UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

Potomac Economics, Ltd.

Docket No. EL17-62-000

v.

PJM Interconnection, LLC

MOTION TO INTERVENE AND COMMENTS OF THE NEW YORK INDEPENDENT SYSTEM OPERATOR, INC.

Pursuant to Rules 211 and 214 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("Commission"), 18 C.F.R. §§ 385.211 and 385.214 (2016), the New York Independent System Operator, Inc. ("NYISO") hereby moves to intervene in this proceeding and submits comments on the Complaint filed by Potomac Economics, Ltd. ("Potomac Economics") alleging that certain provisions of PJM Interconnection, LLC's ("PJM's") tariffs,¹ which Potomac Economics describes as imposing a "Pseudo-Tie Requirement," are unjust and unreasonable.

The NYISO agrees with many of the concerns Potomac Economics alleges in its Complaint. The concerns Potomac Economics raises are consistent with concerns that NYISO raised in its March 31, 2017 *Motion to Intervene One Day Out-of-Time and Protest* ("NYISO Protest") of PJM's March 9 filing proposing "External Capacity Enhancements" to PJM's tariffs.³ To avoid the need to restate arguments the NYISO has already presented to the

¹ For convenience, throughout this pleading PJM's Open Access Transmission Tariff ("PJM OATT") and its Reliability Assurance Agreement Among Load-Serving Entities in the PJM Region ("RAA") are referred to collectively as PJM's "tariffs."

² See Potomac Economics Complaint at 5, fn. 6.

³ PJM Interconnection, L.L.C., *External Capacity Enhancements*, Docket No. ER17-1138-000 (March 9, 2017).

Commission in its Protest, the NYISO Protest is included as Attachment A to this filing and the NYISO hereby incorporates its Protest by reference into these Comments.

Consistent with the relief that Potomac Economics requests on page 49 of its Complaint, the Commission should (a) determine that the Pseudo-Tie Requirements in the PJM tariffs⁴ are unjust and unreasonable, (b) require PJM to submit tariff rules that do not mandate the use of pseudo-ties to achieve interregional capacity sales and give PJM flexibility to accommodate regional differences at its borders, and (c) instruct PJM to work cooperatively with the NYISO and other external control area operators to develop and file mutually acceptable capacity delivery procedures and capacity import limits.

I. COMMUNICATIONS

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⁴ The Pseudo-Tie Requirements include the PJM tariff requirements that generators located outside of PJM that seek to become PJM Capacity Performance Resources must have confirmed long-term firm transmission service and must not be subject to NERC tagging as an interchange transaction in order to be excepted from PJM's Capacity Import Limit.

⁵ The NYISO respectfully requests waiver of the requirements of Rule 18 C.F.R. § 385.203(b)(3) (2015) to permit service on more than two persons.

II. MOTION TO INTERVENE

The NYISO is the independent, not-for-profit entity responsible for administering Commission-jurisdictional markets for electricity and capacity, for providing open-access transmission service, and for maintaining electric reliability in the New York Control Area ("NYCA"). The NYCA and PJM are neighboring regions. There is substantial interregional trading between them, including exports and imports of capacity. Changes to one region's capacity market rules can have substantial impacts on market outcomes and system operations in the other.

Allowing a generator that is directly interconnected to the NYCA to be committed and dispatched by PJM in accordance with PJM's pseudo-tie rules could threaten the reliable operation of the NYCA and disrupt the NYISO-administered markets. The NYISO, therefore, has a direct and substantial interest in the outcome of this proceeding that cannot be adequately represented by any other party. It is appropriate and in the public interest that the NYISO be permitted to intervene herein and to participate with full rights as a party. The NYISO respectfully requests that the Commission grant its motion to intervene in this proceeding.

III. DOCUMENTS SUBMITTED

The NYISO submits the following documents:

- 1. This Motion to Intervene and Comments of the New York Independent System Operator, Inc.; and
- 2. A copy of the *Motion to Intervene One Day Out-of-Time and Protest* that NYISO submitted on March 31, 2017 in FERC Docket No. ER17-1138 (Attachment A).

IV. COMMENTS

A. Potomac Economics' Complaint Demonstrates that PJM's Pseudo-Tie Requirement Decreases Efficiency and Increases Costs Incurred to Serve Load

The concerns that Potomac Economics raises in Section II.B (on pages 18-22) of its

Complaint explain why permitting PJM to commit and dispatch resources that are electrically interconnected with a neighboring Balancing Authority Area will not produce an economically efficient dispatch and will tend to degrade reliability in the Balancing Authority Area to which the pseudo-tied generator is directly interconnected. The NYISO has many of the same concerns Potomac Economics does. Potomac Economics' discussion of market efficiency concerns is consistent with market efficiency concerns NYISO raised on pages 34-36 of the attached NYISO Protest.

On pages 22-26 and 28-29 of the Potomac Complaint and in paragraphs 12-27 of Dr. David Patton's affidavit,⁶ Potomac Economics uses Midcontinent ISO ("MISO") data to demonstrate that PJM's operation of pseudo-tied generators that are directly interconnected to the MISO has caused commitment and dispatch inefficiencies on the transmission system that the MISO operates. The data Potomac Economics provides addresses the operation of twelve generators that are directly connected to the transmission system that the MISO secures, but are committed and dispatched by PJM. Potomac Economics' findings validate the NYISO's concerns. Potomac Economics found that real-time transmission congestion rose substantially on new Market-to Market constraints that were affected by the operation of the pseudo-tied resources.⁷

⁶ Dr. David Patton's affidavit is Attachment I to the Potomac Complaint.

⁷ Complaint at 24-25.

The Complaint also confirms NYISO's determination that Market-to-Market

Coordination is not an adequate substitute for NYISO retaining dispatch control of NYCA

generators.⁸ It confirms NYISO's expectation that accommodating PJM's commitment and
dispatch of pseudo-tied resources will decrease the efficiency of the NYISO's market solutions
and increase total production costs incurred to serve NYISO's customers. The Complaint
explains that MISO is forced to commit and dispatch the generators that remain under its
operational control less efficiently because MISO does not know how PJM will dispatch its
pseudo-tied generators.⁹

On page 28 of its Complaint Potomac Economics raises a concern that pseudo-tying a resource to PJM might enable a generation owner to mothball or retire a Generator that is located in New York without being required to comply with NYISO's Generator Deactivation Process.¹⁰ Any agreement permitting a resource to become pseudo-tied to PJM would need to include rules addressing the deactivation of pseudo-tied resources in its "native" Balancing Authority Area.

B. Potomac Economics' Proposed Solution Provides an Appropriate Starting Point for Developing Mutually Acceptable Rules to Govern Cross-Border Capacity Sales

The solution that Potomac Economics proposes on pages 35-46 of its Complaint presents a good starting point for discussions between neighboring Balancing Authorities and PJM to

⁸ Complaint at 21-22.

⁹ See Complaint at 24 ("Inefficiencies caused by MISO committing and dispatching other units inefficiently because it does not know how the pseudo-tied units will be dispatched"); Complaint at 25-26 ("These analyses represent only some of the potential costs and inefficiencies caused by the pseudo-ties. They do not include ... the effects of conservative actions and parameters used by MISO operators to account for the uncertainties regarding the commitment and dispatch levels of the pseudo-tied resources, ... and the inefficient commitment of ... MISO generators because the pseudo-tied resources are missing from [MISO's] day-ahead market"); Complaint at 29 ("There are many other days in which we understand that MISO has operated more conservatively, increasing the cost to MISO's customers, to account for its lack of commitment and dispatch control of the pseudo-tied units and the uncertainty regarding their commitment and dispatch by PJM.").

¹⁰ See FERC Docket No. ER16-120.

develop a mutually acceptable set of rules to govern cross-border capacity sales. While many aspects of Potomac Economics' proposed solution could be applied at the NYISO's border with PJM, there are a few provisions that are not consistent with the NYISO's market rules. For example, the NYISO is not prepared to permit a PJM Generation Capacity Resource that is interconnected to the NYCA to schedule an export to PJM "20 minutes prior to real time if the resource is online." Instead, the PJM Generation Capacity Resource would be required to comply with the NYISO's rules for scheduling external transactions as is the case for Generators in New York participating in the ISO-New England ("ISO-NE") Forward Capacity Markets. The NYISO's rules will permit PJM to receive the full output of its Generation Capacity Resource whenever that resource is online, as long as it is scheduled consistent with the NYISO's rules.

Consistent with the relief Potomac Economics requested in its Complaint, the NYISO is prepared to work cooperatively with PJM over a reasonable time horizon to develop and file mutually acceptable cross-border capacity delivery procedures and capacity import limits.

V. SERVICE

The NYISO will send an electronic link to this filing to the official representative of each party to this proceeding, to each of its customers, to each participant on its stakeholder committees, to the New York Public Service Commission, and to the New Jersey Board of Public Utilities. In addition, the complete filing will be posted on the NYISO's website at www.nyiso.com.

¹¹ Complaint at 39.

¹² See Section IV.B.1. of the NYISO Protest ("Under the ISO-NE rules, external capacity resources remain available in the native region's commitment and dispatch and are permitted to supply energy to their native region if it otherwise is not required by ISO-NE.").

VI. CONCLUSION

Wherefore, the NYISO respectfully requests that the Commission grant its intervention in the above-captioned proceeding. Consistent with the relief that Potomac Economics requests on page 49 of its Complaint, the NYISO further respectfully requests that the Commission

- (a) determine that the Pseudo-Tie Requirements in the PJM tariffs¹³ are unjust and unreasonable,
- (b) require PJM to submit tariff rules that do not mandate the use of pseudo-ties to achieve interregional capacity sales and that give PJM flexibility to accommodate regional differences at its borders, and (c) instruct PJM to work cooperatively with the NYISO and other external control area operators to develop and file mutually acceptable capacity delivery procedures and capacity import limits.

At minimum, the Commission should require PJM to make explicit in its tariff that pseudo-tie arrangements can only occur if the native Balancing Authority agrees and elects to execute a pseudo-tie agreement with PJM and the applicable generator. This requirement would codify in PJM's tariff the Commission's finding in prior proceedings.¹⁴

Respectfully submitted,

/s/ Alex M. Schnell

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New York Independent System Operator, Inc.

¹³ The Pseudo-Tie Requirements include the PJM tariff requirements that generators located outside of PJM that seek to become PJM Capacity Performance Resources must have confirmed longterm firm transmission service and must not be subject to NERC tagging as an interchange transaction in order to be excepted from PJM's Capacity Import Limit.

¹⁴ See PJM Interconnection, L.L.C., 151 FERC ¶ 61,208 at PP 96-97 (2015), order on reh'g, 155 FERC ¶ 61,157 (2016).

Dated: May 8, 2017

cc: Michael Bardee

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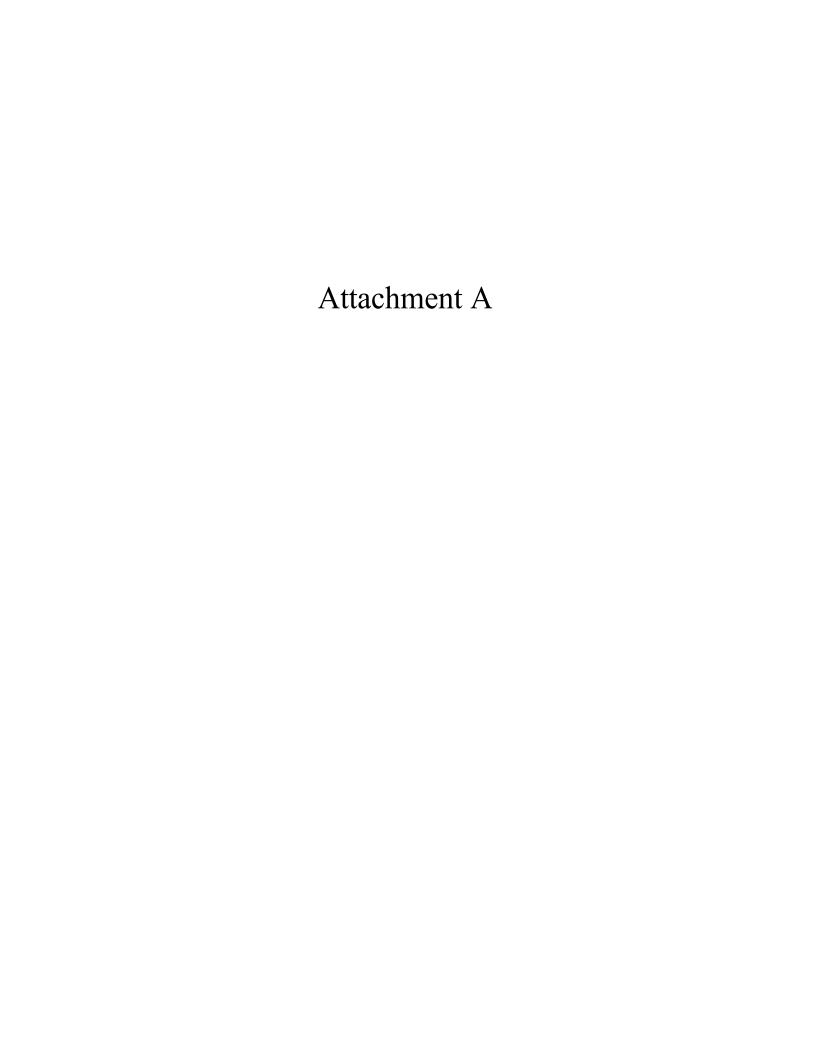
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UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

PJM Interconnection, LLC

Docket No. ER17-1138-000

MOTION TO INTERVENE ONE DAY OUT OF TIME AND PROTEST OF THE NEW YORK INDEPENDENT SYSTEM OPERATOR, INC.

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Pursuant to Rules 211, 212, and 214 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission the "Commission"), 18 C.F.R. §§ 385.211 and 385.214 (2016), the New York Independent System Operator, Inc. ("NYISO") hereby moves to intervene and to protest in this proceeding. This filing addresses the PJM Interconnection, LLC's ("PJM") March 9 filing (the "PJM Filing")¹ proposing "External Capacity Enhancements" to PJM's Open Access Transmission Tariff ("PJM OATT") and Reliability Assurance Agreement Among Load-Serving Entities in the PJM Region ("RAA").²

The PJM Filing proposes detailed new rules that build upon existing tariff requirements that resources located outside of PJM that seek to become "Capacity Performance Resources" must have confirmed long-term firm transmission service and must not be subject to NERC tagging as an interchange transaction in order to be excepted from PJM's "Capacity Import Limit." The specified transmission service requirements to obtain an exception from PJM's

¹ PJM Interconnection, L.L.C., *External Capacity Enhancements*, Docket No. ER17-1138-000 (March 9, 2017).

² For convenience, throughout this pleading the PJM OATT and RAA will be referred to collectively as PJM's "tariff."

³ "Capacity Performance Resource" is defined in Article 1 of the RAA and Attachment DD of the PJM OATT.

⁴ "Capacity Import Limit" is defined in Article 1 of the PJM RAA. The definition also prescribes the criteria that resources external to PJM must satisfy in order to obtain an exception from the Capacity Import Limit.

Capacity Import Limit were first accepted by the Commission in its "June 2015 Order." The instant PJM Filing proposes more detailed rules to address specific "modeling, congestion management, planning, and operational concerns................... "6 that PJM has identified since 2015.

The PJM Filing is unjust and unreasonable as applied to New York⁷ and should not be accepted in its current form.⁸ PJM's proposed tariff revisions would impose unreasonable obligations on the New York Control Area ("NYCA"). It would likely cause adverse reliability and market impacts in the NYCA and exacerbate interregional seams. The proposed tariff revisions also conflict with the established interregional agreement governing the NYISO/PJM interface and with the NYISO's tariffs.⁹

As discussed in detail below, PJM's filing is incomplete because it does not include the *pro forma* pseudo-tie agreement that PJM has been developing with its stakeholders and other necessary implementation rules are either missing or unclear. It is not possible for the Commission to determine if allowing PJM's proposed tariff rules to become effective would be

 $^{^5}$ See PJM Filing at n. 8; citing PJM Interconnection, L.L.C., 151 FERC \P 61,208, at PP 96-97 (2015); order on reh'g, 155 FERC \P 61,157, at P 44 (2016).

⁶ PJM Filing at 2.

⁷ The NYISO takes no position concerning the justness and reasonableness of the PJM Filing's proposed revisions as applied to other Balancing Authority Areas.

⁸ If the Commission has not regained a quorum before the expiration of the statutory sixty day notice period, the Commission's staff should exercise its delegated authority, *see* 18 C.F.R. §375.307(ii) and (v), to either reject the PJM Filing on the ground that its incompleteness and other flaws make it "patently deficient" or issue a deficiency letter that would require PJM to submit a complete filing and reset the notice period.

⁹ PJM's proposed tariff revisions in this proceeding are fundamentally different from those that the Commission accepted in *ISO New England, Inc. and New England Power Pool Participants Committee, et, al.*, 157 FERC ¶ 61,025 (2016). In the *ISO New England* case, the Commission declined to delay the implementation of proposed tariff revisions that the NYISO did not contend were unjust and unreasonable, but that triggered an acknowledged inefficiency in the NYISO's own market design. *See* 157 FERC ¶ 61,025 at P 31. By contrast, in this proceeding PJM's proposed tariff revisions are unjust and unreasonable. There is no underlying flaw in the NYISO's rules or markets.

just and reasonable because there are significant and substantive gaps in the implementation rules that PJM will apply based on the new obligations it is requesting permission to impose.

The tariff revisions that are included in the PJM Filing were developed without input from the NYISO. PJM's proposed pseudo-tie rules are not workable for New York. The NYISO does not believe that it would be possible for it to execute a pseudo-tie agreement under the terms and conditions proposed and described by PJM. The NYISO is not prepared to make significant substantive changes to its Tariffs and to the fundamental design of its markets in order to accommodate the requirements PJM seeks to impose on its external Generation Capacity Resources. The NYISO is, however, willing to work with PJM to develop a mutually acceptable alternative to pseudo-ties to facilitate sales of capacity between their two Balancing Authority Areas. PJM and NYISO can work together to develop mutually acceptable rules that take into account the Phase Angle Regulators ("PAR") at the A/C interconnections between their Balancing Authority Areas and that accommodate long-recognized, Commission-accepted differences between the NYISO and PJM tariffs and market rules. The differences between the NYCA and other regions, and between the NYISO/PJM interface and other interfaces, are simply too great to accommodate uniform treatment based on rules that PJM developed at its other borders.

The Commission should not permit PJM to prescribe generally applicable, one-size-fits-all, pseudo-tie obligations in its tariffs and force all neighboring Balancing Authorities to accommodate PJM's rules. Instead, PJM's generally applicable tariff rules must not mandate the use of pseudo-ties in all instances, but should instead be sufficiently flexible to allow for regional differences. PJM should incorporate more detailed and specific requirements for cross-border sales of capacity into its interregional agreements with each of its neighbors. At a minimum, the

Commission should require PJM to make explicit in its tariff that pseudo-tie arrangements can only occur if the native Balancing Authority agrees and elects to execute a pseudo-tie agreement with PJM and the applicable generator. This requirement would codify in PJM's tariff the Commission's finding in prior proceedings¹⁰ and, based on discussions with PJM staff, NYISO believes that PJM would be receptive to this element of NYISO's requested relief. Such a requirement is essential because PJM's tariff does not yet incorporate material terms and conditions, many of which would directly impact the NYISO's ability to operate the NYCA and to serve NYCA loads at least cost. The NYISO requests that the Commission reject PJM's filing and require PJM to submit generally applicable tariff rules that give PJM sufficient flexibility to accommodate regional differences at its borders.

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¹⁰ *See* June 2015 Order at P 96.

¹¹ The NYISO respectfully requests waiver of the requirements of Rule 18 C.F.R. § 385.203(b)(3) (2015) to permit service on more than two persons.

II. MOTION TO INTERVENE ONE DAY OUT-OF-TIME

The NYISO is the independent, not-for-profit entity responsible for administering Commission-jurisdictional markets for electricity and capacity, for providing open-access transmission service, and for maintaining electric reliability in the NYCA. The NYISO and PJM are neighboring regions. There is substantial interregional trading between them, including exports and imports of capacity. Changes to one region's capacity market rules can have substantial impacts on market outcomes and system operations in the other.

As discussed below, allowing a generator that is directly interconnected to the NYCA to be committed and dispatched by PJM in accordance with PJM's proposed new pseudo-tie rules could threaten the reliable operation of the NYCA and disrupt the NYISO-administered markets. The NYISO, therefore, has a direct and substantial interest in the outcome of this proceeding that cannot be adequately represented by any other party. It is appropriate and in the public interest that the NYISO be permitted to intervene herein and to participate with full rights as a party.

The NYISO also respectfully requests leave to intervene one day out-of-time. The Commission routinely grants such motions as long as the proceeding is at an early stage, the entity seeking to intervene has a significant interest in the proceeding, and the grant of the motion will not cause undue prejudice to any party, or delay in the resolution of the proceeding. In this case, PJM's proposed pseudo-tie rules will have a significant impact on the manner in which the NYISO interacts with generators interconnected to its system, and on the NYISO's operation of the NYCA. The NYISO's interest is also unique and cannot be adequately

¹² See Midcontinent Independent System Operator, Inc., 158 FERC ¶ 61,128 at P 4 (2017) (granting "late-filed motions to intervene given the interest in the proceeding, the early stage of the proceeding, and the absence of undue prejudice or delay."); *California Independent System Operator Corporation*, 141 FERC ¶ 61,176 at P 25 (2012) (holding same); *ISO New England, Inc.*, 140 FERC ¶ 61,239 at P 19 (2012) (holding same).

represented by any other party. Furthermore, the proceeding itself is still in its early stages, and the NYISO's motion to intervene, will not cause undue delay or prejudice any party.

Accordingly, the NYISO respectfully requests that the Commission grant its motion to intervene in this proceeding one day out-of-time.

III. BACKGROUND

A. Pseudo-Tie Arrangements Have Never Been Implemented in the NYISO, PJM's Proposed Rules Do Not Appear to Be Workable for the NYISO and Attempting to Implement them Would Adversely Impact New York

PJM has had pseudo-tie arrangements with some of its other neighbors for years. In particular, PJM currently has a number of pseudo-tied generators located inside the Midcontinent Independent Transmission System Operator, Inc. ("MISO") and it is NYISO's understanding that more are expected to be established soon.¹³ In fact, MISO recently submitted a separate Section 205 filing in Docket No. ER17-1061 to establish a *pro forma* pseudo-tie agreement¹⁴ which PJM has protested. There are also multiple pending complaint proceedings concerning the application of PJM and MISO congestion charges to pseudo-tied units.¹⁵

The NYISO does not have, and is not currently developing, pseudo-tie rules of its own.

New York generators have never before been pseudo-tied to PJM or to any other region. The NYISO does not require a pseudo-tie arrangement to accept capacity from external Balancing

¹³ See Amanda Durish Cook, *PJM Filing Renews MISO Monitor's Call for Pseudo-Tie Elimination*, RTO Insider (March 26, 2017) (noting that there are currently thirteen MISO generators currently pseudo-tied to PJM and that the number is expected to soon rise to eighteen) < https://www.rtoinsider.com/pjm-miso-pseudo-ties-40680/>.

¹⁴ MidContinent Independent System Operator, Inc., Proposed Pro Forma Pseudo-Tie Agreement and Associated Revisions to MISO's Open Access Transmission, Energy, and Operating Reserves Tariff, Docket No. ER17-1061-000 (February 28, 2017).

¹⁵ See Midcontinent Independent System Operator, Inc. and PJM Interconnection L.L.C. Status Update, Docket Nos. EL16-108-000, EL17-29-000, EL17-31-000, EL17-37-000 (March 27, 2017) (providing informational update on efforts by MISO and PJM to resolve "congestion overlap" issue related to pseudo-tied generation in each RTO in four pending complaint dockets).

Authority Areas. Capacity exports from New York to PJM have been less than 200 MW in recent years. Exports of Federal preference power from the Niagara and St. Lawrence hydroelectric facilities in New York to municipal entities and cooperatives in PJM occurred under arrangements that NYISO understands are, and requests be explicitly, excluded from PJM's pseudo-tie requirement. The PJM Filing has highlighted the difficulties and disruptions that would be imposed on the NYISO if a New York generator were to seek to become a PJM Capacity Performance Resource and to comply with the rules that PJM has proposed.

As discussed in Section IV.C.1 below, issues arise in large part because the NYISO/PJM border is fundamentally different from PJM's borders with its other neighbors, including PJM's border with MISO. There are currently seven PARs in-service at the NYISO/PJM border that are operated to achieve specific components of NYCA/PJM interchange. There are also three scheduled lines that interconnect the NYCA with the PJM Balancing Authority Area that use direct current technology or variable frequency transformers to control power flows to match the interchange that is scheduled over those facilities. NYISO is not aware of any other border between PJM and a neighboring Balancing Authority Area where power flows are as heavily managed by control technologies.

The NYISO and PJM have developed special rules to manage PAR-controlled flows across their common interface. These rules are set forth in the *Joint Operating Agreement Among and Between New York Independent System Operator Inc. and PJM Interconnection, L.L.C.* (the "JOA"). The JOA does not include pseudo-tie procedures and, as discussed below, the JOA is incompatible with some of the pseudo-tie rules proposed in the PJM Filing.

¹⁶ See infra Section IV.B.5.

¹⁷ The JOA is formally filed (on behalf of both NYISO and PJM) as Section 35 of the NYISO's OATT. Schedule D to the JOA (Section 35.23) sets forth the Market-to-Market ("M2M") coordination

As further discussed below, PJM's pseudo-tie requirement also appears to conflict with other features of the NYISO's Commission-approved tariffs and threatens to create reliability problems and market inefficiencies in New York.

B. The PJM Filing Seeks to Impose New Requirements but Does Not Include Necessary Rules Explaining How PJM will Implement Them

PJM has been working with its stakeholders to develop a *pro forma* pseudo-tie agreement. Many important issues that are not addressed in the PJM Filing are, apparently, being left to that agreement. NYISO has identified other omissions that are not addressed in PJM's draft *pro forma*. For example, PJM's draft rules do not address whether it, or the Reliability Coordinator of the transmission system to which an external Generation Capacity Resource is directly interconnected, will be responsible for outage scheduling. It is unclear when PJM's *pro forma* language will be finalized and filed for the Commission's consideration.

The latest draft version of PJM's *pro forma* pseudo-tie agreement addresses numerous matters that are directly relevant to PJM's proposals in this proceeding. NYISO has concerns with many of the provisions of the draft *pro forma* pseudo tie agreement. It is not possible to fully understand how PJM's pseudo-tie proposals would actually be applied without considering the *pro forma* language. The Commission should not accept the new requirements in the PJM Filing before it has the opportunity to review PJM's proposed rules for implementing those requirements.

rules that apply to NYISO and PJM. The NYISO and PJM recently filed proposed revisions to their JOA (including proposed revisions to the M2M coordination rules) to address the elimination of the 1000 MW wheel that was originally established in the 1970s by the Consolidated Edison Company of New York, Inc. and the Public Service Electric and Gas Company ("Con Edison - PSEG Wheel"). The jointly filed revisions are pending in Docket No. ER17-905-000.

¹⁸ The most recent iteration of PJM's draft *pro forma* agreement is posted at http://www.pjm.com/%7E/media/committees-groups/committees/mrc/20170323/20170323-item-04-draft-pjm-pro-forma-pseudo-tie-agreement.ashx.

C. Contrary to Commission Precedent the PJM Filing Does Not Reflect the NYISO's Input on Seams, Market, or Reliability Issues Impacting New York

The Commission first accepted PJM's Capacity Import Limit rules in its April 2014

Order in Docket No. ER14-503.¹⁹ That order rejected recommendations by intervenors that a pseudo-tie requirement be made applicable to all external resources seeking to participate in PJM's forward capacity auctions. The Commission agreed with PJM's position at the time that such a mandate would "limit competition from external resources (by making it more difficult for them to qualify as capacity resources) without providing any offsetting benefits."²⁰

The June 2015 Order, however, accepted a PJM proposal to require external capacity resources to be pseudo-tied to PJM, even though PJM's tariffs did not include an explicit pseudo-tie requirement at that time. The Commission's determination was predicated on a finding that the protestors in that proceeding had not shown that a pseudo-tie requirement would exacerbate seams. The Commission also emphasized that PJM was "required to reach agreement with External Balancing Authorities regarding all implementation issues associated with a pseudo-tied resource, including reliability and commercial obligations, and that this process should minimize any resulting seems issues"²¹

As discussed below, PJM's proposed new pseudo-tie rules have not been designed to minimize seams at the NYISO/PJM interface, and do not account for commercial or reliability issues in the NYISO. Nor do they reflect the level of inter-regional coordination that PJM has argued is necessary in the pending MISO proceeding.²²

¹⁹ *PJM Interconnection, L.L.C.*, 147 FERC ¶ 61,060 (2014) (April 2014 Order).

²⁰ April 2014 Order at P 49.

²¹ June 2015 Order at P 96 (footnote citing to pertinent NERC and NAESB rules omitted).

²² See Section IV.A, infra.

IV. PROTEST

A. The PJM Filing Seeks to Impose New Requirements but Does Not Include Necessary Rules Explaining How PJM will Implement Them

The PJM Filing proposes to impose various obligations on external resources that want to sell capacity to PJM, and on the operators of the Balancing Authority Areas in which such resources are located. The PJM Filing omits necessary implementation details that are fundamental to any evaluation of the justness and reasonableness of PJM's proposed pseudo-tie rules. Several of these omissions are addressed in Section IV.B below and are themselves sufficient reason to find PJM's proposals unjust and unreasonable. The PJM Filing's most serious omission is the absence of the *pro forma* pseudo-tie agreement that PJM has been drafting with its stakeholders. The *pro forma* agreement is not mentioned in the PJM Filing, but it is clear from a review of the latest posted draft that PJM's *pro forma* agreement will impose numerous, substantive pseudo-tie implementation requirements that are not addressed in the PJM Filing. It is likewise clear from PJM staff presentations that the tariff revisions included in the PJM Filing and PJM's *pro forma* pseudo-tie agreement are integrally related and were, until recently, being developed in a coordinated fashion.²³

Draft, unfiled, *pro forma* provisions that are of greatest concern to the NYISO include: language addressing resources that simultaneously sell capacity to PJM and to the Balancing Authority Area where the Generator is located; proposed rules governing PJM's obligation to make pseudo-tied generation available for commitment by the NYISO and the relevant local Transmission Owner; and proposed rules governing PJM's obligation to comply with all

²³ See, e.g., Proposal for Pro Forma Pseudo-Tie Agreements, Jacqulynn Hugee, PJM Markets and Reliability Committee, January 2017 at 5. < http://www.pjm.com/~/media/committees-groups/committees/mrc/20170126/20170126-item-11-pseudo-tie-agreement-presentation.ashx > ("January MRC Presentation").

reliability rules that apply in the Balancing Authority to which the pseudo-tied generator is directly interconnected.²⁴ Responsibility for scheduling and approving planned outages is a matter that needs to be considered, but that does not appear to be addressed in the latest draft of the PJM *pro forma* pseudo tie agreement.

PJM itself recently protested MISO's filing of a *pro forma* pseudo-tie agreement on the ground that MISO was allegedly granting itself too much authority.²⁵ PJM contrasted MISO's proposal with the draft of its own *pro forma* pseudo-tie agreement, which PJM asserted provided for appropriate interregional coordination over matters where NERC Reliability Standards require it. Specifically, PJM stated that "PJM's *pro forma* agreement requires mutual agreement because PJM wants to ensure that the Native Balancing Authority, native Reliability Coordinator and native Transmission Operator agree with PJM on how the pseudo-tie will be implemented and operated since they will be impacted by that pseudo-tie, and to ensure coordination and clear delineation of roles and responsibilities as between them, consistent with NERC standards."

²⁴ See PJM's most recent draft Form of Pseudo-Tie Agreement (dated March 15, 2017 as of this writing) which are posted at the location cited at n. 17 above. The draft "Whereas" clauses include alternative language applicable to generators that seek to pseudo-tie only a defined quantity or a percentage of dispatched capacity to PJM. Section 2(m) states that "The Native Balancing Authority, . . . shall have the right to direct that the amount of energy utilizing the Pseudo-Tie be adjusted for local transmission reliability concerns in emergency conditions, shall have the right to request that the amount of energy utilizing the Pseudo-Tie be adjusted for local transmission reliability concerns under normal conditions, and shall be responsible for mitigating the transmission related congestion on the transmission system where the Pseudo-Tie is connected." Draft Section 2(p) states that "In accordance with NERC Standards IRO-001-1.1 and TOP-001-1a and their respective successors, during a local transmission reliability emergency Company shall comply with [native Reliability Coordinator] [Native Reliability Coordinator]...reliability directives by taking required actions to avoid security limit violations on closely situated transmission facilities and to ensure that [native Transmission Owner] [Native Transmission Owner] and [native Reliability Coordinator] [Native Reliability Coordinator] have the ability to return the transmission system to normal operating conditions, unless such actions would violate safety, equipment, or regulatory or statutory requirements."

²⁵ Protest of PJM Interconnection, L.L.C., Docket No. ER17-1061-000 (March 21, 2017) ("PJM Protest").

as Area Control Error and Frequency Control, congestion management, resource adequacy planning/scheduling, and contingency reserve assessment."26

PJM's plans for addressing such critical operational and compliance matters, as well as other implementation details, are essential to a complete understanding of how its pseudo-tie proposal would impact the NYISO. The PJM Filing acknowledges that NERC standards establish "key requirements" governing its "use and implementation" of pseudo-ties. However, the *pro forma* agreement provisions addressing relevant NERC standards are not now before the Commission for review.

It is well-established that that the Commission will reject Section 205 filings if they fail to provide sufficient information for the Commission to conduct an adequate evaluation of their justness and reasonableness²⁷ or have been submitted prematurely.²⁸ The PJM Filing should be rejected for both reasons. As PJM's recent protest in the MISO *pro forma* pseudo-tie proceeding highlights, the terms and conditions set forth in a *pro forma* pseudo-tie agreements are critically important. The PJM Filing is incomplete without a draft *pro forma* agreement, and it will only be possible for commenters and the Commission to determine if PJM has developed proposed rules addressing all of the reliability, coordination and market concerns that must be addressed

²⁶ PJM Protest at 2 (footnotes citing NERC Reliability Standards BAL-005-0.2b, INT-00403.1, TOP-001-1a and IRO-001-1-.1, and BAL-002-1 (respectively) were omitted above).

²⁷ See, e.g., Northern Maine Independent Service Administrator, 119 FERC ¶ 61,231 (2007) ("NMISA has not provided the Commission with sufficient information to determine the effects of its proposed revisions. We find therefore that NMISA has failed to demonstrate that the proposed tariff revisions are just and reasonable, and accordingly, has failed to satisfy its burden of proof under section 205 of the FPA. Consequently, we reject NMISA's proposed revisions without prejudice.").

²⁸ See, e.g., Public Service Company of Colorado, 156 FERC ¶ 61,187 (2016) (rejecting tariff filing as premature.); *PJM Interconnection, L.L.C.*, 150 FERC ¶ 61,251 at P 30 (2015) (rejecting proposed tariff revisions as premature where there was a risk that revisions could be withdrawn based on the outcome of a pending court proceeding); *Midwest Independent Transmission System Operator, Inc.*, 142 FERC ¶ 61,182 (2013) (rejecting proposed tariff revision as premature where option set forth in the revision was being addressed in an ongoing proceeding).

when PJM files its entire proposed ruleset. PJM's submission of an incomplete set of rules makes it impossible for the NYISO to identify all of the possible implications for New York, or for the Commission to ascertain the overall justness and reasonableness of PJM's proposed tariff revisions. It would be premature for the Commission to accept the PJM Filing, or for Commission staff to allow PJM's incomplete set of proposed tariff revisions to become effective.

The Commission should, at a minimum, issue a deficiency letter directing PJM to submit the missing components of its tariff rules that are intended to govern external Generation

Capacity Resources. These would include a complete *pro forma* agreement and answers to, or rules addressing, each of the concerns that the NYISO raises in this Protest.

- B. The PJM Filing Is Unjust and Unreasonable Because it Raises Serious Reliability and Market Concerns for New York and Is Not Compatible with Commission-Accepted NYISO Rules
 - 1. The PJM Filing Fails to Address Whether a Pseudo-Tied Generator May Be Used for Reliability Purposes By its "Native" Balancing Authority at Times When it Is Not Needed by PJM

ISO-New England, Inc. ("ISO-NE") recently filed tariff changes to facilitate the participation of external resources in its Forward Capacity Markets while still allowing them, under certain circumstances, to provide capacity and energy to the Balancing Authority Areas to which they are physically interconnected. Under the ISO-NE rules, external capacity resources remain available in the native region's commitment and dispatch and are permitted to supply energy to their native region if it otherwise is not required by ISO-NE.²⁹

By contrast, the PJM Filing is silent on the subject of whether, and the circumstances under which, its external Generation Capacity Resources will be available for commitment and

²⁹ See New York Indep. Sys. Operator, Inc., 158 FERC ¶ 61,064 at P 39 (2017) ("Per the ISO-NE Tariff, when an import generator is located in a control area with which the ISO-NE control area has implemented certain enhanced scheduling procedures (e.g., NYISO), "the resource must comply with all offer, outage scheduling and operating requirements applicable to capacity resources in the native Control Area."); citing ISO-NE Tariff, Section III.13.6.1.2.3 (b).

dispatch by the "native" Reliability Coordinator of the Balancing Authority Area to which a pseudo-tied generator is directly interconnected. PJM's failure to address NYISO's authority to schedule and dispatch a PJM Generation Capacity Resource when its operation is necessary to protect NYCA reliability might be construed as signifying that NYISO cannot schedule or dispatch a PJM Generation Capacity Resource in such instances. The NYISO respectfully submits that it is unjust and unreasonable for PJM to fail to clearly specify that Reliability Coordinators that are responsible for maintaining reliability in the Balancing Authority Area to which a pseudo-tied Generation Capacity Resource is directly interconnected may commit, dispatch, and compensate pseudo-tied generators to address reliability concerns when PJM has not scheduled its external Generation Capacity Resource to operate. The Commission should require PJM to revise its proposal accordingly.³⁰

2. The PJM Filing Is Unjust and Unreasonable Because it Fails to Address the Impacts of Pseudo-Ties on Local Reliability

The PJM Filing indicates that PJM is still determining how to handle local system issues that are not addressed by congestion management protocols.³¹ Local reliability issues are very significant in New York. The operation of the New York State Transmission System ("NYSTS") is governed not only by the Commission's reliability standards, as enforced by NERC and the NPCC, but also by a series of local Reliability Rules issued and enforced by the New York State Reliability Council ("NYSRC").³² The operation of the NYSTS requires close

³⁰ Paragraph 1(m) of the latest draft of the unfiled PJM *pro forma* pseudo-tie agreement would appear to allow the NYISO to commit a New York generator that is pseudo-tied to PJM but only in an emergency.

³¹ See PJM Filing at 9-10.

³² Under Section 215(h)(3) of the Federal Power Act ("FPA"), New York State is authorized to have reliability rules that are more stringent than those adopted by the North American Electric Reliability Organization and the regional reliability entities. Under New York law, the NYSRC is charged with developing such reliability rules.

coordination between the NYISO, the New York TOs, and individual Generators to ensure that all applicable standards are satisfied, and that reliability is maintained. Effective coordination is particularly critical in New York due to New York's transmission limits, high levels of congestion and the unique operating and reliability challenges presented by New York City.

The NYISO has concerns about the potential reliability impacts of permitting PJM to commit and dispatch generators that are directly interconnected to the NYCA. Some of the NYISO's reliability concerns stem from the fact that PJM does not propose to include a detailed representation of the entire NYCA in its network model, so PJM will not have full visibility into the possible reliability impacts of dispatching a pseudo-tied generator that is directly interconnected with the NYCA. Ceding commitment and dispatch authority over New York generation to PJM might violate the *Agreement Between the New York Independent System Operator and Transmission Owners* ("ISO-TO Agreement").³³ Section 3 of the ISO-TO Agreement makes NYISO ultimately responsibility for controlling, operating, and maintaining the reliability of the NYS Power System.

New York State's special Reliability Rules³⁴ supplement and are more stringent than the NERC and regional standards. Some of the best known Reliability Rules are the "Thunderstorm Alert" or "Storm Watch" rules that apply when a thunderstorm threatens the major transmission lines that serve New York City. When a Thunderstorm Alert is in effect, NYISO is required to commit and dispatch additional generation in New York City and to reduce the output of

³³ The ISO-TO Agreement is one of the NYISO's foundational documents, and is subject to the public interest standard of review under the Mobile-Sierra Doctrine. The agreement can be found at http://www.nyiso.com/public/markets operations/documents/legal regulatory/index.jsp.

³⁴ OATT Section 1.18 and Services Tariff Section 2.18 define "Reliability Rules" as "Those rules, standards, procedures and protocols developed and promulgated by the NYSRC, including Local Reliability Rules, in accordance with NERC, NPCC, FERC, PSC and NRC standards, rules and regulations, and other criteria and pursuant to the NYSRC Agreement."

generators that must rely on the at-risk transmission facilities to supply energy to New York City. It is essential that all generators comply with NYISO's instructions when the NYISO issues a Thunderstorm Alert.

The NYSRC establishes, maintains, assures compliance with, and updates the Reliability Rules. The NYISO and all entities engaging in electric power transactions on the New York State Power System must adhere to the Reliability Rules.³⁵ If PJM assumes responsibility for scheduling and dispatching a generator that is directly interconnected to the NYCA, it will also have to comply with the Reliability Rules.

The NYISO's Tariffs implement certain Reliability Rules directly;³⁶ while implementation of other Reliability Rules requires close coordination between the Transmission Owners and the NYISO.³⁷ The Transmission Owners also coordinate with the NYISO on the implementation of Applications of the Reliability Rules ("ARRs") for those portions of the NYSTS not included in the NYISO Controlled Transmission System.³⁸ Coordination among the

³⁵ See NYISO Transmission and Dispatching Operations Manual at Section 2.1.5, available at http://www.nyiso.com/public/webdocs/markets_operations/documents/Manuals_and_Guides/Manuals/Operations/trans_disp.pdf. The NYS Power System is defined as "All facilities of the New York State Transmission System, and all those generators located within New York State or outside New York State, some of which may be from time-to-time subject to operational control by the NYISO. See Reliability Rules & Compliance Manual at Glossary, available at http://www.nysrc.org/pdf/Reliability%20Rules%20Manuals/RRC%20Manual%20V39%2012-6-16.pdf.

³⁶ See e.g., Services Tariff Section 4.1.9 ("Generating units designated pursuant to the New York State Reliability Council's Local Reliability Rule I-R3 -- Loss of Generator Gas Supply (New York City) or I-R5 -- Loss of Generator Gas Supply (Long Island), as being required either to burn an alternate fuel at designated minimum levels, or to activate their auto-swap capability, based on forecast Load levels in Load Zones J and K (for purposes of this Section 4.1.9, "Eligible Units"), shall be eligible to recover costs associated with burning the required alternate fuel when Local Reliability Rule I-R-3 or I-R5 is invoked pursuant to the provisions of this Section 4.1.9.").

³⁷ See Applications of the NYSRC Reliability Rules, available at http://www.nysrc.org/pdf/NYSRCReliabilityRulesComplianceMonitoring/apprulesintro.pdf.

³⁸ See TO Applications of NYSRC Reliability Rules, available at http://www.nyiso.com/public/webdocs/markets_operations/committees/councils/nysrc/reliability_rules_2 2003.pdf.

NYISO, NYCA generators and the Transmission Owners is critical to protecting NYSTS reliability, especially during emergencies or other operating contingencies when time is of the essence. Comprehensive training on and intimate familiarity with the Reliability Rules and all of the ARRs that could apply to a particular NYCA generator are necessary to coordinate effectively during these events.

PJM's assumption of operational control of pseudo-tied NYCA generators could jeopardizes compliance with these Reliability Rules. Specifically, allowing PJM to control Generators in the NYCA may introduce reliability issues when a pseudo-tied generator is needed to respond to a local system issues. Allowing an entity that is not as familiar with the Reliability Rules and ARRs to direct the output of a NYCA generator, especially during emergencies or other contingencies, could jeopardize NYSTS reliability.

PJM itself expressly acknowledges that it still must determine how to address local reliability issues not otherwise addressed in market-to-market congestion management protocols. These are critically important issues for New York, and without concrete rules in place to ensure local reliability in New York, the PJM proposal is incomplete, unjust and unreasonable.

3. The PJM Filing is Incomplete and Unjust and Unreasonable Because it Does Not Address how the Existence of a Pseudo-Tied Generator Would Impact ATC/TTC Determinations at the NYISO/PJM Border

PJM's proposed tariff revisions are incomplete, and may be unjust and unreasonable, because they do not address how pseudo-tied Generation Capacity Resources will impact Total Transfer Capability ("TTC") and Available Transfer Capability ("ATC") determinations at PJM's borders with the Balancing Authority Area to which a pseudo-tied Generation Capacity Resource is directly interconnected. PJM's requirements that external Generation Capacity Resources (a) obtain long-term firm transmission service, but (b) are not permitted to use NERC

tagged interchange, complicates TTC and ATC determinations. NYISO would have concerns if PJM intends to reserve transfer capability for use by a pseudo-tied Generation Capacity Resource even when PJM is not receiving power from that Generation Capacity Resource. Such a result would constitute an inefficient restriction on the use of transfer capability between the two regions.

It is also unclear how PJM's proposal would impact the NYISO's ability to schedule economic interchange as counter-flow when a pseudo-tied Generation Capacity Resource is providing its energy to PJM. The Commission recently clarified that system operators must recognize the potential availability of a counterflow in conjunction with the operation of a pseudo-tied generator.³⁹ An approach that fails to allow the NYISO to schedule a counterflow transaction in this circumstance would appear to contravene the Commission's directive and could prevent the scheduling of economically efficient interchange.

4. PJM's Proposed Redispatch Requirements Do Not Appear to Reflect the Ability of PARs to Hold Flows on the NYISO/PJM Interface

The PJM Filing proposes to only permit an external generator to become a Generation Capacity Resource that is pseudo-tied to PJM if PJM is able to redispatch resources located in the PJM Control Area to reduce PJM's market flow on any coordinated redispatch flowgates that are associated with the pseudo tied Generator. Said more simply, PJM wants to have congestion management options available to it other than reducing the output of a pseudo-tied Generation Capacity Resource.

³⁹ Public Citizen, Inc. v. Midcontinent Indep. Sys. Operator, Inc., 153 FERC ¶ 61,385 (2015), reh'g denied, 154 FERC ¶ 61,224 (2016) (finding that the Midcontinent Independent System Operator Inc.'s ("MISO's") tariff provisions were unjust and unreasonable because they did not properly account for counter-flows resulting from capacity exports to neighboring regions when determining Capacity Import Limits).

There are currently seven PARs in-service at the NYISO/PJM border that are operated to achieve specific components of scheduled interchange in accordance with the requirements of the "JOA", 40 and in accordance with Section 17.1.1.1.2 of the NYISO's Services Tariff. There are also three scheduled lines located at NYISO's border with PJM that use direct current technology or variable frequency transformers to control power flows to match the interchange that is scheduled over those facilities. At the NYCA/PJM border there will almost always be one or more NY/NJ PARs the operation of which will significantly impact the ability to redispatch generators located in PJM to relieve congestion on a NYCA redispatch flowgate that reflects the congestion impacts of a Generation Capacity Resource that is pseudo-tied to PJM.

To determine whether the redispatch of generators located in the PJM Control Area is an effective option to reduce congestion on redispatch flowgates that are developed to address a potential pseudo tied generator's congestion impacts in New York, PJM should perform its test based on the expectation that the NY/NJ PARs will be actively operated to hold flow. This is appropriate because the mission of the NY/NJ PARs is to achieve scheduled interchange and to reduce congestion at M2M PAR coordinated flowgates consistent with the M2M PAR coordination settlement rules. As explained in Section IV.C.1 of this Protest, the PARs at the NYCA/PJM border are not operated to facilitate untagged interchange or to relieve transmission congestion on congestion management redispatch flowgates.

⁴⁰ The NYISO is the designated entity that is responsible for filing the JOA on behalf of both itself and PJM. The Commission-accepted JOA is Section 35 of the NYISO's OATT. Schedule D to the JOA (Section 35.23) sets forth the M2M coordination rules that apply to NYISO and PJM. The NYISO and PJM recently filed proposed revisions to their JOA (including proposed revisions to the M2M coordination rules) to address the elimination of the 1000 MW Con Edison - PSEG Wheel. The jointly filed revisions are pending in Commission Docket No. ER17-905-000. In that filing the NYISO also proposed changes to Section 17.1.1.1.2 of its Services Tariff to address the elimination of the Con Edison - PSEG Wheel.

NYISO is prepared to work with PJM to develop a mutually acceptable solution for capacity sales between their respective regions. If PJM determines that it is able to permit its Generation Capacity Resources located in the NYCA to participate in the NYISO's commitment and dispatch, then the NYISO's Day-Ahead Security Constrained Unit Commitment ("SCUC") or Real-Time Commitment ("RTC") software will develop a least-cost solution to serve all NYCA system load, including the scheduled export to PJM.

5. PJM Must Clearly Identify Any Exceptions or Exemptions from the Pseudo-Tie Requirement; Including the Apparent Exception for Grandfathered Niagara Preference Power Exports

PJM's proposed tariff revisions do not expressly address exports from the Niagara Power Project under the Niagara Redevelopment Act of 1957 ("1957 Act"). ⁴¹ That law directed that the Niagara Power Project, which is located in New York State: (i) "make at least 50 percent of the project power available to public bodies and non-profit cooperatives for the purpose of ensuring that the power is sold to consumers at the lowest rates reasonably possible (referred to as "preference power")"; and (2) allocated up to twenty percent of that preference power for use within neighboring states. ⁴² The New York Power Authority ("NYPA"), which owns and operates the Niagara Power Project, was exporting preference power to municipal and cooperative customers located within PJM's footprint decades before the NYISO was formed. They currently amount to roughly 163.2 MWs per year. NYPA also delivers 30.7 MW of preference power to municipal and cooperative customers located in PJM from its St. Lawrence hydroelectric facility that began operating in 1958.

⁴¹ 16 U.S.C. § 836-836a (2010).

⁴² See New York Power Authority, 118 FERC ¶ 61,206 at PP 30-31 (2007) (describing the preference power requirements under Section 836 of the 1957 Act).

The PJM Filing is silent on the treatment of preference power exports. This silence could not reasonably be interpreted as implying that the Niagara Power Project or St. Lawrence would have to be pseudo-tied to PJM, since that would conflict with statutory and treaty provisions governing the project's operation (and would seemingly be beyond the Commission's Federal Power Act jurisdiction). PJM has informally indicated to the NYISO that preference power exports are treated as "grandfathered" in PJM and thus are not subject to the Capacity Import Limit (and thus to the need to be pseudo-tied). But this is nowhere stated in the PJM Filing and there is no binding assurance that PJM will continue to permit preference power exports in the absence of a pseudo-tie.

The Commission should therefore instruct PJM to revise its tariffs to clearly address the treatment of preference power exports and any other "grandfathered" arrangements that it may intend to support without requiring a pseudo-tie arrangement. Failing to identify such exceptions is inconsistent with the filing requirements of Section 205 of the FPA.

6. PJM's Proposed Deliverability Study Requirement Is Unjust and Unreasonable in its Current Form

Under the PJM proposal, not only must a generator arrange for long-term firm point-to-point service from the Balancing Authority Area to which it is interconnected, but it also must ensure that such service "is evaluated for deliverability from the unit-specific physical location of the resource to PJM load." Furthermore, although PJM's proposal suggests that the study would be performed by the Balancing Authority Area to which the generator is interconnected, the PJM proposal "requires that such deliverability evaluation must be in accordance with PJM deliverability criteria, and must be . . . reviewed and approved by PJM." *Id*.

⁴³ As discussed below in Section IV.C.2, this transmission service requirement would be highly problematic if applied to New York given the NYISO's use of a financial reservation transmission model.

⁴⁴ PJM Filing at 16.

As with other aspects of the PJM proposal, the NYISO objects to the unilateral imposition of PJM's rules on system evaluations and operations conducted by the NYISO. As explained in detail below, the NYISO system relies almost completely on financial transmission reservations to allocate the economic benefit of transmission capacity, and therefore is able to honor almost all submitted schedules as long as they are consistent with security-constrained dispatch and the transmission customer is willing to bear the congestion costs associated with such schedules. However, because it relies on financial rights rather than physical rights, the NYISO does not provide firm point-to-point service, at least in the traditional sense reflected in the PJM proposal. Thus, it is not clear how a deliverability study performed in accordance with PJM standards, and subject to PJM's review, would be implemented in the context of the NYISO's system.

The NYISO has similar concerns with respect to PJM's apparent intention to apply PJM, and Reliability *First* Corporation ("Reliability First"), planning standards on the NYISO. The NYISO is located within the Northeast Power Coordinating Council, Inc. ("NPCC"), which has its own set of planning requirements. Furthermore, the NYISO is concerned that, in some respects, the NPCC standards applicable to a deliverability evaluation may be more stringent than comparable PJM and Reliability First standards. A rule allowing for the imposition of PJM and Reliability First standards under these circumstances would contravene the basic structure of reliability regulation adopted by the Commission.

Under the ISO Agreement the NYISO is required to "develop, maintain and promulgate a NYS Transmission System expansion and reliability assessment process to be performed in compliance with the [NYSRC] Reliability Rules."⁴⁵ The NYISO's responsibility for conducting

⁴⁵ See ISO-TO Agreement, which is one of the NYISO's foundational documents.

reliability studies on its system in accordance with NYSRC rules is at odds with PJM's proposal to make deliverability studies subject to PJM standards.

The Commission should reject PJM's imposition on the NYISO of deliverability standards that are different from the standards NYISO normally uses, and that may be less stringent than the corresponding NPCC standards. Without a mutual agreement between the NYISO and PJM regarding these evaluations, the PJM proposal is unjust and unreasonable. The NYISO respectfully submits that, at the very least, PJM should be required to amend proposed Section 5.5A(b)(ii) of its OATT (and any other PJM tariff provisions that repeat the cited requirement) to: (a) also require the Balancing Authority for the External Balancing Authority Area to which the Generation Capacity Resource is directly interconnected to review and approve deliverability study results, and (b) state that the criteria that will apply are PJM deliverability criteria or any more stringent criteria that may apply in the Balancing Authority Area where the Generation Capacity Resource is located.

7. PJM's Proposal that it be Granted a Firm Flow Entitlement to Use the Transmission System of an External Balancing Authority Area Is Unjust and Unreasonable and Should be Rejected

The PJM Filing states that PJM should receive a "firm flow entitlement" on any coordinated redispatch flowgates associated with an external Generation Capacity Resource. 46 Proposed Section 5.5A(b)(i)(D) of PJM's Tariff requires a Capacity Market Seller to secure "written acknowledgement from the external Balancing Authority Area" that "firm allocations associated with any coordinated flowgate applicable to the external Generation Capacity Resource ... will be allocated to PJM."

⁴⁶ PJM Filing at 9-10.

PJM argues that its proposal is appropriate because "a pseudo-tied resource is capacity committed to PJM load, and therefore, PJM load should be assigned the firm flow allocation from that coordinated flowgate."⁴⁷ PJM's position is unjust and unreasonable, and should be rejected by the Commission for the reasons explained below.

A firm flow entitlement is, in essence, a right to use a portion of another Balancing Authority's transmission system without paying for that use. PJM and NYISO have granted entitlements to use each other's transmission system in a carefully studied and negotiated, mutually agreed, "swap" of rights in accordance with rules set forth in their JOA. Each ISO/RTO was granted rights to use specifically identified slices of the other entity's transmission system. There is no "swap" proposed in Section 5.5A(b)(i)(D) of PJM's OATT. It simply requires that PJM be allocated entitlements to use another Balancing Authority Area's transmission system without paying for that use or providing any other form of compensation in return

PJM's proposed requirement is unjust and unreasonable because it ignores the fact that any use PJM makes of an external Balancing Authority Area's transmission system is an incremental addition to the native Balancing Authority Area's own use of its transmission system to serve that external Balancing Authority's native load customers (who paid for the construction of the transmission system). It appears to NYISO that Section 5.5A(b)(i)(D) of PJM's OATT requires that PJM be given transmission rights without paying for them.

Illustrative Example of NYISO's Concern

Generator G has been a NYCA Generator for 5 years. When Generator G is operating, approximately 100 MW of its output ordinarily flows over Transmission Line T—a transmission line that can become significantly congested when the NYCA is experiencing peak or near-peak load conditions. When Transmission Line T becomes congested, the

⁴⁷ PJM Filing at 15-16.

LBMP at Generator G's proxy bus incorporates the congestion that Generator G is causing on Transmission Line T, which results in an increased LBMP at Generator G's location, and may result in NYISO reducing its dispatch of Generator G.

Now, assume that (a) Generator G elects to leave the NYCA and to become a PJM Generation Capacity Resource that is pseudo-tied to PJM, and (b) NYISO is required to grant PJM a firm flow entitlement to use 100 MW on Transmission Line T whenever Generator G is operating, and (c) PJM has the right to schedule and dispatch pseudo-tied Generator G.

When a hot summer day arrives, PJM will be able to commit and dispatch Generator G and use its firm flow entitlement to flow up to 100 MW of energy on Transmission Line T without paying NYISO, or the Transmission Owner that owns Transmission Line T, or the native load customers who paid to build Transmission Line T, a dime. Instead, the NYISO would have to redispatch NYCA resources that are under its dispatch control to limit congestion (prevent thermal overloads) on Transmission Line T. NYCA loads would bear the cost of NYISO's redispatch to make Generator G's power deliverable to PJM.

PJM's requested "firm flow entitlement" to use the New York State Transmission System would be superior to the rights that NYISO offers to its own Transmission Customers in its Tariffs, and to the rights that Generator G possessed before it became pseudo-tied to PJM.

For the reasons explained above, PJM's proposal that it should receive "firm allocations associated with any coordinated flowgates applicable to the external generator under an agreed congestion management process" is unjust and unreasonable, and should be rejected.

Section 6.2.1.1 of Schedule D to the NYISO/PJM JOA states "External Capacity Resources may be included in the M2M Entitlement calculation to the extent the Parties mutually agree to their inclusion" and "Inclusion of PJM External Capacity Resources that exceed the net M2M Entitlement impact of the PJM External Capacity Resources that were used for the initial implementation of the M2M coordination process must be mutually agreed to by the Parties." The NYISO cannot agree to grant PJM a "firm flow entitlement" to use its transmission system unless PJM provides fair compensation in return.

8. PJM's Proposed Requirement Regarding the Operations of Other Balancing Authorities' Network Models is Unjust and Unreasonable

PJM proposes that "coordinating entities with an agreed congestion management process . . . must maintain network models that produce results for such flowgates that are within two percent of one another." Under this rule, NYISO's network model addressing redispatch flowgates in New York would be required to conform to the results produced by PJM's network model for those same flowgates.

This requirement is problematic for several reasons. First, it requires the external (non-PJM) Balancing Authority Area to conform its network model to produce the same results as PJM's, without regard to quality of the output from PJM's network model. Thus, it would be the NYISO's obligation to conform its network model to the results produced by the PJM network model for flowgates located in and representing transmission constraints on the transmission system operated by the NYISO, and even if the PJM network model produces results that are less accurate than, or inaccurate as compared to, the results of the NYISO model.

This result is inequitable and it misplaces the applicable burdens. For coordinated flowgates that represent NYCA transmission constraints, it is the NYISO that has the most up-to-date information, and the most experience in modeling them. Thus, it should be PJM's obligation to ensure that its network model produces results that match those produced by the NYISO's network model, and not the other way around.

The plus or minus two percent threshold PJM proposes is far more prescriptive than the threshold that NYISO and PJM used to benchmark their respective models. Achieving PJM's proposed plus or minus two percent threshold would be especially difficult for the NYISO

⁴⁸ See PJM Filing transmittal letter at 15. See also proposed Section 5.5A(b)(i)(C) of Attachment DD of the PJM OATT.

because PJM and NYISO employ different treatment of PARs in their EMS models during real-time operations. This can yield very different results in real-time operations.

PJM's proposed tariff rules do not explain what the consequences would be if the results of the two network models deviated by more than two percent after PJM approves a Generation Capacity Resource. PJM should be required to specify in its tariff that this requirement is only intended as an eligibility threshold that might prevent an external generator from becoming an External Capacity Resource. If PJM intends some other consequence when an external entity's network model produces a result that diverges by more than two percent from the result produced by PJM's network model, then PJM must to modify the tariff revisions it filed accordingly.

9. The PJM Filing is Unjust and Unreasonable Because it Does Not Address Pseudo-Tied Generators That Make Sales to Both PJM and their Native Balancing Authorities

The NYISO anticipates that, if a NYCA generator became an external Generation Capacity Resource that is pseudo-tied to PJM, there would be circumstances in which that generator sold only part of its capacity to PJM, and sold the remainder in the NYISO-administered markets. Partial capacity sales are not uncommon in both New York or in neighboring regions. The PJM Filing does not specify how such bifurcated sales will be addressed.

This omission is significant because of the pseudo-tie requirement, and the potential impact that it has on generators that commit only a portion of their capacity to PJM. The pseudo-tie requirement mandates that dispatch control over such a generator be given to PJM, and that PJM treat the generator as part of its Balancing Authority Area. However, if some of the MWs are being used to satisfy capacity obligations in the NYISO, then PJM's dispatch

control over the unit raises a host of issues that are not addressed by the PJM Filing. For example, if PJM has dispatch control over the unit, but part of the unit is committed to the NYISO markets, it is unclear how the part of the unit committed to New York would bid into the NYISO Day Ahead Market, how the unit would clear in the NYISO markets, and how NYISO dispatch of the portion of the unit committed to New York would work. It also is unclear how this arrangement would function in circumstances where the two markets seek to dispatch the unit in ways that are inconsistent with one another, or that are inconsistent with the operating capabilities of the unit. Without rules in place to address these issues, the PJM proposal leaves the door open to scenarios in which a generator would have to frequently run at a loss in the market to which it is physically interconnected in order to satisfy obligations imposed by PJM.

None of these issues are addressed by the PJM Filing. Granting generators flexibility to participate in more than one market should promote efficient market outcomes. But without rules negotiated and agreed to by both participating regions to govern bifurcated capacity sales, the PJM Filing is unjust and unreasonable.

- C. PJM's Pseudo Tie Requirement Presents Serious Reliability, Market, and Seams Issues that Would Preclude the NYISO from Ever Voluntarily Entering into a Pseudo-Tie Arrangement with PJM
 - 1. Physical and Regulatory Differences Necessitate Having Different Rules at the NYISO/PJM Interface

As explained above, the NYISO/PJM border is fundamentally different from PJM's borders with its other neighbors, particularly PJM's border with MISO where most of the generators that are presently pseudo-tied to PJM are located. There are currently seven PARs inservice at the NYISO/PJM border that are operated to achieve specific components of scheduled interchange in accordance with the requirements of the JOA and Section 17.1.1.1.2 of the NYISO's Market Services Tariff. There are also three scheduled lines located at NYISO's

border with PJM that use direct current technology or variable frequency transformers to control power flows to match the interchange that is scheduled over those facilities.

The Ramapo, ABC and EFO PARs that are located in New York or New Jersey at the NYISO's border with PJM (collectively, the "NY/NJ PARs") have historically been operated to achieve scheduled interchange, including the Con Edison - PSEG 1000 MW wheel. Since 2013 the Ramapo PARs have also been operated to achieve M2M PAR coordination in accordance with Schedule D to the JOA. Proposed tariff revisions pending in Docket No. ER17-905-000 were developed to permit NYISO and PJM to use all of the NY/NJ PARs to achieve scheduled interchange and to perform M2M PAR coordination commencing May 1, 2017, after the 1000 MW wheel ends.

PJM's tariffs state that any resource that seeks an exception to PJM's Capacity Import
Limit cannot be subject to NERC tagging as an interchange transaction. PJM has stated that
the reasons it does not permit resources that seek exceptions to PJM's Capacity Import Limit to
use tagged interchange are (1) the interchange schedule is subject to interruption by a

Transmission Loading Relief ("TLR") 5, and (2) PJM is not able to monitor the performance of a
specific resource if its power is delivered as one component of a broader interchange schedule.

The Commission has stated that the concerns PJM annunciated are valid concerns. However,
these concerns do not present significant risks at PJM's border with the NYISO. Over the past
five years TLR 5s affecting export transactions scheduled from the NYISO to PJM across their

⁴⁹ See Section 5.14D of Attachment DD to PJM's Reliability Assurance Agreement.

⁵⁰ See PJM Interconnection, L.L.C., 147 FERC ¶ 61,060 at P 27 (2014); PJM Interconnection, L.L.C. v. Essential Power Rock Springs, LLC, et al., 151 FERC ¶ 61,208 at PP 96-97 (2015), order on reh'g, 155 FERC ¶ 61,157 at P 44 (2016).

common border have been exceedingly rare.⁵¹ With regard to PJM's ability to determine how a specific external Generation Capacity Resource performed, NYISO is willing to work with PJM to ensure PJM receives the metered output of the Generation Capacity Resource and the interchange MWs that were scheduled to PJM from the NYCA using a "capacity" priority. PJM is already aware of any deviations from the net interchange schedule between the NYISO and PJM.⁵² PJM can develop tariff rules to address when it will assign partial or full responsibility for any deviation from the net interchange schedule to a PJM Generation Capacity Resource that is located in New York.

The NYISO and PJM have proposed to operate the NY/NJ PARs to "facilitate interchange schedules while minimizing regional congestion costs," which is consistent with how the NYISO and PJM have operated the Ramapo PARs since 2013. The proposed "Target Values" for the NY/NJ PARs incorporate the net interchange schedule between PJM and the NYISO over the AC tie lines, distributed across the various NY/NJ PARs using allocations that NYISO and PJM developed with input from the affected transmission owners. Section 5.5 of Schedule D to the JOA makes clear that the interchange schedules it addresses are imports, exports and wheels-through the NYCA and PJM that are scheduled to flow over a proxy bus or a scheduled line. PJM's use of the NYISO's transmission system to serve PJM's Rockland Electric load is also explicitly addressed in Schedule D to the JOA.

⁵¹ The NYISO reviewed its operator logs from 2013 to the present and identified only seven instances of TLR 5s resulting in transaction curtailments at the NYCA/PJM border since January 1, 2013. No curtailments were identified after 2014. None of the curtailments involved exports from the NYCA to PJM.

 $^{^{52}}$ NYISO and PJM report inadvertent energy (the difference between scheduled power flows and actual power flows) to NERC on a monthly basis.

⁵³ See Section 7.2 of Schedule D to the proposed JOA revisions that were jointly filed by PJM and NYISO in Docket No. ER17-905-000.

⁵⁴ See "Table x.x" in Section 7.2.1 Schedule D to the proposed JOA revisions that were jointly filed by PJM and NYISO in Docket No. ER17-905-000.

Other than PJM service to its Rockland Electric load, Schedule D to the JOA does not allow for the use of untagged transmission service to deliver power across the NYISO/PJM border. PJM's unwillingness to permit external Generation Capacity Resources to use scheduled interchange to deliver energy to PJM across its border with the NYISO is inconsistent with the market rules that NYISO and PJM jointly developed for operating the NY/NJ PARs.⁵⁵ The inconsistency between PJM's requirements for how external Generation Capacity Resources must deliver energy to PJM and the rules NYISO and PJM jointly developed addressing the scheduling of transactions and operation of PARs at their common border could cause significant market inefficiencies and reliability concerns.

Failure to meet interchange flow targets can result in financial settlement obligations being assigned to PJM or to NYISO under the M2M PAR coordination rules in the JOA. So NYISO and PJM will use NY/NJ PAR taps to prevent energy produced by a pseudo-tied generator from flowing into PJM over any NY/NJ PAR-controlled interface when power flows fall outside of the targets specified in Schedule D to the JOA. When the NY/NJ PARs are operated to block untagged power flows, energy produced by an external Generation Capacity Resource would be expected to flow into PJM over the uncontrolled 230 kV interconnections between Pennsylvania and Western New York. These untagged power flows would have a different value than power flows over the NY/NJ PAR controlled facilities, would require the

⁵⁵ PJM's requirements for energy deliveries from external Generation Capacity Resources is also inconsistent with the jointly developed rules that were in Schedule D to the JOA from January 15, 2013 to April 31, 2017.

⁵⁶ See Schedule D to the JOA, Sections 7.2.2, 7.2.3, 8.1 and 8.3.

NYISO and PJM to consume NY/NJ PAR taps (a limited resource⁵⁷) to block untagged flows, and could present reliability concerns that are described in this Protest.

The efficiency and reliability concerns NYISO identifies in this section of its Protest could be avoided if PJM were to instead require external Generation Capacity Resources to use scheduled interchange to deliver capacity to PJM at PJM's border with the NYCA. As stated above, NYISO is prepared to work with PJM to ensure PJM has access to the information it requires to monitor the delivery of energy from external Generation Capacity Resources located in New York.

2. PJM's Pseudo-Tie Rules Appear to Require a Form of Transmission Service That Does Not Exist Within the NYISO

PJM would require that External Generation Capacity Resources obtain long-term firm point-to-point transmission service in order to bid into the PJM capacity market. This aspect of the PJM proposal is based on the traditional concept of physical reservation of transmission service as reflected in the *pro forma* OATT, and the Commission's rules under Order Nos. 888 and 890.

This concept, however, is fundamentally different from the manner in which the NYISO provides transmission service to its customers. In the NYISO, there are no express physical reservations of transmission capacity in the manner contemplated by traditional firm point-to-point service. Rather, in the NYISO, customers are entitled to schedule transactions between any two points on the system as long as such transactions are consistent with a security-constrained economic dispatch (as they will be in most circumstances). Essentially, any desired use of the transmission system can be accommodated as long as the transmission customer is willing to pay

⁵⁷ See Section 7.2 of Schedule D to the proposed JOA revisions that were jointly filed by PJM and NYISO in Docket No. ER17-905-000.

for the cost of congestion. The economic value of limited transmission capacity is allocated through the use of financial rights (Transmission Congestion Contracts) rather than through physical reservations on the NYISO's system. Customers holding such rights are thus able to hedge against congestion costs associated with transactions between specified points on the NYISO system. Under this approach, the NYISO makes the entire capacity of the New York State Transmission System available to customers, and most desired transactions are able to be accommodated, subject to payment of congestion costs.

The NYISO's financial reservation model has been in place since the NYISO commenced operations in 1999. The Commission has repeatedly found it to be just and reasonable. Indeed, it facilitates the efficient operation of competitive markets by ensuring that all available transmission capacity is able to be used, and by preventing the hoarding of scarce capacity by market participants. At the same time, however, it does not fit readily with the firm point-to-point requirement embodied in the PJM proposal. The NYISO does not provide firm point-to-point transmission service in the manner contemplated by the PJM proposal. The NYISO believes that it is possible for the concerns underlying the firm point-to-point requirement in the PJM proposal to be addressed, and for the NYISO and PJM to come up with a mutually-acceptable solution that ensures the deliverability of capacity to the PJM system, but

⁵⁸ See New York Independent System Operator, Inc., 125 FERC ¶ 61,274 (2008) (Confirming that NYISO's financial reservation model was consistent with or superior to the physical reservation requirements of Order No. 890's *pro forma* OATT.); *New York Independent System Operator, Inc.*, 123 FERC ¶ 61,134 (2008) (stating same).

⁵⁹ See Regional Transmission Organizations, Order No. 2000, 65 Fed. Reg. 809 (Jan. 6, 2000), FERC Stats. & Regs. ¶ 31,089 at pg. 31,126 (2000) (holding that systems based on locational prices and financial rights "provide a sound framework for efficient congestion management"), *order on reh'g*, Order No. 2000-A, 65 Fed. Reg. 12,088 (Feb. 25, 2000), FERC Stats. & Regs. ¶ 31,092 (2000), *aff'd*, Public Utility District No. 1 of Snohomish County, Washington v. FERC, 272 F.3d 607 (D.C. Cir. 2001).

that is consistent within the NYISO's financial reservation model. Such a solution, however, will require discussions and coordination between the NYISO and PJM.

The implementation of firm point-to-point service, as reflected in the *pro forma* OATT and the PJM proposal, is fundamentally incompatible with the NYISO's existing market rules, would cause needless delay and confusion among NYISO market participants and, perhaps most importantly, is unnecessary to accommodate the efficient export of NYCA capacity to PJM. It would be highly burdensome, and unjust and unreasonable, to require the NYISO to modify its rules simply to accommodate PJM's unilateral imposition of the point-to-point requirement on its external Generation Capacity Resources.

3. PJM's Commitment and Dispatch of a Pseudo-Tied New York Generator Would Cause Significant Day-Ahead and Real-Time Market Inefficiencies in New York

PJM's commitment and dispatch of pseudo-tied Generation Capacity Resources that are interconnected to the NYCA would cause significant inefficiencies in the NYISO's Day-Ahead and Real-Time Markets that would reduce the quality of NYISO's market solutions and could increase the costs incurred to serve NYCA loads.

If a Generation Capacity Resource that is directly interconnected to the NYCA but pseudo-tied to PJM does not participate in the NYISO's Day-Ahead Market ("DAM"), the NYISO will not be able to develop a least-cost Day-Ahead solution that incorporates the congestion that the operation of the pseudo-tied PJM Generation Capacity Resource is expected to cause in the NYCA. Unless PJM provides Day-Ahead schedules in advance of NYISO running its DAM NYISO Day-Ahead assumptions about the pseudo-tied generator's probable operation will introduce material uncertainties into the NYISO's Day-Ahead solution that could increase the total cost incurred to serve NYCA load in the DAM and/or in the Real-Time Market.

PJM has suggested that it may use Day-Ahead congestion management to reduce its expected impact on congestion management flowgates associated with PJM's external Generator Capacity Resources. NYISO and PJM have not developed a Day-Ahead congestion management process and there are only two redispatch flowgates active in NYISO's real-time congestion management process with PJM. The existence of PARs and other control devices at the NYISO's border with PJM limits the potential benefits of redispatching PJM generation to manage congestion on flowgates located inside the NYCA.

The NYISO schedules and dispatches generation in its real-time market using a 2.5 hour look-ahead RTC that achieves a least-cost commitment by anticipating changes in load, system configuration, and generator output. In order for NYISO's RTC to produce a least-cost solution, it must accurately reflect the expected congestion impacts caused by the operation of all generation. The inability to incorporate the expected future operation of PJM's pseudo-tied Generation Capacity Resources that are located in the NYCA will compromise efficiency.

The PJM Filing indicates⁶⁰ that redispatch coordination would be used to address transmission congestion on NYCA flowgates that is caused by PJM's scheduling and dispatch of a pseudo-tied Generation Capacity Resource. Redispatch coordination by PJM may present a less efficient solution to transmission congestion that is occurring in the NYCA than NYISO's RTC look-ahead commitment can produce for the following reasons:

M2M redispatch coordination is only engaged <u>after</u> congestion develops and the NYCA experiences congestion costs. RTC's look-ahead process proactively develops a least-cost solution to anticipated congestion and redispatches resources <u>before</u> congestion occurs. This permits RTC to incorporate generator commitment time and ramp constraints into its least-cost

⁶⁰ PJM Filing at 4, 14-15.

solution. In addition, the NYCA generators that are available for commitment or redispatch by RTC may have significantly higher shift factors on the NYCA transmission constraints that are represented by congestion management flowgates than generators located in PJM's Balancing Authority Area do.

The Day-Ahead and real-time market efficiency concerns that the NYISO identifies in this section of its Protest will not arise if PJM allows its external Generation Capacity Resources that are directly interconnected to the NYCA to be scheduled and dispatched by the NYISO, in accordance with the NYISO's market rules.

V. THE COMMISSION SHOULD DIRECT PJM TO WORK WITH THE NYISO TO DEVELOP MUTUALLY ACCEPTABLE ALTERNATIVE MEANS OF ADDRESSING PJM'S OBJECTIVES

For the reasons set forth in Section IV above, the PJM Filing is unjust and unreasonable, at least as applied to generation that is directly interconnected to the NYCA, and should not be accepted in its current form. PJM has neither made a complete filing nor demonstrated that its proposed tariff revisions are just and reasonable. Nor has PJM justified requiring the NYISO to make the sweeping changes to its Tariffs, market rules and software that would seem to be necessary to accommodate PJM's proposals without compromising reliability or market efficiency in New York.

PJM has indicated that it does not intend to enter into pseudo-tie arrangements that have not been agreed to by all affected parties, including native Balancing Authorities such as the NYISO.⁶¹ If this is true then there is no prospect that the PJM Filing's proposals would ever be implemented for generators that are directly interconnected to the NYCA because PJM's

⁶¹ See, e.g., January MRC Presentation at 5 ("PJM will not approve any Pseudo-Ties that do not have sign-off by all affected entities.").

proposed prerequisites cannot be satisfied and NYISO could not voluntarily agree to support a pseudo-tie to PJM under the terms and conditions included in the PJM Filing (or the, as of yet unfiled draft, PJM *pro forma* pseudo-tie agreement). The NYISO is willing to work with PJM to develop a method of selling capacity across their common border that would be acceptable to both PJM and the NYISO.

Accordingly, the Commission should reject PJM's filing and require PJM to submit generally applicable tariff rules that do not require PJM to use pseudo-ties at all of its borders and give PJM sufficient flexibility to accommodate regional differences. NYISO's requested relief will require PJM to abandon its stated goal of having one-size-fits-all uniform pseudo-tie arrangements in place with all of its neighbors. As NYISO's Protest makes clear, PJM's goal is unrealistic because PJM's proposal is not compatible with the NYISO's Tariffs, Agreements and market rules, because the interface between the NYCA and the PJM Control Area is different from PJM's border with its other neighbors, and because PJM is required to address all implementation issues associated with implementing pseudo-ties, including reliability and commercial obligations and other seams issues.

VI. CONCLUSION

Wherefore, NYISO respectfully requests that the Commission grant its intervention in the above-captioned proceeding, find that the PJM Filing's proposals are not just and reasonable, at least as applied to generators that are directly interconnected to the NYCA, and require PJM to submit generally applicable tariff rules that do not mandate the use of pseudo-ties and give PJM sufficient flexibility to accommodate regional differences at its borders. At minimum, the

⁶² See supra n. 8 regarding how Commission staff should address the PJM Filing if the Commission has not regained a quorum before the expiration of the statutory sixty day notice period.

⁶³ See PJM Filing at 4-5.

Commission should require PJM to make explicit in its tariff that pseudo-tie arrangements can only occur if the native Balancing Authority agrees and elects to execute a pseudo-tie agreement with PJM and the applicable generator. This requirement would codify in PJM's tariff the Commission's finding in prior proceedings.⁶⁴

Respectfully submitted,

/s/ Alex M. Schnell

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Dated: March 31, 2017

cc: Michael Bardee
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⁶⁴ See June 2015 Order at P 96.

CERTIFICATE OF SERVICE

I hereby certify that I have this day served the foregoing document upon each person designated on the official service list compiled by the Secretary in this proceeding in accordance with the requirements of Rule 2010 of the Rules of Practice and Procedure, 18 C.F.R. § 385.2010.

Dated at Rensselaer, NY this 8th day of May 2017.

By: /s/John C. Cutting

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