.0%) and thin equity layer (48%) in NiMo's assumed capital structure compared to other state regulated utilities operating outside of New York; and (2) US tax reform.

Exhibit 1

We expect that NiMo's credit metrics will weaken in the forthcoming rate plan Projections based on Joint Proposal filed in September 2021



Key assumptions for forthcoming rate plan: (1) No timing differences, e.g. those pertaining to remittance of NYSERDA balances; (2) No additional covid-19 related costs of any future recovery of associated costs; (3) Deferred tax for rate year (RY) 1 assumed as the rate plan's tax expense for RY1; (4) other potential adjustments excluded. *Source: Moody's Investors Service*

Credit strengths

- » Low business risk transmission and distribution utility
- » Operates under a well-established and transparent regulatory framework with suite of cost recovery provisions
- » Increased cash flow visibility until June 2024 under proposed rate case settlement

Credit challenges

- » New rate plan will lead to weaker cash flow metrics than historically
- » Sizeable capital expenditure program set to continue
- » Some uncertainties surround state energy policy and path towards carbon transition

Rating outlook

The stable outlook reflects our expectation that (1) a rate settlement will be approved in the coming months by the regulator with only minor, if any, modifications; and (2) NiMo will maintain a financial profile over the primary term of this rate plan in line with guidance for the current rating.

Factors that could lead to an upgrade

- » Upward rating pressure is unlikely in the medium term, absent a material improvement in the credit supportiveness of NiMo's political and regulatory framework
- » However, NiMo's ratings could be upgraded if NiMo's CFO pre-WC/debt were to stay above 18% on a sustainable basis

Factors that could lead to a downgrade

» CFO pre-WC/debt appeared likely to fall persistently below 14%, excluding timing differences (e.g. remittance, to customers, of cash collected on behalf of the New York Stat Energy Research and Development Authority [NYSERDA])

Key indicators

Niagara Mohawk Power Corporation

US GAAP-based credit metrics are impacted by timing differences

	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	2022-proj.	2023-proj
CFO pre-WC + Interest / Interest	5.9x	5.0x	4.6x	4.7x	6.0x	6.0x	6.1x
CFO pre-WC / Debt	23.2%	20.6%	17.3%	17.5%	18.0%	15.5%	15.9%
CFO pre-WC – Dividends / Debt	23.1%	2.2%	17.3%	17.5%	11.2%	10.8%	13.9%
Debt / Book Capitalization	31.1%	35.7%	38.3%	36.0%	40.0%	41.4%	41.6%
NYSERDA over/(under) collections (\$ million)	142	141	-8	-28	-42	0	0

[1] All ratios based on 'Adjusted' financial data and incorporate Moody's global Standard Adjustments for Non-Financial Corporations. Moody's Projections (proj.) are Moody's opinion and do not represent the views of the issuer.

Source: Moody's Financial Metrics™

This publication does not announce a credit rating action. For any credit ratings referenced in this publication, please see the ratings tab on the issuer/entity page on www.moodys.com for the most updated credit rating action information and rating history.

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INFRASTRUCTURE AND PROJECT FINANCE

Profile

NiMo provides utility services to around 1.7 million electricity customers and 0.6 million gas customers in upstate New York in the US. NiMo is regulated by the New York Public Service Commission (NYPSC) and is ultimately owned by <u>National Grid plc</u> (National Grid, Baa2 stable) via intermediate holding companies <u>National Grid USA</u> (NG USA, Baa2 stable) and <u>National Grid North America</u> Inc. (Baa2 stable). NiMo is National Grid's largest operating company in the US and, with \$7.67 billion of rate base in 31 March 2021, represents c. 28% of their rate base in the country.

Exhibit 3

NiMo's operating area, which covers most of upstate New York



Exhibit 4 Rate case summary

Regulated Business	NiMo Electric	NiMo Gas			
Regulator	NYPSC				
Primary term of current rate plan	Apr-2018 to Mar-2021				
Allowed RoE	9.0%				
Latest achieved RoE (FY2021)	6.3%	7.2%			
Assumed equity capitalization	48.0%				
NG reported rate base at March 2021	\$6,206m	\$1,467m			

Source: National Grid

Source: National Grid

Exhibit 5

National Grid's simplified organization structure for its US business



(1) A sale has been agreed to <u>PPL Corporation</u> (Baa2 positive). We expect the transaction to close by the end of March 2022. (2) Ratings refer to long-term issuer/senior unsecured rating *Source: Moody's Investors Service*

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Niagara Mohawk Power Corporation: Update following downgrade to Baa1

Detailed credit considerations

Transparent regulatory framework with a suite of cost recovery mechanisms underpins stable and predictable cash flows

Assessment of the regulatory framework is a key credit consideration for NiMo as a T&D utility operating only in New York. We view the regulatory framework as one most transparent amongst US states with a suite of cost recovery mechanisms that allow NiMo to recover various costs on a timely basis. The most important features include a forward looking-test year (for most expenses and planned capital expenditure), full recovery of purchased electric and natural gas costs, electric and gas revenue decoupling mechanisms (RDMs) for most customers, and deferral accounting treatment for variations in certain expenses, such as pension and other post-employment benefits. All utilities within the state operate under multi-year rate plans, generally three years, which allow recovery of projected capital and operating costs commensurate with the spend.

These features have provided timely cost recovery that has underpinned, to-date, stable and predictable financial metrics. The RDMs, in particular, help to provide stable gross margins regardless of volumes sold to customers. These mechanisms were important in FY2021 when the coronavirus pandemic depressed consumptions volumes; and they will be increasingly important as the industry transitions to a smarter grid.

New Governor's influence over utility regulation remains to be seen

Since 2019, political rhetoric and state actions taken towards various New York utilities have created a more uncertain and challenging operating environment for the state's utilities. Various issues around customer service quality (e.g., gas moratoriums, performance in storms and other unforeseen outages) have resulted in a myriad of fines for the state's utilities, although not, to-date, for NiMo. Furthermore, incrementally severe measures have been taken, such as threatening utility franchise licenses and introducing legislation that would have enacted more punitive measures on a more consistent basis. Greater administration involvement has also been seen in rate cases, extending the time between a utility making a major rate case filing and settlement being reached and reducing the certainty of outcome. This challenging operating environment has adversely impacted our view of the credit supportiveness of the New York political and regulatory environment.

However, in August 2021 Governor Kathy Hochul was sworn into office, following the resignation of former Governor Cuomo. Todate, there have been few opportunities to observe the new administration's direct interaction with the NYPSC. With all the New York investor-owned utilities having agreed, or published proposed, rate case settlements in 2020-21 we expect no new major rate case filings until at least 2022. Consequently, we expect the first indication of any improvement in the political environment to be when the Climate Action Council's draft scoping plan for economy-wide decarbonization efforts, which is due to be published by the end of 2021 (see ESG considerations below).

Proposed rate case settlement enhances cash flow predictability, but we expect cash flow-based credit metrics to weaken

On 27 September 2021 NiMo filed a Joint Proposal with the NYPSC in respect of a three-year rate plan running from July 2021 to June 2024. It is envisioned that the NYPSC will approve the settlement in the coming months, with the new rate plan expected to apply from 1 January 2022. A true-up ('make-whole provision') will take account of the delay in implementing updated rates.

Joint Proposal included a number of credit supportive provisions and comparatively 'favourable' outcomes

The Joint Proposal expands the suite of reconciliation/deferral mechanisms, from an already strong base, enhancing cash flow predictability. Of the incremental measures, we believe that the improved ability and timeliness for storm cost recovery, through an enlarged allowance in base rates for major storms (\$30 million per annum compared to \$21 million per annum under the existing rate plan) coupled with the introduction of a new minor storm tracker (c. \$125 million over the primary term) and pre-staging cost mechanism, provides the greatest benefit. This reflects that New York is prone to severe weather events and the record number of 'minor' storms, along with the coronavirus pandemic, depressed NiMo's achieved ROE for its electric operations (which account for around 80% of the company's rate base) to 6.3% in FY2021, compared to an authorized RoE of 9.0%.

Whilst the New York regulatory framework is relatively stable and predictable, the NYPSC has tended to (1) offer a lower than average RoE (both equity thickness and authorized RoE - 48% and 8.8/9.0% respectively compared to over 53% and at least 9.6% for National Grid's electric and gas businesses in Massachusetts); and (2) follow a more mechanistic approach to setting these parameters, even when external pressures on operational cash flows have arisen, e.g. the US tax reform. This has resulted in cash flow-based credit metrics being depressed. However, the proposed settlement protects NiMo, unlike most peers in the state, from a further cut

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in authorized RoE (to 8.8% from the existing 9.0%). The maximum potential uplift to achieved returns from earning adjustment mechanisms (EAMs) has also increased, primarily due to the expansion of EAMs, to 9.86% for electricity and 9.26% for gas (9.61% and 9.1% respectively under the current rate plan), although we expect achieved financial rewards for EAMs to be broadly similar reflecting, in aggregate, challenging regulatory targets.

The majority of the approved revenue requirement increase in rate year 1 pertained to higher operations & maintenance (O&M) allowances for NiMo's electric business, due to (1) increases in vegetation management and storm resilience; and (2) IT investments to facilitate clean infrastructure.² The step-up in depreciation allowance for NiMo's gas business pertained to an acceleration of cost recovery for a portion of the cost associated with the company's leak prone pipe program (LPP).



Higher O&M was the largest contributor to the increase in NiMo's electric rates



Exhibit 7

Higher depreciation was the largest contributor to the increase in NiMo's gas rates Breakdown of the \$12.5 million gas revenue requirement increase for RY1



Breakdown of the \$49.4 million electric revenue requirement increase for RY1

Growth in regulatory assets combined with a reduction in regulatory liabilities will weaken cash flow-based credit metrics

The growth in regulatory assets combined with a reduction in regulatory liabilities will weaken NiMo's CFO pre-WC / debt compared to under its existing rate plan (see Exhibit 1). A key driver of the joint proposal is the desire to limit rate increases for customers. Rate increases will be kept below 2% per annum in each year of the rate plan for both NiMo's electricity and gas operations through the amortization of regulatory liabilities. This is despite NiMo's ongoing large capital program (\$3.3 billion, excluding IT investments vs. \$3.5 billon requested over the rate plan) designed to deploy smart meters (advanced metering infrastructure), build transmission projects to facilitate increased renewable generation, and replace LPP (around 50 miles per annum) to reduce methane emissions. The sizeable amortizations are shown in the exhibit below.

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Exhibit 8

Rate increases are kept below 2% per annum through the amortization of regulatory liabilities Final revenue increases by rate year by fuel

	Revenue requirement		Amortization of	Associated reduction	Final revenue increase	
	increase	Rate compression	deferred credits	in gross receipts tax	(post credits)	% change
Elec						
RY1	49.4		-26.5	-0.4	22.5	1.81%
RY2	95.6	-22.5	-10.3	-0.5	62.3	1.92%
RY3	109.8		-45.9	-0.6	63.3	1.94%
Cumulative RY	254.8	-22.5	-82.7	-1.4	148.1	
Gas						
RY1	12.5		-3.5	-0.1	9.0	1.45%
RY2	29.1	-6.5	-6.8	-0.2	15.7	1.94%
RY3	33.0		-16.4	-0.3	16.3	1.90%
Cumulative RY	74.6	-6.5	-26.7	-0.5	40.9	

Source: Joint proposal

Timing differences will impact reported metrics over the next rate plan

NiMo's reported metrics over the next rate plan will be impacted by the speed of remittance, to customers, of cash collected on behalf of the New York State Energy Research and Development Authority (NYSERDA). The cumulative balance at the start of this rate plan was \$315 million, primarily due to increases of over \$140 million in both FY2017 and FY2018 following all New York utilities being instructed to immediately stop any scheduled payments to NYSERDA (under the NYPSC's 2016 Order regarding the Clean Energy Fund), and has declined steadily to \$246 million at March 2021. Whilst the rate of remittance is highly uncertain, if the cumulative balance was returned in the full over the forthcoming rate plan, i.e. around \$75 million per annum over the period to June 2024, this would reduce reported CFO pre-WC/debt by over 1% per annum (our ratio guidance excludes timing differences pertaining to NYSERDA).

NiMo, along with National Grid's other utilities in New York, has reported a material increase in bad debt expense since the start of the coronavirus pandemic which has depressed achieved equity returns. Over FY2015-19 NiMo's bad debt expense averaged \$49 million per annum but this increased to \$67.9 million in FY2020 and then to \$118.5 million in FY2021 (2.2% and 3.6% of revenue in FY2020 and FY2021 respectively). We believe that the large increases reflect that the company has ceased, either voluntarily (from March to June 2020) or being subject to a moratorium (since June 2020, which could last until June 2022), residential service terminations. The regulator has initiated a proceeding for coronavirus cost recovery provisions for utilities in New York but a decision is still pending. NiMo continues to evaluate the impact on both customers and its financial performance in the intervening period.

Exhibit 9

National Grid's New York subsidiaries have seen the largest growth in bad debt expense since the start of the coronavirus pandemic Bad debt expense as a % of revenue for National Grid's US businesses by region



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Strong ring-fencing provisions mitigate concerns about high leverage at parent holding companies

Although there is significant additional debt located at NiMo's parent holding companies (around 24% of NGNA's consolidated debt at March 2021 we estimate), the strong regulatory ring-fencing provisions applicable to NiMo reduce the potential for debt to be pushed back down into NiMo, increasing its leverage. Notably, the explicit dividend payment restriction in case NiMo's debt-to-capitalization ratio exceeds 57% (which is only five percentage points above the regulatory assumption) provides, in our view, the most credit support at the current rating level. This provision compares favorably against other utilities outside of New York within the National Grid group (where debt-to-capitalization is almost twice the regulatory assumption).

Additional ring-fencing provisions imposed by the NYSPC for NiMo, which we view as credit supportive, include: (1) a 'special preferred share' provision that reduces the probability of bankruptcy in a distressed situation, and (2) the requirement for NiMo to hold an investment-grade rating.

ESG considerations

Environmental

NiMo's high environmental risk reflects its elevated exposure to physical climate risk given its geographical concentration in upstate New York, which exposes the company to material and extreme weather events. However, the resulting cash flow variability caused by storms should be less material over the next rate plan than in FY2021 because of the expansion and upsizing of the storm tracker in the proposed settlement. NiMo also has a limited amount of water and pollution exposure from contingent nuclear decommissioning liabilities, which add around 5% (c. \$178 million) to the company's reported debt at March 2021.

NiMo's Joint Proposal contains provisions that are intended to support New York State's ability to meet the goals of the Climate Leadership and Community Protection Act (CLCPA), which was signed into law in July 2019 and include reducing greenhouse gas emissions by 40% by 2030 and by 80% by 2050. NiMo's gas network, which represents around 20% of the company's rate base, is required to achieve a net-zero increase in billed gas usage compared to the sales forecast underlying the Joint Proposal. At the same time, non-infrastructure capex will increase from c. 1% of total gas capex in FY2021 to around 10% by FY2025 because of an increased focus on non-pipe alternatives and enhancing electrification strategies. The CLCPA created a Climate Action Council which is responsible for issue a draft scoping plan by the end of 2021 outlining strategies to attain emissions limit. We expect this to provide greater clarity on long-term utility planning; NiMo is conducting studies on how it should modify its business and depreciation rates to address issued raised by the CLCPA.

Social

Social risks are primarily related to health and safety, demographic and societal trends, as well as customer relations in the company's attempts to provide reliable and affordable service to customers and safe working conditions to employees.

Rate increases in the 2020-21 rate case settlements were generally limited to a maximum of 2% per annum for New York utilities in recognition of the financial impact of the coronavirus pandemic on customers, which may in turn cause rate pressure in future years. The CLCPA is likely to accentuate this. NiMo's electric capex will materially increase to facilitate the move to a smarter grid with more renewables (electric capex will rise from \$589 million in FY2021 to \$895 million in FY2025 under the joint proposal). In parallel, we expect that a material shortening in regulatory asset lives for gas assets (thereby accelerating cash flows) is likely to be required to meet greenhouse gas emissions reduction targets.

Governance

A key financial policy for NiMo is to maintain the capital structure established in the last rate order with any dividends paid to its parent, NG USA, offset by sufficient equity injections to maintain the target capital structure.

Liquidity analysis

Although NiMo has inadequate liquidity on a stand-alone basis, with limited unrestricted cash and cash equivalents (\$9.2 million at June 2021) and no revolving credit facilities in its own name, we regard the liquidity risk as manageable because the company benefits from group funding arrangements.

National Grid manages its financing and liquidity on a group basis, with a central finance committee setting the rules by which individual entities can raise capital. For the US subsidiaries, including NiMo, short-term liquidity requirements are managed via the group's regulated money pool. All of the regulated subsidiaries can lend and borrow from the pool; however, the unregulated holding

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companies — NG USA and NGNA — may only act as lenders. The interest rate for borrowing under the pool is determined by reference to the cost of meeting the group's funding needs, typically a mix of 30-day P-2 commercial paper (CP) and any other long- and shortterm funding sources.

To support the regulated money pool, the US parent holding companies have in place bilateral facilities totaling \$4.2 billion that they can draw on, with the vast majority (\$3.8 billion) not maturing before May 2024. NG plc, NGNA and NG USA are named borrowers for these facilities. All facilities were undrawn as of March 2021. NGNA also has two CP programs totaling \$8.7 billion; a \$4 billion US CP and a €4 billion Euro CP program. As of March 2021, c. \$0.5 billion were outstanding across the two commercial paper programs.

NiMo has remaining long-term debt authorization of \$2.3 billion over the period to June 2024. The company's next maturity is a \$300 million note due in November 2022.



Exhibit 10 NiMo has a well-spread debt maturity profile

Source: Company's reports and Moody's Investors Service

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Niagara Mohawk Power Corporation: Update following downgrade to Baa1

Rating methodology and scorecard factors

NiMo is rated in accordance with the <u>Regulated Electric and Gas Utilities</u> rating methodology, published in June 2017. The scorecardindicated outcome for NiMo is A3 based on historical metrics and on a forward-looking basis, one notch above the assigned Baa1 rating.

Exhibit 11 Rating Factors Grid Niagara Mohawk Power Corporation

	Curre	ent	Moody's 12-18 Month Forwar View As of October 2021 [3]		
Regulated Electric and Gas Utilities Industry Grid [1][2]	FY 31/3	/2021			
Factor 1 : Regulatory Framework (25%)	Measure	Score	Measure	Score	
a) Legislative and Judicial Underpinnings of the Regulatory Framework	A	A	A	А	
b) Consistency and Predictability of Regulation	A	A	A	А	
Factor 2 : Ability to Recover Costs and Earn Returns (25%)					
a) Timeliness of Recovery of Operating and Capital Costs	Aa	Aa	Aa	Aa	
b) Sufficiency of Rates and Returns	Baa	Baa	Baa	Baa	
Factor 3 : Diversification (10%)		-			
a) Market Position	Baa	Baa	Baa	Baa	
b) Generation and Fuel Diversity	N/A	N/A	N/A	N/A	
Factor 4 : Financial Strength (40%)					
a) CFO pre-WC + Interest / Interest (3 Year Avg)	5.1x	А	5.5x - 6.5x	Baa/A	
b) CFO pre-WC / Debt (3 Year Avg)	17.6%	Baa	14% - 16%	Baa	
c) CFO pre-WC – Dividends / Debt (3 Year Avg)	15.1%	Baa	10% - 14%	Baa	
d) Debt / Capitalization (3 Year Avg)	38.1%	Aa	40% - 42%	А	
Rating:					
Scorecard-indicated Outcome Before Notching Adjustment	-	A3		A3	
HoldCo Structural Subordination Notching	0	0	0	0	
a) Scorecard-indicated Outcome from Grid		A3		A3	
b) Actual Rating Assigned				Baa1	

[1] All ratios are based on 'Adjusted' financial data and incorporate Moody's Global Standard Adjustments for Non-Financial Corporations. [2] As of 31/03/2021. [3] This represents Moody's forward view, not the view of the issuer, and unless noted in the text, does not incorporate significant acquisitions and divestitures. *Source: Moody's Financial Metrics*TM

9 1 November 2021

Niagara Mohawk Power Corporation: Update following downgrade to Baa1

Ratings

Exhibit 12	
Category	Moody's Rating
NIAGARA MOHAWK POWER CORPORATION	
Outlook	Stable
Issuer Rating	Baa1
Senior Unsecured	Baa1
Pref. Stock	Baa3
ULT PARENT: NATIONAL GRID PLC	
Outlook	Stable
Issuer Rating	Baa2
Senior Unsecured	Baa2
Commercial Paper	P-2
Other Short Term	(P)P-2
PARENT: NATIONAL GRID NORTH AMERICA INC.	
Outlook	Stable
Issuer Rating	Baa2
Senior Unsecured	Baa2
Commercial Paper	P-2
ST Issuer Rating	P-2
PARENT: NATIONAL GRID USA	
Outlook	Stable
Issuer Rating	Baa2
Source: Moody's Investors Service	

Appendix

Exhibit 13 Peer comparison table Niagara Mohawk Power Corporation

Niagara Mohawk Power Corporation		Consolidated Edison Company of New York, Inc.			New York State Electric and Gas Corporation		Rochester Gas & Electric Corporation			KeySpan Gas East Corporation				
E	Baa1 Stable		E	aa1 Stable		Baa1 Stable		Baa1 Stable			Baa1 Stable			
FYE	FYE	FYE	FYE	FYE	LTM	FYE	FYE	LTM	FYE	FYE	LTM	FYE	FYE	FYE
Mar-19	Mar-20	Mar-21	Dec-19	Dec-20	Jun-21	Dec-19	Dec-20	Jun-21	Dec-19	Dec-20	Jun-21	Mar-19	Mar-20	Mar-21
3,412	3,147	3,286	10,821	10,647	11,139	1,548	1,564	1,664	893	872	894	1,260	1,115	1,119
831	847	763	3,851	3,979	4,041	359	392	398	304	291	276	351	353	333
13,178	13,363	14,372	46,557	50,967	51,515	5,926	6,451	6,633	4,049	4,368	4,417	5,552	5,878	6,282
3,567	3,434	4,025	17,817	20,710	20,900	1,848	1,916	1,980	1,205	1,387	1,387	1,285	1,456	1,561
3,551	3,425	3,976	16,884	19,643	19,915	1,848	1,916	1,980	1,204	1,387	1,370	1,239	1,450	1,555
4.6x	4.7x	6.0x	4.2x	3.9x	4.0x	4.7x	3.2x	3.1x	4.3x	4.0x	4.2x	4.1x	5.1x	4.4x
17.3%	17.5%	18.0%	13.9%	11.0%	11.2%	17.3%	9.2%	6.9%	23.4%	13.8%	12.2%	16.1%	19.8%	16.4%
17.3%	17.5%	11.2%	8.8%	6.2%	6.5%	11.9%	4.0%	1.8%	23.4%	10.2%	8.6%	16.1%	19.8%	16.4%
38.3%	36.0%	40.0%	47.1%	49.3%	48.2%	47.9%	43.5%	41.9%	46.0%	46.9%	45.8%	31.4%	32.5%	32.9%
	Niagara Mohi FYE Mar-19 3,412 831 13,178 3,567 3,551 4.6x 17.3% 17.3% 38.3%	Niagara Mohawk Power Col Baa1 Stable FYE Mar-19 Mar-20 3,412 3,147 831 847 13,178 13,363 3,561 3,425 4.6x 4.7x 17.3% 17.5% 38.3% 36.0%	Niagara Mohawk Power Corporation FYE FYE FYE FYE FYE Mar-19 Mar-20 Mar-21 3,412 3,147 3,286 831 847 763 13,178 13,363 14,372 3,567 3,434 4,025 3,551 3,425 3,976 4.6x 4.7x 6.0x 17.3% 17.5% 18.0% 17.3% 36.0% 40.0%	Consolidated for conso	Niagara Mohawk Power Corporation York, Inc. Consolidated Edison Compy York, Inc. FYE FYE <th< td=""><td>Consolidated Edison Company of New York, Inc. Consolidated Edison Company of New York, Inc. FYE LTM Mar-19 Mar-20 Mar-21 Dec-19 Dec-20 Jun-21 3,412 3,147 3,285 3,851 3,979 4,041 13,178 13,363 14,372 46,557 50,967 51,515 3,567 3,434 4,025 17,817 20,700 20,900 3,551 3,425 3,976 66,84 19,643 19,915 4,65x 4,7x 6,60x 4,2x 3,9x 4,0x 17.3% 17.5% 18.0% 13.9% 11.0% 11.2% 17.3% 36.0% 40.0% 47.1% 49.3% 48.2%</td><td>Niagara Mohawk Power Corporation Consolidated Edison Company of New York St York, Inc. New York St York, Inc. Bas1 Stable Bas1 Stable Bas1 Stable B FYE FYE FYE FYE LTM FYE Mar-19 Mar-20 Mar-21 Dec-19 Dec-20 Jun-21 Dec-19 3,412 3,147 3,286 10,821 10,647 11,139 1,548 831 847 763 3,851 3,979 4,041 3591 13,178 13,363 14,372 46,557 50,967 51,515 5,926 3,551 3,425 3,976 16,884 19,643 19,915 1,848 3,551 3,425 3,976 6,824 19,915 1,848 4,6x 4,7x 6,0x 4,2x 3,9x 4,0x 1,47x 17.3% 17.5% 18.0% 13.9% 11.0% 11.2% 17.3% 38.3% 36.0% 40.0% 47.1% 49.3% 48.2% 47.9%</td><td>Nagara Mohawk Power Corporation Consolidated Edison Company of New York State Electric a Corporation New York State Electric a Corporation Baa1 Stable Baa1 Stable New York State Electric a Corporation FYE FYE FYE FYE FYE ETE LTM FYE FYE FYE PFE Dec-19 Dec-20 Jun-21 Dec-19 Dec-20 3,412 3,147 3,286 10,821 10,647 11,139 1,548 1,564 831 847 763 3,851 3,979 4,041 359 3920 13,178 13,363 14,372 46,557 50,967 51,515 5,926 6,451 3,551 3,434 4,025 17,817 20,710 20,900 1,848 1,916 3,551 3,425 3,976 16,84 19,945 1,848 1,916 3,551 3,425 3,976 11,2% 3,9x 4,0x 3,2x 17,3% 17,5% 18,0%</td><td>Niagara Mohawk Power Corporation Consolidated Edison Company of Neu New York State Electric and Gas Corporation Bast Stable Bast Stable Bast Stable Corporation Corporation FYE <</td><td>Niagara Mohawk Power Cerporation Consolidated Edison Company of New York State Editaria and Same Stable New York State Editaria and Same Stable Rechester Gas Corporation Bast Stable Bast Stable Bast Stable Bast Stable PYE FYE FYE</td><td>New York State Electic and Gas Rochester Gas & Electic Cr New York State Electic and Gas Rochester Gas & Electic Cr Baat Stable Baat Stable Rochester Gas & Electic Cr PYE Stable Rochester Gas & Electic Cr Mar-19 Mar-29 PYE FYE LTM PEC C Mar-19 Mar-20 Mar-21 Dec-19 Dec-20 Jun-21 Dec-20 <t< td=""><td>Niagara Mohawk Power Cerroration Consolidated Edison Company of New York State Electric and Gas A Electri</td><td>Nagara Mohawk Power Corboration New York State Electric and Gas Corporation Rochester Gas & Electric Corporation KeySpan Baat Stable Baat Stable Rochester Gas & Electric Corporation Rochester Gas & Electric Corporation KeySpan PTE Stable Baat Stable Rochester Gas & Electric Corporation KeySpan Mar-19 Mar-20 PTE FYE LTM FYE Corporation FYE Corporation FYE Corporation FYE Corporation FYE FYE FYE FYE FYE LTM FYE FYE Corporation Gas 50 Mar-20 Mar-21 Dec-20 Jun-21 Mar-19 Add 10,627 3,361 3,361 3,361 3,361 3,361 3,361</td><td>Nagara Mohawk Power Corporation Rochester Gas & Electric and Gas Rochester Gas & Electric Corporation Rochester Gas & Electric Corporation</td></t<></td></th<>	Consolidated Edison Company of New York, Inc. Consolidated Edison Company of New York, Inc. FYE LTM Mar-19 Mar-20 Mar-21 Dec-19 Dec-20 Jun-21 3,412 3,147 3,285 3,851 3,979 4,041 13,178 13,363 14,372 46,557 50,967 51,515 3,567 3,434 4,025 17,817 20,700 20,900 3,551 3,425 3,976 66,84 19,643 19,915 4,65x 4,7x 6,60x 4,2x 3,9x 4,0x 17.3% 17.5% 18.0% 13.9% 11.0% 11.2% 17.3% 36.0% 40.0% 47.1% 49.3% 48.2%	Niagara Mohawk Power Corporation Consolidated Edison Company of New York St York, Inc. New York St York, Inc. 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All metrics are based on 'Adjusted' financial data and incorporate Moody's Global Standard Adjustments for Non-Financial Corporations. Source: Moody's Financial Metrics™

Exhibit 14

Moody's-adjusted CFO pre-WC breakdown Niagara Mohawk Power Corporation

	FYE	FYE	FYE	FYE	FYE
(in USD million)	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21
As Reported CFO Pre-W/C	661	608	580	547	645
Leases	4	3	6	48	53
Hybrid Securities	(1)	(1)	(1)	(1)	(1)
Net Income	(1)	(1)	(1)	(1)	(1)
Non-Standard Adjustments	29	4	31	6	29
Moody's Adjusted CFO Pre-W/C	694	615	617	600	726

Source: Moody's Financial Metrics™

Exhibit 15

Moody's-adjusted debt breakdown

Ν	liagara	Moł	nawk	Power	Corporation
---	---------	-----	------	-------	-------------

	FYE	FYE	FYE	FYE	FYE
(in USD million)	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21
As Reported Total Debt	2,762	2,764	3,256	3,002	3,609
Leases	32	27	104	230	223
Hybrid Securities	14	14	14	14	14
Non-Standard Public Adjustments	186	186	192	187	178
Moody's Adjusted Total Debt	2,994	2,991	3,567	3,434	4,025

The vast majority of Non-Standard Public Adjustments pertain to nuclear contingencies - disposal of nuclear fuel.

Source: Moody's Financial Metrics™

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Exhibit 16

Select historical Moody's-adjusted financial data Niagara Mohawk Power Corporation

	FYE	FYE	FYE	FYE	FYE
(in USD million)	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21
INCOME STATEMENT					
Revenue	2,849	3,040	3,412	3,147	3,286
EBITDA	713	785	831	847	763
EBITDA margin %	25.0%	25.8%	24.4%	26.9%	23.2%
EBIT	458	501	536	508	397
EBIT margin %	16.1%	16.5%	15.7%	16.1%	12.1%
Interest Expense	143	155	173	161	146
Net income	197	232	281	264	191
Operating Expenses	1,042	1,076	1,278	1,266	1,461
BALANCE SHEET					
Net Property Plant and Equipment	8,642	9,076	9,611	10,271	10,829
Total Assets	12,598	12,400	13,178	13,363	14,372
Total Debt	2,994	2,991	3,567	3,434	4,025
Cash & Cash Equivalents	5	5	16	9	49
Net Debt	2,989	2,986	3,551	3,425	3,976
Total Liabilities	7,864	7,950	8,412	8,324	9,391
CASH FLOW					
Funds from Operations (FFO)	437	446	667	655	590
Cash Flow From Operations (CFO)	847	767	642	601	737
Dividends	1	551	1	1	276
Retained Cash Flow (RCF)	437	(104)	666	654	314
Capital Expenditures	(630)	(705)	(725)	(861)	(900)
Free Cash Flow (FCF)	217	(489)	(84)	(261)	(438)
INTEREST COVERAGE					
(CFO Pre-W/C + Interest) / Interest Expense	5.9x	5.0x	4.6x	4.7x	6.0x
LEVERAGE					
(CFO Pre-W/C) / Debt	23.2%	20.6%	17.3%	17.5%	18.0%
(CFO Pre-W/C - Dividends) / Debt	23.1%	2.2%	17.3%	17.5%	11.2%
Debt / Book Capitalization	31.1%	35.7%	38.3%	36.0%	40.0%

All metrics are based on 'Adjusted' financial data and incorporate Moody's Global Standard Adjustments for Non-Financial Corporations. Source: Moody's Financial Metrics™

Niagara Mohawk Power Corporation: Update following downgrade to Baa1

Endnotes

- 1 Available at https://documents.dps.ny.gov/public/Common/ViewDoc.aspx?DocRefId={03E0246C-C385-4591-8CC5-A37DCD1152F5}
- 2 The service company [ServCo] of the immediate parent of National Grid's US regulated businesses, NG USA, undertakes the capex but the US regulated businesses, including NiMo, are given an opex allowance to cover NG USA's associated depreciation and provide a return on this invested capital).

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Niagara Mohawk Power Corporation: Update following downgrade to Baa1

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REPORT NUMBER 1306955



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Niagara Mohawk Power Corporation: Update following downgrade to Baa1

EXHIBIT NO. NMPC-202

DESCRIPTION OF ADDITIONAL REQUIRED PERMITS

FOR SPC PROJECT SEPARATE FROM ARTICLE VII¹

1. New York State Department of Environmental Conservation – SPDES General Permit for Stormwater Discharges from Construction Activities

Project construction activities will result in soil disturbances greater than one acre. Accordingly, the Project will require coverage under a State Pollutant Discharge Elimination System ("SPDES") General Permit issued in accordance with New York State Environmental Conservation Law. Applicant required to develop a Stormwater Pollution Prevention Plan ("SWPPP") in accordance with the requirements of the SPDES General Permit. One or more SWPPPs is anticipated by Applicant.

2. New York State Department of Transportation – Utility Work Permit

The New York State Department of Transportation ("NYSDOT") requires that a Utility Work Permit application be submitted to install utilities within or adjacent to a state highway rightof-way ("ROW"). Various parts of the Project would cross or be adjacent to New York State highways. Following New York State Public Service Commission ("NYPSC") approval of the final design as part of the Environmental Management and Construction Plan, the Applicant would work to obtain highway work permits from NYSDOT, pursuant to 17 NYCRR § 131, for the construction and operation of the Project within or adjacent to New York State highway ROWs, subject to the NYPSC's continuing jurisdiction.

3. New York State Department of State – Coastal Consistency Certificate

Under the federal Coastal Zone Management Act, the New York State Department of State ("NYSDOS") must issue a Coastal Consistency Certificate prior to any federal agency approval of any action for projects that will occur within and/or will directly affect a state's coastal area. The proposed Haverstock Substation and a portion of the Moses-Willis 1 & 2 lines north of New York State Route 37 are within the New York State Coastal Zone Boundary. As such, the Applicant will request this certification from NYSDOS in coordination with the federal permits it will be seeking as described below.

4. New York State Historic Preservation Office/New York Office of Parks, Recreation and Historic Preservation – Historic and Archaeological Clearance

In consultation with the New York State Historic Preservation Office, the Applicant will address the requirements of Section 106 of the National Historic Preservation Act and Section

¹ The permits described in this exhibit are the "Other Pending Filings" indicated by Applicant (collective term for the New York Power Authority ("NYPA") and Niagara Mohawk Power Corporation d/b/a National Grid) in Exhibit 8 of Applicant's Article VII application in Case 21-T-0340, *Application of New York Power Authority and Niagara Mohawk Power Corporation d/b/a National Grid for a Certificate of Environmental Compatibility and Public Need for the Rebuild of Approximately 100 Linear Miles of Existing 230 kV to Either 230 kV or 345 kV along with Associated Substation Upgrades Along the Existing NYPA Moses-Willis 1&2, Willis-Patnode, Willis-Ryan, and National Grid's Adirondack-Porter 11, 12 and 13 Lines in Clinton, Franklin, St. Lawrence, Lewis, and Oneida Counties, New York (NYPSC June 15, 2021).*

14.09 of the New York State Historic Preservation Act of 1980, including applicable consultation with Native American Nations. Through completion of archaeological and architectural investigations and appropriate mitigation, if any, the Applicant anticipates the applicable historic and archaeological resource requirements will be satisfied and agency-to-agency consultation requirements of Section 106 will be completed.

5. U.S. Army Corps of Engineers – Section 404 and Section 10 Permits

As described in the Applicant's Article VII exhibits, the Project would impact wetlands and streams that are regulated by the U.S. Army Corps of Engineers ("USACE"). Based on past experience, the temporary and permanent wetland and stream disturbance associated with construction activities of the Project could potentially be authorized by the USACE under Nationwide Permit ("NWP") No. 57 – Electric Utility Line and Telecommunications Activities. The Applicant is currently coordinating with the USACE regarding the applicability of NWP No. 57. Facility siting and the jurisdictional determination of specific wetlands will determine the ability to qualify for permitting under an NWP. If the Project does not qualify to use NWP No. 57, the Applicant will apply for an Individual Section 404 permit.

As required by Section 10 of the Rivers and Harbors Act (33 U.S.C. § 401), a Section 10 permit is required prior to conducting any work in or over navigable waters of the United States, or conducting work that affects the course, location, condition, or capacity of such waters, from the USACE. The Project crosses eight navigable waters: the Moses-Willis-Patnode component crosses the Grasse River, Raquette River, St. Lawrence River, and the St. Regis River; and the Adirondack-Porter component crosses the Black River, Independence River, Moose River, and Black River Feeder Canal. Further discussion regarding potential impacts to streams and rivers crossed by the Project is provided in Applicant's Article VII exhibits. The Applicant does not propose in-stream construction in any navigable water. However, as part of either the NWP No. 57 Pre-Construction Notification or the Individual Permit application, the Applicant would file a Section 10 application for the overhead wire crossing of the above navigable waters.

Before USACE's issuance of its permits, Applicant is required to obtain a Water Quality Certificate under Section 401 of the Clean Water Act from the designated state agency, in this case the NYPSC.

6. U.S. Army Corps of Engineers - Endangered Species Act, Section 7 Consultation

As part of the USACE permitting process, and in accordance with the Endangered Species Act and the Migratory Bird Treaty Act, as applicable, the Applicant will support a Section 7 consultation with respect to potential impacts to federally listed threatened, endangered and other protected species and habitats, in which the USACE, as the lead federal agency, will consult with the U.S. Fish and Wildlife Service.

7. Federal Aviation Administration – Notice of Proposed Construction or Alteration

The Applicant would be required to submit a Notice of Proposed Construction or Alteration to the Federal Aviation Administration prior to commencement of construction activities to identify location and heights of new pole structures.

8. Applicant Submissions to New York State Public Service Commission

In addition to the current Application for a Certificate of Environmental Compatibility and Public Need, Applicant will be submitting an application to the NYPSC to amend its Certificate of Environmental Compatibility and Public Need issued in Case 18-T-0207 for its Moses-Adirondack Smart Path Reliability Project (also referred to in the NYPA Panel Testimony as the "MA 1&2 upgrade" or "Smart Path").