June 28, 2017 NYSRC ICS Meeting Report

Prepared for the July 14, 2017 NYSRC EC meeting

2018- 2019 IRM Study

SCR Performance

The NYISO presented the preliminary model values from the Gold Book. The methodology used will be the same as what was approved last year. The SCR model value is based on the following factors:

- Zonal Performance Factor – takes five years of historical SCR performance. All event hours, by zone, for each mandatory event from the most recent five years where there was a mandatory event and all performance test hours accumulated during the five years even when there was no event.
- Translation Factor - derates performance from the Average Coincident Load (ACL) measure to a Customer Baseline Load (CBL) equivalent. The current value is 0.90.
- Fatigue Factor - derates to account for possible decline in performance that may occur if SCRs were to be deployed frequently. The current value is 1.0.

The data set consists of all event hours, by zone, from mandatory events from Summer 2012 through summer 2016 (these range from 20 event hours for Zone D to 74 event hours for Zone J. There are 9 additional performance test hours are included in this period. The preliminary SCR model value is 845.4 MW using the Gold Book data of 1191.8 MW using an effective performance factor of 70.9%. The final SCR model value used for the 2017-2018 IRM was 839.6 with an effective performance factor of 70.5% MW. This will be updated with the July 2017 actual enrollments available around July 10th.

Load Forecast Uncertainty Models

The NYISO presented, by zone, the load forecast uncertainty models. They included 2016 in the model as it was close to normal weather. The data consists of years 2013(above normal weather) – 2016. The years prior to 2013 are not being included as the load characteristics were different. The NYISO showed a summary table for each of the zones by load bins and associated probabilities as well as MW values and LFU. The NYISO showed graphs by zones which depicted compared the shape used in the 2017 IRM versus the proposed 2018 IRM as well as a polynomial fit for the proposed model. The ICS members agreed with the recommendation of updating the LFU Model to include 2016 in the data set.

2018-2019 Preliminary Base Case Assumptions Matrix – EC approval item

The preliminary base case assumptions matrix has been updated and was approved by the ICS members. The preliminary base case assumptions will be used for the parametric and sensitivity studies. Some of the items discussed the status of the Cayuga generator after the end of its RSSA on June 30th. At this time it was unknown. The planned outages and summer maintenance are still being assessed by the ICS's consultant. His initial assessment is that the value will be the same as last year. A new item for this year is the Behind the

Meter net generators. There are currently a few resources in the qualification process. The NYISO is anticipating at least one of these to be eligible to participate at the time the final IRM is determined. The maximum amount of CRIS from all of the resources currently in the registration process is 95MW or less. The amount of load that these resources serve is around the same value. The last item that is new for this year is that the ICS asked for the emergency assistance values to be shown since we are imposing a limit of 3500 MW total from the ICS and EC approved by the white paper. The final base case assumptions will approved by ICS and EC in October.

NYISO Alternative LCR Methodology
The NYISO provided the answers to a series of questions that the ICS had submitted in December 2016. One of the outstanding questions is for a comparison from the IRM base case versus the optimized case for the LOLEs for localities as well the costs of each including a recognition of cost of unserved energy in the localities. The NYISO is still working with GE to determine what is able to be provided. The NYISO also updated the ICS on the status of the methodology. The NYISO is currently working through simple sensitivities on changes in cost assumptions as well as changes in transmission and generation. The NYISO is continuing to work on developing lower bounds for transmission security issues. The NYISO is planning to complete that work by the end of summer. The ICS encouraged the NYISO to accelerate those efforts as it may cause a mismatch with the indicative LCRs produced by the IRM. The NYISO will return to the next ICS to continue with updates. The NYISO is also planning on giving a presentation to the EC at the August meeting.

2018-2019 IRM Study Assumptions Matrix
The NYISO noted updates from the previous month with data that was made available from the release of the Gold Book. The NYISO noted that a new parameter will be developed this year for Behind-The-Meter Net Generation resources. They will return to the May 28th ICS meeting to discuss proposed methodology. Currently, there are a few of these resources in the qualification/registration process. NYISO expects to have at least one of these resources enter the market. The total amount from all of these potential resources is anticipated to be 95 MWs or less.