

Y49/Y50 Increased Outage Rate Sensitivity Case Results

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Background

- The IRM base case value is calculated using five years of cable outage data.
- At the Oct 6th ICS meeting, PSEG LI requested an additional sensitivity study related to decreasing Zone K intertie availability to see the impact of increasing the Y49/Y50 group intertie forced outage rates.
- Given that the IRM calculation is based on five years of cable outage rate data, the results are for information purposes only.
- LIPA provided the Y49/Y50 group interface outage rate for this sensitivity.
- NYISO performed a Tan45 analysis using the 2022 IRM Preliminary Base Case to determine the impact of increased outage rates on the IRM and LCRs.



Model Change and Results

- LIPA sets up a transition rate model to increase Y49/Y50 group intertie forced outage rates
- The transition rate model provided by LIPA produced a total outage rate for the Y49/Y50 group of approximately 48%

Y49 Sensitivity Case		РВС	Delta
IRM	18.5%	18.6%	-0.1%
J LCR	81.1%	80.6%	0.5%
K LCR	104.7%	96.1%	8.6%



Conclusion

- Decreasing Zone K intertie availability would have a large impact on Zone K Tan45 LCR and a small impact on Zone J Tan45 LCR
 - Decreasing Zone K intertie availability increases downstate requirements, and in particular the Zone K requirement.
- The change has no impact on IRM the ~0.1% decrease is due to the rounding



Questions?



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- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system



