July 30, 2019 NYSRC ICS Meeting #222 Report - Howard Kosel
Prepared for the August 9, 2019 EC meeting

- **2020 IRM Parametric Study**: NYISO presented parametric study results for cases that have been completed to date. The NYISO will continue to finish the parametric study and ICS will have a conference call on August 15, 2019 to review the final parametric results and preliminary Tan 45 analysis. A summary of the parametric study and the IRM impact that has been completed is below:

Case Number	Description	Impact NYCA
	IRM 2019 Final Base Case	16.7
1	IRM20 topology update (CVEC + Jamaica ties)	-0.788
2	IRM20 topology update (Case S1 + IP2 retirement)	0.180
3	Gold Book 2019 DMNCs	0.131
4	Non-SCR EOPs	0.087
5	2020 Fixed Maintenance	0.142
6	Summer LFU	1.077
7	SCRs	-0.085
8	Retirements (not IP2)	-0.048
9	Cable Transition Rates	-0.053
11	Generator Transition Rates	0.284
	Sum of Non Material Changes (to the right)	0.043
	Current Parametric Result:	17.7

  - **Completion Target:** August 15, 2019
  - **EC Required Action:** EC Approval September 13, 2019

- **Final SCR Values for 2020 IRM:** The NYISO presented update SCR values for the 2020 IRM study based on July 2019 enrollments. The final values are shown below:

FOR 2020 IRM - Final SCR Model Values					2019 IRM - Final SCR Model Values			Comparison of 2020 with 2019 IRM		
Program	Super Zone	Effective Performance Factor	July 2019 Enrollment Data	Final Model Value MW	Effective Performance Factor	July 2018 MW	Final Model Value MW	Effective Performance Factor	July 2019 to July 2018 MW	Model Value MW
SCR	A-F	81.7%	629.3	514.2	80.6%	655.1	528.2	1.1%	-25.8	-14.0
SCR	G-I	64.3%	125.5	80.7	63.9%	111.4	71.1	0.4%	14.1	9.6
SCR	J	52.0%	478.9	249.0	55.5%	494.1	274.5	-3.5%	-15.2	-25.5
SCR	K	59.1%	48.2	28.5	59.7%	48.5	28.9	-0.6%	-0.3	-0.4
Total			**1281.9**	**872.4**		**1309.1**	**902.8**		**-27.2**	**-30.4**
				68.2%			**69.0%**			**-0.8%**

- **Load Forecast Uncertainty (LFU) Model for 2020 IRM:** NYISO presented the updated LFU model for the 2020 IRM study. The LFU data was approved by the NYISO Load Forecasting Task Force (LFTF) on July 16, 2019. A table comparing the change from the model used in the 2019 IRM is shown below:

Bin	Probability	A-E	F&G	H&I	J	K
B7	0.62%	-0.01%	-0.55%	-1.63%	-0.81%	-1.43%
B6	6.06%	-0.15%	-0.35%	-1.45%	-0.68%	1.22%
B5	24.17%	-0.16%	-0.17%	-1.06%	-0.47%	0.61%
B4	38.30%	0.00%	-0.02%	-0.35%	-0.17%	0.00%
B3	24.17%	0.37%	0.11%	0.79%	0.26%	-0.02%
B2	6.06%	0.98%	0.18%	2.51%	0.81%	0.86%
B1	0.62%	1.88%	0.20%	4.89%	1.52%	2.23%

- **IRM Sensitivity Cases:** ICS approved the sensitivity cases to be included in the 2020 IRM study. Of note, there is a 12th high renewable sensitivity to be performed however the appropriate forum for the sensitivity will be determined by the EC directed Long-Range IRM working group which is scheduled to meet on August 6, 2019.
    - **Completion Target:** July 30, 2019
    - **EC Required Action:** EC Approval August 9, 2019

Case	Description	Reason
0	**2019 IRM Preliminary Base Case**	
1	NYCA isolated	Track Total NYCA Emergency Assistance (EA)[1]
2	No internal NYCA transmission constraints	Track level of NYCA congestion w/r/t IRM model
3	No load forecast uncertainty	Shows sensitivity of IRM to load forecast uncertainty
4	No wind capacity	Shows wind impact and can be used to understand EFORd sensitivity
5	No SCRs	Shows sensitivity of IRM to SCR resources
6	IP2 in-service	IP2 is scheduled to retire 4/30/2020 but is not yet retired
7	Cricket Valley out-of-service	Cricket Valley is expected in service by 6/2020 but is not yet in-service
8	Retire Somerset (PTID 23543, Zone A)	NYS environmental regulations may cause coal-fired facility retirements
9	SCR MWs based on event performance	NYSRC ICS is evaluating whether to change the method it uses to measure SCR performance
10	Model HQ to NY 80 MW EDR	Scheduled to enter into service in spring 2021
11	IP3 out-of-service	Scheduled to retire in 2021