ICS approval item for August.

## **2022 IRM Study- Sensitivity Cases (based on PBC)**

Case	Description	Reason
0	2022 IRM Preliminary	These are the Base Case technical results
	·	derived from knee of the IRM-LCR curve.
IRM Impacts of Key MARS Study Parameters		
1	NYCA Isolated	Track Total NYCA Emergency Assistance –
		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	Track level of NYCA congestion with
		respect to the IRM model – internal
		transmission constraints are eliminated
		and the impact of transmission constraints
		on statewide IRM requirements is
		measured.
3	No Load forecast uncertainty	Shows sensitivity of IRM to load
		uncertainty, assuming that the forecast
		peak loads for NYCA have a 100%
		probability of occurring.
4	No wind capacity	Shows wind impact and can be used to
		understand EFORd sensitivity; performed
		by freezing J & K at base levels and
		adjusting capacity in the upstate zones.
5	No SCR Capacity	Shows sensitivity of IRM to SCR program
IRM Impacts of Base Case Assumption Changes		
6	Energy Limited Resource (ELR) sensitivity	Modeling ELRs using the historical output
	(fixed output shapes)	shapes to show comparison with the GE
		MARS ELR functionality.
7	Operating Reserve at Load Shedding sensitivity	Sensitivity of not maintaining the 350 MW
	(not maintaining OR at load shedding)	Operating Reserve at Load Shedding
8	New Load Shapes Sensitivity (Tan 45)	Show impact of implementing new load
		shapes, replacing the current 2002, 2006
		and 2007 load shapes with 2013, 2017 and
		2018 load shapes.
9/10	Y49 Outage	9) Sensitivity of reduced transfer capability
		on Y49 due to outage being potentially
		extended beyond June 2023
		10) Model Y49 with an updated outage
		rate based on the new line