**B**lack **S**tart **W**orking **G**roup

**Report to ROS**

**JUNE 13th, 2013 Meeting**

**Primary Topic:** New NERC standard affects Black Start in ERCOT.

NERC EOP-005-2 becomes affective in the ERCOT region in July of 2013. BSWG is reviewing EOP-005, Requirement 6*,* and how it affects Transmission Operators and ERCOT.

EOP-005-2 R6 states:

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| R6. Each Transmission Operator shall verify through analysis of actual events, steady state and dynamic simulations, or testing that its restoration plan accomplishes its intended function. This shall be completed every five years at a minimum. Such analysis, simulations or testing shall verify: *[Time Horizon = Long-term Planning]*  R6.1. The capability of Blackstart Resources to meet the Real and Reactive Power requirements of the Cranking Paths and the dynamic capability to supply initial Loads.  R6.2. The location and magnitude of Loads required to control voltages and frequency within acceptable operating limits.  R6.3. The capability of generating resources required to control voltages and frequency within acceptable operating limits. |

**Topic 1 Resolution:**

A new JRO matrix for NERC EOP-005-2 was distributed on May 13th and approval from the TO’s is pending. R6.1 will be an ERCOT responsibility. R6.2 and R6.3 will be the responsibility of the TO’s. This standard is a five year requirement. TRE is to provide an interpretation of when this requirement begins prior to implementing the JRO.

The subcommittee reviewing the term “intended function” has recommended that each TO develop their own definition. This definition will be published in the “Purpose” section of each TO’s Black Start Plan. A vote on this definition of “intended function” by ROS is no longer needed.

BSWG continues to investigate the use of the ERCOT Black Start Simulator to provide evidence for NERC EOP-005-2, R6. One BSWG member used the ERCOT Black Start Simulator to gather evidence for EOP-005-2, R2. This member provided positive feedback to BSWG. BSWG members can schedule time on the ERCOT simulator to gather evidence for EOP-005-2, R2.

**Additional Topic 2:**

**Request for simulator parameter set points:**

A BSWG member made a request to receive all the parameter set points defined in the ERCOT Black Start simulator. Frequency set points are 58 to 62Hz. Voltage is determined independently by the islands and varies from entity to entity. ERCOT will review the SOE logs from the ERCOT Black Start Simulator to determine all available parameter set points. ERCOT will present these finding at the next BSWG meeting.

**Additional Topic 3:**

**Black Start Template Proposed Changes - CenterPoint Energy**

CenterPoint Energy has proposed changes to the Black Start template to help address NERC requirements and correct language. BSWG has agreed to move forward with the changes. BSWG will continue discussion and prepare final version to present as an update to the ERCOT Operating Guide.

**Next BSWG Meeting: July 9, 2013**