September 5, 2018 NYSRC ICS Meeting Report
Prepared for the September 14, 2018 NYSRC EC meeting

2019 - 2020 IRM Study Tasks:
Parametric Study/Preliminary Base Case
The ICS discussed the parametric results and conditionally approved the preliminary base case. While performing the parametric study the NYISO had identified some concerns with updating the external control area data(from NPCC CP-8 working group) used in the model. The NYISO provided a comparison of the external values from the 2018 IRM final base case versus the 2019 IRM preliminary base case which indicated several areas in PJM and ISO-NE with a significant increase in excess capacity. When using the updated external data the NYISO indicated that there was an additional drop in the IRM of 1.1%. The NYISO recommended to the ICS that the Preliminary Base Case should not use the updated external data while they continue to explore the issue and will return to the October 3rd ICS meeting with additional details and recommendation.

The results of the NYISO performing a Tan 45 and regression analysis has resulted in a **Preliminary IRM of 16.9%** with LCRs of 79.2% in NYC and 100.7% in Long Island.
For comparison, the 2018 final base case values were 18.2% IRM with 80.7% in NYC and 103.2% in Long Island.

Sensitivity Case List
The NYISO will perform their sensitivity analysis on the preliminary base case that does not have the updated external control area data.

The ICS agreed to add a sensitivity to the previously EC approved sensitivities. A concern was raised by one of the ICS members on the potential of overstating the amount of emergency assistance that is available from HQ. HQ has a 300 MW wheel through from HQ to ISO-NE that is not reflected in the model. The ICS had discussion on how to model this with differing opinions. The ICS agreed that a sensitivity should be performed with a Tan 45 if time and resources permitted and preferred this case over the Tan 45 on the CPV Valley sensitivity since it did not show much impact in the previous year's IRM sensitivities performed.

The ICS also agreed to remove a sensitivity from the EC approved sensitivity list. It is case #10 "Remove Line 33 due to PAR failure". When the list was put together, the status was unknown including the return date. The current return to service date is December 31, 2021. The NYISO will update the model for the final base case to include this outage.

Other Items of Interest
SCR Performance Calculation
The NYISO presented an update to the SCR performance calculation along with a

recommendation for an update to the values used in the calculation. One of the components of the calculation is the Translation Factor. This derates performance from the Average Coincident Load (ACL) measure to a Customer Baseline Load (CBL) equivalent. The NYISO recommended to maintain the current formula but to use a calculated ACL to CBL translation factor instead of the current fixed 0.90. This results is more representative of the resource response across different zones. The ICS agreed to this update for the final base case. The comparison table is below.

FOR 2019 IRM - Preliminary SCR Model Values - Current								- Calculated			
			ICS Adjustment Factors								
Program	Super Zone	Superzone Performance Factor	ACL to CBL Translation Factor	Fatigue Factor	Effective Performance Factor	SCR ICAP MW based on July 2018 Enrollment Data	Preliminary Model Values MW	ACL to CBL Translation Factor	Effective Performance Factor	SCR ICAP MW based on July 2018 Enrollment Data	Preliminary Model Values MW
SCR	A-F	86.3%	90%	100%	77.6%	655.1	508.6	93.4%	80.5%	655.1	527.6
SCR	G-I	74.6%	90%	100%	67.1%	111.4	74.8	85.2%	63.5%	111.4	70.8
SCR	J	71.3%	90%	100%	64.1%	494.1	316.9	78.0%	55.5%	494.1	274.5
SCR	K	70.9%	90%	100%	63.8%	48.5	30.9	84.2%	59.7%	48.5	28.9
Total						**1309.1**	**931.2**			**1309.1**	**901.8**
							71.1%				**68.9%**

Alternative LCRs

The NYISO provided a comparison for the LCRs as calculated from the Tan 45 methodology from preliminary base case to the LCRs calculated with the economic optimization methodology. These numbers were for comparison only with both the Transmission Security Limits as well as the Net CONE curves still subject to further updates. Based on the current data the comparison is as follows:

Case	NYCA	G-J	NYC	LI
2019 Preliminay Base Case	116.90%	94.90%	79.20%	100.70%
Alternative LCR methodology	116.90%	89.70%	80.10%	103.60%
Transmission Security Limit		89.67%	80.07%	103.56%

Note: The TSL limit was binding for all locations.

Parametric IRM Impact Comparison – 2018 IRM vs. Preliminary 2019 IRM Base Case

Parameter	Estimated IRM Change (%)	IRM (%)	Reasons for IRM Changes
2018 IRM Study – Final Base Case		**18.2**	
2019 IRM Study Parameters that increased the IRM			
New Wind Generation & Updated Wind Shapes	+0.3		
Updated Retirements	+0.1		
Updated Topology	+0.1		
Updated SCRs	+0.1		
Total IRM Increase	**+0.6**		
2019 IRM Study Parameters that decreased the IRM			
Updated Load Forecast & Load Shapes	-0.4		
Updated LIPA Cable Outage Rates	-0.4		
Updated Generating Unit EFORDs	-0.3		
Updated Non-SCR/EDRP EOPs	-0.3		
Change Study Year	-0.1		
New MARS Version	-0.1		
Use NYBA for LOLE Criteria	-0.1		
New Thermal Units & Rerated Units	-0.1		
Updated Run of River Hydro Shapes	-0.1		
Total IRM Decrease	**-1.9**		
2019 IRM Study Parameters that did not change the IRM			
Updated DMNC Rates	0		
NYPA Sales	0		
Updated Maintenance	0		
Updated Con Ed Cable Outage Rates	0		
Updated External Control Area Models[1]	0		
Net Change from 2018 Study		**-1.3**	
2019 IRM Study – Preliminary Base Case		**16.9**	

[1] This case is under investigation by the NYISO. In the meantime, the external control area models have not been updated for the preliminary base case.