

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.

The following definition should be retired from the NERC Glossary of Terms Used in Reliability Standards when this standard is approved:

Cascading Outages: The uncontrolled successive loss of Bulk Electric System Facilities triggered by an incident (or condition) at any location resulting in the interruption of electric service that cannot be restrained from spreading beyond a predetermined area.

A. Introduction

- 1. Title: System Operating Limits Methodology for the Planning Horizon
- 2. Number: FAC-010-12
- **3. Purpose:** To ensure that System Operating Limits (SOLs) used in the reliable planning of the Bulk Electric System (BES) are determined based on an established methodology or methodologies.
- 4. Applicability
 - **4.1.** Planning Authority
- 5. Effective Date: July 1, 2008

B. Requirements

- **R1.** The Planning Authority shall have a documented SOL Methodology for use in developing SOLs within its Planning Authority Area. This SOL Methodology shall:
 - **R1.1.** Be applicable for developing SOLs used in the planning horizon.
 - **R1.2.** State that SOLs shall not exceed associated Facility Ratings.
 - **R1.3.** Include a description of how to identify the subset of SOLs that qualify as IROLs.
- **R2.** The Planning Authority's SOL Methodology shall include a requirement that SOLs provide BES performance consistent with the following:
 - **R2.1.** In the pre-contingency state and with all Facilities in service, the BES shall demonstrate transient, dynamic and voltage stability; all Facilities shall be within their Facility Ratings and within their thermal, voltage and stability limits. In the determination of SOLs, the BES condition used shall reflect expected system conditions and shall reflect changes to system topology such as Facility outages.
 - **R2.2.** Following the single Contingencies¹ identified in Requirement 2.2.1 through Requirement 2.2.3, the system shall demonstrate transient, dynamic and voltage stability; all Facilities shall be operating within their Facility Ratings and within their thermal, voltage and stability limits; and Cascading Outages-or uncontrolled separation shall not occur.
 - **R2.2.1.** Single line to ground or three-phase Fault (whichever is more severe), with Normal Clearing, on any Faulted generator, line, transformer, or shunt device.
 - **R2.2.2.** Loss of any generator, line, transformer, or shunt device without a Fault.
 - **R2.2.3.** Single pole block, with Normal Clearing, in a monopolar or bipolar high voltage direct current system.

¹ The Contingencies identified in R2.2.1 through R2.2.3 are the minimum contingencies that must be studied but are not necessarily the only Contingencies that should be studied.

- **R2.3.** Starting with all Facilities in service, the system's response to a single Contingency, may include any of the following:
 - **R2.3.1.** Planned or controlled interruption of electric supply to radial customers or some local network customers connected to or supplied by the Faulted Facility or by the affected area.
 - **R2.3.2.** System reconfiguration through manual or automatic control or protection actions.
- **R2.4.** To prepare for the next Contingency, system adjustments may be made, including changes to generation, uses of the transmission system, and the transmission system topology.
- **R2.5.** Starting with all <u>facilities Facilities</u> in service and following any of the multiple Contingencies identified in Reliability Standard TPL-003 the system shall demonstrate transient, dynamic and voltage stability; all Facilities shall be operating within their Facility Ratings and within their thermal, voltage and stability limits; and Cascading Outages or uncontrolled separation shall not occur.
- **R2.6.** In determining the system's response to any of the multiple Contingencies, identified in Reliability Standard TPL-003, in addition to the actions identified in R2.3.1 and R2.3.2, the following shall be acceptable:
 - **R2.6.1.** Planned or controlled interruption of electric supply to customers (load shedding), the planned removal from service of certain generators, and/or the curtailment of contracted Firm (non-recallable reserved) electric power Transfers.
- **R3.** The Planning Authority's methodology for determining SOLs, shall include, as a minimum, a description of the following, along with any reliability margins applied for each:
 - **R3.1.** Study model (must include at least the entire Planning Authority Area as well as the critical modeling details from other Planning Authority Areas that would impact the Facility or Facilities under study).
 - **R3.2.** Selection of applicable Contingencies.
 - **R3.3.** Level of detail of system models used to determine SOLs.
 - **R3.4.** Allowed uses of Special Protection Systems or Remedial Action Plans.
 - **R3.5.** Anticipated transmission system configuration, generation dispatch and Load level.
 - **R3.6.** Criteria for determining when violating a SOL qualifies as an Interconnection Reliability Operating Limit (IROL) and criteria for developing any associated IROL T_v.

- **R4.** The Planning Authority shall issue its SOL Methodology, and any change to that methodology, to all of the following prior to the effectiveness of the change:
 - **R4.1.** Each adjacent Planning Authority and each Planning Authority that indicated it has a reliability-related need for the methodology.
 - **R4.2.** Each Reliability Coordinator and Transmission Operator that operates any portion of the Planning Authority's Planning Authority Area.
 - **R4.3.** Each Transmission Planner that works in the Planning Authority's Planning Authority Area.
- **R5.** If a recipient of the SOL Methodology provides documented technical comments on the methodology, the Planning Authority shall provide a documented response to that recipient within 45 calendar days of receipt of those comments. The response shall indicate whether a change will be made to the SOL Methodology and, if no change will be made to that SOL Methodology, the reason why.

C. Measures

- M1. The Planning Authority's SOL Methodology shall address all of the items listed in Requirement 1 through Requirement 3.
- **M2.** The Planning Authority shall have evidence it issued its SOL Methodology and any changes to that methodology, including the date they were issued, in accordance with Requirement 4.
- M3. If the recipient of the SOL Methodology provides documented comments on its technical review of that SOL methodology, the Planning Authority that distributed that SOL Methodology shall have evidence that it provided a written response to that commenter within 45 calendar days of receipt of those comments in accordance with Requirement 5.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization

1.2. Compliance Monitoring Period and Reset Time Frame

Each Planning Authority shall self-certify its compliance to the Compliance Monitor at least once every three years. New Planning Authorities shall demonstrate compliance through an on-site audit conducted by the Compliance Monitor within the first year that it commences operation. The Compliance Monitor shall also conduct an on-site audit once every nine years and an investigation upon complaint to assess performance.

The Performance-Reset Period shall be twelve months from the last non-compliance.

1.3. Data Retention

The Planning Authority shall keep all superseded portions to its SOL Methodology for 12 months beyond the date of the change in that methodology and shall keep all documented comments on its SOL Methodology and associated responses for three years. In addition, entities found non-compliant shall keep information related to the non-compliance until found compliant.

The Compliance Monitor shall keep the last audit and all subsequent compliance records.

1.4. Additional Compliance Information

The Planning Authority shall make the following available for inspection during an on-site audit by the Compliance Monitor or within 15 business days of a request as part of an investigation upon complaint:

- **1.4.1** SOL Methodology.
- **1.4.2** Documented comments provided by a recipient of the SOL Methodology on its technical review of a SOL Methodology, and the associated responses.
- **1.4.3** Superseded portions of its SOL Methodology that had been made within the past 12 months.
- **1.4.4** Evidence that the SOL Methodology and any changes to the methodology that occurred within the past 12 months were issued to all required entities.

2.—Levels of Non-Compliance (Does not apply to the for Western Interconnection)

- **2.1.** Level 1: There shall: (To be a level one non-compliance if either of the following conditions exists:
 - 2.1.1 The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded.
 - 2.1.2 No evidence of responses to a recipient's comments on the SOL Methodology.
- **2.2. Level 2:** The SOL Methodology did not include a requirement to address all of the elements in R2.
- **2.3.** Level 3: There shall be a level three non-compliance if either of the following conditions exists:
 - 2.3.1 The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded **and** the methodology did not include a requirement for evaluation of system response to one of the three types of single Contingencies identified in R2.2.
 - **2.3.2** The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded **and** the methodology did not address two of the six required topics in R3.
- 2. Level 4: The SOL Methodology was not issued to all required entities in accordance<u>replaced</u> with R4.<u>VSLs once developed and approved by WECC</u>)

4. Levels of Non-Compliance for Western Interconnection:

2.1. Level 1: There shall be a level one non-compliance if either of the following conditions exists:

- **2.1.1** The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded.
- **2.1.2** No evidence of responses to a recipient's comments on the SOL Methodology.
- **2.2.** Level 2: The SOL Methodology did not include a requirement to address all of the elements in R2.1 through R2.3 and E1.
- **2.3. Level 3:** There shall be a level three non-compliance if any of the following conditions exists:
 - **2.3.1** The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded and the methodology did not include evaluation of system response to one of the three types of single Contingencies identified in R2.2.
 - **2.3.2** The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded and the methodology did not include evaluation of system response to two of the seven types of multiple Contingencies identified in E1.1.
 - **2.3.3** The System Operating Limits Methodology did not include a statement indicating that Facility Ratings shall not be exceeded and the methodology did not address two of the six required topics in R3.
- **2.4. Level 4:** The SOL Methodology was not issued to all required entities in accordance with R4.

3. <u>Violation Severity Levels:</u>

<u>Requirement</u>	Lower	<u>Moderate</u>	<u>High</u>	<u>Severe</u>
<u>R1</u>	Not applicable.	The Planning Authority has a documented SOL Methodology for use in developing SOLs within its Planning Authority Area, but it does not address R1.2	The Planning Authority has a documented SOL Methodology for use in developing SOLs within its Planning Authority Area, but it does not address R1.3.	The Planning Authority has a documented SOL Methodology for use in developing SOLs within its Planning Authority Area, but it does not address R1.1.ORThe Planning Authority has no documented SOL Methodology for use in developing SOLs within its Planning Authority Area.
<u>R2</u>	The Planning Authority's SOL Methodology requires that SOLs are set to meet BES performance following single and multiple contingencies, but does not address the pre-contingency state (R2.1)	The Planning Authority's SOL Methodology requires that SOLs are set to meet BES performance in the pre- contingency state and following single contingencies, but does not address multiple contingencies. (R2.5-R2.6)	The Planning Authority's SOL Methodology requires that SOLs are set to meet BES performance in the pre- contingency state and following multiple contingencies, but does not meet the performance for response to single contingencies. (R2.2 – R2.4)	The Planning Authority's SOL Methodology requires that SOLs are set to meet BES performance in the pre- contingency state but does not require that SOLs be set to meet the BES performance specified for response to single contingencies (R2.2-R2.4) and does not require that SOLs be set to meet the BES performance specified for response to multiple contingencies. (R2.5-R2.6)
<u>R3</u>	<u>The Planning Authority has</u> <u>a methodology for</u> determining SOLs that	<u>The Planning Authority has</u> <u>a methodology for</u> determining SOLs that	<u>The Planning Authority has</u> <u>a methodology for</u> determining SOLs that	<u>The Planning Authority has</u> <u>a methodology for</u> determining SOLs that is

but one of the following: but two o	f the following: b	includes a description for all but three of the following:	missing a description of four or more of the following:
		R3.1 through R3.6.	R3.1 through R3.6.
following: The Planning Authority The Planning Authority issued its issued its SOL Methodology and change and changes to that methodol methodology to all but one of the required entities. For a change in methodol methodology, the changed methodol methodology was provided up to 30 calendar days after the effectiveness of the of the change OR The Planning The Planning Authority issued its and change. OR	ning Authority I SOL Methodology is ges to that a ogy to all but one n nuired entities AND o nge in fd ogy, the changed n ogy was provided n lar days or more, 6 nan 60 calendar b the effectiveness d inge. O ning Authority I SOL Methodology is ges to that o ogy to all but two n uired entities AND o ogy was provided n ogy, the changed n ogy, the changed n ogy, was provided n iveness of the b d o o G iveness of the d	One of the following: The Planning Authority issued its SOL Methodology and changes to that methodology to all but one of the required entities AND for a change in methodology, the changed methodology was provided 60 calendar days or more, but less than 90 calendar days after the effectiveness of the change. OR The Planning Authority issued its SOL Methodology and changes to that methodology to all but two of the required entities AND for a change in methodology, the changed methodology was provided 30 calendar days or more, but less than 60 calendar days after the effectiveness of the change. OR The Planning Authority issued its SOL Methodology and changes to that methodology was provided 30 calendar days or more, but less than 60 calendar days after the effectiveness of the change. OR The Planning Authority issued its SOL Methodology	One of the following:The Planning Authority failed to issue its SOLMethodology and changes to that methodology to more than three of the required entities.The Planning Authority issued its SOL Methodology and changes to that methodology to all but one of the required entities AND for a change in methodology was provided 90 calendar days or more after the effectiveness of the change.ORThe Planning Authority issued its SOL Methodology and changes to that methodology was provided 90 calendar days or more after the effectiveness of the change.ORThe Planning Authority issued its SOL Methodology and changes to that methodology to all but two of the required entities AND for a change in methodology to all but two of the required entities AND for a change in methodology to all but two of the required entities AND for a change in methodology to all but two of the required entities AND for a change in methodology was provided for a change in

<u>Requirement</u>	Lower	<u>Moderate</u>	<u>High</u>	<u>Severe</u>
			and changes to that methodology to all but three of the required entities AND for a change in methodology, the changed methodology was provided up to 30 calendar days after the effectiveness of the change.	days after the effectiveness of the change.ORThe Planning Authority issued its SOL Methodology and changes to that methodology to all but three of the required entities AND for a change in methodology, the changed methodology was provided 30 calendar days or more, but less than 60 calendar days after the effectiveness of the change.The Planning Authority issued its SOL Methodology and changes to that methodology to all but four of the change.The Planning Authority issued its SOL Methodology and changes to that methodology to all but four of the required entities AND for a change in methodology, the changed methodology was provided up to 30 calendar days after

Standard FAC-010-1-2 — System Operating Limits Methodology for the Planning Horizon

<u>R5</u>	The Planning Authority	The Planning Authority	The Planning Authority	The Planning Authority
	received documented	received documented	received documented	received documented
	technical comments on its	technical comments on its	technical comments on its	technical comments on its
	SOL Methodology and	SOL Methodology and	SOL Methodology and	SOL Methodology and
	provided a complete	provided a complete	provided a complete	provided a complete
	response in a time period	response in a time period	response in a time period	response in a time period
	that was longer than 45	that was 60 calendar days or	that was 75 calendar days or	that was 90 calendar days or
	calendar days but less than	longer but less than 75	longer but less than 90	longer.
	60 calendar days.	calendar days.	calendar days.	OP
				OR
			OR	The Planning Authority's
			The Planning Authority's	response to documented
			response to documented	technical comments on its
			technical comments on its	SOL Methodology did not
			SOL Methodology indicated	indicate whether a change
			that a change will not be	will be made to the SOL
			made, but did not include an	Methodology.
			explanation of why the	
			change will not be made.	

E. Regional Differences

- **1.** The following Interconnection-wide Regional Difference shall be applicable in the Western Interconnection:
 - **1.1.** As governed by the requirements of R2.4 and R2.5, starting with all Facilities in service, shall require the evaluation of the following multiple Facility Contingencies when establishing SOLs:
 - **1.1.1** Simultaneous permanent phase to ground Faults on different phases of each of two adjacent transmission circuits on a multiple circuit tower, with Normal Clearing. If multiple circuit towers are used only for station entrance and exit purposes, and if they do not exceed five towers at each station, then this condition is an acceptable risk and therefore can be excluded.
 - **1.1.2** A permanent phase to ground Fault on any generator, transmission circuit, transformer, or bus section with Delayed Fault Clearing except for bus sectionalizing breakers or bus-tie breakers addressed in E1.1.7
 - **1.1.3** Simultaneous permanent loss of both poles of a direct current bipolar Facility without an alternating current Fault.
 - **1.1.4** The failure of a circuit breaker associated with a Special Protection System to operate when required following: the loss of any element without a Fault; or a permanent phase to ground Fault, with Normal Clearing, on any transmission circuit, transformer or bus section.
 - **1.1.5** A non-three phase Fault with Normal Clearing on common mode Contingency of two adjacent circuits on separate towers unless the event frequency is determined to be less than one in thirty years.
 - **1.1.6** A common mode outage of two generating units connected to the same switchyard, not otherwise addressed by FAC-010.
 - **1.1.7** The loss of multiple bus sections as a result of failure or delayed clearing of a bus tie or bus sectionalizing breaker to clear a permanent Phase to Ground Fault.
 - **1.2.** SOLs shall be established such that for multiple Facility Contingencies in E1.1.1 through E1.1.5 operation within the SOL shall provide system performance consistent with the following:
 - **1.2.1** All Facilities are operating within their applicable Post-Contingency thermal, frequency and voltage limits.
 - **1.2.2** Cascading Outages dodoes not occur.
 - **1.2.3** Uncontrolled separation of the system does not occur.
 - **1.2.4** The system demonstrates transient, dynamic and voltage stability.
 - **1.2.5** Depending on system design and expected system impacts, the controlled interruption of electric supply to customers (load shedding), the planned removal from service of certain generators, and/or the curtailment of

contracted firm (non-recallable reserved) electric power transfers may be necessary to maintain the overall security of the interconnected transmission systems.

- **1.2.6** Interruption of firm transfer, Load or system reconfiguration is permitted through manual or automatic control or protection actions.
- **1.2.7** To prepare for the next Contingency, system adjustments are permitted, including changes to generation, Load and the transmission system topology when determining limits.
- **1.3.** SOLs shall be established such that for multiple Facility Contingencies in E1.1.6 through E1.1.7 operation within the SOL shall provide system performance consistent with the following with respect to impacts on other systems:
 - **1.3.1** Cascading Outages dodoes not occur.
- **1.4.** The Western Interconnection may make changes (performance category adjustments) to the Contingencies required to be studied and/or the required responses to Contingencies for specific facilities based on actual system performance and robust design. Such changes will apply in determining SOLs.

Version	Date	Action	Change Tracking
1	November 1, 2006	Adopted by Board of Trustees	New
1	November 1, 2006	Fixed typo. Removed the word "each" from the 1 st sentence of section D.1.3, Data Retention.	01/11/07
1	January 16, 2008	Changed effective date to July 1, 2008	Effective Date
2	<u>June 23, 2008</u>	Changed "Cascading Outage" to "Cascading" Capitalized, "Facilities" in R2.5 Replaced Levels of Non-compliance with Violation Severity Levels for the continent-wide portion of the standard Changed "Cascading Outages do" to "Cascading does" in 1.2.2 and 1.3.1 of the Regional Variance	Revision

Version History



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.

None.

A. Introduction

- 1. Title: System Operating Limits Methodology for the Operations Horizon
- 2. Number: FAC-011-<u>+2</u>
- **3. Purpose:** To ensure that System Operating Limits (SOLs) used in the reliable operation of the Bulk Electric System (BES) are determined based on an established methodology or methodologies.
- 4. Applicability
 - **4.1.** Reliability Coordinator
- 5. Effective Date: October 1, 2008

B. Requirements

- **R1.** The Reliability Coordinator shall have a documented methodology for use in developing SOLs (SOL Methodology) within its Reliability Coordinator Area. This SOL Methodology shall:
 - **R1.1.** Be applicable for developing SOLs used in the operations horizon.
 - **R1.2.** State that SOLs shall not exceed associated Facility Ratings.
 - **R1.3.** Include a description of how to identify the subset of SOLs that qualify as IROLs.
- **R2.** The Reliability Coordinator's SOL Methodology shall include a requirement that SOLs provide BES performance consistent with the following:
 - **R2.1.** In the pre-contingency state, the BES shall demonstrate transient, dynamic and voltage stability; all Facilities shall be within their Facility Ratings and within their thermal, voltage and stability limits. In the determination of SOLs, the BES condition used shall reflect current or expected system conditions and shall reflect changes to system topology such as Facility outages.
 - **R2.2.** Following the single Contingencies¹ identified in Requirement 2.2.1 through Requirement 2.2.3, the system shall demonstrate transient, dynamic and voltage stability; all Facilities shall be operating within their Facility Ratings and within their thermal, voltage and stability limits; and Cascading Outages or uncontrolled separation shall not occur.
 - **R2.2.1.** Single line to ground or 3-phase Fault (whichever is more severe), with Normal Clearing, on any Faulted generator, line, transformer, or shunt device.
 - **R2.2.2.** Loss of any generator, line, transformer, or shunt device without a Fault.
 - **R2.2.3.** Single pole block, with Normal Clearing, in a monopolar or bipolar high voltage direct current system.

¹ The Contingencies identified in FAC-<u>010011</u> R2.2.1 through R2.2.3 are the minimum contingencies that must be studied but are not necessarily the only Contingencies that should be studied.

- **R2.3.** In determining the system's response to a single Contingency, the following shall be acceptable:
 - **R2.3.1.** Planned or controlled interruption of electric supply to radial customers or some local network customers connected to or supplied by the Faulted Facility or by the affected area.
 - **R2.3.2.** Interruption of other network customers, <u>(a)</u> only if the system has already been adjusted, or is being adjusted, following at least one prior outage, or, <u>(b)</u> if the real-time operating conditions are more adverse than anticipated in the corresponding studies, <u>e.g.</u>, <u>load</u> greater than studied.
 - **R2.3.3.** System reconfiguration through manual or automatic control or protection actions.
- **R2.4.** To prepare for the next Contingency, system adjustments may be made, including changes to generation, uses of the transmission system, and the transmission system topology.
- **R3.** The Reliability Coordinator's methodology for determining SOLs, shall include, as a minimum, a description of the following, along with any reliability margins applied for each:
 - **R3.1.** Study model (must include at least the entire Reliability Coordinator Area as well as the critical modeling details from other Reliability Coordinator Areas that would impact the Facility or Facilities under study.)
 - **R3.2.** Selection of applicable Contingencies
 - **R3.3.** A process for determining which of the stability limits associated with the list of multiple contingencies (provided by the Planning Authority in accordance with FAC-014 Requirement 6) are applicable for use in the operating horizon given the actual or expected system conditions.
 - **R3.3.1.** This process shall address the need to modify these limits, to modify the list of limits, and to modify the list of associated multiple contingencies.
 - **R3.4.** Level of detail of system models used to determine SOLs.
 - **R3.5.** Allowed uses of Special Protection Systems or Remedial Action Plans.
 - **R3.6.** Anticipated transmission system configuration, generation dispatch and Load level
 - **R3.7.** Criteria for determining when violating a SOL qualifies as an Interconnection Reliability Operating Limit (IROL) and criteria for developing any associated IROL T_v.
- **R4.** The Reliability Coordinator shall issue its SOL Methodology and any changes to that methodology, prior to the effectiveness of the Methodology or of a change to the Methodology, to all of the following:
 - **R4.1.** Each adjacent Reliability Coordinator and each Reliability Coordinator that indicated it has a reliability-related need for the methodology.

- **R4.2.** Each Planning Authority and Transmission Planner that models any portion of the Reliability Coordinator's Reliability Coordinator Area.
- **R4.3.** Each Transmission Operator that operates in the Reliability Coordinator Area.
- **R5.** If a recipient of the SOL Methodology provides documented technical comments on the methodology, the Reliability Coordinator shall provide a documented response to that recipient within 45 calendar days of receipt of those comments. The response shall indicate whether a change will be made to the SOL Methodology and, if no change will be made to that SOL Methodology, the reason why.

C. Measures

- **M1.** The Reliability Coordinator's SOL Methodology shall address all of the items listed in Requirement 1 through Requirement 3.
- **M2.** The Reliability Coordinator shall have evidence it issued its SOL Methodology, and any changes to that methodology, including the date they were issued, in accordance with Requirement 4.
- M3. If the recipient of the SOL Methodology provides documented comments on its technical review of that SOL methodology, the Reliability Coordinator that distributed that SOL Methodology shall have evidence that it provided a written response to that commenter within 45 calendar days of receipt of those comments in accordance with Requirement 5

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization

1.2. Compliance Monitoring Period and Reset Time Frame

Each Reliability Coordinator shall self-certify its compliance to the Compliance Monitor at least once every three years. New Reliability Authorities shall demonstrate compliance through an on-site audit conducted by the Compliance Monitor within the first year that it commences operation. The Compliance Monitor shall also conduct an on-site audit once every nine years and an investigation upon complaint to assess performance.

The Performance-Reset Period shall be twelve months from the last non-compliance.

1.3. Data Retention

The Reliability Coordinator shall keep all superseded portions to its SOL Methodology for 12 months beyond the date of the change in that methodology and shall keep all documented comments on its SOL Methodology and associated responses for three years. In addition, entities found non-compliant shall keep information related to the non-compliance until found compliant.

The Compliance Monitor shall keep the last audit and all subsequent compliance records.

1.4. Additional Compliance Information

The Reliability Coordinator shall make the following available for inspection during an on-site audit by the Compliance Monitor or within 15 business days of a request as part of an investigation upon complaint:

- **1.4.1** SOL Methodology.
- **1.4.2** Documented comments provided by a recipient of the SOL Methodology on its technical review of a SOL Methodology, and the associated responses.
- **1.4.3** Superseded portions of its SOL Methodology that had been made within the past 12 months.
- **1.4.4** Evidence that the SOL Methodology and any changes to the methodology that occurred within the past 12 months were issued to all required entities.
- 2.—Levels of Non-Compliance (Does not apply to the for Western Interconnection)
 - **2.1.** Level 1: There shall: (To be a level one non-compliance if either of the following conditions exists:
 - **2.1.1** The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded.
 - **2.1.2** No evidence of responses to a recipient's comments on the SOL Methodology.
 - **2.2. Level 2:** The SOL Methodology did not include a requirement to address all of the elements in R3.
 - **2.3.** Level 3: There shall be a level three non-compliance if either of the following conditions exists:
 - 2.3.1 The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded **and** the methodology did not include a requirement for evaluation of system response to one of the three types of single Contingencies identified in R2.2.
 - **2.3.2** The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded **and** the methodology did not address two of the seven required topics in R3.
- 2. Level 4: The SOL Methodology was not issued to all required entities in accordancereplaced with R4.VSLs once developed and approved by WECC)

Levels of Non-Compliance for Western Interconnection:

- **2.1. Level 1:** There shall be a level one non-compliance if either of the following conditions exists:
 - **2.1.1** The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded.
 - **2.1.2** No evidence of responses to a recipient's comments on the SOL Methodology
- **2.2.** Level 2: The SOL Methodology did not include a requirement to address all of the elements in R3.1, R3.2, R3.4 through R3.7 and E1.

- **2.3.** Level 3: There shall be a level three non-compliance if any of the following conditions exists:
 - **2.3.1** The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded and the methodology did not include evaluation of system response to one of the three types of single Contingencies identified in R2.2.
 - **2.3.2** The SOL Methodology did not include a statement indicating that Facility Ratings shall not be exceeded and the methodology did not include evaluation of system response to two of the seven types of multiple Contingencies identified in E1.1.
 - **2.3.3** The System Operating Limits Methodology did not include a statement indicating that Facility Ratings shall not be exceeded and the methodology did not address two of the six required topics in R3.1, R3.2, R3.4 through R3.7.
- **2.4.** Level 4: The SOL Methodology was not issued to all required entities in accordance with R4.

3. <u>Violation Severity Levels:</u>

<u>Requirement</u>	Lower	Moderate	High	<u>Severe</u>
<u>R1</u>	Not applicable.	The Reliability Coordinator has a documented SOL Methodology for use in developing SOLs within its Reliability Coordinator Area, but it does not address R1.2	The Reliability Coordinator has a documented SOL Methodology for use in developing SOLs within its Reliability Coordinator Area, but it does not address R1.3.	The Reliability Coordinatorhas a documented SOLMethodology for use indeveloping SOLs within itsReliability CoordinatorArea, but it does not addressR1.1.ORThe Reliability Coordinatorhas no documented SOLMethodology for use indeveloping SOLs within itsReliability Coordinatorhas no documented SOLMethodology for use indeveloping SOLs within itsReliability CoordinatorArea.
<u>R2</u>	The Reliability Coordinator's SOL Methodology requires that SOLs are set to meet BES performance following single contingencies, but does not require that SOLs are set to meet BES performance in the pre- contingency state. (R2.1)	Not applicable.	The Reliability Coordinator's SOL Methodology requires that SOLs are set to meet BES performance in the pre- contingency state, but does not require that SOLs are set to meet BES performance following single contingencies. (R2.2 – R2.4)	The Reliability Coordinator's SOL Methodology does not require that SOLs are set to meet BES performance in the pre-contingency state and does not require that SOLs are set to meet BES performance following single contingencies. (R2.1 through R2.4)
<u>R3</u>	The Reliability Coordinator has a methodology for determining SOLs that includes a description for all but one of the following:	The Reliability Coordinator has a methodology for determining SOLs that includes a description for all but two of the following:	The Reliability Coordinator has a methodology for determining SOLs that includes a description for all but three of the following:	The Reliability Coordinator has a methodology for determining SOLs that is missing a description of three or more of the

Requirement	Lower	<u>Moderate</u>	<u>High</u>	<u>Severe</u>
	<u>R3.1 through R3.7.</u>	<u>R3.1 through R3.7.</u>	<u>R3.1 through R3.7.</u>	following: R3.1 through R3.7.
<u>R4</u>	One or both of the following:The Reliability Coordinator issued its SOL Methodology	One of the following: The Reliability Coordinator issued its SOL Methodology and changes to that	One of the following: The Reliability Coordinator issued its SOL Methodology and changes to that	<u>One of the following:</u> <u>The Reliability Coordinator</u> <u>failed to issue its SOL</u> <u>Methodology and changes to</u>
	and changes to that methodology to all but one of the required entities. For a change in	<u>methodology to all but one</u> <u>of the required entities AND</u> <u>for a change in</u> <u>methodology, the changed</u> methodology was provided	<u>methodology to all but one</u> <u>of the required entities AND</u> <u>for a change in</u> <u>methodology, the changed</u> methodology was provided	that methodology to more than three of the required entities. The Reliability Coordinator
	methodology, the changed methodology was provided up to 30 calendar days after the effectiveness of the change.	30 calendar days or more, but less than 60 calendar days after the effectiveness of the change.	60 calendar days or more, but less than 90 calendar days after the effectiveness of the change.	issued its SOL Methodology and changes to that methodology to all but one of the required entities AND for a change in
		OR The Reliability Coordinator issued its SOL Methodology and changes to that methodology to all but two of the required entities AND	OR The Reliability Coordinator issued its SOL Methodology and changes to that methodology to all but two of the required entities AND	methodology, the changed methodology was provided 90 calendar days or more after the effectiveness of the change. OR
		for a change in methodology, the changed methodology was provided up to 30 calendar days after the effectiveness of the change.	for a change in methodology, the changed methodology was provided 30 calendar days or more, but less than 60 calendar days after the effectiveness	The Reliability Coordinator issued its SOL Methodology and changes to that methodology to all but two of the required entities AND for a change in
			of the change. OR The Reliability Coordinator issued its SOL Methodology and changes to that	methodology, the changed methodology was provided 60 calendar days or more, but less than 90 calendar days after the effectiveness

<u>Requirement</u>	Lower	Moderate	<u>High</u>	<u>Severe</u>
			methodology to all but three of the required entities AND for a change in methodology, the changed methodology was provided up to 30 calendar days after the effectiveness of the change.	of the change.ORThe Reliability Coordinator issued its SOL Methodology and changes to that methodology to all but three of the required entities AND for a change in methodology, the changed methodology was provided 30 calendar days or more, but less than 60 calendar days after the effectiveness of the change.ORThe Reliability Coordinator issued its SOL Methodology and changes to that methodology to all but four of the required entities AND for a change in methodology to all but four of the required entities AND for a change in methodology, the changed methodology was provided
<u>R5</u>	The Reliability Coordinatorreceived documentedtechnical comments on itsSOL Methodology andprovided a completeresponse in a time period	The Reliability Coordinator received documented technical comments on its SOL Methodology and provided a complete response in a time period	The Reliability Coordinator received documented technical comments on its SOL Methodology and provided a complete response in a time period	The Reliability Coordinator received documented technical comments on its SOL Methodology and provided a complete response in a time period

	Requirement	Lower	<u>Moderate</u>	<u>High</u>	<u>Severe</u>
		that was longer than 45	that was 60 calendar days or	that was 75 calendar days or	that was 90 calendar days or
		calendar days but less than	longer but less than 75	longer but less than 90	longer.
		<u>60 calendar days.</u>	<u>calendar days.</u>	<u>calendar days.</u>	<u>OR</u>
				OR	The Reliability
				The Reliability	Coordinator's response to
				Coordinator's response to	documented technical
				documented technical	comments on its SOL
				comments on its SOL	Methodology did not
				Methodology indicated that	indicate whether a change
				a change will not be made,	will be made to the SOL
				but did not include an	Methodology.
				explanation of why the	
ļ				change will not be made.	

Regional Differences

- 1. The following Interconnection-wide Regional Difference shall be applicable in the Western Interconnection:
 - **1.1.** As governed by the requirements of R3.3, starting with all Facilities in service, shall require the evaluation of the following multiple Facility Contingencies when establishing SOLs:
 - **1.1.1** Simultaneous permanent phase to ground Faults on different phases of each of two adjacent transmission circuits on a multiple circuit tower, with Normal Clearing. If multiple circuit towers are used only for station entrance and exit purposes, and if they do not exceed five towers at each station, then this condition is an acceptable risk and therefore can be excluded.
 - **1.1.2** A permanent phase to ground Fault on any generator, transmission circuit, transformer, or bus section with Delayed Fault Clearing except for bus sectionalizing breakers or bus-tie breakers addressed in E1.1.7
 - **1.1.3** Simultaneous permanent loss of both poles of a direct current bipolar Facility without an alternating current Fault.
 - **1.1.4** The failure of a circuit breaker associated with a Special Protection System to operate when required following: the loss of any element without a Fault; or a permanent phase to ground Fault, with Normal Clearing, on any transmission circuit, transformer or bus section.
 - **1.1.5** A non-three phase Fault with Normal Clearing on common mode Contingency of two adjacent circuits on separate towers unless the event frequency is determined to be less than one in thirty years.
 - **1.1.6** A common mode outage of two generating units connected to the same switchyard, not otherwise addressed by FAC-011.
 - **1.1.7** The loss of multiple bus sections as a result of failure or delayed clearing of a bus tie or bus sectionalizing breaker to clear a permanent Phase to Ground Fault.
 - **1.2.** SOLs shall be established such that for multiple Facility Contingencies in E1.1.1 through E1.1.5 operation within the SOL shall provide system performance consistent with the following:
 - **1.2.1** All Facilities are operating within their applicable Post-Contingency thermal, frequency and voltage limits.
 - **1.2.2** Cascading Outages dodoes not occur.
 - **1.2.3** Uncontrolled separation of the system does not occur.
 - **1.2.4** The system demonstrates transient, dynamic and voltage stability.
 - **1.2.5** Depending on system design and expected system impacts, the controlled interruption of electric supply to customers (load shedding), the planned removal from service of certain generators, and/or the curtailment of

contracted firm (non-recallable reserved) electric power transfers may be necessary to maintain the overall security of the interconnected transmission systems.

- **1.2.6** Interruption of firm transfer, Load or system reconfiguration is permitted through manual or automatic control or protection actions.
- **1.2.7** To prepare for the next Contingency, system adjustments are permitted, including changes to generation, Load and the transmission system topology when determining limits.
- **1.3.** SOLs shall be established such that for multiple Facility Contingencies in E1.1.6 through E1.1.7 operation within the SOL shall provide system performance consistent with the following with respect to impacts on other systems:
 - **1.3.1** Cascading Outages dodoes not occur.
- **1.4.** The Western Interconnection may make changes (performance category adjustments) to the Contingencies required to be studied and/or the required responses to Contingencies for specific facilities based on actual system performance and robust design. Such changes will apply in determining SOLs.

Version	Date	Action	Change Tracking
1	November 1, 2006	Adopted by Board of Trustees	New
1	January 16, 2008	Changed the effective date to October 1, 2008	Effective Date
2	<u>June 23, 2008</u>	Changed "Cascading Outage" to "Cascading" Deleted example, "e.g. load greater than studied" in R2.3.2 and added an "a)" and "b)" for improved clarity in this subrequirement Replaced Levels of Non-compliance with Violation Severity Levels for the continent-wide portion of the standard Corrected footnote 1 to reference FAC- 011 rather than FAC-010 Changed "Cascading Outages do" to "Cascading does" in 1.2.2 and 1.3 of the Regional Variance	Revised

Version	History
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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.

None.

A. Introduction

- 1. Title: Establish and Communicate System Operating Limits
- **2.** Number: FAC-014-42
- **3. Purpose:** To ensure that System Operating Limits (SOLs) used in the reliable planning and operation of the Bulk Electric System (BES) are determined based on an established methodology or methodologies.

4. Applicability

- **4.1.** Reliability Coordinator
- **4.2.** Planning Authority
- **4.3.** Transmission Planner
- 4.4. Transmission Operator
- 5. Effective Date: January 1, 2009

B. Requirements

- **R1.** The Reliability Coordinator shall ensure that SOLs, including Interconnection Reliability Operating Limits (IROLs), for its Reliability Coordinator Area are established and that the SOLs (including Interconnection Reliability Operating Limits) are consistent with its SOL Methodology.
- **R2.** The Transmission Operator shall establish SOLs (as directed by its Reliability Coordinator) for its portion of the Reliability Coordinator Area that are consistent with its Reliability Coordinator's SOL Methodology.
- **R3.** The Planning Authority shall establish SOLs, including IROLs, for its Planning Authority Area that are consistent with its SOL Methodology.
- **R4.** The Transmission Planner shall establish SOLs, including IROLs, for its Transmission Planning Area that are consistent with its Planning Authority's SOL Methodology.
- **R5.** The Reliability Coordinator, Planning Authority and Transmission Planner shall each provide its SOLs and IROLs to those entities that have a reliability-related need for those limits and provide a written request that includes a schedule for delivery of those limits as follows:
 - **R5.1.** The Reliability Coordinator shall provide its SOLs (including the subset of SOLs that are IROLs) to adjacent Reliability Coordinators and Reliability Coordinators who indicate a reliability-related need for those limits, and to the Transmission Operators, Transmission Planners, Transmission Service Providers and Planning Authorities within its Reliability Coordinator Area. For each IROL, the Reliability Coordinator shall provide the following supporting information:
 - **R5.1.1.** Identification and status of the associated Facility (or group of Facilities) that is (are) critical to the derivation of the IROL.
 - **R5.1.2.** The value of the IROL and its associated T_v .

- **R5.1.3.** The associated Contingency(ies).
- **R5.1.4.** The type of limitation represented by the IROL (e.g., voltage collapse, angular stability).
- **R5.2.** The Transmission Operator shall provide any SOLs it developed to its Reliability Coordinator and to the Transmission Service Providers that share its portion of the Reliability Coordinator Area.
- **R5.3.** The Planning Authority shall provide its SOLs (including the subset of SOLs that are IROLs) to adjacent Planning Authorities, and to Transmission Planners, Transmission Service Providers, Transmission Operators and Reliability Coordinators that work within its Planning Authority Area.
- **R5.4.** The Transmission Planner shall provide its SOLs (including the subset of SOLs that are IROLs) to its Planning Authority, Reliability Coordinators, Transmission Operators, and Transmission Service Providers that work within its Transmission Planning Area and to adjacent Transmission Planners.
- **R6.** The Planning Authority shall identify the subset of multiple contingencies (if any), from Reliability Standard TPL-003 which result in stability limits.
 - **R6.1.** The Planning Authority shall provide this list of multiple contingencies and the associated stability limits to the Reliability Coordinators that monitor the facilities associated with these contingencies and limits.
 - **R6.2.** If the Planning Authority does not identify any stability-related multiple contingencies, the Planning Authority shall so notify the Reliability Coordinator.

C. Measures

- M1. The Reliability Coordinator, Planning Authority, Transmission Operator, and Transmission Planner shall each be able to demonstrate that it developed its SOLs (including the subset of SOLs that are IROLs) consistent with the applicable SOL Methodology in accordance with Requirements 1 through 4.
- M2. The Reliability Coordinator, Planning Authority, Transmission Operator, and Transmission Planner shall each have evidence that its SOLs (including the subset of SOLs that are IROLs) were supplied in accordance with schedules supplied by the requestors of such SOLs as specified in Requirement 5.
- **M3.** The Planning Authority shall have evidence it identified a list of multiple contingencies (if any) and their associated stability limits and provided the list and the limits to its Reliability Coordinators in accordance with Requirement 6.

D. Compliance

1. Compliance Monitoring Process

1.1. Compliance Monitoring Responsibility

Regional Reliability Organization

1.2. Compliance Monitoring Period and Reset Time Frame

The Reliability Coordinator, Planning Authority, Transmission Operator, and Transmission Planner shall each verify compliance through self-certification submitted to its Compliance Monitor annually. The Compliance Monitor may conduct a targeted audit once in each calendar year (January – December) and an investigation upon a complaint to assess performance.

The Performance-Reset Period shall be twelve months from the last finding of non-compliance.

1.3. Data Retention

The Reliability Coordinator, Planning Authority, Transmission Operator, and Transmission Planner shall each keep documentation for 12 months. In addition, entities found non-compliant shall keep information related to non-compliance until found compliant.

The Compliance Monitor shall keep the last audit and all subsequent compliance records.

1.4. Additional Compliance Information

The Reliability Coordinator, Planning Authority, Transmission Operator, and Transmission Planner shall each make the following available for inspection during a targeted audit by the Compliance Monitor or within 15 business days of a request as part of an investigation upon complaint:

- **1.4.1** SOL Methodology(ies)
- **1.4.2** SOLs, including the subset of SOLs that are IROLs and the IROLs supporting information
- **1.4.3** Evidence that SOLs were distributed
- **1.4.4** Evidence that a list of stability-related multiple contingencies and their associated limits were distributed
- **1.4.5** Distribution schedules provided by entities that requested SOLs

2.Levels of Non-Compliance

2.1.Level 1: Not applicable.

- 2.2.Level 2: Not all SOLs were provided in accordance with their respective schedules.
- 2.3.Level 3: SOLs provided were not developed consistent with the SOL Methodology.
- **2.4.Level 4:** There shall be a level four non-compliance if either of the following conditions exist:
 - 2.4.1No SOLs were provided in accordance with their respective schedules.
 - **2.4.2**No evidence the Planning Authority delivered a set of stability-related multiple contingencies and their associated limits to Reliability Coordinators in accordance with R6.

2. <u>Violation Severity Levels:</u>

<u>Requirement</u>	Lower	Moderate	High	<u>Severe</u>
<u>R1</u>	There are SOLs, for the Reliability Coordinator Area, but from 1% up to but less than 25% of these SOLs are inconsistent with the Reliability Coordinator's SOL Methodology. (R1)	There are SOLs, for the Reliability Coordinator Area, but 25% or more, but less than 50% of these SOLs are inconsistent with the Reliability Coordinator's SOL Methodology. (R1)	There are SOLs, for the Reliability Coordinator Area, but 50% or more, but less than 75% of these SOLs are inconsistent with the Reliability Coordinator's SOL Methodology. (R1)	There are SOLs for the Reliability Coordinator Area, but 75% or more of these SOLs are inconsistent with the Reliability Coordinator's SOL Methodology. (R1)
<u>R2</u>	The Transmission Operator has established SOLs for its portion of the Reliability Coordinator Area, but from 1% up to but less than 25% of these SOLs are inconsistent with the Reliability Coordinator's SOL Methodology. (R2)	The Transmission Operator has established SOLs for its portion of the Reliability Coordinator Area, but 25% or more, but less than 50% of these SOLs are inconsistent with the Reliability Coordinator's SOL Methodology. (R2)	The Transmission Operator has established SOLs for its portion of the Reliability Coordinator Area, but 50% or more, but less than 75% of these SOLs are inconsistent with the Reliability Coordinator's SOL Methodology. (R2)	The Transmission Operator has established SOLs for its portion of the Reliability Coordinator Area, but 75% or more of these SOLs are inconsistent with the Reliability Coordinator's SOL Methodology. (R2)
<u>R3</u>	There are SOLs, for the <u>Planning Coordinator</u> <u>Area, but from 1% up to,</u> <u>but less than, 25% of these</u> <u>SOLs are inconsistent with</u> <u>the Planning Coordinator's</u> <u>SOL Methodology. (R3)</u>	There are SOLs, for the Planning Coordinator Area, but 25% or more, but less than 50% of these SOLs are inconsistent with the Planning Coordinator's SOL Methodology. (R3)	<u>There are SOLs for the</u> <u>Planning Coordinator</u> <u>Area, but 50% or more, but</u> <u>less than 75% of these</u> <u>SOLs are inconsistent with</u> <u>the Planning Coordinator's</u> <u>SOL Methodology. (R3)</u>	<u>There are SOLs, for the</u> <u>Planning Coordinator</u> <u>Area, but 75% or more of</u> <u>these SOLs are</u> <u>inconsistent with the</u> <u>Planning Coordinator's</u> <u>SOL Methodology. (R3)</u>
<u>R4</u>	<u>The Transmission Planner</u> <u>has established SOLs for</u> <u>its portion of the Planning</u> <u>Coordinator Area, but up</u>	<u>The Transmission Planner</u> <u>has established SOLs for</u> <u>its portion of the Planning</u> <u>Coordinator Area, but 25%</u>	<u>The Transmission Planner</u> <u>has established SOLs for</u> <u>its portion of the</u> <u>Reliability Coordinator</u>	The Transmission Planner has established SOLs for its portion of the Planning Coordinator Area, but 75%

Requirement	Lower	<u>Moderate</u>	High	Severe
	to 25% of these SOLs are inconsistent with the Planning Coordinator's SOL Methodology. (R4)	or more, but less than 50% of these SOLs are inconsistent with the Planning Coordinator's SOL Methodology. (R4)	Area, but 50% or more, but less than 75% of these SOLs are inconsistent with the Planning Coordinator's SOL Methodology. (R4)	or more of these SOLs are inconsistent with the Planning Coordinator's SOL Methodology. (R4)
<u>R5</u>	The responsible entity provided its SOLs (including the subset of SOLs that are IROLs) to all the requesting entities but missed meeting one or more of the schedules by less than 15 calendar days. (R5)	One of the following:The responsible entity provided its SOLs(including the subset of SOLs that are IROLs) to all but one of the requesting entities within the schedules provided. (R5)OrThe responsible entity provided its SOLs to all the requesting entities but missed meeting one or more of the schedules for 15 or more but less than 30 calendar days. (R5)ORThe supporting information provided with the IROLs does not address 5.1.4	One of the following: The responsible entity provided its SOLs (including the subset of SOLs that are IROLs) to all but two of the requesting entities within the schedules provided. (R5) Or The responsible entity provided its SOLs to all the requesting entities but missed meeting one or more of the schedules for 30 or more but less than 45 calendar days. (R5) OR The supporting information provided with the IROLs does not address 5.1.3	One of the following: The responsible entity failed to provide its SOLs (including the subset of SOLs that are IROLs) to more than two of the requesting entities within 45 calendar days of the associated schedules. (R5) OR The supporting information provided with the IROLs does not address 5.1.1 and 5.1.2.

<u>R6</u>	The Planning Authority	Not applicable.	The Planning Authority	The Planning Authority did
	failed to notify the		identified the subset of	not identify the subset of
	Reliability Coordinator in		multiple contingencies	multiple contingencies
	accordance with R6.2		which result in stability	which result in stability
			limits but did not provide	limits. (R6)
			the list of multiple	
			contingencies and	OR
			associated limits to one	The Planning Authority
			Reliability Coordinator	identified the subset of
			that monitors the Facilities	multiple contingencies
			associated with these	which result in stability
			limits. (R6.1)	limits but did not provide
				the list of multiple
				contingencies and
				associated limits to more
				than one Reliability
				Coordinator that monitors
				the Facilities associated
				with these limits. (R6.1)
L				

E. Regional Differences

None identified.

Version History

Version	Date	Action	Change Tracking
1	November 1, 2006	Adopted by Board of Trustees	New
1	January 16, 2008	Changed Effective Date to January 1, 2009	Effective Date
1	March 12, 2008	Fixed typo in Effective Date from "January 1, 2008" to "January 1, 2009."	Errata
2	June 23, 2008	Replaced Levels of Non-compliance with Violation Severity Levels	Revision