Manual 20 Changes Related to Limited-Availability Constraints under CP

Planning Committee
July 9, 2015
• The Capacity Performance rules allow RPM participation of Limited Availability Resources for the 2018/19 and 2019/20 Delivery Years.
• Base Capacity DR is available for interruption every day from June 1 through September 30 and unavailable rest of DY.
• Base Capacity Generation is assumed unavailable only during the peak winter week.
• Constraints must be established on the two Limited Availability products to ensure reliability is maintained at close to “1 in 10” LOLE.
Limited-Availability Resources

ICAP according to Installed Reserve Margin

Base DR + EE (not available)

Base Capacity Generation (Not available)

Capacity Performance Resources

Summer Loads

Winter Loads

Weeks
• Constraints are computed using the LOLE model PRISM and the most recent IRM Study case for the respective DY.
• The amount of Base Capacity DR is increased in the case until the PJM LOLE is increased by 5%. This establishes the Base Capacity Demand Resource Constraint.
• Base Capacity Generation is then added to the case until the combined impact of both Limited-Availability products increases the PJM LOLE by 10%. This establishes the Base Capacity Resource Constraint.
• The constraint computation is performed for the RTO and for any LDA that is modeled separately in the RPM auction.

• The details of the procedure were added as Section 6 of Manual 20. The manual section is based on the language approved in 151 FERC ¶ 61,208

RTO Constraints posted for the 2018/19 Base Residual Auction

Base Capacity Demand Resource Constraint = 8.3%
Base Capacity Resource Constraint = 18.9%

Constraints are expressed as a percentage of the forecasted peak load and are updated for each Incremental Auction
Requested PC Action

- Proposed M-20 revisions will be reviewed at special MRC meeting on July 15.
- Final MRC endorsement will be requested at July 23 meeting.