

Reliability Curtailments

ACS Forum – April 23, 2013

Pre-decisional – For discussion purposes only



Objectives

- Describe and discuss deployment of prospective Reliability Curtailment methodologies

Reliability Curtailments

- Reliability Curtailments will only occur if BPA has successfully fulfilled the dynamic reserve requirement for Full Service
- Reliability curtailments will not take place until the variable generation facilities that have not taken full service have been curtailed to the DSO 216 curtailment level 2.1.
- If, following a DSO 216 curtailment level 2.1 BPA has deployed 100% of available reserve, a reliability curtailment will occur.
- There are three methodologies BPA has looked at, the one BPA is leaning toward implementing is methodology #1.

Reliability Curtailments, Methodology #1

- When the conditions from slide 2 are met, BPA will curtail e-Tags on all non-Federal generation using the following criteria:
 - All base service variable generation facilities' schedules will be curtailed to DSO 216 curtailment level 2.2 (e-Tags curtailed down to actual generation of each facility)
 - Customers with full service will have their e-Tags curtailed to the actual generation plus reserve allocation.
 - Non-variable generators' e-Tags will be curtailed to the actual generation plus reserve allocation
 - Reserve allocation will be computed using variable generator reserve allocation algorithm
 - Approximately 10 MW for each 100 MW of installed capacity.

Reliability Curtailments, Methodology #2

- When the conditions from slide 2 are met, BPA will curtail e-Tags on all non-Federal generation using the following criteria:
 - All base service variable generation facilities' schedules will be curtailed to DSO 216 curtailment level 2.2 (e-Tags curtailed down to actual generation of each facility)
 - Full service and non-variable generators will be curtailed with largest SCE being curtailed first
 - Curtailments will continue until Balancing reserve has been restored to the 75% level
 - Curtailments will be to the actual generation plus reserve allocation

Reliability Curtailments, Methodology #3

- When the conditions from slide 2 are met, BPA will curtail e-Tags on all non-Federal generation using the following criteria:
 - All base service variable generation facilities' schedules will be curtailed to DSO 216 curtailment level 2.2 (e-Tags curtailed down to actual generation of each facility)
 - Full service and non-variable generators will be curtailed with largest error as a percentage of nameplate being curtailed first
 - Curtailments will continue until Balancing reserve has been restored to the 75% level
 - Curtailments will be to the actual generation plus reserve allocation

Questions?