Generator Deactivation Assessment Hudson Ave 4

A Report by the New York Independent System Operator

June 12, 2019

Purpose

On April 1, 2019, Consolidated Edison Co. of NY, Inc.'s ("Con Edison") Hudson Ave 4, a 16.3 MW (nameplate) gas turbine was placed in an ICAP Ineligible Forced Outage ("IIFO") by the New York Independent System Operator ("NYISO").

Pursuant to Section 38.3.4 of the NYISO Open Access Transmission Tariff ("OATT"), the NYISO performed resource adequacy and, in coordination with Con Edison, transmission security analyses of the New York Control Area ("NYCA") system to determine whether a Generator Deactivation Reliability Need (a "Need") would result from the deactivation of Hudson Ave 4. The NYISO, along with Con Edison timely completed this analysis within the 90-day period starting from April 1, 2019, which is the Generator Deactivation Assessment Start Date (by June 30, 2019). The Generator Deactivation Process ends if the assessment does not identify a Need or if the reliability need can be timely addressed during the next Reliability Needs Assessment in the NYISO's biennial reliability planning process. If the Generator Deactivation Assessment finds a Need, then the NYISO follows the process for soliciting and selecting a solution stated in Sections 38.3.5 – 38.10.5 of the OATT.

Assumptions

The NYISO evaluated the five year period that follows the entrance of the generator into an IIFO (April 1, 2019 – April 1, 2024) (the "Study Period") using the most recent reliability planning process base cases. The NYISO used the load forecast consistent with the 2019 Load and Capacity Data Report ("Gold Book")[1]. In accordance with the Reliability Planning Process base case inclusion rules[2], generation and transmission projects are to be added to the base case if they have met significant milestones such that there is a reasonable expectation of completion of the project.

The major assumptions included in the 2018 RNA and 2019-2028 Comprehensive Reliability

[1] This Hudson Ave 4 Generator Deactivation Assessment utilizes the 2019 Gold Book baseline summer peak load forecast for the Con Edison service territory. All other area load forecasts assumed the conditions in the 2018 Gold Book baseline summer peak load forecast.

[2] NYISO Reliability Planning Process Manual, July 5, 2018.

Plan (CRP) were used in this assessment.

Consistent with the NYISO's obligations under its tariffs, the NYISO provided stakeholders within its shared governance process information on the modeling assumptions employed in conducting this assessment. Details on the study assumptions were originally reviewed with stakeholders at the April 12, 2019 joint Electric System Planning Working Group/Transmission Planning Advisory Subcommittee. The meeting materials are posted on the NYISO's public website[3].

Findings

This assessment finds that reliability criteria would be met without Hudson Ave 4 throughout the Study Period under the assumed and forecasted base case system conditions. The NYISO assessed the resource adequacy of the overall NYCA system, per the one-day-in-ten-years (0.1 per year) Loss of Load Expectation ("LOLE") criterion, which measures the probability of disconnecting firm load due to a resource deficiency. This assessment finds that without Hudson Ave 4 the resource adequacy criterion is met throughout the Study Period.

Additionally, the NYISO performed a transmission security assessment for the Bulk Power Transmission Facilities ("BPTF") and Con Edison performed a transmission security assessment of their non-BPTF. The NYISO reviewed and verified the analysis performed by Con Edison. Without Hudson Ave 4, no transmission security-related Need was identified in the Study Period.

Conclusions

This assessment does not identify a Generator Deactivation Reliability Need following the deactivation of Hudson Ave 4 for the Study Period.

[3] https://www.nyiso.com/documents/20142/6001938/07%20HudsonAve4_StudyAssumptions.pdf/16685dd5-1069-66f9-9e90-0ee1bde128c5