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May 21, 2024

VIA DMM

Hon. Michelle L. Phillips
Secretary to the Commission
New York State Public Service Commission
Department of Public Service
Three Empire State Plaza
Albany, NY 12223-1350

Re: *Case 24-T-0120; Application of Niagara Mohawk Power Corporation d/b/a National Grid for a Certificate of Environmental Compatibility and Public Need Pursuant to Article VII of the Public Service Law for its 345 kV Underground Service Transmission Laterals between its Expanded Clay Substation and Micron Technology Fabrication Areas; Status of System Impact Studies*

Dear Secretary Phillips:

On behalf of Niagara Mohawk Power Corporation d/b/a National Grid ("National Grid"), the purpose of this letter is to provide a status report on the System Impact Studies ("SIS") being performed for Micron Technology ("Micron") Fabrication ("Fab") areas 1 and 2. As you recall, the above referenced application is for the siting of the 345 kV underground service laterals from the Clay Substation to Micron.

Before a SIS is prepared, there must be an approved Study Scope. The Study Scope for the SIS for Micron Fab 1[1], which is expected to be in service in June 2026, was approved by the New York Independent System Operator ("NYISO") Operating Committee on December 14, 2023. A copy of the approved Study Scope for Fab 1 and the minutes of the Operating Committee are attached as *Exhibit 1* to this letter.[2]

The Study Scope for the SIS for Fab 2[3] was approved by the NYISO Operating Committee on May 16, 2024. A copy of the Study Scope for Fab 2 (which was recommended for approval by TPAS on May 3, 2024) and the approved motion by the Operating Committee

[1] The interconnection queue number for Fab 1 is Q1536 and was submitted under the name White Pine Phase 1.

[2] The Transmission Planning Advisory Committee ("TPAS"), which advises the Operating Committee of the NYISO, initially recommended approval of the Study Scope on October 2, 2023. The Study Scope was subsequently revised and the TPAS recommended approval of the revised Study Scope on December 1, 2023, for the Operating Committee's December 14, 2023 meeting. As a result of these revisions, the only available Study Scope on the NYISO website is redlined.

[3] The interconnection queue number for Fab 2 is Q1627.

is attached here as *Exhibit 2*. According to the Study Scope, the in-service date for Fab 2 is February 2029.

It is our understanding that the SIS for Fabs 3 and 4 have not yet been submitted to the NYISO and that the in-service date for Fab 4 is projected be sometime in the year 2041.

As part of the motion for waivers filed with the above referenced application, we requested either a waiver for the requirement that an SIS be included in the application or that National Grid be allowed to submit it at a later date. At this time, we do not have an estimated date of when the SIS for Fabs 1 and 2 will be completed. Therefore, National Grid requests that the application be deemed complete and allowed to move forward. Once the SIS is approved for Fabs 1 and 2, we will submit approval documentation to the Commission.

Thank you.

Sincerely,

BOND, SCHOENECK & KING, PLLC



Kevin M. Bernstein

/ajh
Encs.

EXHIBIT 1

For October 2nd, 2023, TPAS Recommendation
For October 11th, 2023, OC Approval

First revision for December 1st, 2023, TPAS Recommendation
For December 14th, 2023, OC Approval

Load Interconnection - Interconnection System Impact Study Scope

Queue #*1536: White Pine Phase 1* Project

1. Purpose

The purpose of this Interconnection System Impact Study ("SIS" or "Study") is to evaluate the impact of the proposed interconnection of White Pine Phase 1 ("Project"), which is being developed by Micron New York Semiconductor Manufacturing LLC ("~~Developer~~Eligible Customer"), on the reliability of the New York State Transmission System ("NYSTS"). The Study will be performed in accordance with Section 3.9 of the NYISO Open Access Transmission Tariff ("OATT").

The Project will be located in Onondaga County, NY. The proposed Point of Interconnection ("POI") will be at Clay 345 kV Substation. The Connecting Transmission Owner ("CTO") is Niagara Mohawk Power Corporation d/b/a National Grid ("National Grid").

The Project, as proposed, is a 480 MW load interconnection. The proposed load will utilize 480 MW of power on a continuous basis.

The Project proposes an In-Service Date of ~~April~~ June ~~2025~~2026.

The Study will assess the impact of the Project on the base case power system including Rochester Gas & Electric ("RG&E"), New York State Electric & Gas ("NYSEG"), New York Power Authority("NYPA"), LS Power and New York Transco ("TRANSCO") as Affected Systems. It will provide a list of the facilities (*i.e.,* CTO Interconnection Facilities and System Upgrade Facilities) required to reliably interconnect the Project, and non-binding good faith estimates of cost and time to construct those facilities.

The Study will be conducted in accordance with the Applicable Reliability Standards.

2. Interconnection Plan

The Study will include a description of the proposed facilities and the conceptual design of the interconnection to the system representation. The description will include a breaker one-line diagram depicting the proposed facilities and their integration with the existing facilities. The Study will also identify potential issues with the feasibility/constructability of the conceptual design of the proposed interconnection to the extent known based on the Study assumptions.

3. Study Period

The Study will be based on NYISO Class Year 2021 ATBA base cases that have the 2021 FERC 715 2026 system representation, or the Class Year 2023 ATBA base cases that have the 2023 FERC 715 2028 system presentation if available prior to the start of the analyses identified in this scope ("Base Cases"). The Study will be conducted using the steady state, stability, and short circuit Base Cases provided by the NYISO, and will include the representation of proposed projects that have already been cost allocated, up to and including Class Year 2021 (as listed in Appendix A of this scope).

4. Study Area

The Study will identify and evaluate the impact of the Project on the 115kV and above portions of the NYSTS in the following New York load zones: Zone **B** (Genesee), Zone **C** (Central), and Zone **E** (Mohawk) that are most likely to be affected by the Project. The Study will also evaluate the impact of the Project on the local system (below 115 kV) in the electrical proximity to the POI.

5. Base Case Conditions

The impact of the proposed Project will be evaluated for **summer peak, winter peak** and **light load** cases for the following base case conditions, and as specified under the subsequent sections of this Scope:

Case 1 - Base Case without the Project. The Base Cases will include the baseline system and the proposed projects listed in Appendix A of this scope. The short circuit Base Case will model all the projects as in-service. The steady state Base Case will normally model all projects as in-service and at full output but may model some projects as out-of-service or at less than full output as necessary to establish a feasible base dispatch. Generation will be dispatched in accordance with the NYISO Minimum Interconnection Standard[1].

Case 2 - Case 1 with the Project modeled as in-service at rated load of 480 MW. Generation will be re-dispatched in the steady state case, as needed, in accordance with the NYISO Minimum Interconnection Standard.

6. Analysis

Thermal, voltage, stability and short circuit analyses will be conducted to assess the performance of the base system conditions within the Study Area, with and without the Project, in accordance with Applicable Reliability Standards, guidelines, and study practices. Modifications to Base Cases, during analyses, will be documented in the Study Report.

[1] As defined in the NYISO Transmission Expansion and Interconnection Manual (NYISO TEI Manual).

6.1 Steady State Analyses: N-0 and N-1

Thermal and voltage steady state analyses, using PSS/E or a comparable load flow program, will be conducted for **summer peak** and **light load** cases, pre-contingency, and also for relevant Design Criteria Contingencies conditions, and will be limited to the Study Area.

Thermal limits will be assessed under both Normal Criteria and Emergency Criteria, using normal ratings pre-contingency and applicable post-contingency ratings *(e.g.*, Long-Term-Emergency, LTE, ratings or Short-Term-Emergency, STE, ratings).

Voltage limits will be assessed, pre- and post-contingency, using the applicable voltage limits.

6.2 Steady State Analyses: N-1-1

The Study will evaluate a limited selection of N-1-1 contingencies around the POI. Steady state analyses (**summer peak**) will be performed based on the N-1-1 contingency descriptions provided by the CTO(s) and/or the NYISO.

6.3 Short Circuit Analysis

Short circuit analysis will be performed, using ASPEN, to evaluate the impact of the Project on system protection and adequacy of existing circuit breakers, other fault current interrupting devices, and related equipment. All Project impacts of 100 A or more will be identified.

This analysis will be performed in accordance with the NYISO Guideline for Fault Current Assessment (Attachment I of the NYISO Transmission Expansion and Interconnection Manual), and in accordance with Connecting Transmission Owner and Affected System(s) criteria, to the extent such criteria are recognized as Applicable Reliability Standards.

~~6.3~~6.4 Transfer Assessments

The transfer assessment will determine the incremental impact of the Project on the Normal and Emergency transfer limits of the Volney East and West Central interfaces (opened and closed definitions, as applicable) in accordance with Applicable Reliability Standards, Guidelines and NYISO study practices. The transfer limits will be evaluated in the predominant north-to-south direction, unless otherwise specified. Sufficient analyses will be conducted to determine the most limiting of the thermal, voltage, or stability limits under **summer peak** load conditions.

~~6.4~~6.5 Stability Analysis

Stability analysis, using PSS/E v34, will be performed for **summer peak, winter peak** and **light load** conditions to determine the impact of the Project on system performance within the Study Area. This analysis will evaluate the performance of the system for Design Criteria Contingencies and will address issues including, but not limited to, transient stability, dynamic stability *(i.e.*, damping), critical clearing time, coordination of protection and control systems, and performance of any Special Protection Systems that may be affected. These analyses will explicitly consider the voltage and frequency ride-through capabilities of the facility.

7. Modeling Assumptions

7.1 Phase angle regulators ("PARs"), switched shunts, and LTC transformers will be modeled as regulating pre-contingency and non-regulating post-contingency. The Study will use PAR schedules established by the NYISO in coordination with the neighboring ISOs through the NERC and NPCC base case development processes. PARs may be adjusted as necessary to relieve pre-contingency overloads.

7.2 SVC and FACTS devices will be set to zero pre-contingency and allowed to operate to full range post-contingency.

8. Evaluation and Identification of Upgrades

If the Study results indicate that the Project, as proposed, would result in violations of Applicable Reliability Standards, analyses will be performed to identify any System Upgrade Facilities or Distribution Upgrades (if applicable) that would be required to meet the NYISO Minimum Interconnection Standard. When such upgrades are identified, sufficient re-assessments (among those identified in this scope) should be performed in order to assure that the upgrades do not cause any adverse reliability impact on the Study Area.

9. Cost Estimates of Facilities and Time to Construct

A description of facilities *(i.e.*, CTO Interconnection Facilities and System Upgrade Facilities, if any) required to interconnect the Project to the NYSTS, or the Distribution System (if applicable), and non-binding good faith estimates of cost and time to construct those facilities, will be provided.

10. Report

The Study Report will document the summary of the results relevant to the project impacts, project description, project modeling, study assumptions, criteria and methodology, mitigation solutions and their impact assessment, and conclusions, for each of the analyses identified in this scope.

Appendix A

List of Other Proposed Projects to be Modeled in the Base Case

Queue# *1536: White Pine Phase 1* Project

Queue Pos.	Owner / Project Name	MW (S|W)
521	Bull Run Energy LLC / Bull Run II Wind	449|449
571	Heritage Renewables, LLC / Heritage Wind	200.1|200.1
629	Silver Lake Solar, LLC / Silver Lake Solar	24.9|24.9
631	CHPE LLC / NS Power Express	1000|1000
710	Horseshoe Solar Energy LLC/ Horseshoe Solar	180|180
717	EDF Renewables Development, Inc. / Morris Ridge Solar Energy Center	177|177
758	Sithe/Independence Power Partners, LP / Sithe Independence	9|27
766	Sunrise Wind LLC / Sunrise Wind	880|880
783	ConnectGen Chautauqua County LLC / South Ripley Solar and BESS	270|270
787	Levy Grid, LLC / Levy Grid, LLC	150|150
801	Prattsburgh Wind, LLC / Prattsburgh Wind Farm	147|147
805	Oxbow Hill Solar, LLC / Oxbow Hill Solar	140|140
811	Hecate Energy Cider Solar LLC / Cider Solar	500|500
815	Bayonne Energy Center / Bayonne Energy Center III	49.8|49.8
835	Astoria Generating Company, LP / Luyster Creek Energy Storage 1	56|56
840	Hecate Energy LLC / Swiftsure Energy Storage	650|650
864	Greens Corners Solar LLC / NY38 Solar	120|120
883	Garnet Energy Center, LLC / Garnet Energy Center	200|200
887	CHPE LLC / CH Uprate	250|250
907	Harlem River ESS, LLC / Harlem River Yard	100|100
929	EDF Renewables Development, Inc. / Morris Ridge Battery Storage	83|83
931	East River ESS, LLC / Astoria Energy Storage	100|100
956	Holtsville 138 kV Energy Storage	110|110
959	Empire Offshore Wind LLC / EI Oceanside 2	1260|1260
965	Yaphank Energy Storage LLC / Yaphank Energy Storage	76.8|77.6
987	Sunrise Wind LLC / Sunrise Wind 2	44|44

Operating Committee
December 14, 2023
NYISO
10:00 a.m. – 1:55 p.m.

1. **Administrative Matters**
   Mr. Greg Yozzo (Central Hudson) called the meeting to order. Meeting participants announced themselves and there was a quorum.

2. **Operations Report – November 2023**
   Mr. Aaron Markham (NYISO) reviewed the Operations report included with the meeting material. There were no questions.

3. **Central East Limits for Loss of ISO New England Source**
   Mr. Raj Dontireddy (NYISO) reviewed the presentation included with the meeting material.

   Motion #1:
   The Operating Committee (OC) hereby approves the Loss of ISO-New England Source Impact on Central East draft report as presented and discussed at the December 14, 2023 OC meeting.
   The motion passed unanimously by show of hands.

4. **Study Reports**

   Q#790 Atlantic Shores Offshore Wind 9
   The developer provided a brief description of the project. Ms. Diana Hernandez (NYISO) reviewed the study report included with the meeting material.

   Motion #2a:
   The Operating Committee (OC) hereby approves the Q#790 Atlantic Shores Offshore Wind 9 Interconnection System Reliability Impact Study report as presented and discussed at the December 14, 2023 OC meeting. ***The motion passed unanimously by show of hands.***

   Q#1081 KCE NY 28
   The developer provided a brief description of the project. Ms. Diana Hernandez (NYISO) reviewed the study report included with the meeting material.

   Motion #2b:
   The Operating Committee (OC) hereby approves the Q#1081 KCE NY 28 Interconnection System Reliability Impact Study report as presented and discussed at the December 14, 2023 OC meeting.
   The motion passed unanimously by show of hands.

5. **Study Scopes**

   Q#1292 Hemlock Hollow Wind
   The developer provided a brief description of the project. Ms. Diana Hernandez (NYISO) reviewed the study report included with the meeting material.

Motion #3a:
The Operating Committee (OC) hereby approves the Q#1292 Hemlock Hollow Wind System Reliability Impact Study scope as presented and discussed at the December 14, 2023 OC meeting.
The motion passed unanimously by show of hands.

Q#1536 White Pine Phase 1
The developer provided a brief description of the project. Ms. Diana Hernandez (NYISO) reviewed the study report included with the meeting material.

Motion #3b:
The Operating Committee (OC) hereby approves the Q#1536 White Pine Phase 1 Interconnection System Reliability Impact Study scope as presented and discussed at the December 14, 2023 OC meeting.
The motion passed unanimously by show of hands.

6. Comprehensive Order No. 2023 Compliance Proposal
Mr. Thinh Nguyen (NYISO) reviewed the presentation included with the meeting material.

In response to a question, Ms. Sara Keegan (NYISO) said the transmission process time in the NYISO's presentations thus far to stakeholders have always been tentative. The pre-application process would be effective based on when the NYISO submits its filing to FERC and what effective date the NYISO requests. In response to a question, Ms. Keegan said the NYISO has not determined whether the effective date would be the next day after it files. Ms. Doreen Saia (Shell) said if the effective date would not be the next day after the NYISO files, then developers would have a very tight window for the pre-application process, and if the NYISO requested a 60-day effective date after April 3, then there is almost no time for developers to utilize the pre-application process. Ms. Keegan said it was not accurate to characterize the timeline as a limited window for the pre-application process. It would be the window of submitting pre-application requests and developers would need to have it ready during that window. The pre-application process and evaluations are performed beyond that window. Also, if developers are seeking information regarding the feasibility of a project, developers can submit a new interconnection request in the NYISO's existing interconnection process and request a limited feasibility study, which provides more information than the pre-application process. Ms. Saia asked that the NYISO clarify its slide to that "Pre-Application Pause" be revised to "Pre-Application Request Pause." Ms. Keegan noted that the other slides in the presentation were clear about the pause phase but noted that the OC minutes could reflect the clarification.

Mr. Tony Abate (NYPA) said the TOs, as part of the Pre-Application Process, would provide a heat map as required by FERC. Developers could choose two potential POIs to help them understand that they have the best information so that developers can make a selection for their project, but it is important to note, that like today's interconnection process, no POI is guaranteed under the new process. The TOs want to make sure that a project passes the infeasibility screen before a project enters the first phase of the cluster study.

In response to a question, Mr. Nguyen said based on its current timeline, the first heat map would be available in May 2026.

In response to a question, Mr. Nguyen said the NYISO would publish knowledge articles for developers and is considering hosting a series of workshops in Q2 2024 for developers to help educate them about the new process.

Ms. Saia requested the NYISO to highlight the project modification aspect of its compliance plan in its filing letter because it is a significant change from the current process.

7. Subcommittee and Working Group Updates

- **CDAS –** Mr. Kirk Dixon (NYISO) reported that CDAS met early this month. There were no items on their agenda that advanced to the OC. Mr. Dixon noted that Ryan Coalla (Central Hudson) is stepping down as CDAS Chair and Greg Sacco from New York Power Authority is starting in 2024. The next CDAS meeting is January 11.
- **ESPWG –** Mr. Tim Lundin (LS Power) reported that ESPWG has met once since the November 15th OC. Mr. Lundin noted nine transmission owners provided update to their LTPs, there was a NYCPPTN update, and NY Offshore Wind Alliance gave a presentation on PPTN Risk Factors, we discussed the Coordinated Grid Planning process and how NYISO is planning to support the project, we reviewed the reference case updates for the 2023-2042 System & Resource Outlook Update and DNV presented modeling results for land-based wind and solar profiles. The next ESPWG is scheduled for December 19.
- **IITF** – Mr. Kirk Dixon (NYISO) reported that IITF met once since the last OC meeting, and they discussed the FERC Order 2023 presentation.
- **SOAS –** Mr. Kirk Dixon (NYISO) reported that SOAS met early this month, topics reviewed included the grid operations and training reports for the month of November and reviewed the loss of ISO New England source impact on Central East study. Mr. Dixon noted that John Hart (Central Hudson) is stepping down as SOAS Chair and Ken Buske from National Grid is starting in 2024. The next SOAS meeting is January 11.
- **TPAS** – Mr. Scott Leuthauser, (HQ US) reported that the group met on December 1. ESPWG. Topics discussed included two studies study scopes and two study reports, both approved at today's OC. In addition, a status update was provided on the class year and the expedited deliverability studies. The next TPAS meeting is January 8.

8. New York State Reliability Council Update

Mr. Aaron Markham (NYISO) stated the New York State Reliability Council met last Friday. The council approved an Installed Reserve Margin (IRM) of twenty-two percent for next year; and a draft PRR on inverter- based resources has been posted and comments are due December 26. In addition, Mr. Markham noted that based on the feedback that folks provided on this topic at the previous OC, the comment period was extended to the full forty- five days.

9. New Business

The meeting adjourned at 1:55 p.m.

The next meeting is on Thursday, January 18, 2024.

EXHIBIT 2

For May 3rd, 2024, TPAS Recommendation
For May 16th, 2024, OC Approval

Load Interconnection - Interconnection System Impact Study Scope

Queue #*1627: Micron Fab 2* Project

1. Purpose

The purpose of this Interconnection System Impact Study ("SIS" or "Study") is to evaluate the impact of the proposed interconnection of Micron Fab 2 ("Project"), which is being developed by Micron New York Semiconductor Manufacturing LLC ("Eligible Customer"), on the reliability of the New York State Transmission System ("NYSTS"). The Study will be performed in accordance with Section 3.9 of the NYISO Open Access Transmission Tariff ("OATT").

The Project will be located in Onondaga County, New York. The proposed Point of Interconnection ("POI") will be at the Clay 345 kV substation. The Connecting Transmission Owner ("CTO") is Niagara Mohawk Power Corporation d/b/a National Grid ("National Grid").

The Project, as proposed, is a 576 MW load interconnection. The proposed load will utilize 576 MW of power on a continuous basis.

The Project proposes an In-Service Date of February 2029.

The Study will assess the impact of the Project on the base case power system including Rochester Gas & Electric ("RG&E"), New York State Electric & Gas ("NYSEG"), New York Power Authority ("NYPA"), LS Power, and New York Transco ("TRANSCO") as Affected Systems. It will provide a list of the facilities (CTO Interconnection Facilities and System Upgrade Facilities) required to reliably interconnect the Project, and non-binding good faith estimates of cost and time to construct those facilities.

The Study will be conducted in accordance with the Applicable Reliability Standards.

2. Interconnection Plan

The Study will include a description of the proposed facilities and the conceptual design of the interconnection to the system representation. The description will include a breaker one-line diagram depicting the proposed facilities and their integration with the existing facilities. The Study will also identify potential issues with the feasibility/constructability of the conceptual design of the proposed interconnection to the extent known based on the Study assumptions.

3. Study Period

The Study will be based on NYISO Class Year 2023 ATBA base cases ("Base Cases") that have the 2023 FERC 715 2028 system representation. The Study will be conducted using the steady state, stability, and short circuit Base Cases provided by the NYISO, and will include the representation of proposed projects that have already been cost allocated, up to and including Class Year 2021 (as listed in Appendix A of this scope).

4. Study Area

The Study will identify and evaluate the impact of the Project on the 115kV and above portions of the NYSTS in the following New York load zones: Zone **B** (Genesee), Zone **C** (Central), and Zone **E** (Mohawk) that are most likely to be affected by the Project. The Study will also evaluate the impact of the Project on the local system (below 115 kV) in the electrical proximity to the POI.

5. Base Case Conditions

The impact of the proposed Project will be evaluated for **summer peak, winter peak,** and **light load** cases for the following base case conditions, and as specified under the subsequent sections of this Scope:

Case 1 – Base Case without the Project. The Base Cases will include the baseline system and the proposed projects listed in Appendix A of this scope. The short circuit Base Case will model all the projects as in-service. The steady state Base Case will normally model all projects as in-service and at full output but may model some projects as out-of-service or less than full output as necessary to establish a feasible base dispatch. Generation will be dispatched in accordance with the NYISO Minimum Interconnection Standard.

Case 2 – Case 1 with Q1536[1] load project and Q1627 load Project modeled as in-service at the rated total load of 1056 MW. Generation will be re-dispatched in the steady state case, as needed, in accordance with the NYISO Minimum Interconnection Standard.

Case 1a - Sensitivity case with nearby load projects and without the Project. Case 1 with nearby projects listed in Appendix B modeled as in-service at the rated load. Generation will be re-dispatched in the steady state case, as needed, in accordance with the NYISO Minimum Interconnection Standard.

Case 2a – Sensitivity case with Project modeled as in-service. Case 1a with Q1536 load project and Q1627 load Project modeled as in-service at the rated load. Generation will be re-dispatched in the steady state case, as needed, in accordance with the NYISO Minimum Interconnection Standard.

[1] Q1536 White Pine Phase 1 Project is a 480 MW load project proposed by the same Eligible Customer at the same POI as Q1627.

6. Analysis

Thermal, voltage, stability and short circuit analyses will be conducted to assess the performance of the base system conditions within the Study Area, with and without the Project, in accordance with Applicable Reliability Standards, guidelines, and study practices. Modifications to Base Cases, during analyses, will be documented in the Study Report.

6.1 Steady State Analyses: N-0 and N-1

Thermal and voltage steady state analyses, using PSS/E or a comparable load flow program, will be conducted for **summer peak** and **light load** cases, pre-contingency and also for relevant Design Criteria Contingencies conditions, and will be limited to the Study Area.

Thermal limits will be assessed under both Normal Criteria and Emergency Criteria, using normal ratings pre-contingency and applicable post-contingency ratings *(e.g.*, Long-Term-Emergency, LTE, ratings or Short-Term-Emergency, STE, ratings).

Voltage limits will be assessed, pre- and post-contingency, using the applicable voltage limits.

6.2 Steady State Analyses: N-1-1

The Study will evaluate a limited selection of N-1-1 contingencies around the POI. Steady state analyses (**summer peak**) will be performed based on the N-1-1 contingency descriptions provided by the CTO(s) and/or the NYISO.

6.3 Transfer Assessments

The transfer assessment will determine the incremental impact of the Project on the Normal and Emergency transfer limits of the **Volney East, West Central, Central East,** and **NY-Ontario/Ontario-NY**[2] interfaces (opened and closed definitions, as applicable) in accordance with Applicable Reliability Standards, Guidelines, and NYISO study practices. The transfer limits will be evaluated in the predominant north-to-south direction, unless otherwise specified. Sufficient analyses will be conducted to determine the most limiting of the thermal, voltage, or stability limits under **summer peak** load conditions.

6.4 Short Circuit Analysis

[2] Thermal transfer limit only

Short circuit analysis will be performed, using ASPEN, to evaluate the impact of the Project on system protection and adequacy of existing circuit breakers, other fault current interrupting devices, and related equipment. All Project impacts of 100 A or more will be identified.

This analysis will be performed in accordance with the NYISO Guideline for Fault Current Assessment (Attachment I of the NYISO Transmission Expansion and Interconnection Manual), and in accordance with Connecting Transmission Owner and Affected System(s) criteria, to the extent such criteria are recognized as Applicable Reliability Standards.

6.5 Stability Analysis

Stability analysis, using PSS/E v34, will be performed for **summer peak**, **winter peak** and **light load** conditions to determine the impact of the Project on system performance within the Study Area. This analysis will evaluate the performance of the system for Design Criteria Contingencies and will address issues including, but not limited to, transient stability, dynamic stability *(i.e.*, damping), critical clearing time, coordination of protection and control systems, and performance of any Special Protection Systems that may be affected. These analyses will explicitly consider the voltage and frequency ride-through capabilities of the facility.

7. Modeling Assumptions

7.1 Phase angle regulators ("PARs"), switched shunts, and LTC transformers will be modeled as regulating pre-contingency and non-regulating post-contingency. The Study will use PAR schedules established by the NYISO in coordination with the neighboring ISOs through the NERC and NPCC base case development processes. PARs may be adjusted as necessary to relieve pre-contingency overloads.

7.2 SVC and FACTS devices will be set to zero pre-contingency and allowed to operate to full range post-contingency.

8. Evaluation and Identification of Upgrades

If the Study results indicate that the Project, as proposed, would result in violations of Applicable Reliability Standards, analyses will be performed to identify any System Upgrade Facilities or Distribution Upgrades (if applicable) that would be required to meet the NYISO Minimum Interconnection Standard. When such upgrades are identified, sufficient re-assessments (among those identified in this scope) should be performed in order to assure that the upgrades do not cause any adverse reliability impact on the Study Area.

9. Cost Estimates of Facilities and Time to Construct

A description of facilities *(i.e.*, CTO Interconnection Facilities and System Upgrade Facilities, if any) required to interconnect the Project to the NYSTS, or the Distribution System (if applicable), and non-binding good faith estimates of cost and time to construct those facilities, will be provided.

10. Report

The Study Report will document the summary of the results relevant to the project impacts, project description, project modeling, study assumptions, criteria and methodology, mitigation solutions and their impact assessment, and conclusions, for each of the analyses identified in this scope.

Appendix A

List of Other Proposed Projects to be Modeled in the Base Case
Queue#*1627: Micron Fab 2* Project

Queue Pos.	Owner / Project Name	MW (S|W)
521	Bull Run Energy LLC / Bull Run II Wind	449|449
571	Heritage Renewables, LLC / Heritage Wind	200.1|200.1
629	Silver Lake Solar, LLC / Silver Lake Solar	24.9|24.9
631	CHPE LLC / NS Power Express	1000|1000
710	Horseshoe Solar Energy LLC/ Horseshoe Solar	180|180
717	EDF Renewables Development, Inc. / Morris Ridge Solar Energy Center	177|177
758	Sithe/Independence Power Partners, LP / Sithe Independence	9|27
766	Sunrise Wind LLC / Sunrise Wind	880|880
783	ConnectGen Chautauqua County LLC / South Ripley Solar and BESS	270|270
787	Levy Grid, LLC / Levy Grid, LLC	150|150
801	Prattsburgh Wind, LLC / Prattsburgh Wind Farm	147|147
805	Oxbow Hill Solar, LLC / Oxbow Hill Solar	140|140
811	Hecate Energy Cider Solar LLC / Cider Solar	500|500
815	Bayonne Energy Center / Bayonne Energy Center III	49.8|49.8
835	Astoria Generating Company, LP / Luyster Creek Energy Storage 1	56|56
840	Hecate Energy LLC / Swiftsure Energy Storage	650|650
864	Greens Corners Solar LLC / NY38 Solar	120|120
883	Garnet Energy Center, LLC / Garnet Energy Center	200|200
887	CHPE LLC / CH Uprate	250|250
907	Harlem River ESS, LLC / Harlem River Yard	100|100
929	EDF Renewables Development, Inc. / Morris Ridge Battery Storage	83|83
931	East River ESS, LLC / Astoria Energy Storage	100|100
956	Holtsville 138 kV Energy Storage	110|110
959	Empire Offshore Wind LLC / EI Oceanside 2	1260|1260
965	Yaphank Energy Storage LLC / Yaphank Energy Storage	76.8|77.6
987	Sunrise Wind LLC / Sunrise Wind 2	44|44
979	North Country Data Center	176|176

Appendix B

List of Other Proposed Projects to be Modeled in the Sensitivity Case

Queue #*1627: Micron Fab 2* Project

Queue Pos.	Owner / Project Name	MW (S|W)
1484	580 STAMP Load Increase	300.0 | 300.0

Operating Committee Meeting

May 16, 2024

Final Motions

Motion #1:

The Operating Committee (OC) hereby approves the meeting minutes from March 15, 2024, April 11, 2024, and April 19, 2024.

The motion passed unanimously by show of hands.

Motion #2:

The Operating Committee has reviewed Con Edison's procedures for compliance with Application No. 69 of the NYSRC Rule I-R3, and hereby approves such procedures as presented and discussed at the May 16, 2024 meeting.

The motion passed unanimously by show of hands.

Motion #3:

The Operating Committee has reviewed PSEG Long Island's procedures for compliance with Application No. 70 of the NYSRC Rule G.3, and hereby approves such procedures as presented at the May 16, 2024 meeting.

The motion passed unanimously by show of hands.

Motion #4:

The Operating Committee ("OC") hereby approves the Summer 2024 Operating Study Report as presented and discussed at the May 16, 2024 OC meeting.

The motion passed unanimously by show of hands.

Motion #5:

The Operating Committee ("OC") hereby approves the HQTE-NYISO Cedars Dennison Export Transfer Limit Study as presented and discussed at the May 16, 2024 OC meeting.

The motion passed unanimously by show of hands.

Motion #6:

The Operating Committee (OC) hereby approves the 2024 Fault Current Assessment as presented and discussed at the May 16,2024 OC meeting.

The motion passed unanimously by show of hands with abstentions.

Motion #7:

The Operating Committee (OC) hereby approves the revised Operating Protocol for Astoria Fault Current Mitigation as presented and discussed at the May 16,2024 OC meeting.

The motion passed unanimously by show of hands with abstentions.

Motion #8:

The Operating Committee (OC) hereby approves the CY23 Preliminary DIS report as presented and discussed at the May 16, 2024 OC meeting.

The motion passed unanimously by show of hands.

Motion #9:

The Operating Committee (OC) hereby approves the Q#1627 Micron Fab 2 Interconnection System Impact Study scope as presented and discussed at the May 16, 2024 OC meeting.

The motion passed unanimously by show of hands.

Motion #10a:

The Operating Committee (OC) hereby approves the Q#1292 Hemlock Hollow Wind Interconnection System Reliability Impact Study report as presented and discussed at the May 16, 2024 OC meeting.

The motion passed unanimously by show of hands.

Motion #10b:

The Operating Committee (OC) hereby approves the Q#1365 Queensboro Renewable Express Circuit A Interconnection System Impact Study report as presented and discussed at the May 16, 2024 OC meeting.

The motion passed unanimously by show of hands.

Motion #10c:

The Operating Committee (OC) hereby approves the Q#1366 Queensboro Renewable Express Circuit B Interconnection System Impact Study report as presented and discussed at the May 16, 2024 OC meeting.

The motion passed unanimously by show of hands.

Motion #10d:

The Operating Committee (OC) hereby approves the Q#1116 Blue Hill Wind Interconnection System Reliability Impact Study report as presented and discussed at the May 16, 2024 OC meeting.

The motion passed unanimously by show of hands.

Motion #10e:

The Operating Committee (OC) hereby approves the Q#1322 Holtsville West Storage, LLC Interconnection System Reliability Impact Study report as presented and discussed at the May 16, 2024 OC meeting.

The motion passed unanimously by show of hands.

Motion #10f:

The Operating Committee (OC) hereby approves the Q#1206 NY Interconnection 2 Interconnection System Reliability Impact Study report as presented and discussed at the May 16, 2024 OC meeting.
The motion passed unanimously by show of hands.

Motion #10g:

The Operating Committee (OC) hereby approves the Q#1310 QMB1 Energy Storage Interconnection System Reliability Impact Study report as presented and discussed at the May 16, 2024 OC meeting.
The motion passed unanimously by show of hands.