

This message is to provide notification that the Brandon Shores-Riverside SPS scheme will be in service July 28, 2011. For the details of the scheme, please refer to attached OM.

Temp OM - Brandon Shores – Riverside SPS [SPS]

Effective Date: 7/28/11

Expiration: November 2011 when the procedure is incorporated into M-03.

Revision: 0

Background

Analysis may indicate that a contingency loss of one Brandon Shores – Riverside 230kV circuit will overload the other parallel circuit and/or the Riverside 230-1/230-2 transformer leads*. A special purpose scheme at Brandon Shores plant has been installed to initiate a unit trip of either Brandon Shores Unit 1 or Brandon Shores Unit 2 if the following conditions are met:

- 1.) The Brandon Shores – Riverside 2344/2345 is lost or open ended
 - a. NOTE: The loss of the Riverside #2 XF will open end the 2345 line.
- and**
- 2.) The flow on the remaining circuit exceeds 717MVA.
 - a. This will ensure that both the 2344/2345 lines are protected as well as the Riverside series devices.

The „Normal Status“ for this SPS will be „DISARMED“

****The transformer leads are modeled as series device SD1/SD2 in the PJM EMS; modeled as circuit 115011 /115012 in BGE.***

PJM Actions:

PJM will discuss Security Analysis results with BGE

PJM will direct* BGE to “ARM” the SPS based on the PJM EMS contingency analysis result when the Riverside series device SD1 (BGE circuit 115011), SD2 (BGE circuit 115012) or either Brandon Shores – Riverside (2344/2345) 230kV circuit is loaded to 100% of LTE rating.

The SPS status is telemetered to PJM.

PJM will log the change in status for this SPS and activate/deactivate the appropriate contingencies in the Security Analysis Package.

Contingency names:

BRNDNSHRS-RVRSD 2344 & TRANSFORMER 1

BRNDNSHRS-RVRSD 2345

SPS: Brandon-Riverside 2344 & Unit 1

SPS: Brandon-Riverside 2345 & Unit 1

SPS: Riverside #2 XF & B.Shores Unit 1

SPS: Brandon-Riverside 2344 & Unit 2

SPS: Brandon-Riverside 2345 & Unit 2

SPS: Riverside #2 XF & B.Shores Unit 2

PJM will direct* BGE to “DISARM” the SPS based on the PJM EMS contingency analysis result when the Riverside series device SD1 (BGE circuit 115011), SD2 (BGE circuit 115012) and the Brandon Shores – Riverside (2344/2345) 230kV circuits are loaded below 100% of LTE rating and not expected to increase above the LTE ratings in the near term.

****PJM and BGE will utilize Three Part Communication when a change to the status of the SPS is being directed.***

BGE Actions:

BGE will discuss Security Analysis results with PJM

BGE will contact GO to predetermine which Brandon Shores unit will be tripped

BGE will change the status of the SPS per PJM’s directive* to “ARM” or “DISARM” and will inform PJM once the SPS status has been changed.

BGE will communicate to PJM which Brandon Shores unit will trip as part of the SPS and activate/deactivate the appropriate contingencies in the Security Analysis Package.

BGE will not change the status of the SPS back to „DISARMED“ until it has been directed* to do so by PJM

BGE will inform PJM of any instance where this SPS is misoperated or unable to operate as intended

****PJM and BGE will utilize Three Part Communication when a change to the status of the SPS is being directed.***

GO Actions:

GO will coordinate with BGE to predetermine which Brandon Shores unit will be tripped

GO will inform the TO and PJM of any instance where the SPS is misoperated or unable to operate as intended