



# **Generator Deactivation Assessment Hudson Ave 4 (Retirement)**

**A Report by the  
New York Independent System Operator**

**August 1, 2019**

## Background

On April 1, 2019, Consolidated Edison Co. of NY, Inc.'s ("Con Edison") Hudson Ave 4 was placed in an ICAP Ineligible Forced Outage ("IIFO") by the New York Independent System Operator ("NYISO"). The Generator Deactivation Assessment the NYISO performed to review the Hudson Ave 4 entry into IIFO was completed on June 12, 2019. That assessment concluded that a Generator Deactivation Reliability Need (a "Need") was not identified for the Study Period.

On May 29, 2019 the NYISO determined that Con Edison submitted a complete Generator Deactivation Notice for the proposed retirement of the Hudson Ave 4 unit. Because the retirement date requested in the Generator Deactivation Notice is prior to the expiration of the Hudson Ave 4 IIFO, the Notice initiated the Generator Deactivation Process.

## Assumptions

This assessment evaluates the period five years from the conclusion of the 365-day notice period (May 29, 2020 – May 29, 2025) (the "Study Period") using the most recent reliability planning process base case updated in accordance with NYISO procedures. In accordance with the Reliability Planning Process base case inclusion rules<sup>1</sup>, generation and transmission projects are added to the base case if they have met significant milestones such as that there is a reasonable expectation of completion of the project. Significant changes to the proposed assessment assumptions, as compared to the those used for the 2019-2028 Comprehensive Reliability Plan (CRP) include: (i) the AC Transmission Segment A Double Circuits and AC Transmission New York Energy Solution Segment B, which are expected to enter into service in December 2023, and (ii) all other New York Transmission Owner firm Local Transmission Plans listed in the 2019 Load and Capacity Data Report ("Gold Book") with the exception of the NYSEG Coopers Corners transformers. The NYISO used the load forecast consistent with the 2019 Load and Capacity Data Report ("Gold Book")<sup>2</sup>.

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<sup>1</sup> NYISO Reliability Planning Process Manual, July 5, 2018.

<sup>2</sup> This Hudson Ave 4 Generator Deactivation Assessment utilizes the 2019 Gold Book baseline summer peak load forecast.

The NYISO provided stakeholders in its shared governance process with information on the modeling assumptions employed in conducting this assessment. Details of the study assumptions were originally reviewed with stakeholders at the June 10, 2019 joint Electric System Planning Working Group (ESPWG)/Transmission Planning Advisory Subcommittee (TPAS)/Interconnection Project Facilities Study Working Group (IPFSWG) meeting. The meeting materials are posted on the NYISO's public website<sup>3</sup>.

## 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 adequacy deficiency. This assessment finds that without Hudson Ave 4 the resource adequacy criterion is met throughout the Study Period.

Additionally, the NYISO assessed the transmission security of the Bulk Power Transmission Facilities ("BPTF") and Con Edison assessed the transmission security 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. Con Edison has satisfied the applicable requirements under the NYISO's Generator Deactivation Process to retire the Generator on or

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<sup>3</sup>

[https://www.nyiso.com/documents/20142/6987817/03\\_2019GDA\\_Steuben\\_MonroeLvgnstn\\_AuburnSS\\_Hudson4\\_KeyAssumptions\\_vFinal.pdf/1835c328-dcd1-aa68-e8b5-c6c37dabaa1e](https://www.nyiso.com/documents/20142/6987817/03_2019GDA_Steuben_MonroeLvgnstn_AuburnSS_Hudson4_KeyAssumptions_vFinal.pdf/1835c328-dcd1-aa68-e8b5-c6c37dabaa1e)

after August 28, 2019<sup>4</sup>. This concludes the Generator Deactivation Process for the Retirement of Hudson Ave 4.

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<sup>4</sup> Consolidated Edison Co. of NY, Inc. must complete all required NYISO administrative processes and procedures prior to deactivation. The NYISO's determination in this Generator Deactivation Process does not relieve Consolidated Edison Co. of NY, Inc. of any obligations it has with respect to its participation in the NYISO's markets. If Consolidated Edison Co. of NY, Inc. rescinds its Generator Deactivation Notice or does not deactivate Hudson Ave 4 by May 28, 2021, it will be required to submit a new Generator Deactivation Notice in order to deactivate the Generator, and will also be required to repay study costs in accordance with Section 38.14 of the OATT.