

Paragraph 4 Monthly Report

January 15th, 2020

Distributed Generation Interconnection

National Grid Reporting Requirements – Affected System Operator Studies

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, 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).

Ongoing ASO Studies

The Attachment 1 lists substations where NEP is currently conducting ASO Studies for groups of applications on behalf of NECo Customers. Any future applications for projects over 1 MW connected to these substations will require ASO studies.

Potential ASO Studies for Pending Applications

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. 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
Westerly Substation	Coastal	Between 5MW and 15MW
Pawtucket Substation	Capital	>15MW
Staples Substation	Capital	Between 5MW and 15MW
Kent County Substation	Coastal	>15MW

Action Plan/Next Steps

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 of the Reporting Requirements.

Potential ASO Studies for Future Applications

The below table indicates the list of substations where an ASO study will be required for any future application connecting to that substation. Currently, there are no pending applications at these substations requiring GNF approval. However, future applications to these substations for over 1 MW will require ASO studies due to DG saturation at these substations.

Substation Name	Region	DG Penetration Level
COVENTRY SUBSTATION	Coastal	Between 5MW and 15MW
DAVISVILLE SUBSTATION	Coastal	Between 5MW and 15MW
HIGHLAND PARK SUBSTATION	Capital	Between 5MW and 15MW
HOPKINS HILL SUBSTATION	Coastal	>15MW
WEST KINGSTON SUBSTATION	Coastal	Between 5MW and 15MW
DEXTER SUBSTATION	Coastal	Between 5MW and 15MW
FARNUM PIKE SUBSTATION	Capital	Between 5MW and 15MW
JEPSON SUBSTATION	Coastal	>15MW
POINT STREET SUBSTATION	Capital	Between 5MW and 15MW
WARREN SUBSTATION	Capital	Between 5MW and 15MW
WOONSOCKET SUBSTATION	Capital	>15MW
NASONVILLE SUBSTATION	Capital	>15MW

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.