Summary: Removal of Brandon Shores – Riverside SPS (BGE zone)

Bill Patzin
PJM’s Infrastructure Coordination Department
610.666.4698
Removal of Brandon Shores – Riverside SPS (BGE zone)

• History:
  – Constellation Energy Commodities Group, Inc. submitted two ‘merchant’ interconnection requests
    • W3-122 for physical upgrades to the Brandon Shores – Riverside circuits 2344 and 2345 (ratings increase)
    • W3-123 to implement an SPS (temporary) to improve Market Efficiencies on the Brandon Shores – Riverside circuits 2344 and 2345.

> Both requests proceeded thru the PJM Interconnection Study process and have executed Agreements.
Removal of Brandon Shores – Riverside SPS (BGE zone)
• W3-122 physical upgrades to the Brandon Shores – Riverside circuits 2344 and 2345 (increase ratings)
  – Substation work at Brandon Shores and Riverside substations
  – Physical work in Sollers Point and Hawkins Point Cable Terminal Stations
  – Work on oil systems and oil circulation at Sollers Point and Hawkins Point Cable Terminal Stations
Removal of Brandon Shores – Riverside SPS (BGE zone)

- W3-123 Brandon Shores – Riverside SPS
  - Contingency analysis indicates that a contingency loss of one Brandon Shores – Riverside 230kV circuit may overload the other parallel circuit
    - SPS will be “armed” by BGE based on the PJM EMS contingency analysis result that show the Brandon Shores – Riverside (2344/2345) 230kV circuit is loaded up to 100% of LTE rating.
  - Once armed, the SPS will initiate a unit trip of either Brandon Shores Unit 1 or Brandon Shores Unit 2 when the Brandon Shores – Riverside 2344/2345 is lost and current on opposite circuit exceeds the setting for 30 seconds.
- Published in Manual 03
Removal of Brandon Shores – Riverside SPS (BGE zone)
• Additional Information:
  – SPS was allowed as long as physical upgrades (W3-122) were proceeding as an active project
    • Language written into SPS Agreement documenting this
  – Constellation Energy Commodities Group, Inc. sold their interest in the Brandon Shores generating station
  – New owner chose to re-evaluate these projects and decided to NOT perform physical upgrades on Brandon Shores – Riverside circuits
    • Informed PJM in late September 2013 and cancelled W3-122 Agreement
  – SPS armed very infrequently – only once past year
Removal of Brandon Shores – Riverside SPS (BGE zone)

- **Follow-up / Remaining items:**
  - SPS will be disabled and removed from service on February 28, 2014
    - Giving 90 days notice so all are aware
    - Presentations at OC, PC, MIC, MRC and SOS
    - BGE working toward this date as well
  - Reviewed SPS removal with PJM Operations and they expect no reliability impacts from removal
  - Reviewed SPS removal with PJM Market Simulations and they anticipate no impact on FTR funding
  - Projects have been removed from PJM Planning cases
  - Will post SPS removal on OASIS

- **Questions ???**