

2023 - 2024 IRM Y49 Sensitivity

Ryan Carlson

NYISO

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Background

- **During the August 3rd meeting, the ICS approves the sensitivity list for the 2023-2024 IRM with the pending review of the two sensitivity cases involving Y49**
 - Sensitivity Case 9 models the outage on Y49 to be extended beyond June 2023
 - Sensitivity Case 10 models no outage on Y49, but with a different outage rate
- **Both sensitivity cases will be done based on the final Preliminary Base Case (PBC)**
 - Currently in the PBC, Y49 is in service with the historic outage rate from the past 5 years history
- **The following slides cover the proposed modeling approach for the two sensitivity cases**

Sensitivity Case 9 – Y49 Outage

- Based on the latest information, the outage on the transformer SPRNBRK_-EGRDNCTR_345_Y49 will be in effect between October 1, 2022 and May 31, 2023 (<http://mis.nyiso.com/public/pdf/ttcf/20220816ttcf.pdf>)
- To model the extension of this outage beyond June 2023, the NYISO proposed the following transfer limits to be used in the sensitivity case:

Interface	Current Transfer Limits (PBC)	New Transfer Limits (Sensitivity 9)
Zone I to Zone K	1293 MW	656 MW
Zone K to Zone I	515 MW	0 MW
Zone I and J to Zone K (grouping)	1613 MW	976 MW

Sensitivity Case 10 – Y49 Outage Rate

- The outage rate for Y49 is modeled in the IRM study using a transition rate matrix considering outages from both Y49 and Y50. During the past 5 years, Y50 has been in normal operations, while Y49 has been subject to long outages
- To model a different outage rate for Y49 with normal operation conditions, the NYISO proposed to apply the transition rate of Y50 to Y49
 - This means that the transition rate matrix in the IRM model will only consider outages from Y50, making Y49 in the same operating conditions as Y50
 - Will still use the same 5 year period (2017-2021)
- **Both NYISO and PSEG LI are comfortable with this methodology**

Questions?

Our Mission & Vision



Mission

Ensure power system reliability and competitive markets for New York in a clean energy future



Vision

Working together with stakeholders to build the cleanest, most reliable electric system in the nation