Cold Weather Generation Resource Preparation

SOS meeting 10/29/14
• Draft M14D, Revision 30, Section 7.5 & Attachment N – Pending MRC endorsement vote scheduled for 10/30/14

• In preparation for winter operations, PJM and the generation resource owner will agree to start and run certain generating units to determine whether they are capable of reliably operating and responding to PJM’s dispatch instructions. This exercise will be conducted during the month of December to assist in identifying and correcting start-up, operational, and fuel switching (if applicable) problems prior to the onset of cold weather.

• Alternatively, a generation resource owner may elect to self-schedule a resource to validate its cold weather operation.
• Prior to 11/10/14 PJM determines list of applicable units that have not operated over the eight week period 9/8/14 – 10/31/14
  – Units such as nuclear, wind, solar, hydro, large super-critical steam, units on outage, units expected to operate economically in December - will typically be excluded
  – Duel fueled units that may have run on primary fuel during the eight week period but not on secondary fuel may be included
• On or about 11/10/14 PJM sends list of eligible units to generation owner representative (OC & SOS-G, or designee – PJM will use the coldweathergenprep@pjm.com email address)
• On or before 11/20/14 using the list of eligible units, generation owner provides PJM the names of the generating units that they would like to participate (send list to coldweathergenprep@pjm.com email address)

• Gen owners must include the following items for each participating unit:
  – The preferred dates, times, and fuel type for dual fueled units
    • PJM expects to schedule the units on Monday – Friday mornings
    • Dual fueled units that primarily operate on natural gas should be operated on secondary fuel
  – Minimum MW and minimum run time to be used during the exercise. (Note: If different than the applicable eMKT parameter the gen owner must include a justification for the difference.)
PJM will only schedule generation resources if they will be operated on their cost-based schedules for the duration of the exercise.
PJM will notify the generation owner in advance by 1000 EPT the day prior that a unit the owner has selected will be scheduled to operate the next day.
PJM may elect to cancel the operation of the generation resource if the projected temperature in the Transmission Zone in which the generation resource is located is above 35 degrees Fahrenheit.
On a day-ahead basis, PJM will post the total amount of hourly scheduled generation expected to operate under this exercise.
An informational eDART ticket should be submitted by the generation owner documenting that the generation resource has been scheduled to operate under the cold weather operational exercise.

- Use the cause code “Cold Weather Preparation Exercise” expected to be added to eDART by 12/1/14

- The generation owner has the option to self-schedule the generation resource if not scheduled by PJM.
• PJM will limit the daily amount of generation scheduled to no more than 1,000 MW. PJM will prioritize based on factors such as last operation date; past winter performance; and fuel selection

• PJM will review on a two week rolling basis through mid-December the operation of generation resources and if a generation resource has not operated within the most recent eight week period PJM may add that generation resource to the eligibility list and inform the generation owner. Also, PJM may remove a unit from the list if it has operated.

• PJM will track and analyze generation resource performance as a result of this exercise and compare it with historical GADS data to gauge the effectiveness of this exercise and make recommendations for any potential changes to the exercise
• This checklist, or a similar one developed and maintained by the generation owner, should be used annually prior to the winter season to prepare each of its generation resources for extreme cold weather event operation

• Prior to December 15th of each year the generation owner’s OC representative or designee shall report to the OC chair via email that the generation resources they represent have completed the items on the checklist, or a substantially equivalent one developed by the generation owner (OC Chair: michael.bryson@pjm.com)
  o The generation owner’s OC representative shall include a list of the generation resources that have been prepared and may also include a signed copy of the checklist used by the generation owner in their email to the OC Chair
Next steps

• Questions?
• Contact
  – David Schweizer, 610-666-4503, david.schweizer@pjm.com
  – Ray Lee, 610-666-4608, ray.lee@pjm.com