Standard Development Roadmap

This section is maintained by the drafting team during the development of the standard and will be removed when the standard becomes effective.

Development Steps Completed:

1. Version 1 of SAR posted for comment from November 6, 2006 to December 5, 2006
2. Version 2 of the SAR posted for comment from February 15, 2007 to March 16, 2007
3. SAR approved on April 30, 2007

Proposed Action Plan and Description of Current Draft:

The SDT has established a schedule of meetings and conference calls that allows for steady progress through the standards development process in anticipation of completing their assignment in 4Q08. The current draft is the first iteration of the revision of the existing standard EOP-008. Violation Risk Factors, Time Horizons, Measures, Compliance, and Implementation Plans will be included in subsequent postings.

Future Development Plan:

Anticipated Actions	Anticipated Date
1. Respond to comments from first posting of standard.	April 2008
2. Submit first revision of standard.	May 2008
3. Respond to comments from second posting of standard.	July 2008
4. Submit second revision of standard.	July 2008
5. Submit standard for balloting.	September 2008
6. Submit standard for recirculation balloting.	October 2008
7. Submit standard to BOT.	November 2008

Definitions of Terms Used in Standard

This section includes all newly defined or revised terms used in the proposed standard. Terms already defined in the Reliability Standards Glossary of Terms are not repeated here. New or revised definitions listed below become approved when the proposed standard is approved. When the standard becomes effective, these defined terms will be removed from the individual standard and added to the Glossary.

There are no new or revised definitions proposed in this standard revision.

A. Introduction

1. **Title:** **Loss of Control Center Functionality**

2. **Number:** **EOP-008-1**

3. **Purpose:** Ensure continued reliable operations of the Bulk Electric System (BES) in the event that a control center becomes inoperable.

4. **Applicability:**

   4.1. Functional Entity

   4.1.1. Reliability Coordinator.

   4.1.2. Transmission Operator with control of Facilities that are designated as Critical Assets or with defined Interconnection Reliability Operating Limits (IROLs).

   4.1.3. Balancing Authority.

5. **Effective Date:** TBD

B. Requirements

R1. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall have an Operating Plan describing the manner in which it ensures reliable operations of the BES in the event that its primary control center becomes inoperable. This Operating Plan for backup functionality shall include the following at a minimum:

R1.1. The location and method of implementation for providing backup functionality.

R1.2. A high level overview of the elements required to support the backup functionality. These elements shall include, at a minimum:

R1.2.1. Tools and applications that allow visualization capabilities that ensure that operating personnel have situational awareness of the BES.

R1.2.2. Data communications.

R1.2.3. Voice communications.

R1.2.4. Power source(s).

R1.2.5. Physical and cyber security.

R1.3. An Operating Process for keeping the backup functionality current with the primary control center.

R1.4. Operating Procedures for use in determining when to implement the Operating Plan for backup functionality including, at a minimum:

R1.4.1. Criteria for evacuation of the primary control center including the decision authority for initiating the Operating Plan for backup functionality and the Operating Process for initiation of backup functionality.

R1.4.2. Criteria for returning operations support to the primary control center including the decision authority and the Operating Process for returning to the primary control center.

R1.5. An Operating Process describing the actions to be taken during the transition period between the loss of primary control center functionality and the time to get backup functionality up and running.

R1.6. Identification of the roles for all involved personnel during the initiation and implementation of the Operating Plan for backup functionality and for the return to the primary control center.

R2. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall have a copy of its Operating Plan for backup functionality located in its primary control center and at the location supporting backup functionality.

R3. Each applicable Transmission Operator directing BES operations through other entities shall include those operations in its Operating Plan for backup functionality.

R4. Each Reliability Coordinator shall have a backup control center facility (provided through its own dedicated backup facility or at another Reliability Coordinator's primary control center) that replicates the functionality of its primary control center facility as required for maintaining compliance with all Reliability Standards applicable to the Reliability Coordinator.

R5. Each Balancing Authority and applicable Transmission Operator shall have backup functionality (provided either through a backup control center facility or contracted services) that includes monitoring, control, logging, and alarming sufficient for maintaining compliance with all Reliability Standards applicable to a Balancing Authority and Transmission Operator respectively.

R6. Each Reliability Coordinator shall plan for a transition period (between the loss of primary control center functionality and the time to fully implement the backup plan and get backup functionality up and running) that is less than two hours.

R7. Each Balancing Authority and applicable Transmission Operator shall plan for a transition period (between the loss of primary control center functionality and the time to fully implement the backup plan and get backup functionality up and running) that is less than six hours

R8. For each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator, the Operating Plan for backup functionality shall include a list of all entities that need to be notified of a change in operating locations.

R8.1. For each applicable Transmission Operator, if the transition period between the loss of primary control center functionality and the time to fully implement the backup plan and get backup functionality up and running is planned to be greater than two hours, then the Operating Procedure shall additionally include processes that will ensure the situational awareness and control of facilities with defined Interconnection Reliability Operating Limits (IROLs) beyond the two hour time period.

R8.2. For each Balancing Authority, if the transition period between the loss of primary control center functionality and the time to fully implement the backup plan and get backup functionality up and running is planned to be greater than

two hours, then the Operating Procedure shall additionally include processes that will ensure the calculation and control of its ACE beyond the two hour time period.

R9. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator, shall have its Operating Plan for backup functionality reviewed and approved annually by a manager.

R9.1. The update and approval of the Operating Plan for backup functionality shall take place within sixty calendar days of any changes to the backup location, capabilities, or communication protocols.

R10. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall have backup capability that does not depend on the primary control center for any aspect of its operation.

R11. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall have backup capability that is capable of operating for an indefinite period of time.

R12. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall test its Operating Plan for backup functionality through actual implementation or test operations for a minimum of two hours annually.

R13. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator that anticipates that a total loss of primary or backup capability will last for more than six calendar months, shall provide a plan to its Regional Entity within six calendar months of the date when the functionality is lost, showing how it will re-establish backup capability.

Version History

Version	Date	Action	Change Tracking
1	TBD	Revisions for Project 2006-04	Major re-write to accommodate changes noted in project file