

Draft ICS work product, for discussion purposes Only -2019 Sensitivity Cases

2019 IRM Study – Proposed Sensitivity Cases V3

Case	Description	IRM (%)	NYC (%)	LI (%)
0	2019 Preliminary Final Base Case	16.9	79.2	100.7
	This is the Base Case technical results derived from knee of the IRM-LCR curve. All other sensitivity cases are performed off of this run.			
1	NYCA Isolated	25.1	84.9	108.4
	This case examines a scenario where the NYCA system is isolated and receives no emergency assistance from neighboring control areas (New England, Ontario, Quebec, and PJM). UDRs are allowed.			
2	No Internal NYCA Transmission Constraints (Free Flow System)	14.5	77.5	98.5
	This case represents the “Free-Flow” NYCA case where internal transmission constraints are eliminated and measures the impact of transmission constraints on statewide IRM requirements.			
3	No Load Forecast Uncertainty	9.3	73.8	93.6
	This scenario represents “perfect vision” for 2019 peak loads, assuming that the forecast peak loads for NYCA have a 100% probability of occurring. The results of this evaluation help to quantify the effects of weather on IRM requirements.			
4	Remove all wind generation	12.1	79.9	101.6
	Freeze J & K at base levels and adjust capacity in the upstate zones. This shows the impact that the wind generation has on the IRM requirement.			
5	No SCRs & no EDRPs	14.0	75.7	100.8
	Shows the impact of SCRs and EDRPs on IRM.			
6	Remove CPV valley from service	17.1	79.7	101.1
	Remove the addition of CPV Valley (678 MW) from the base case due to air permit uncertainty.			
7	Limit Emergency Assistance from PJM to all of NYCA to 1500 MW	16.9	79.2	100.7
	This case uses a grouped interface of all PJM to NYCA import ties and restricts the grouping to a limit of 1500 MW			
8	Remove the 3500 MW EA Limit into NYCA	16.6	79.0	100.4
	Remove the 3500 MW Emergency Assistance grouped limit entering NYCA from its neighbors. UDRs remain in New York.			
9	Remove the B and C lines from service (tan 45)*	16.7	81.8	101.3

Case	Description	IRM (%)	NYC (%)	LI (%)
	Due to uncertain outage duration, reduce the B and C line ratings to Zone J to 0 MW. Decrease the NYC import grouping from 315 MW to 105 MW.			
10	Combine Cedars and Quebec areas	17.0	79.2	100.8
	In anticipation of the 2020 IRM, create one Area with both Quebec and the Cedars combined. Increase tie capability to 1690 MW.			
11	Remove public appeals from model	17.3	79.7	101.3
	Remove 80 MW of public appeals from the EOP steps in the model.			
12	Incorporate Quebec to New England wheel (tan 45)	17.2	79.3	100.9
	Reduce the HQ to zone D rating by 300 MW and increase to NE to Zone F by 300 MW to account for this capacity transaction.			

*The EC has indicated that the B and C lines will be removed from service for the base case. The parametric results of removing the lines should then also be provided in table 6-1.

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