



Generator Deactivation Assessment West Babylon 4

A Report by the
New York Independent System Operator

June 19, 2020

Purpose

On April 23, 2020 the New York Independent System Operator (“NYISO”) determined that National Grid Generation, LLC (“National Grid Generation”) had submitted a complete Generator Deactivation Notice¹ for the proposed retirement of the West Babylon 4 generator (“West Babylon 4”). National Grid Generation reported that it intends to deactivate the 52.4 MW Generator on December 12, 2020.

Pursuant to Section 38.3.5 of the NYISO Open Access Transmission Tariff (“OATT”), the NYISO performed resource adequacy and, in coordination with Long Island Power Authority (“LIPA”) transmission security analysis of the New York Control Area (“NYCA”) system to determine whether a Generator Deactivation Reliability Need (a “Need”) would result from the deactivation of West Babylon 4. The NYISO, along with Transmission Owner LIPA timely completed this analysis within the 90-day period starting from April 23, 2020, which is the Generator Deactivation Assessment Start Date (by July 22, 2020). The Generator Deactivation Process ends if the assessment does not identify a Need or if the Need can be timely addressed during the next Reliability Needs Assessment in the NYISO’s biennial Reliability Planning Process. If the NYISO finds a Need, then the NYISO follows the process for soliciting and selecting a solution stated in Sections 38.3.6 – 38.10.5 of the OATT.

Assumptions

The NYISO evaluated the period five years from the conclusion of the 365-day notice period (April 23, 2021 – April 23, 2026)(the “Study Period”) using the most recent Reliability Planning Process base case. The NYISO used the load forecast consistent with the 2020 Load and Capacity Data Report (“Gold Book”)². In accordance with the Reliability Planning Process base case inclusion rules³, generation and transmission projects are added to the base case if they have met significant milestones such that there is a reasonable expectation of completion of the project.

This assessment used the major assumptions included in the 2020 Reliability Needs Assessment (“RNA”).

Consistent with the NYISO’s obligations under its tariffs, the NYISO provided stakeholders in its shared

¹ Capitalized terms that are not defined herein have the meaning specified in Attachment FF (Section 38) or Attachment Y (Section 31) of the NYISO’s Open Access Transmission Tariff (“OATT”).

² This West Babylon 4 Generator Deactivation Assessment utilizes the 2020 Gold Book baseline summer peak load forecast.

³ NYISO Reliability Planning Process Manual, December 12, 2019. *See:*

https://www.nyiso.com/documents/20142/2924447/rpp_mnl.pdf

governance process information on the modeling assumptions employed in this assessment. Details on the study assumptions were reviewed with stakeholders at the May 4, 2020 Transmission Planning Advisory Subcommittee (“TPAS”)/Electric System Planning Working Group (“ESPWG”). The meeting materials are posted on the NYISO’s public website⁴.

Findings

This assessment finds that reliability criteria would be met without West Babylon 4 in-service throughout the Study Period under the assumed and forecasted base case system conditions.

The NYISO assessed the resource adequacy of the overall New York Control Area (NYCA) system, to verify that the NYCA Loss of Load Expectation (“LOLE”) is below the 0.1 days/year NPCC and NYSRC criterion. The GE MARS program is used, which measures the probability of disconnecting firm load due to a resource deficiency. This assessment found that without West Babylon 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 LIPA performed a transmission security assessment of their non-BPTFs. The NYISO reviewed and verified the analysis performed by LIPA. Without West Babylon 4 in-service, no transmission security-related Need was identified in the Study Period.

Conclusions

This assessment does not identify a Generator Deactivation Reliability Need following the retirement of West Babylon 4 for the Study Period. National Grid Generation has satisfied the applicable requirements under NYISO’s Generator Deactivation Process to retire the Generator on or after its requested deactivation date.⁵ This concludes the Generator Deactivation Process.

⁴ https://www.nyiso.com/documents/20142/12317352/08_2020GDA_WestBabylon_KeyAssumptions_v0.pdf

⁵ National Grid Generation must complete all required NYISO administrative processes and procedures prior to deactivation. The NYISO’s determination in this Generator Deactivation Assessment does not relieve National Grid Generation of any obligations it has with respect to its participation in the NYISO’s markets. If National Grid Generation rescinds its Generator Deactivation Notice or does not deactivate West Babylon 4 within 730 days of the April 23, 2020 Generator Deactivation Assessment Start Date, then 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.