

Distributed Generation Interconnection

National Grid Reporting Requirements – Affected System Operator Studies

Paragraph 4 Monthly Report

May 15, 2020

The Narragansett Electric Company (NECo) is experiencing Distributed Generation (DG) saturation in certain regions and at certain substations that indicate the potential need for an Affected System Operator (ASO) study that would affect three or more DG applications or more than 15 MW of DG capacity in the following 6 months. Below is a list of the specific regions and substations where NECo is experiencing DG saturation. This Paragraph 4 Monthly Report (Paragraph 4 Report) provides an update since NECo's previous Paragraph 4 Report on the potential need for an ASO study in such regions and substations, as well as the actions NECo is taking to prevent, mitigate, and prepare for such an occurrence while working with its transmission provider, New England Power (NEP). The information in this Paragraph 4 Report is in addition to the other information and reporting NECo is providing under the Reporting Requirements with respect to potential and ongoing ASO studies.

Attachment 1

Attachment 1 lists the substations with on-going ASO Studies currently being reported under the Reporting Requirements as well as substations for which any future applications over 1MW that propose to be connected to one of these substations will require an ASO study due to DG saturation over 5MW at an individual substation and/or over multiple substations fed from a common transmission injection point.

Potential ASO Studies for Pending Applications

There are no new substations since NECo's previous Paragraph 4 Report that have the potential need for an ASO study that would affect three or more DG applications or more than 15 MW of DG capacity in the next 6 months.

The below table lists the substations that have the potential need for an ASO study that would affect three or more DG applications or more than 15 MW of DG capacity in the following 6 months. Please note that these stations are not part of any of the ongoing ASO Studies. NECo identified the potential need based on the fact that at least one of the Generator Notification Forms (GNFs) for each of these substations that was presented to ISO-NE was returned for further analysis.

| Substation Name | Region | DG Penetration Level |
|------------------------|---------------|-----------------------------|
| CHOPMIST SUBSTATION | Capital | Between 5MW and 15MW |
| COVENTRY SUBSTATION | Coastal | Between 5MW and 15MW |
| JEPSON SUBSTATION | Coastal | >15MW |
| KILVERT ST. SUBSTATION | Coastal | Between 5MW and 15MW |

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|------------------------------|---------|----------------------|
| LAFAYETTE SUBSTATION | Coastal | >15MW |
| Pawtucket SUBSTATION | Capital | <5MW |
| POINT STREET SUBSTATION | Capital | Between 5MW and 15MW |
| PONTIAC SUBSTATION | Capital | Between 5MW and 15MW |
| QUONSET SUBSTATION | Coastal | Between 5MW and 15MW |
| RIVERSIDE SUBSTATION | Capital | <5MW |
| STAPLES SUBSTATION | Capital | Between 5MW and 15MW |
| WARREN SUBSTATION | Capital | Between 5MW and 15MW |
| WASHINGTON SUBSTATION | Capital | Between 5MW and 15MW |
| WICKFORD JUNCTION SUBSTATION | Coastal | >15MW |
| WOONSOCKET SUBSTATION | Capital | >15MW |
| DAVISVILLE SUBSTATION | Coastal | Between 5MW and 15MW |

Action Plan/Next Steps

As reported in the January 2020 Paragraph 4 Report, NECo is taking the following actions to prevent, mitigate, and prepare for such an occurrence for the above applications:

- NECo will continue to submit GNFs for all pre-ISA projects as soon as they reach the 20-business day mark during the distribution impact study stage.
- For the substations listed above, NECo will provide NEP the list of pending applications for NEP to consider as part of its initial assessment in coordination with ISO-NE as to what level of ASO study will be required.
- NECo will provide notification to the PUC and send notifications to affected customers per Paragraph 1 or Paragraph 5 and Paragraph 6 of the Reporting Requirements, as applicable.

Potential ASO Studies for Future Applications

The below table lists the substations for which any future applications over 1MW that propose to be connected to one of these substations will require an ASO study due to DG saturation over 5MW at an individual substation and/or over multiple substations fed from a common transmission injection point.

| Substation Name | Region | DG Penetration Level |
|-----------------------|---------|----------------------|
| BRISTOL SUBSTATION | Capital | Between 5MW and 15MW |
| CHOPMIST SUBSTATION | Capital | Between 5MW and 15MW |
| COVENTRY SUBSTATION | Coastal | Between 5MW and 15MW |
| DAVISVILLE SUBSTATION | Coastal | Between 5MW and 15MW |
| DEXTER SUBSTATION | Coastal | Between 5MW and 15MW |
| ELMWOOD SUBSTATION | Capital | Between 5MW and 15MW |

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|--------------------------|---------|----------------------|
| JEPSON SUBSTATION | Coastal | >15MW |
| LAFAYETTE SUBSTATION | Coastal | >15MW |
| MINK STREET SUBSTATION | MA | <5MW |
| POINT STREET SUBSTATION | Capital | Between 5MW and 15MW |
| WARREN SUBSTATION | Capital | Between 5MW and 15MW |
| WOONSOCKET SUBSTATION | Capital | >15MW |
| HIGHLAND PARK SUBSTATION | Capital | < 1 MW |
| WEST KINGSTON SUBSTATION | Coastal | < 1 MW |

Action Plan/Next Step

NECo is taking the following actions to prevent, mitigate, and prepare for such an occurrence for the above applications:

- NECo will publish on its website (<https://ngus.force.com/s/article/RI-DG-Group-Transmission-Study-Update>), the above list of substations that will require ASO study for future applications.
- In all future pre-application reports in these areas, NECo will notify the proposed project of the status of a likely ASO study in the future if the request may be served from one of the substations mentioned above.

Force Majeure Event

NECo is informing all new applicants that due to the developing COVID-19 crisis, a Force Majeure Event has been declared pursuant to the “Standards for Connecting Distributed Generation”, RIPUC No. 2180 (“Tariff”) Section 3.0., and that customers will be kept informed of the scope and duration (to extent known) of this Force Majeure Event and of the steps the Company is taking to mitigate the effects of the Event on its performance through periodic updates on the Company’s distributed generation website: <https://ngus.force.com/s/article/RI-Force-Majeure-Declarations>.