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
- 4. First posting of revised standard on February 7, 2008
- 5. Second posting of revised standard on August 26, 2008

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 2Q09. The current draft is the third iteration of the revision of the existing standard EOP-008.

Future Development Plan:

Anticipated Actions	Anticipated Date
1. Submit standard for balloting.	May 2009
2. Submit standard for recirculation balloting.	June 2009
3. Submit standard to BOT.	July 2009
4. Submit to regulatory authorities.	August 2009

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-operating Facilities at 200 kV or above, or nonradial Facilities above 100 KV, or Facilities demonstrated by the Regional Entity to be critical to the reliability of the Bulk Electric System (BES).
- **4.1.3.** Balancing Authority.

Effective Date: As per the Implementation Plan. The first day of the first calendar quarter twenty-four months after applicable regulatory approval. In those jurisdictions where no regulatory approval is required, the standard shall become effective on the first day of the first calendar quarter twenty-four months after Board of Trustees adoption.

B. Requirements

- **R1.** Each Reliability Coordinator, Balancing Authority, and applicable-Transmission Operator shall have an <u>current</u> 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: [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]
 - **R1.1.** The location and method of implementation for providing backup functionality for a prolonged period of time.
 - **R1.2.** An overview summary description 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 consistent with the primary control center.
 - **R1.4.** Operating Procedures, including decision authority, for use in determining when to implement the Operating Plan for backup functionality.

- **R1.5.** A transition period between the loss of primary control center functionality and the time to fully implement the backup <u>functionality that is less than or equal</u> to plan and get backup functionality up and running that is less than two hours.
- R1.6. 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 to fully implement the backup functionality elements identified in Requirement R1.2get backup functionality up and running. The Operating Process shall include: at a minimum:
 - **R1.6.1.** A list of all entities to notify when there is a change in operating locations.
 - **R1.6.2.** Actions to manage the risk to the BES during the transition from primary to backup functionality as well as during outages of the primary <u>or</u> backup functionality.
- **R1.7.** Identification of the roles for personnel involved during the initiation and implementation of the Operating Plan for backup functionality.
- R2. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall have a copy of its <u>current</u> Operating Plan for backup functionality <u>located available inat</u> its primary control center and at the location supporting backup functionality. [Violation Risk Factor = Lower] [Time Horizon = Operations Planning]
- **R3.** Each <u>Reliability Coordinator, Balancing Authority, and applicable</u>-Transmission Operator directing BES operations through other entities shall <u>ensure that backup</u> <u>functionality exists for the BES operations performed through those other entities.</u> <u>include provisions for the loss of such entity's control functionality in its Operating</u> <u>Plan for backup functionality.</u>[Violation Risk Factor = Medium] [Time Horizon = Operations Planning]
- **R4.** Each Reliability Coordinator shall, during the time period when the primary control center functionality and the backup functionality are both available for use, have a backup control center facility (provided through its own dedicated backup facility or at another entity's control center with certified Reliability Coordinator operators) that provides the functionality required for maintaining compliance with all Reliability Standards applicable to the Reliability Coordinator that depend on primary control center functionality. To avoid requiring a tertiary facility, a backup facility is not required during. [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]
 - **R4.1.** <u>Planned outages of the primary or backup facilities of two weeks or less</u>
 - **R4.2.** <u>Unplanned outages of the primary or backup facilities</u>
- **R5.** Each Balancing Authority and applicable Transmission Operator shall, during the time period when the primary control center functionality and the backup functionality are both available for use, 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 that depend on to a Balancing Authority and Transmission Operator's primary control center functionality respectively. To avoid requiring tertiary

<u>functionality</u>, <u>backup functionality is not required during</u>: [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]

- **R5.1.** Planned outages of the primary or backup functionality of two weeks or less
- **R5.2.** Unplanned outages of the primary or backup functionality
- **R6.** Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator, shall annually review and approve its Operating Plan for backup functionality. [Violation Risk Factor = Lower] [Time Horizon = Operations Planning]
 - **R6.1.** The<u>An</u> update and approval of the Operating Plan for backup functionality shall take place within sixty calendar days of any changes to the backup location, in capabilities described in Requirement R1, or contact information.
- R7. Each Reliability Coordinator, Balancing Authority, and applicable-Transmission Operator shall have primary and backup capabilityies that does not depend on the primary control center each other or any single data center for any functionality required to maintain compliance with Reliability Standards that depend on the primary control functionality. [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]
- R8. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall conduct and document results of an annual test of its Operating Plan that demonstrates includes: [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]
 - **R8.1.** <u>A demonstration of t</u><u>T</u>he transition time between the <u>loss of primary control</u> center <u>functionality</u> and the <u>time to fully implement the backup functionality</u> <u>initiation of backup functionality</u>.
 - **R8.2.** Actual implementation or test operations of tThe backup functionality for a minimum of two continuous hours.

R8.3.Test results shall be documented and lessons learned noted and incorporated in subsequent revisions of the Operating Plan for backup functionality.

R9. Each Reliability Coordinator, Balancing Authority, and applicable-Transmission Operator that has experienced a loss of their its primary or backup capability and that anticipates that the loss of primary or backup capability will last for more than six calendar months; shall provide a plan to its Regional Entity Reliability Assurer within six calendar months of the date when the functionality is lost₂₇ showing how it will reestablish backup capability. [Violation Risk Factor = Medium] [Time Horizon = Operations Planning]

C. Measures

M1. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall have a dated, current, in force Operating Plan for backup functionality in accordance with Requirement R1, in electronic or hardcopy format., with evidence of its last issue, describing the manner in which it ensures reliable operations of the BES in the event that its primary control center becomes inoperable.

- M2. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall have a dated, current, in force copy of its Operating Plan for backup functionality in accordance with Requirement R2, in electronic or hardcopy format, with evidence of its last issue, located available inat its primary control center and at the location supporting backup functionality.
- M3. Each <u>Reliability Coordinator, Balancing Authority, and applicable</u> Transmission Operator directing BES operations through other entities shall provide evidence that it has ensured that backup functionality exists for the BES operations performed through those other entities included provisions for the loss of such entity's control functionality in its dated, current, in force Operating Plan for backup functionality, with evidence of its last issue, for backup functionality in accordance with Requirement R3.
- M4. Each Reliability Coordinator shall provide dated evidence that it has demonstrated that it has a backup control center facility (provided through its own dedicated backup facility or at another entity's control center with certified Reliability Coordinator operators) that provides the functionality required for maintaining compliance with all Reliability Standards applicable to the Reliability Coordinator that depend on primary control center functionality in accordance with Requirement R4.
- M5. Each Balancing Authority and applicable Transmission Operator shall provide dated evidence that it has demonstrated that it'sits backup functionality (provided either through a backup control center facility or contracted services) includes monitoring, control, logging, and alarming sufficient for maintaining compliance with all Reliability Standards applicable that depend on to a Balancing Authority or Transmission Operator's primary control center functionality respectively in accordance with Requirement R5.
- M6. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator, shall have evidence that it's dated, current, in force Operating Plan for backup functionality, in electronic or hardcopy format, with evidence of its last issue, has been reviewed and approved annually and that it has been updated within sixty calendar days of any changes to the backup location, capabilities described in Requirement R1, or contact information in accordance with Requirement R6.
- M7. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall have dated evidence that its primary and backup capabilityies does not depend on each other or any common facility the primary control center for any functionality required to maintain compliance with Reliability Standards that depend on the primary control functionality in accordance with Requirement R7.
- M8. Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall provide evidence such as dated records, that it has <u>completed and</u> <u>documented its annual</u> tested <u>of</u> its <u>dated</u>, <u>current</u>, in force Operating Plan for backup functionality, with evidence of its last issue, and that test results and lessons learned from such testing are noted and incorporated in subsequent revisions of its Operating Plan for backup functionality in accordance with Requirement R8.
- **M9.** Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator that has experienced a loss of their primary or backup capability and that anticipates that the loss of primary or backup capability will last for more than six calendar months; shall provide evidence that a plan has been submitted to its Regional

Entity <u>Reliability Assurer</u> within six calendar months of the date when the functionality is lost, showing how it will re-establish backup capability in accordance with Requirement R9.

D. Compliance

- 1. Compliance Monitoring Process
 - 1.1. Compliance Enforcement Authority

Regional Entity.

1.2. Compliance Monitoring Period and Reset Timeframe

Not applicable.

1.3. Compliance Monitoring and Enforcement Processes:

Compliance Audits

Self-Certifications

Spot Checking

Compliance Violation Investigations

Self-Reporting

Complaints

1.4. Data Retention

The Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall retain data or evidence to show compliance as identified unless directed by its Compliance Enforcement Authority to retain specific evidence for a longer period of time as part of an investigation:

- Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall retain their dated, current, in force Operating Plan for backup functionality for the current year and three previous years in accordance with Measurement M1.
- Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall retain a dated, current, in force copy of its Operating Plan for backup functionality, with evidence of its last issue, located inavailable at its primary control center and at the location supporting backup functionality, for the current year, in accordance with Measurement M2.
- Each <u>Reliability Coordinator, Balancing Authority, and applicable</u> Transmission Operator directing BES operations through other entities shall retain its dated, current, in force Operating Plan for backup functionality, with evidence of its last issue, providing evidence that it has ensured that backup functionality exists for the BES operations performed through those other entities included provisions for the loss of such entity's control functionality for the current year and three previous years, in accordance with Measurement M3.
- Each Reliability Coordinator shall retain dated evidence for the time period since its last compliance audit, that it has demonstrated that it has a backup control center facility (provided through its own dedicated backup facility or at

another entity's control center with certified Reliability Coordinator operators) in accordance with requirement R4 that provides the functionality required for maintaining compliance with all Reliability Standards applicable to the Reliability Coordinator that depend on primary control center functionality in accordance with Measurement M4.

- Each Balancing Authority and applicable Transmission Operator shall retain dated evidence for the time period since its last compliance audit, that it has demonstrated that it's backup functionality (provided either through a backup control center facility or contracted services) in accordance with requirement R5 includes monitoring, control, logging, and alarming sufficient for maintaining compliance with all Reliability Standards applicable that depend on to a Balancing Authority and Transmission Operator's primary control center functionality respectively in accordance with Measurement M5.
- Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator, shall retain evidence for the current year and three previous years, that it's dated, current, in force Operating Plan for backup functionality, with evidence of its last issue, has been reviewed and approved annually and that it has been updated within sixty calendar days of any changes to the backup location, capabilities described in Requirement R1, or contact information in accordance with Measurement M6.
- Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall retain dated evidence for the current year and for any Operating Plan for backup functionality in force since its last compliance audit, that its primary and backup capabilityies does not depend on each other or any common facility the primary control center for any functionality required to maintain compliance with Reliability Standards that depend on the primary control functionality in accordance with Measurement M7.
- Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator shall retain evidence for the current year and one previous year, such as dated records, that it has tested its_dated, current, in force Operating Plan for backup functionality, with evidence of its last issue, in accordance with Measurement M8.
- Each Reliability Coordinator, Balancing Authority, and applicable Transmission Operator that has experienced a loss of their primary or backup capability and that anticipates that the loss of primary or backup capability would last for more than six calendar months; shall retain evidence for the current in force document and any such documents in force since its last compliance audit; that a plan has been submitted to its Regional Entity Reliability Assurer within six calendar months of the date when the functionality is lost; showing how it will re-establish backup capability in accordance with Measurement M9.

1.5. Additional Compliance Information

None.

2. Violation Severity Levels

R#	Lower	Moderate	High	Severe
R1.	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator has an current Operating Plan for backup functionality but the plan is missing one of the sub-requirements or the plan is does not dated with evidencereflect the date of its last issueissuance.	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator has an <u>current</u> Operating Plan for backup functionality but the plan is missing two of the sub- requirements.	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator has an <u>current</u> Operating Plan for backup functionality but the plan is missing three or more of the sub- requirements or is not compliant with Requirement R1.5.	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator does not have an <u>current</u> Operating Plan for backup functionality.
R2.	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator has an Operating Plan for backup functionality but the plan is not located available in at one all of its control locations but at one location it is not the current plan.	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator has an Operating Plan for backup functionality but the plan is not located available inat either all of its control locations but at all locations it is not the current plan.	N/A	N/A The Reliability Coordinator, Balancing Authority, or Transmission Operator has an Operating Plan for backup functionality but no version of the plan is available at all of its control locations.
R3.	The <u>Reliability Coordinator</u> , <u>Balancing Authority, or applicable</u> Transmission Operator directing BES operations through other entities has not <u>ensured against included</u> provisions for the loss of such entity's control functionality <u>that is depended</u> <u>upon for compliance with one or</u> <u>more Requirements in the Reliability</u> <u>Standards having a Lower VRF for</u> 10% or less of its applicable entities in its Operating Plan for backup functionality.	The <u>Reliability Coordinator</u> , <u>Balancing Authority, or applicable</u> Transmission Operator directing BES operations through other entities has not <u>ensured against</u> <u>included provisions for</u> the loss of such entity's control functionality <u>that is depended upon for</u> <u>compliance with one or more</u> <u>Requirements in the Reliability</u> <u>Standards having a Medium VRF</u> for more than 10% and less than <u>25% of its applicable entities</u> in its Operating Plan for backup functionality.	The <u>Reliability Coordinator</u> , <u>Balancing Authority, or applicable</u> Transmission Operator directing BES operations through other entities has not <u>ensured against</u> included provisions for the loss of such entity's control functionality <u>that is depended upon for</u> <u>compliance with one or more</u> <u>Requirements in the Reliability</u> <u>Standards having a High VRFfor</u> more than 25% of its applicable entities in its Operating Plan for backup functionality.	The <u>Reliability Coordinator</u> , <u>Balancing Authority, or applicable</u> Transmission Operator directing BES operations through other entities has not <u>ensured against</u> <u>included provisions for</u> the loss of any such entity's control functionality in its Operating Plan for backup functionality.

R#	Lower	Moderate	High	Severe
R4.	The Reliability Coordinator has demonstrated that it has a backup control center facility (provided through its own dedicated backup facility or at another entity's control center_with certified Reliability <u>Coordinator operators</u>) in accordance with <u>FR</u> equirement R4 but it <u>only</u> <u>providesdoes not provide</u> the functionality required for maintaining compliance with <u>90% one or more</u> of the <u>Requirements in the</u> Reliability Standards applicable to the Reliability Coordinator <u>that depend on the</u> <u>primary control center functionality</u> <u>and which have a Lower VRF., or the evidence of the demonstration is not dated.</u>	The Reliability Coordinator has demonstrated that it has a backup control center facility (provided through its own dedicated backup facility or at another entity's control center <u>with certified</u> <u>Reliability Coordinator operators</u>) in accordance with <u>#R</u> equirement R4 but it <u>only providesdoes not</u> <u>provide</u> the functionality required for maintaining compliance with <u>80% one or more</u> of the <u>Requirements in the</u> Reliability Standards applicable to the Reliability Coordinator <u>that depend</u> <u>on the primary control center</u> <u>functionality and which have a</u> <u>Medium VRF</u> .	The Reliability Coordinator has demonstrated that it has a backup control center facility (provided through its own dedicated backup facility or at another entity's control center with certified <u>Reliability Coordinator operators</u>) in accordance with <u>#R</u> equirement R4 but it <u>only provides_does not</u> <u>provide</u> the functionality required for maintaining compliance with <u>70% one or more</u> of the <u>Requirements in the</u> Reliability Standards applicable to the Reliability Coordinator <u>that depend</u> <u>on the primary control center</u> <u>functionality and which have a</u> <u>High VRF</u> .	The Reliability Coordinator has not demonstrated that it has a backup control center facility (provided through its own dedicated backup facility or at another entity's control center <u>with certified</u> <u>Reliability Coordinator operators</u>) in accordance with <u>#R</u> equirement R4.
R5.	The Balancing Authority or applicable Transmission Operator has demonstrated that it has backup functionality (provided either through a backup control center facility or contracted services) in accordance with <u>FR</u> equirement R5 but it <u>only</u> includes <u>does not include</u> monitoring, control, logging, and alarming sufficient for maintaining compliance with <u>90%one or more</u> of the <u>Requirements in the</u> Reliability Standards applicable to a Balancing Authority and Transmission Operator respectively <u>that depend on the</u> primary control center functionality	The Balancing Authority or applicable Transmission Operator has demonstrated that it has backup functionality (provided either through a backup control center facility or contracted services) in accordance with <u>FR</u> equirement R5 but it <u>only includesdoes not include</u> monitoring, control, logging, and alarming sufficient for maintaining compliance with <u>80% one or more</u> of the <u>Requirements in the</u> Reliability Standards applicable to a Balancing Authority and Transmission Operator respectively <u>that depend on the primary control</u>	The Balancing Authority or applicable Transmission Operator has demonstrated that it has backup functionality (provided either through a backup control center facility or contracted services) in accordance with <u>FR</u> equirement R5 but it <u>only includesdoes not include</u> monitoring, control, logging, and alarming sufficient for maintaining compliance with <u>70% one or more</u> of the <u>Requirements in the</u> Reliability Standards applicable to a Balancing Authority and Transmission Operator respectively <u>that depend on the primary control</u>	The Balancing Authority or applicable Transmission Operator has not demonstrated that it has backup functionality (provided either through a backup control center facility or contracted services) in accordance with r Requirement R5.

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R#	Lower	Moderate	High	Severe
	and which have a Lower VRF., or its evidence is not dated.	center functionality and which have a Medium VRF.	center functionality and which have a High VRF.	
R6.	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator, has evidence that it's dated, current, in force Operating Plan for backup functionality, with evidence of its last issue, was reviewed and approved but it was <u>not</u> done in <u>one calendar year</u> more than twelve calendar months and less than or equal to fifteen calendar months or that it was updated more than sixty calendar days and less than or equal to ninety calendar days after any changes to the backup location, capabilities described in Requirement R1, or contact information.	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator, has evidence that it's dated, current, in force Operating Plan for backup functionality, with evidence of its last issue, was reviewed and approved but it was done in more than fifteen calendar months or that it was updated more than ninety calendar days after any changes to the backup location, capabilities, or contact information. N/A	N/A The Reliability Coordinator, Balancing Authority, or Transmission Operator, has evidence that it's dated, current, in force Operating Plan for backup functionality, with evidence of its last issue, was reviewed and approved but it was not done in two calendar years or more or that it was updated more than ninety calendar days after any changes to the capabilities described in Requirement R1.	N/A The Reliability Coordinator, Balancing Authority, or Transmission Operator, does not have evidence that it's dated, current, in force Operating Plan for backup functionality was reviewed and approved.
R7.	N/A	N/A	N/A	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator's dated evidence does not demonstrateshows that its primary and backup capabilityies does not depend on each other or any common facility the primary control center for the functionality required to maintain compliance with Reliability Standards that depend on the primary control functionality.

R#	Lower	Moderate	High	Severe
R8.	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator has provided evidence, such as dated records, that it has annually tested its_dated, current, in force Operating Plan for backup functionality, but one of the following occurred: 1) the demonstration was with evidence of its last issue, through actual implementation or test operations for less than two continuous hours, 2)or it has failed to demonstrate that the transition time period is less than or equal to two hours ₇ . or it was done in more than twelve calendar months or $\underline{3}$ 3) test results and lessons learned were not incorporated documented in subsequent revisions of the Operating Plan for backup functionality.	The Reliability Coordinator, Balancing Authority, or Transmission Operator has annually tested its Operating Plan for backup functionality, but two of the following occurred: 1) the demonstration was for less than two continuous hours, 2) it has failed to demonstrate that the transition time period is less than or equal to two hours, or 3) test results were not documented. N/A	The Reliability Coordinator, Balancing Authority, or Transmission Operator has annually tested its Operating Plan for backup functionality, but all three of the following occurred: 1) the demonstration was for less than two continuous hours, 2) it has failed to demonstrate that the transition time period is less than or equal to two hours, and 3) test results were not documented. N/A	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator has not annually tested its dated, current, in force-Operating Plan for backup functionality.
R9.	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator that has experienced a loss of their primary or backup capability and that anticipates that the loss of primary or backup capability would last for more than six calendar months, has provided evidence that a plan has been submitted to its Regional Entity Reliability Assurer showing how it will re-establish backup capability but	N/A	N/A	The Reliability Coordinator, Balancing Authority, or applicable Transmission Operator that has experienced a loss of their primary or backup capability and that anticipates that the loss of primary or backup capability would last for more than six calendar months, has not submitted a plan to its Regional Entity-Reliability Assurer showing how it will re-establish backup.

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R#	Lower	Moderate	High	Severe
	it was submitted in more than six calendar months.			

E. Regional Variances

None.

Version History

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