

March 31, 2017

Ms. Kimberly D. Bose  
Secretary  
Federal Energy Regulatory Commission  
888 First Street, NE  
Washington, D.C. 20426

Re: NERC Standards Report, Status and Timetable for Addressing Regulatory Directives, and  
Periodic Review of Reliability Standards  
Docket No. RR09-6-003

Dear Secretary Bose:

The North American Electric Reliability Corporation (“NERC”) hereby submits the 2017 NERC Standards Report, Status and Timetable for Addressing Regulatory Directives (the “Directives Report”) in accordance with Section 321.6 of the NERC Rules of Procedure (“ROP”).<sup>1</sup> This annual report summarizes the progress made, and plans for addressing the Reliability Standards-related directives issued by applicable governmental authorities.

## 1. Report on Regulatory Directives

Section 321.6 of NERC’s ROP requires NERC, on or before March 31 of each year, to file a report with applicable governmental authorities on the status and timetable for addressing each outstanding regulatory directive. Attached hereto is the Directives Report for 2017. As discussed in the Directives Report, since the Commission-certified NERC as the Electric Reliability Organization, the Commission has issued 81 orders that contain 832 directives related to NERC Reliability Standards. As of March 2017, NERC has addressed 798 or 95.9% of the 832 directives and continues to make substantial progress in addressing the remaining 30 directives. Since the 2016 Directives Report, the Commission has issued five orders containing 13 directives. In the past year, NERC has also filed petitions with the Commission addressing 23 outstanding directives. The 2017-2019 Reliability Standards Development Plan (“RSDP”) provides a plan to address the remainder of the standards-related directives.

NERC’s annual RSDP establishes priorities related to Reliability Standards to help ensure that those issues that most directly impact Bulk-Power System reliability are addressed first. Directives to create new or modify existing Reliability Standards are assigned to existing or future development projects that are

<sup>1</sup> The Federal Energy Regulatory Commission (“FERC” or “Commission”) approved Rule 321 on March 17, 2011 in the above captioned docket. *Order on Compliance Filing*, 134 FERC ¶ 61,216 (2011).

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prioritized by the NERC Standards Committee and reflected in the RSDP. The 2017-2019 RSDP was filed with the Commission on December 16, 2016.<sup>2</sup>

The attached Directives Report includes the following appendices to aid in understanding the specific regulatory directives received to date and the standard development projects assigned to address those directives:

- Appendix A – Regulatory Orders Containing Directives
- Appendix B – Directives Listed by Commission Order
- Appendix C – Remaining Directives to be Addressed

Please contact me if you have questions or need additional information.

Respectfully submitted,

/s/ Shamai Elstein

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<sup>2</sup> NERC's 2017-2019 RSDP is accessible at the following link:  
[http://www.nerc.com/FilingsOrders/us/NERC%20Filings%20to%20FERC%20DL/2017-2019%20RSDP%20FERC\\_Filing.pdf](http://www.nerc.com/FilingsOrders/us/NERC%20Filings%20to%20FERC%20DL/2017-2019%20RSDP%20FERC_Filing.pdf).

**NERC**

NORTH AMERICAN ELECTRIC  
RELIABILITY CORPORATION

# NERC Standards Report

Status and Timetable for Processing Regulatory  
Directives

March 31, 2017

**RELIABILITY | ACCOUNTABILITY**



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## Chapter 1 – Introduction

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North American Electric Reliability Corporation (“NERC”) Reliability Standards consist of performance-, risk-, and competency-based mandatory reliability requirements that collectively provide a defense-in-depth structure for planning, operating, and protecting the reliability of the North American Bulk-Power System (BPS). NERC Reliability Standards hold all users, owners, and operators of the BPS accountable for meeting specific reliability-related requirements and are an essential tool in helping to ensure that the North American BPS is operated, maintained, and protected in a manner that supports all other services essential to health, safety, and financial security.

NERC Reliability Standards are developed pursuant to the NERC Standards Process Manual, which is incorporated into the NERC Rules of Procedure (“ROP”). NERC staff works with the NERC Standards Committee, industry experts, and applicable regulatory and governmental authorities in the United States and Canada to create or modify Reliability Standards. Under Section 215 of the Federal Power Act (“FPA”), the Federal Energy Regulatory Commission (“FERC” or the “Commission”) may direct NERC to develop new or modify existing Reliability Standards.

Section 215(d)(5) of the FPA states that “the Commission, upon its own motion or upon complaint, may order the Electric Reliability Organization to submit to the Commission a proposed reliability standard or a modification to a reliability standard that addresses a specific matter if the Commission considers such a new or modified reliability standard appropriate to carry out this section.”

Section 321.6 of NERC’s ROP requires NERC to file a report with applicable governmental authorities on the status and timetable for addressing each outstanding regulatory directive. This annual report is submitted in fulfillment of this ROP requirement.

### Executive Summary

Since the Commission certified NERC as the Electric Reliability Organization (“ERO”) for the United States in 2006, the Commission has issued 81 orders containing 832 directives related to NERC Reliability Standards. This report provides the status of each directive and updates the March 31, 2016 report to include directives addressed from April 1, 2016 through March 31, 2017. This report includes FERC directives pertaining to information or data collection (non-standards related directives). Historically these directives were tracked along with directives related to Reliability Standards, but were not reported in the annual report. Since April 1, 2016, the Commission has issued five orders that contain 13 directives.<sup>1</sup>

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<sup>1</sup> The three orders are:

1. *Revised Critical Infrastructure Protection Reliability Standards*, Order No. 829, 156 FERC ¶ 61,050 (2016). This order contains 1 directive.
2. *Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Events*, Order No. 830, 156 FERC ¶ 61,215 (2016). This order contains 6 directives.
3. *Order Approving Reliability Standards*, 156 FERC ¶ 61,207 (2016). This order contains 1 directive.
4. *Availability of Certain North American Electric Reliability Corporation Databases to the Commission*, Order No. 824, 155 FERC ¶ 61,275 (2016). This order contains 1 directive.

Of the 832 directives that FERC has issued since NERC was certified as the ERO, 32 relate to Regional Reliability Standards, 53 were considered “not standards related”, and 41 were withdrawn in FERC Order No. 788.<sup>2</sup> The majority of standards-related directives (435) were issued in eight orders in 2007. There were 123 directives issued in 2008, 62 issued in 2009, 67 issued in 2010, 32 issued in 2011, 18 issued in 2012, 42 issued in 2013, 10 issued in 2014, 26 directives issued in 2015, and 17 directives in 2016. As of the date of filing, FERC has issued four directives in 2017.

Further, of the 832 total directives, NERC has addressed 798 directives or 95.9% and continues to make substantial progress in addressing the remaining 30 directives (see Appendix C). There are 16 outstanding directives being addressed in current projects, 3 relating to Regional Reliability Standards, and 7 are non-standards related (data gathering, registration, or research related).

Since the 2016 report, NERC filed petitions with the Commission addressing 23 outstanding directives.

## Background

This is the eighth annual directives report submitted to the Commission. Each year, NERC strives to improve the directives report based on increased communication with the Commission, within NERC, and with industry stakeholders.

NERC processes directives in a manner consistent with its ROP, including Appendix 3A (the Standard Processes Manual). Specifically, when the Commission issues any order or rule, NERC staff reviews the order/rule to, among other things, identify any directives within the order/rule related to standards development. Any such directives are assigned a unique, five digit reference number. These directives are then verified for accuracy with FERC staff and tracked through completion.

Once a standard has been adopted by the NERC Board and filed with the applicable regulatory authorities, the status of all the directives associated with that project are marked “filed” in NERC’s records, which are provided to FERC staff. If, after filing for regulatory approval, a regulatory authority declares that a directive has not been adequately resolved, a new directive is identified.

It is the responsibility of NERC and the standard drafting teams to work with industry stakeholders to respond to the Commission directives, either by addressing the directive as issued or providing an equally efficient and effective solution supported by a technical justification. Since 2013, NERC and FERC increased FERC staff’s participation in the standards development process, particularly at the early stages of the process, allowing the drafting team to consider FERC staff’s feedback in a productive and timely manner.

Also in early 2013, NERC set a goal to complete the 191 directives relating to standards that had not been addressed and continue to address any new directives. The plan for completing directives through standards development projects is set forth in the Reliability Standards Development Plan

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5. *Disturbance Control Standard—Contingency Reserve for Recovery from a Balancing Contingency Event Reliability Standard*, Order No. 835, 158 FERC ¶ 61,030 (2017). This order contains 4 directives.

<sup>2</sup> *Electric Reliability Organization Proposal to Retire Requirements in Reliability Standards*, Order No. 788, 145 FERC ¶ 61,147 (2013).

(RSDP), which is adopted by the NERC Board of Trustees and filed with FERC. The annual RSDP provides a plan to address the remainder of the standards-related directives by the end of 2017, with the exception of one directives that cannot be addressed through a standards development project.<sup>3</sup>

NERC also reports its progress in addressing these directives to the NERC Standards Oversight and Technology Committee on a quarterly basis. These reports are also available to FERC staff, and NERC staff continues to meet with FERC staff to achieve a consensus on the number of outstanding directives.

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<sup>3</sup> The one directive is open-ended: See Appendix B, S-Ref 10917.

## Chapter 2 – Status of Directives

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### Directives Issued by the Commission

On July 20, 2006, the Commission issued an order certifying NERC as the ERO in accordance with Section 215 of the FPA. Following approval by the Commission, NERC’s initial set of Reliability Standards became mandatory and enforceable within the United States on June 18, 2007. Since January 1, 2007, the Commission has issued orders containing 832 directives related to NERC Reliability Standards. NERC has addressed 798 directives in its standards development process, leaving 30 to be resolved.

Appendix A to this report contains a chronological list of Commission orders that contain standards-related directives. Appendix B contains a complete list of the directives associated with each of the Commission orders identified in Appendix A.

Tabulated by year of issuance, the number of directives issued and addressed since 2007 is provided in Table 1:

Table 1: Directives by Year		
Year	Issued	Addressed
2007	435	40
2008	123	99
2009	62	102
2010	67	49
2011	32	121
2012	18	31 <sup>4</sup>
2013	42	143
2014	10	104
2015	26	80
2016	13	23
2017 (through March 31, 2017)	4	6
<b>Total</b>	<b>832</b>	<b>798</b>

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<sup>4</sup> One directive that was previously indicated as being resolved in 2012 was withdrawn by FERC Order 788 and, in turn, was moved to 2013.



## Chapter 3 – Timeline for Processing Outstanding Directives

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One of NERC’s core responsibilities is to ensure the reliability of the Bulk-Power System by developing effective Reliability Standards that are clear, consistent, and technically sound. All Bulk-Power System owners, operators, and users must comply with these standards, which define the requirements for planning, operating, and protecting the North American electrical grid so that widespread cascading outages, uncontrolled separations, and blackouts do not occur. The success of NERC standards development depends on active participation from the industry on drafting teams, during comment periods and in ballot pools. It is the users, owners and operators of the Bulk-Power System who both develop NERC’s mandatory Reliability Standards and implement them to ensure reliability.

NERC’s RSDP for 2017-2019 outlines a path for the ERO to fulfill its obligations to address standards-related regulatory directives. The ERO and industry developed the [Enhanced Periodic Review Template](#)<sup>5</sup> in 2015 with the intention of continuing to review the Reliability Standards for quality and content.

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<sup>5</sup> Submitted to the NERC Board of Trustees for information in November 2014, along with the 2015-2017 RSDP.

## Chapter 4 – Conclusion

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NERC is continuing to work closely with industry stakeholders and FERC to resolve all outstanding directives. Completing the majority of this work has provided the opportunity for industry to strategically review the standards for content, including alignment with the risks to the Bulk-Power System; quality; and alignment with compliance expectations.

## Appendix A – Regulatory Orders Containing Directives

### Regulatory Orders by Year

NERC continues to collaborate with FERC on identifying the number of directives contained in each Commission Order. The table below lists each order, the date the order was issued, and the amount of the directives from the order that were addressed each year.

Table 2: Regulatory Orders Containing Standards-Related Directives			
Order	Date Issued	Number of Directives	Directives Addressed (year/addressed)
<a href="#">Order on Compliance Filing (Issued 1/18/07)</a> <i>Docket No. RR06-1-003</i>	01.18.2007	16	2007 - 14 2009 - 2
<a href="#">Preventing Undue Discrimination and Preference in Transmission Service</a> <i>Docket Nos. RM05-17-000 and RM05-25-000; Order No. 890</i>	02.16.2007	29	2008 - 28 2014 - 1
<a href="#">Mandatory Reliability Standards for the Bulk-Power System</a>  <i>Docket No. RM06-16-000; Order No. 693</i>	03.16.2007	344	2006 - 1 2007 - 4 2008 - 53 2009 - 19 2010 - 12 2011 - 63 2012 - 13 2013 - 49 2014 - 65 2015 - 39 2016 - 4 Not addressed - 22
<a href="#">Order on Violation Risk Factors (Issued 5/18/07)</a> <i>Docket Nos. RR07-9-000, RR07-10-000</i>	05.18.2007	5	2007 - 5
<a href="#">Order on Compliance Filing Regarding NERC Rules of Procedure Order on Compliance Filing</a> <i>Docket No. RR06-1-007</i>	06.07.2007	3	2007 - 2 2008 - 1
<a href="#">Order Approving Regional Reliability Standards for the Western Interconnection and Directing Modifications</a> <i>Docket No. RR07-11-000</i>	06.08.2007	14	2007 - 2 2009 - 2
<a href="#">Order on Compliance Filing (Issued 11/16/07)</a> Order on Compliance Filing pursuant to the Commission's May 2007 Order on Violation Risk Factors. <i>Docket Nos. RR07-9-003 and RR07-10-003</i>	11.16.2007	12	2007 - 12

<p><a href="#">Facilities Design, Connections and Maintenance Reliability Standards (Issued 12/27/07)</a></p> <p>Order on approving the Facilities Design, Connections and Maintenance Reliability Standards which are the planning and operating reliability standards. <i>Docket No. RM07-3-000; Order No. 705</i></p>	12.27.2007	12	2008 - 11 2013 - 1
<p><a href="#">Mandatory Reliability Standards for Critical Infrastructure Protection (Issued 1/18/08)</a></p> <p>Order approving the eight Critical Infrastructure Protection (CIP) Reliability Standards submitted by NERC on August 28, 2006. <i>Docket Nos. RM06-22-000; Order No. 706</i></p>	01.18.2008	103	2009 - 36 2011 - 4 2013 - 62 2015 - 1
<p><a href="#">Order 706-A - Order Denying Rehearing and Granting Clarification</a></p> <p>The Commission issues a final rule approving eight Critical Infrastructure Protection (CIP) Standards. <i>Docket No. RM06-22-001; Order No. 706-A</i></p>	05.16.2008	2	2011 - 2
<p><a href="#">Order on Violation Severity Levels Proposed by the Electric Reliability Organization</a></p> <p>The Commission approves the VSL assignments filed by NERC for the 83 Commission-approved Reliability Standards. The Commission also directs NERC to file modifications to VSLs relevant to five Reliability Standards. <i>Docket No. RR08-4-000</i></p>	06.19.2008	4	2008 - 3 2011 - 1
<p><a href="#">Order No. 713 - Modification of INT and TLR Standards; and ERO Interpretation of Requirements of Four Standards</a></p> <p>The Commission approves five of six modified Reliability Standards submitted by NERC that pertain to interchange scheduling and coordination. The Commission directs NERC to submit a filing that provides an explanation regarding one aspect of the TLR procedure. <i>Docket No. RM08-7-000; Order No. 713</i></p>	07.21.2008	3	2008 - 3
<p><a href="#">Order No. 716 - NUC Standard</a></p> <p>Commission approves the Nuclear Plant Interface Coordination Reliability Standard NERC submitted for approval on November 19, 2007 and supplemented on December 11, 2007. <i>Docket No. RM08-3-000; Order No. 716</i></p>	10.16.2008	9	2009 - 9
<p><a href="#">Order on Rehearing and Clarification and Accepting Compliance Filing in response to VSL Order</a></p>	11.20.2008	2	2010 - 2

<p>The Commission grants in part and denies in part rehearing and clarification of the VSL Order. The Commission accepts NERC's July 21, 2008 Compliance Filing revising certain VSLs submitted pursuant to the VSL Order. The Commission directs NERC to submit a further compliance filing that makes specific revisions. <i>Docket Nos. RR08-4-001 and RR08-4-002</i></p>			
<p><a href="#">Order on CIP VRFs Compliance Filing</a></p> <p>The Commission issued an Order approving 12 revised VRFs and approving 9 new VRFs. In addition, the Commission requires revisions to four of the new VRFs. <i>Docket Nos. RM06-22-002 and RM06-22-003</i></p>	01.27.2009	1	2009 – 1
<p><a href="#">Mandatory Reliability Standards for Critical Infrastructure Protection</a></p> <p><i>Docket No. RM06-22-000; Order No. 706-B</i></p>	03.19.2009	1	2009 - 1
<p><a href="#">Modification of Interchange and TLR Reliability Standards</a></p> <p>ERO Interpretation of Specific Requirements of Four Reliability Standards</p> <p><i>Docket Nos. RM08-7-000 and RM08-7-001; Order No. 713-A</i></p>	03.19.2009	2	2011 – 2
<p><a href="#">Version Two Facilities Design, Connections and Maintenance Reliability Standards</a></p> <p><i>Docket No. RM08-11-000; Order No. 722</i></p>	03.20.2009	16	2009 - 11 2010 - 1 2011 - 4
<p><a href="#">Order No. 723 Approving WECC Regional Reliability Standard BAL-004-WECC-01</a></p> <p>The Commission approved the regional Reliability Standard BAL-004-WECC-01 (Automatic Time Error Correction) and directed WECC to develop several modifications to the regional Reliability Standard. <i>Docket No. RM08-12-000; Order No. 723.</i></p>	05.21.2009	5	2009 - 2 2012 - 1 2013 - 2
<p><a href="#">ERO Interpretations of Specific Requirements of BAL-003-0 and VAR- 001-1 Reliability Standards</a></p> <p>The Commission approves the Interpretation of BAL-003-0 R2 and R5. The Commission remands to the ERO the proposed interpretation of VAR-001-1, Requirement R4 and directs the ERO to revise the interpretation. <i>Docket No. RM08-16-000</i></p>	05.21.2009	1	2014 – 1
<p><a href="#">Order Approving Version 2 of CIP Cyber Security Standards</a></p> <p>FERC approves the revised Version 2 CIP Reliability Standards to become effective on April 1, 2010. <i>Docket No. RD09-7-000</i></p>	09.30.2009	9	2009 – 9

<p><a href="#">Order 729 - Mandatory Reliability Standards for the Calc. of ATC, CBM, TRM, TTC and Existing Transmission Commitments for the BPS</a></p> <p>The Commission approves six Modeling, Data, and Analysis Reliability Standards submitted to the Commission for approval by the NERC. <i>Docket Nos. RM08-19-000, RM08-19-001, RM09-5-000, RM06-16-005</i></p>	<p>11.24.2009</p>	<p>22</p>	<p>2010 - 1 2011 - 1 2013 - 7 2014 - 14</p>
<p><a href="#">Order Addressing NERC's CIP Implementation Plan and Requiring Compliance Filing</a></p> <p>FERC issues an order addressing NERC's CIP Implementation Plan. <i>Docket No. RM06-22-010</i></p>	<p>12.17.2009</p>	<p>5</p>	<p>2010 – 5</p>
<p><a href="#">Order Approving TFE Procedures Amendment to NERC's ROP</a></p> <p>FERC approves NERC's petition to amend NERC's ROP, specifically by adding the Technical Feasibility Exceptions (TFE) to NERC CIP standards and direct NERC to submit a compliance filing. <i>Docket No. RR10-1-000</i></p>	<p>01.21.2010</p>	<p>12</p>	<p>2010 - 10 2011 - 1 2012 - 1</p>
<p><a href="#">Order 733 - PRC-023-1</a></p> <p>The Commission issued a Final Order approving Reliability Standard PRC-023-1. <i>Docket No. RM08-13-000</i></p>	<p>03.18.2010</p>	<p>31</p>	<p>2010 - 8 2011 - 19 2013 - 1 2014 - 3</p>
<p><a href="#">Order Setting Deadline for Compliance Regarding BAL-003-0</a></p> <p>The Commission directs NERC to submit a modification to BAL-003-0 that is responsive to the Commission's Directive in Order No. 693 within six months from the date of issuance of this order. <i>Docket No. RM06-16-010</i></p>	<p>03.18.2010</p>	<p>1</p>	<p>2010 - 1</p>
<p><a href="#">Order Addressing Compliance Filing and Approving Implementation Plan</a></p> <p>FERC accepts NERC's compliance filing and approves the Implementation Plan for nuclear power plant generator owners' and operators' compliance with Version 1 of the CIP Standards to become effective on the date of this order. <i>Docket No. RM06-22-011</i></p>	<p>03.18.2010</p>	<p>2</p>	<p>2010 – 2</p>
<p><a href="#">Order Addressing VSL Assignments to CIP Standards</a></p> <p>The Commission approves the proposed VSL assignments and establishes additional guidance for determining appropriate VSLs in the specific context of cyber security Requirements. <i>Docket No. RM06-22-008</i></p>	<p>03.18.2010</p>	<p>5</p>	<p>2010 – 5</p>

<p><a href="#">Order Directing NERC to Propose Modification of Electric Reliability Organization Rules of Procedure</a></p> <p>FERC directs NERC to submit a filing containing specific proposed modifications to the NERC Standards Development Process within 90 days of this Order and to fully comply with FERC's previous Directive to develop modifications to Reliability Standard FAC-008-1. <i>Docket No. RR09-6-000</i></p>	03.18.2010	2	2010 - 1 2011 - 1
<p><a href="#">Order Setting Deadline for Compliance Regarding TPL-002-0</a></p> <p>FERC issues an Order setting a deadline of June 30, 2010 for NERC's compliance with Order 693 to modify Reliability Standard TPL-002-0. <i>Docket No. RM06-16-009</i></p>	03.18.2010	1	2011 – 1
<p><a href="#">Order Granting Rehearing for Further Consideration and Scheduling Technical Conference</a></p> <p>The Commission grants rehearing for the limited purpose of further consideration, and timely-filed requests for rehearing will not be deemed denied by operation of law and directs Commission staff to convene a technical conference. <i>Docket No. RM06-16-011</i></p>	05.13.2010	1	2010 – 1
<p><a href="#">Order on NERC Three-Year Performance Assessment</a></p> <p>FERC accepts the performance assessment of NERC as the ERO, and the Regional Entities, and finds that they continue to satisfy the statutory and regulatory criteria for certification. In addition, FERC directs NERC to submit informational filing addressing specific matters/concerns and take additional action as discussed in this order. <i>Docket Nos. RR09-7-000, AD10-14-000</i></p>	09.16.2010	2	2011 – 2
<p><a href="#">Order No. 742 - Final Rule on System Personnel Reliability Standards</a></p> <p>The Commission issues a final rule approving two Personnel Performance, Training and Qualifications (PER) Reliability Standards, PER-004-2 (Reliability Coordination–Staffing) and PER-005-1 (System Personnel Training). <i>Docket No. RM09-25-000; Order No. 742</i></p>	11.18.2010	4	2012 - 1 2014 - 3
<p><a href="#">Order No. 743 - Final Rule on Revision to the ERO Definition of Bulk Electric System</a></p> <p>FERC issues a final rule in which it adopts, with modifications, the proposal outlined in its March 18, 2010 Notice of Proposed Rulemaking to require the ERO to revise its definition of the term "bulk electric system." <i>Docket No. RM09-18-000; Order No. 743</i></p>	11.18.2010	5	2012 – 5

<p><a href="#">Letter Order Approving VSL for Version Two Facilities Design, Connection, and Maintenance Reliability Standards</a></p> <p>FERC issues an order approving the violation severity levels assigned to FAC-014-2 Requirements R1, R3, and R4 and orders a compliance filing to be made by January 6, 2010 with typographical corrections to violation severity levels for R2. <i>Docket Nos. RM08-11-002, RM08-11-003</i></p>	12.07.2010	1	2011 – 1
<p><a href="#">Order Approving Revisions to Two Reliability Standards and Directing a Compliance Filing</a></p> <p>FERC issues an Order Approving Revisions to Two Reliability Standards and Directing a Compliance Filing concerning INT-003-3 and BAL-006-2. <i>Docket No. RD10-04-000</i></p>	01.06.2011	1	2011 – 1
<p><a href="#">Order on VRFs and VLS for CIP Standards</a></p> <p>FERC issues an order in which it approves the proposed Version 2 and Version 3 VRFs and VSLs, subject to modifications discussed in the order. <i>Docket Nos. RD10-6-000 and RD09-7-002</i></p>	01.20.2011	9	2011 – 9
<p><a href="#">Order No. 749 - Final Rule Approving Three System Restoration Reliability Standards EOP-001-1, EOP-005-2, EOP-006-2, and Definition</a></p> <p>FERC issues an order approving EOP-001-1 (Emergency Operations Planning), EOP-005-2 (System Restoration from Blackstart Resources), and EOP-006-2 (System Restoration Coordination) as well as the definition of the term “Blackstart Resource” submitted to the Commission for approval. <i>Docket No. RM10-16-000</i></p>	03.17.2011	2	2014 - 1 2017 - 1
<p><a href="#">Order No. 747 - Final Rule Approving Planning Resource Adequacy Assessment Standard BAL-502-RFC-02</a></p> <p>FERC approves regional Reliability Standard, BAL-502-RFC-02 (Planning Resource Adequacy Analysis, Assessment and Documentation), developed by RFC. The Commission also approves four regional reliability definitions related to the approved regional Reliability Standard and the violation risk factors and violation severity levels assigned to the BAL-502-RFC-02 Requirements. <i>Docket No. RM10-10-000; Order No. 747</i></p>	03.17.2011	2	Not addressed - 2
<p><a href="#">Order No. 748 - Final Rule Approving Interconnection Reliability Operating Limits Standards</a></p>	03.17.2011	2	2015 – 2



<p>The Commission issues a final rule approving NERC’s proposed IRO-008-1, IRO-009-1, and IRO-010-1a and proposed revisions to Reliability Standards EOP-001-1, IRO-002-2, IRO-004-2, IRO-005-3, TOP- 003-1, TOP-005-2, and TOP-006-2, which remove requirements for the reliability coordinator to monitor and analyze system operating limits (SOL) other than IROs. <i>Docket No. RM10-15-000; Order No. 748</i></p>			
<p><a href="#"><u>Order No. 751 - Final Rule on Version One Regional Reliability Standards for Facilities Design, Connections, and Maintenance; Protection and Control; and Voltage and Reactive</u></a></p> <p>FERC issues a final rule in which it approves four revised regional Reliability Standards developed by the WECC and approved by NERC. These regional Reliability Standards have been designated by the Western Electricity Coordinating Council as FAC-501-WECC-1–Transmission Maintenance, PRC-004-WECC-1–Protection System and Remedial Action Scheme Misoperation, VAR-002-WECC-1–Automatic Voltage Regulators, and VAR-501-WECC-1–Power System Stabilizer. <i>Docket No. RM09-9-000; Order No. 751</i></p>	04.21.2011	7	2011 - 4 2013 - 2 Not addressed - 1
<p><a href="#"><u>Order No. 752 - Final Rule on TOP-007-WECC-1</u></a></p> <p>FERC issues a final rule in which it approves regional Reliability Standard TOP-007-WECC-1 (System Operating Limits) developed by WECC and submitted to the Commission for approval by NERC. The Commission also approves the retirement of WECC regional Reliability Standard TOP-STD-007-0, which is replaced by the regional Reliability Standard approved in this final rule. <i>Docket No. RM09-14-000; Order No. 752.</i></p>	04.21.2011	4	2011 - 4
<p><a href="#"><u>Order No. 754 - Order Approving Interpretation of TPL-002-0 Requirement R1.3.10</u></a></p> <p>FERC issues an order in which it approves an interpretation of Reliability Standard TPL-002-0 Requirement R1.3.10. <i>Docket No. RM10-6-000; Order No. 754</i></p>	09.15.2011	1	2012 - 1
<p><a href="#"><u>Order Approving Reliability Standard FAC-008-3</u></a></p> <p>FERC issues an order approving Reliability Standard FAC-008-3 (Facility Ratings), the associated VRFs and VSLs, and retirement of Reliability Standards FAC-008-1 (Facility Ratings Methodology) and FAC-009-1 (Establish and Communicate Facility Ratings). <i>Docket No. RD11-10-000</i></p>	11.17.2011	1	2012 - 1
<p><a href="#"><u>Order Approving Reliability Standard FAC-013-2</u></a></p>	11.17.2011	3	2012 - 3

<p>FERC issues an Order Approving Reliability Standard FAC-013-2—Assessment of Transfer Capability for the Near-term Transmission Planning Horizon that NERC filed for approval on January 28, 2011. <i>Docket No. RD11-3-000</i></p>			
<p><a href="#"><u>Order No. 758 - Order Approving Interpretation of Protection System Reliability Standard PRC-005-1</u></a></p> <p>FERC issues a final rule in which it approves an interpretation to Requirement R1 of Commission-approved Reliability Standard PRC-005-1. FERC also directs NERC to develop modifications to the PRC-005-1 Reliability Standard through its Reliability Standards development process to address gaps in the Protection System maintenance and testing standard that were highlighted by the proposed interpretation. <i>Docket No. RM10-5-000; Order No. 758</i></p>	<p>02.03.2012</p>	<p>2</p>	<p>2012 - 1 2014 - 1</p>
<p><a href="#"><u>Order No. 759 - Order Approving Transmission Relay Loadability Reliability Standard</u></a></p> <p>FERC issues a final rule in which it approves Reliability Standard PRC-023-2 (Transmission Relay Loadability) submitted by the North American Electric Reliability Corporation (NERC), the Electric Reliability Organization certified by the Commission. The Reliability Standard requires transmission owners, generation owners, and distribution providers to set load-responsive phase protective relays according to specific criteria to ensure that the relays reliably detect - and protect the electric network from - fault conditions, but do not limit reliability. <i>Docket No. RM11-16-000; Order No. 759</i></p>	<p>03.15.2012</p>	<p>1</p>	<p>2013 - 1</p>
<p><a href="#"><u>Order No. 761 - Order Approving Version 4 Critical Infrastructure Protection Reliability Standards</u></a></p> <p>FERC issues a final rule in which it approves eight modified Critical Infrastructure Protection (CIP) Reliability Standards, CIP-002-4 through CIP-009-4, developed and submitted to the Commission for approval by the North American Electric Reliability Corporation (NERC), the Electric Reliability Organization certified by the Commission. The CIP Reliability Standards provide a cybersecurity framework for the identification and protection of “Critical Cyber Assets” to support the reliable operation of the Bulk-Power System. <i>Docket No. RM11-11-000; Order No. 761</i></p>	<p>04.19.2012</p>	<p>2</p>	<p>2012 - 1 2013 - 1</p>
<p><a href="#"><u>Order No. 762 - Transmission Planning Reliability Standards</u></a></p>	<p>04.19.2012</p>	<p>3</p>	<p>2012 - 1 2013 - 2</p>

<p>FERC issues a final rule in which it remands proposed Transmission Planning (TPL) Reliability Standard TPL-002-0b, submitted by the North American Electric Reliability Corporation (NERC), the Commission-certified Electric Reliability Organization. The proposed Reliability Standard includes a provision that allows for planned load shed in a single contingency provided that the plan is documented and alternatives are considered and vetted in an open and transparent process. <i>Docket No. RM11-18-000; Order No. 762</i></p>			
<p><a href="#">Order No. 763 - Order Approving Automatic Underfrequency Load Shedding and Load Shedding Plans Reliability Standards</a></p> <p>FERC issues a final rule in which it approves Reliability Standards PRC-006-1 (Automatic Underfrequency Load Shedding) and EOP-003-2 (Load Shedding Plans), developed and submitted to the Commission for approval by the North American Electric Reliability Corporation (NERC), the Electric Reliability Organization certified by the Commission.</p> <p><i>Docket No. RM11-20-000; Order No. 763</i></p>	<p>05.07.2012</p>	<p>3</p>	<p>2012 - 2 2014 - 1</p>
<p><a href="#">Order 772 - Order Approving PRC-006-SERC-1</a></p> <p>FERC issues a final rule in which it approves regional Reliability Standard PRC-006-SERC-01 (Automatic Underfrequency Load Shedding Requirements), submitted to the Commission for approval by the North American Electric Reliability Corporation (NERC). Regional Reliability Standard PRC-006-SERC-01 is designed to ensure that automatic underfrequency load shedding protection schemes, designed by planning coordinators and implemented by applicable distribution providers and transmission owners in the SERC Reliability Corporation Region, are coordinated to mitigate the consequences of an underfrequency event effectively. <i>Docket No. RM12-9-000; Order 772</i></p>	<p>12.20.2012</p>	<p>2</p>	<p>2013 - 2</p>
<p><a href="#">Order 773 - Order Approving Revisions to Electric Reliability Organization Definition of Bulk Electric System and Rules of Procedure</a></p>	<p>12.20.2012</p>	<p>5</p>	<p>2013 - 4 2015 - 1</p>

<p>FERC issues a Final Rules approving modifications to the currently-effective definition of “bulk electric system” developed by the North American Electric Reliability Corporation (NERC), the Commission-certified Electric Reliability Organization. The Commission finds that the modified definition of “bulk electric system” removes language allowing for regional discretion in the currently-effective bulk electric system definition and establishes a bright-line threshold that includes all facilities operated at or above 100 kV. The modified definition also identifies specific categories of facilities and configurations as inclusions and exclusions to provide clarity in the definition of “bulk electric system.” <i>Docket Nos. RM12-6-000 and RM12-7-000; Order No. 773</i></p>			
<p><a href="#">Order No. 777 Approving FAC-003-2 (Transmission Vegetation Management)</a></p> <p>FERC issues a final rule approving Reliability Standard FAC-003-2 (Transmission Vegetation Management), and three new definitions in the NERC Glossary of Terms – “Right-of-Way,” “Vegetation Inspection,” and “Minimum Vegetation Clearance Distance.” FAC-003-2 also incorporates a new minimum annual inspection requirement, and incorporates new minimum vegetation clearance distances into the text of the standard. <i>Docket No. RM12-4-000; Order No. 777</i></p>	<p>03.21.2013</p>	<p>5</p>	<p>2013 – 3 2015 – 1 Not addressed - 1</p>
<p><a href="#">Order 779 - Final Rule on Reliability Standard for Geomagnetic Disturbances</a></p> <p>FERC issues Order No. 779, in which it directs NERC to submit to the Commission for approval proposed Reliability Standards that address the impact of GMD on the reliable operation of the Bulk-Power System. The Commission directs NERC to implement the directive in two stages. <i>Docket No. RM12-22-000; Order No. 779</i></p>	<p>05.16.2013</p>	<p>17</p>	<p>2013 - 3 2015 - 14</p>
<p><a href="#">Order 786 - Final Rule Approving Reliability Standard TPL-001-4 (Transmission System Planning Performance Requirements)</a></p> <p>FERC issues a final rule approving NERC's proposed Transmission Planning Reliability Standard TPL-001-4. <i>Docket Nos. RM12-1-000 and RM13-9-000; Order No. 786</i></p>	<p>10.17.2013</p>	<p>4</p>	<p>2014 - 1 Not addressed - 3</p>
<p><a href="#">Order 789 - Approving Regional Reliability Standard BAL-002-WECC-2 - Contingency Reserve</a></p> <p>FERC issues a final rule approving regional Reliability Standard BAL-002-WECC-2 (Contingency Reserve). The final rule directs NERC to file an informational filing two years after implementation of the regional Reliability Standard. <i>Docket No. RM13-13-000; Order No. 789</i></p>	<p>11.21.2013</p>	<p>1</p>	<p>Not addressed - 1</p>

<p><a href="#">Order 791 - Approving Version 5 CIP Reliability Standards</a></p> <p>FERC issues a final rule approving the Version 5 Critical Infrastructure Protection (CIP) Reliability Standards, CIP-002-5 through CIP-011-1. The final rule also approves 19 new or revised definitions associated with the CIP Version 5 Reliability Standards for inclusion in the NERC Glossary of Terms. The final rule further directs NERC to develop modifications to the CIP Version 5 Reliability Standards, and submit informational filings. <i>Docket No. RM13-5-000; Order No. 791</i></p>	<p>11.22.2013</p>	<p>13</p>	<p>2014 - 7 2015 - 6</p>
<p><a href="#">Order 793 - Final Rule Approving Protection System Maintenance Reliability Standard</a></p> <p>FERC issues a final rule approving NERC’s revised Reliability Standard, PRC-005-2 (Protection System Maintenance), which will supersede four existing Reliability Standards, PRC-005-1.1b (Transmission and Generation Protection System Maintenance and Testing), PRC-008-0 (Underfrequency Load Shedding Equipment Maintenance), PRC-011-0 (Undervoltage Load Shedding Equipment Maintenance), and PRC-017-0 (Special Protection System Maintenance and Testing). <i>Docket No. RM13-7-000; Order No. 793</i></p>	<p>12.19.2013</p>	<p>2</p>	<p>2014 - 2</p>
<p><a href="#">Order 794 - Approving Reliability Standard BAL-003-1 (Frequency Response and Frequency Bias Setting)</a></p> <p>FERC issues a final rule approving the Reliability Standard BAL-003-1 (Frequency Response and Frequency Bias Setting). <i>Docket No. RM13-11-000; Order No. 794</i></p>	<p>01.16.2014</p>	<p>6</p>	<p>2014 - 2 Ongoing Requirement - 1 2015 – 1 Not addressed - 2</p>
<p><a href="#">Order Directive Filing Standards</a></p> <p>FERC issues Order No. 795, in which it directs NERC to submit to the Commission for approval proposed Reliability Standards that requires certain registered entities take steps or demonstrate that they have taken steps to address physical security risks and vulnerabilities related to the reliable operation of the Bulk-Power System within 90 days of the date of the order. <i>Docket No. RD14-6-000; Order No. 795</i></p>	<p>03.07.2014</p>	<p>1</p>	<p>2014 - 1</p>
<p><a href="#">Generator Verification Reliability Standards</a></p> <p>FERC issues Order No. 796, in which it directs NERC to submit a violation severity level that addresses a transmission planner’s obligation to provide a technical description of why a model submitted by a generation owner is not usable for Requirement R6 of MOD-026-1 and Requirement R5 of MOD-027-1. <i>Docket No. RM13-16-000; Order No. 796</i></p>	<p>03.20.2014</p>	<p>1</p>	<p>2014 - 1</p>

<a href="#">Physical Security Reliability Standard</a> FERC issues Order No. 802, in which it directs NERC to submit updates to CIP-014-1 (Physical Security). <i>Docket No. RM14-15-000; Order No. 802</i>	11.20.2014	2	2015 – 1 Not addressed - 1
<a href="#">Order 803 - Approving Reliability Standard PRC-005-3 (Protection System and Automatic Reclosing Maintenance)</a> FERC issues a final rule approving the Reliability Standard PRC-005-3 (Protection System and Automatic Reclosing Maintenance). <i>Docket No. RM14-8-000; Order No. 803</i>	1.22.2015	2	2015 – 1 Not addressed - 1
<a href="#">Order No. 804 Approving Reliability Standard MOD-031-1</a> FERC issues an order approving Reliability Standard MOD-031-1 (Demand and Energy Data) as well as proposed definitions for the terms Demand Side Management and Total Internal Demand. <i>Docket No. RM14-12-000; Order No. 804</i>	2.19.2015	2	2015 - 2
<a href="#">Order on the RBR Initiative NERC ROP Revisions and Requiring Compliance Filing</a> <a href="#">Errata Notice to the Order on the RBR Initiative NERC ROP Revisions and Requiring Compliance Filing.</a> FERC issues an order approving and denying in part the Risk-Based Registration (RBR) initiative NERC Rules of Procedure (ROP) revisions submitted on December 11, 2014. FERC directs NERC to: (1) provide, within 60 days, more information on the proposal to remove Load-Serving Entities from the registry criteria to ensure there are no reliability gaps; (2) revise, within 60 days, ROP Appendix 5B to include Reliability Standard PRC-005 as applicable to UFLS-Only Distribution Providers; (3) modify, within 60 days, Appendix 5A Section III.D; (4) submit a one-year informational filing discussing the implementation of the RBR program; and (5) provide the Commission with notice of review panel discussions. <i>Docket No. RR15-4-000</i>	3.19.2015	5	2015 – 3 2017 - 2
<a href="#">Order No. 808 Approving Reliability Standards COM-001-2 and COM-002-4</a> FERC issues an order approving Reliability Standards COM-001-2 (Communications) and COM-002-4 (Operating Personnel Communications Protocols). <i>Docket No. RM14-13-000; Order No. 808</i>	4.16.2015	1	2016- 1
<a href="#">Order No. 810 Approving Reliability Standard BAL-001-2</a> FERC issues an order approving Reliability Standard BAL-001-2 (Balancing Authority Reliability). <i>Docket No. RM14-13-000; Order No. 810</i>	4.16.2015	2	2016-1 Not addressed - 1

<p>FERC issues an order approving Reliability Standard BAL-001-2 (Real Power Balancing Control Performance). <i>Docket No. RM14-10-000; Order No. 810</i></p>			
<p><a href="#">Order Approving Reliability Standard PRC-004-3</a></p> <p>FERC issues an order approving Reliability Standard PRC-004-3 (Protection System Misoperation Identification and Correction), including approval of two new defined terms to include in the NERC Glossary of Terms as well as the implementation plan and associated VRFs and VSLs. FERC also directs NERC to submit a compliance filing, within 60 days of the order, to address certain concerns regarding the VRF designations for Requirement R1 through R6. <i>Docket No. RM14-14-000</i></p>	5.13.2015	1	2015 - 1
<p><a href="#">Order on the Amended CCC Charter</a></p> <p>FERC issues an order conditionally approving NERC's proposed revisions to the Compliance and Certification Committee (CCC) Charter and directs NERC to submit a compliance filing within 60 days of the date of this order. <i>Docket No. RM15-11-000</i></p>	8.21.2015	1	Not addressed - 1
<p><a href="#">Order Approving RBR Initiative ROP Revisions Compliance Filing</a></p> <p>FERC issues an order accepting the July 17, 2015 Risked-Based Registration (RBR) initiative-related compliance filing that proposed to: eliminate the Load-Serving Entity (LSE) function from the registry criteria and to revise the NERC Rules of Procedure (ROP). FERC also directs NERC to submit an informational filing on the actual effects of this LSE change after it is implemented. <i>Docket No. RR15-04-001</i></p>	10.15.2015	1	2017– 1
<p><a href="#">Order Conditionally Approving Revised Pro Forma and Eight Revised RDAs</a></p> <p><a href="#">Errata Notice</a></p> <p>FERC issues an order conditionally approving NERC's petition to approve the Pro Forma Regional Delegation Agreement (RDA) and eight RDAs effective January 1, 2016, but directs NERC to modify the agreements and submit a compliance filing within 120 days of the date of this order. <i>Docket No. RR-15-12-001</i></p>	11.02.15	5	2015 – 5
<p><a href="#">Order on 2016 Business Plans and Budgets Errata Notice</a></p> <p>FERC issues an order accepting the 2016 business plans and budgets of NERC, the Regional Entities, and Western Interconnection Regional Advisory Board (WIRAB). <i>Docket No. RR15-16-001</i></p>	11.2.15	1	2016-1

<a href="#">Order No. 817 Approving TOP and IRO Reliability Standards</a>	11.19.15	5	Not Addressed – 1
FERC issues a final rule approving revisions to the Transmission Operations and Interconnection Reliability Operations and Coordination Reliability Standards. The final rule directs NERC to make three modification to the standards within 18 months of the effective date of the final rule. <i>Docket No.RM-15-16-000</i>			
<a href="#">Order No. 822 Adopting Improvements to CIP Standards</a>	1.22.16	4	Not Addressed – 4
FERC issues a final rule adopting revisions to seven Critical Infrastructure Protection (CIP) Reliability Standards, and also directs NERC to develop modifications and conduct a study. <i>Docket No.RM-15-14-000</i>			
<a href="#">Order No. 824 Approving Availability of Certain NERC Databases to the Commission</a>	6.16.16	1	Not Addressed-1
FERC issues a final rule approving availability of certain NERC databases to the Commission.			
<a href="#">Order No. 829 Directing Standard for Supply Chain Cyber Controls</a>	7.21.16	1	Not Addressed - 1
FERC issues a final rule requiring the development of a new Reliability Standard on supply chain risk management for industrial control system hardware, software, and computing and networking services associated with bulk electric system operations.			
<a href="#">Order No. 830 on GMD Reliability Standard</a>	9.22.16	6	Not Addressed - 6
FERC issues a final rule approving the Second Stage Geomagnetic Disturbances (GMD) Reliability Standard and directs NERC to develop three modifications.			
<a href="#">Order Approving Reliability Standards IRO-018-1 and TOP-010-1</a>	9.22.16	1	Addressed-1
FERC issues an order approving Reliability Standards IRO-018-1 (Reliability Coordinator Real-time Reliability Monitoring and Analysis Capabilities) and TOP-010-1 (Real-time Reliability Monitoring and Analysis Capabilities).			
<a href="#">Order No. 835 Approving Reliability Standard BAL-002-2</a>	1.19.17	4	Not Addressed – 4
FERC issues a final rule approving Reliability Standard BAL-002-2 ( <i>Disturbance Control - Contingency Reserve for Recovery from a Balancing Contingency Event</i> ), eight new or revised definitions to be included in the NERC Glossary, retirement of currently-effective Reliability Standard BAL-002-1, associated violation risk factors and violation severity levels, and implementation plan			



## Appendix B –Directives Listed by Commission Order

### Directives by Commission Order (Publication Date)

Below is a list of all of the directives issued by Commission. The table includes a summary of the directive, information on the order in which it was issued and the status of resolving the directive (i.e., the estimated or actual date for a filing with FERC addressing the directive).

Table 3: Directives by Commission Order						
Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10001 - Further, we adopt the NOPR proposal to require the ERO to submit a modification to the glossary that updates the definition of “operating reserves,” as required in our discussion of BAL-002-0 and BAL-005-0.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1896	1/29/2016
S- Ref 10002 - ...directs the ERO to modify the glossary through the Reliability Standards development process to include the statutory definitions of the terms Bulk-Power System.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1894	5/10/2013
S- Ref 10003 - ...directs the ERO to modify the glossary through the Reliability Standards development process to include the statutory definitions of the terms Reliable Operation.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1894	5/10/2013
S- Ref 10004 - ...directs the ERO to modify the glossary through the Reliability Standards development process to include the statutory definitions of the terms Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1894	5/10/2013
S- Ref 10005 - ...directs the ERO to submit a modification to the glossary that enhances the definition of “generator operator” to reflect concerns of the commenters and the direction [“to include aspects unique to ISOs, RTOs and pooled resource organizations”] provided by the Commission in other sections of FERC Order 693.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1895 (See also Para 1887 and Para 130-145)	2013 N/A - Withdrawn by FERC Order No. 788

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10006 - ...directs the ERO to submit a modification to the glossary that enhances the definition of “transmission operator” to reflect concerns of the commenters and the direction [“to include aspects unique to ISOs, RTOs and pooled resource organizations”] provided by the Commission in other sections of FERC Order 693.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1895 (See also Para 1887 and Para 130-145)	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10008 - ... direct the ERO to file a modification of the ERCOT regional difference to include the requirements concerning frequency response contained in section 5 of the ERCOT protocols.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 315	9/18/2013
S- Ref 10009 - ...develop a modification to the Reliability Standard that refers to the ERO rather than to the NERC Operating Committee in Requirements R4.2 and R6.2.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 321	9/9/2010
S- Ref 10010 - ...direct the ERO to modify this Reliability Standard to substitute Regional Entity for regional reliability organization as the compliance monitor.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 321	9/9/2010
S- Ref 10011 - ...direct the ERO to submit a modification to BAL-002-0 that includes a Requirement that explicitly provides that DSM may be used as a resource for contingency reserves, subject to the clarifications provided below.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 330	1/29/16
S- Ref 10012 - ...direct the ERO to submit a modification to BAL-002-0 to include a continent-wide contingency reserve policy.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 340	1/29/16
S- Ref 10013 - ... direct the ERO to address the concerns expressed by the Commission about having enough contingency reserves to respond to an event on the system in Requirement R3.1 and how such reserves are measured.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 351	1/29/16

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10014 - ... direct the ERO to develop a modification to the Reliability Standard requiring that any single reportable disturbance that has a recovery time of 15 minutes or longer be reported as a violation of the Disturbance Control Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 354	1/29/16
S- Ref 10015 - ...direct the ERO, through the Reliability Standards development process, to modify this Reliability Standard to define a significant deviation and a reportable event, taking into account all events that have an impact on frequency, e.g., loss of supply, loss of load and significant scheduling problems, which can cause frequency disturbances and to address how balancing authorities should respond.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 355	5/9/2014
S- Ref 10016 - ...direct the ERO to determine the appropriate periodicity of frequency response surveys necessary to ensure requirement R2 and other requirements are being met; also modify measure M1 based on this determination.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 369	3/29/2013
S- Ref 10017 - ... direct the ERO to either modify this Reliability Standard or develop a new Reliability Standard that defines the necessary amount of frequency response needed for Reliable Operation and methods of obtaining and measuring that frequency response is available.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 372	3/29/2013
S- Ref 10018 - The Commission agrees with the shortcomings identified by NERC regarding WECC-BAL-STD-002-0 and expects WECC in developing a permanent, replacement standard to address these shortcomings as it has committed to do.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 54	3/25/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10019 - Further, it is important that regional Reliability Standards and NERC Reliability Standards achieve a reasonable level of consistency in the structure of a Reliability Standard so that there is a common understanding of the element.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 55	3/25/2009
S- Ref 10020 - WECC will provide an opportunity to address these concerns when developing a permanent, replacement standard. The Commission agrees that this is a reasonable approach and will expect WECCs submission of a replacement standard to adequately address these stakeholder concerns. (Xcel and California Cogeneration contend that the Commission should remand WECC-BAL-STD-002-0 because of ambiguities in the terms load responsibility and firm transaction.)	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 56	3/25/2009
S- Ref 10021 - ...direct the ERO to modify BAL-003 to include Levels of Non-Compliance.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 375	3/8/2008
S- Ref 10022 - ... directs the ERO to develop a modification to BAL-004-0 through the Reliability Standards development process that includes Levels of Non-Compliance and additional Measures for Requirement R3.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 382	12/1/2010
S- Ref 10023 - In the five-year review cycle of the standard, perform research that would provide a technical basis for the present or any alternative approach that is more effective and helps reduce inadvertent interchange.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 385	
S- Ref 10024 - ...directs WECC to develop revisions to the provision so that a balancing authority will know with specificity the circumstances that trigger the actions required by Requirement R1.2.	Western Electricity Coordinating Council Regional Reliability Standard Regarding Automatic Time Error Correction	5/21/2009	Order 723	RM08-12-000	Para 30	8/20/2013 Regional

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10025 - ...directs WECC to develop a modification to the regional Reliability Standard consistent with CCs and NERCs explanation that the limit set forth in Requirement 2 of 24 hours per calendar quarter is an accumulated total for the period...	Western Electricity Coordinating Council Regional Reliability Standard Regarding Automatic Time Error Correction	5/21/2009	Order 723	RM08-12-000	Para 34	8/20/2013 Regional
S- Ref 10026 - ...direct NERC to develop in its Rules of Procedure, a methodology for organizing and managing regional definitions and terminology consistent with the principles discussed above.	Western Electricity Coordinating Council Regional Reliability Standard Regarding Automatic Time Error Correction	5/21/2009	Order 723	RM08-12-000	Para 39	Complete - Regional Definitions included in NERC Glossary
S- Ref 10027 - ...direct that the violation risk factors assigned to BAL-004-WECC-01, Requirements R1, R2, R3, and R4 be modified from lower to medium.	Western Electricity Coordinating Council Regional Reliability Standard Regarding Automatic Time Error Correction	5/21/2009	Order 723	RM08-12-000	Para 51	8/28/2009
S- Ref 10028 - ...directs the ERO and WECC to submit violation severity levels for each Requirement and sub-Requirement that has been assigned a violation risk factor.	Western Electricity Coordinating Council Regional Reliability Standard Regarding Automatic Time Error Correction	5/21/2009	Order 723	RM08-12-000	Para 54	10/23/2009
S- Ref 10029 - ... direct the ERO to modify BAL-005-0 through the Reliability Standards development process to develop a process to calculate the minimum regulating reserve for a balancing authority, taking into account expected load and generation variation and transactions being ramped into or out of the balancing authority.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 396	4/20/2016

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10030 - ... clarifies that its direction to the ERO in this section is for it to develop a modification to BAL-005-0 through the Reliability Standards development process that changes the title of the Reliability Standard to be neutral as to the source of regulating reserves and allows the inclusion of technically qualified DSM and direct control load management as regulating reserves, subject to the clarifications provided in this section.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 404	4/20/2016
S- Ref 10031 - ...the comments of Xcel and FirstEnergy should be addressed by the ERO when this Reliability Standard is revisited as part of the ERO's Work Plan.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 415	4/20/2016
S- Ref 10032 - ...direct NERC to submit, within six months from the date of issuance of this order, a modification to BAL-003-0 that complies with the Commissions directives as set forth in Order No. 693.	Order Setting Deadline for Compliance - Docket No. RM06-16-010	3/18/2010	130 FERC ¶ 61,218	RM06-16-010	Para 14	5/25/2010
S- Ref 10033 - Given that most of the commenters concerns over the inclusion of DSM as part of regulating reserves relate to the technical requirements, the Commission clarifies that to qualify as regulating reserves, these resources must be technically capable of providing the service. In particular, all resources providing regulation must be capable of automatically responding to real-time changes in load on an equivalent basis to the response of generation equipped with automatic generation control.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 406	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10034 - The Commission adopts the NOPR proposal to require the ERO to modify the Reliability Standards to include a Measure that provides for a verification process over the minimum required automatic generation control or regulating reserves a balancing authority maintains.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 418	Credit take in 2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10035 - ...direct to consider those (FirstEnergy) suggestions in its Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 419	4/20/2016
S- Ref 10036 - ...direct the ERO to develop a modification to BAL-006-1 that adds Measures concerning the accumulation of large inadvertent imbalances and Levels of Non-Compliance.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 428	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10037 - Examine the WECC time error correction procedure as a possible guide. The Commission asks the ERO, when filing the new Reliability Standard, to explain how the new Reliability Standard satisfies the Commission's concerns.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 438	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10038 - ...direct the ERO to modify the regional differences so that they reference the current Reliability Standards and are in the standard form, which includes Requirements, Measures and Levels of Non-Compliance. The ERO should explore FirstEnergy's request to define the function of a waiver in its Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 444	4/20/2016
S- Ref 10039 - ...direct the ERO, as part of its Work Plan, to consider in the Reliability Standards development process, possible revisions to CIP-001-1 that address our concerns regarding the need for wider application of the Reliability Standard. Further, when addressing such applicability issues, the ERO should consider whether separate, less burdensome requirements for smaller entities may be appropriate to address these concerns.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 460	12/31/2012
S- Ref 10040 - Define sabotage and provide guidance on triggering events that would cause an entity to report an event.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 461	12/31/2012

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10041 - Consider FirstEnergy's suggestions to differentiate between cyber and physical security sabotage and develop a threshold of materiality.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 462	12/31/2012
S- Ref 10042 - ...direct the ERO to incorporate a periodic review or updating of the sabotage reporting procedures and for the periodic testing of the sabotage reporting procedures.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 466	12/31/2012
S- Ref 10043 - ...direct the ERO to address our underlying concern regarding mandatory reporting of a sabotage event.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 468	12/31/2012
S- Ref 10044 - ...direct the ERO to explore ways to address these concerns – including central coordination of sabotage reports and a uniform reporting format – in developing modifications to the Reliability Standard with the appropriate governmental agencies that have levied the reporting requirements.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 469	12/31/2012
S- Ref 10045 - ...direct the ERO to provide advice to entities that have concerns about the reporting of particular circumstances as they arise.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 461	12/31/2012
S- Ref 10046 - Modify CIP-001-1 to require an applicable entity to contact appropriate governmental authorities in the event of sabotage within a specific period of time, even if it is a preliminary report.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 470	12/31/2012
S- Ref 10047 - Therefore, we adopt our proposal to require the ERO to modify COM-001-1 to apply to generator operators and distribution providers.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 493 Sen 4	5/14/2014
S- Ref 10048 - Address TAPS, Entergy, Six Cities, and FirstEnergy concerns through the standard development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 491	5/14/2014



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10049 - Specify requirements for using telecommunication facilities during normal and emergency conditions that reflect the roles of the applicable entities and their impact of reliable operation, and include adequate flexibility.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 503	5/14/2014
S- Ref 10050 - Address TAPS, Entergy, Six Cities, and FirstEnergy concerns through the standard development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 503 and 504	5/14/2014
S- Ref 10051 - Although we direct that the regional reliability organization should not be the compliance monitor for NERCNet, we leave it to the ERO to determine whether it is the appropriate compliance monitor or if compliance should be monitored by the Regional Entities for NERCNet User Organizations.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 507	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10052 - ...adopt our proposal to require the ERO to modify COM-002-2 to apply to distribution providers through its Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 512	5/14/2014
S- Ref 10053 - Address APPAs concern through the standard development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 515	5/14/2014
S- Ref 10054 - Include a requirement for the reliability coordinator to assess and approve only those actions that have impacts beyond the area views of the transmission operators and balancing authorities.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 520	3/18/2015  First: 4/16/2013
S- Ref 10055 - Consider Xcels suggestion that the entity taking operating actions should not be held responsible for the delays caused by the reliability coordinators assessment and approval.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 523	5/14/2014
S- Ref 10056 - Establish tightened communication protocols, especially for communications during alerts and emergencies. Establish uniformity to the extent practical on a continent-wide basis.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 531	5/14/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10057 - Address Santa Clara, FirstEnergy, and Six Cities concerns in the reliability standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 539	5/14/2014
S- Ref 10058 - Regarding APPAs suggestion that it may be beneficial to include communication protocols in the relevant Reliability Standard that governs those types of emergencies, we direct that it be addressed in the Reliability Standards Development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 533	5/14/2014
S- Ref 10059 - Accordingly, the Commission finds the reliability coordinator is a necessary entity under EOP-001-0 and directs the ERO to modify the Reliability Standard to include the reliability coordinator as an applicable entity.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 548	12/31/2009
S- Ref 10060 - In addition, the ERO should consider SoCal Edison's suggestion in the ERO's Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 548	12/31/2009
S- Ref 10062 - ... direct the ERO to develop a modification through the Reliability Standards development process clarifying that when the load reduction plan of Requirement R2 involves load shedding, such load shedding be capable of being implemented as soon as possible when required to mitigate an IROL violation but in no case in more than 30 minutes.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 555	12/31/2009
S- Ref 10063 - ...direct the ERO to determine the optimum number of continent-wide system states and their attributes and to modify the Reliability Standards through the Reliability Standards development process to accomplish this objective.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 561	12/29/2014
S- Ref 10064 - ...direct the ERO to consider such a pilot program as it modifies EOP-001-0 through the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 562	12/29/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10065 - Clarifies that the actual emergency plan elements, and not the for consideration elements of Attachment 1, should be the basis for compliance.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 565	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10066 - Address emergencies resulting not only from insufficient generation but also insufficient transmission capability, particularly as it affects the implement of the capacity and energy emergency plan.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 571	12/29/2014
S- Ref 10067 - ...directs the ERO to modify the Reliability Standard to include all technically feasible resource options in the management of emergencies.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 573	12/29/2014
S- Ref 10068 - ...direction that the ERO modify the Reliability Standard to ensure that the TLR procedure is not used to mitigate actual IROL violations.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 577	9/9/2010
S- Ref 10069 - The issues raised by ISO-NE should be addressed through the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 582	9/9/2010
S- Ref 10070 - ...directs that the ERO considers adding Measures and Levels of Non-compliance in the Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 582	9/9/2010
S- Ref 10072 - ...directs the ERO to address the minimum load and maximum time concerns of the Commission through the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 595	12/29/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S- Ref 10073 - The Reliability Standard should require periodic drills by entities subject to section 215, and require those entities to seek participation by other entities. The drills should test the readiness and functionality of the load shedding plans, including, at times, the actual deployment of personnel.</p> <p>P 603: the Commission directs the ERO to develop a modification to EOP-003-1 through the Reliability Standards development process that: (1) includes a requirement to develop specific minimum load shedding capability that should be provided and the maximum amount of delay before load shedding can be implemented based on an overarching criteria that take into account system characteristics and (2) requires periodic drills of simulated load shedding.</p>	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 597; Para 603	12/29/2014
S- Ref 10074 - Consider comments from APPA in the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 601	12/29/2014
S- Ref 10075 - ...direct the ERO to change its Rules of Procedure to assure that the Commission also receives these reports within the same time frames as DOE.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 618	5/7/2012
S- Ref 10076 - Consider APPAs concern about generator operators and LSEs analyzing performance of their equipment and provide data and information on the equipment to assist others with analysis.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 612	12/31/2012
S- Ref 10077 - ...direct the ERO to consider all comments (Xcel) in future modifications of the Reliability Standard through the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 615	12/31/2012
S- Ref 10078 - The ERO should consider this issue (APPA) through the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 616	12/31/2012

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10079 - ...direct the ERO to develop a modification to EOP-004-1 through the Reliability Standards development process that includes any Requirements necessary for users, owners and operators of the Bulk-Power System to provide data that will assist NERC in the investigation of a blackout or disturbance.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 617	12/31/2012
S- Ref 10080 - ...direct the ERO to develop a modification to EOP-005-1 through the Reliability Standards development process that identifies time frames for training and review of restoration plan requirements to simulate contingencies and prepare operators for anticipated and unforeseen events and gathers the data from simulations and drills of system restoration on the time it takes to restore power to the auxiliary power systems of nuclear power plants under its data gathering authority and report that information to the Commission on a quarterly basis.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 630	12/31/2009
S- Ref 10081 - ...direct the ERO to gather data, pursuant to § 39.5(f) of the Commission’s regulations, from simulations and drills of system restoration on the time it takes to restore power to the auxiliary power systems of nuclear power plants under its data gathering authority and report that information to the Commission on a quarterly basis.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 629	12/31/2009 4/30/2009 6/1/2009 8/31/2009 11/30/2009
S- Ref 10082 - Consider commenters concerns in future modifications of the reliability standard, including those that refer to Attachment 1.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 628	12/31/2009
S- Ref 10083 - ...direct the ERO to consider the issues raised by NRC in future revisions of the Reliability Standard through the Reliability Standard development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 629	12/31/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10084 - ... direct the ERO to develop a modification to EOP-006-1 through the Reliability Standards development process that ensures that the reliability coordinator, which is the highest level of authority responsible for reliability of the Bulk-Power System, is involved in the development and approval of system restoration plans.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 638	12/31/2009
S- Ref 10085 - ...direct the ERO to consider these suggestions in future revisions to improve EOP-007-0, through the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 647	12/31/2009
S- Ref 10086 - With regard to TANCs request for regional flexibility in determining the appropriate mix of facilities needed to achieve the reliability objectives, it is our understanding that the Reliability Standard provides for the number and location of blackstart units to vary depending on the specific requirements of each system. We believe that uniformity will be required, however, in the criteria used to determine the number and location of blackstart units and testing requirements.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 646	12/31/2009
S- Ref 10087 - ... centrally dispatched generation control centers, must provide for the minimum backup capabilities discussed above but may do so through other means, such as contracting for these services instead of through dedicated backup control centers.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 670	2/11/2011
S- Ref 10088 - Provide for backup capabilities that, at a minimum, must be capable of operating for a prolonged period of time, generally defined by the time it takes to restore the primary control center.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 663	2/11/2011
S- Ref 10089 - Provide for backup capabilities that, at a minimum, must include a requirement that all reliability coordinators have full backup control centers.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 670	2/11/2011

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10090 - Provide for backup capabilities that, at a minimum, must provide for a minimum functionality to replicate the critical reliability functions of the primary control center.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 663	2/11/2011
S- Ref 10091 - Provide for backup capabilities that, at a minimum, must provide that the extent of the backup capability be consistent with the impact of the loss of the entity's primary control center on the reliability of the bulk power system.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 672	2/11/2011
S- Ref 10092 - Provide for backup capabilities that, at a minimum, must require transmission operators and balancing authorities that have operational control over significant portions of generation and load to have minimum backup capabilities.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 663	2/11/2011
S- Ref 10093 - Provide for backup capabilities that, at a minimum, must be independent of the primary control center.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 663	2/11/2011
S- Ref 10094 - Consider suggestions for improvements in future revisions of the standards.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 676	12/31/2009
S- Ref 10095 - Consider FirstEnergy's suggestion to include a reference to TPL-004-0.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 692	8/22/2014
S- Ref 10096 - ... direct the ERO to develop a modification to FAC-002-0 through the Reliability Standards development process that amends Requirement R1.4 to require evaluation of system performance under both normal and contingency conditions by referencing TPL-001 through TPL-003.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 693	9/9/2010
S- Ref 10097 - Address other commenters concerns in future revisions to the standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 687	8/22/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10098 - Address the issue of bright-line applicability of 200 kV and above through the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 706	12/21/2011
S- Ref 10099 - Incorporate suggestions to include facilities at lower voltages that are associated with IROs.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 706	12/21/2011
S- Ref 10100 - ... Direct the ERO to develop a Reliability Standard that defines the minimum clearance needed to avoid sustained vegetation-related outages that would apply to transmission lines crossing both federal land and non-federal land.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 732	12/21/2011
<p>S- Ref 10101 - Collect outage data for transmission outages of lines that cross both federal and non-federal lands, analyze it, and use the results to develop a standard that would apply to both federal and non-federal lands.</p> <p>NERC should gather and analyze the necessary data regarding vegetation management issues on public lands. If NERC's analysis indicates that there are issues that should be addressed, NERC should propose a means to address the concern, for example by issuing an alert, or propose other appropriate action."</p>	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007; 3/21/2013	Order 693; 777	RM06-16-000; RM12-4-000	Order 693 Para 732; Order 777 Para 129, 130	Not standards' related (TADS/RAPA)
S- Ref 10102 - ... direct the ERO to develop an acceptable definition that covers facilities that impact reliability but balances extending the applicability of this standard against unreasonably increasing the burden on transmission owners.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 708	12/21/2011



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10103 - FirstEnergy and Xcel suggest that if the applicability of this Reliability Standard is expanded, the Commission should allow flexibility in complying with this Reliability Standard for lower-voltage facilities, or allow lower-voltage facilities, or allow lower-voltage facilities one year before the Reliability Standard is implemented. The ERO should consider these comments when determining when it would request that the modification of this Reliability Standard to go into effect.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 709	12/21/2011
S- Ref 10104 - ...direct the ERO to develop compliance audit procedures, using relevant industry experts, which would identify appropriate inspection cycles based on local factors.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 721	12/21/2011
S- Ref 10105 - FirstEnergy suggests that rights-of-way be defined to encompass the required clearance areas instead of the corresponding legal rights, and that the standards should not require clearing the entire right-of-way when the required clearance for an existing line does not take up the entire right-of-way....directs the ERO to address this suggestion in the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 734	12/21/2011
S- Ref 10106 - Consider EEs suggestion for having this information available for review upon request of a registered user, owner, and operator as part of the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 739	6/15/2011
S- Ref 10107 - ...direct the ERO to submit a modification to FAC-008-1 that requires transmission and generation facility owners to document underlying assumptions and methods used to determine normal and emergency facility ratings.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 739	6/15/2011

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10108 - Ensure that the methodology chosen is consistent with standards developed in an open process like IEEE or CIGRE. The ERO should consider the concerns raised by LPPC and MRO in its Reliability Standards development process, and is hereby directed to do so. The Commission does not expect there to be any regional differences because the only differences should be from different underlying assumptions that are not defined by the Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 742	6/15/2011
S- Ref 10109 - The Commission's proposed modification would require identifying and documenting the limiting component for all facilities and the increase in rating if that component were no longer the most limiting component; in other words, the rating based on the second-most limiting component.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 756	6/15/2011
S- Ref 10110 - Consider International Transmissions comments regarding applying this directive only for lines where the conductor itself is not the limiting element as part of the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 760	6/15/2011
S- Ref 10111 - Consider comments from FirstEnergy and MISO that generators will have difficulty determining the increase in ratings due to the next limiting element through the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 760	6/15/2011
S- Ref 10112 - Consider Xcels comments that an actual test be used by generator operators to determine capabilities as part of the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 765	6/15/2011
S- Ref 10113 - Consider FirstEnergy's comments that compliance with NRC rating methodologies should be assumed to comply with NERC reliability standards as part of the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 765	6/15/2011

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10114 - Consider the comments by the Valley Group regarding dynamic line ratings as part of the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 768	6/15/2011
S- Ref 10115 - Add or update the compliance measures in the standard as part of the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 770	6/15/2011
S- Ref 10116 - Although we are not proposing to approve or remand this Reliability Standard, because it is applicable to the regional reliability organization, the Commission agrees with APPA, International Transmission and MidAmerican that, at a minimum, this Reliability Standard should provide a framework for the transfer capability calculation methodology, including data inputs and modeling assumptions.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 779	11/21/2008
S- Ref 10117 - The Commission agrees with APPA that there should be an umbrella organization to assure consistency within the Eastern Interconnection and the other interconnections. We believe that the best organization to do this would be the ERO, because it is the only organization with knowledge of all of the individual Regional Entities that can carry out this function. Therefore, we direct the ERO to modify this Reliability Standard to provide such a framework.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 779	11/21/2008
S- Ref 10118 - Process used to determine transfer capabilities should be transparent to the stakeholders. The results of those calculations should be available to qualified entities on a confidential basis.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 782	11/21/2008
S- Ref 10119 - The process and criteria used to determine transfer capabilities for use in calculating ATC must be identical to those used in planning and operating the system.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 782	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10122 - ...direct the ERO, within 90 days of our subsequent order on proposed modifications to the ERO’s rules, to comply with the Commissions directive in Order No. 693 to modify Reliability Standard FAC-008-1.	Order Directing NERC to Propose Modification of ERO RoPs - Docket No. RR09-6-000	3/18/2010	130 FERC ¶ 61,203	RR09-6-000	Para 29	6/15/2011
S- Ref 10123 - ...direct the ERO to propose a modification to its Rules of Procedure and the Standards Development Process to ensure that the ERO can comply with a Commission directive to develop a new or modified Reliability Standard pursuant	Order Directing NERC to Propose Modification of ERO RoPs - Docket No. RR09-6	3/18/2010	130 FERC ¶ 61,203	RR09-6-000	Para 26	12/23/2010
S- Ref 10124 - Make the standard applicable to reliability coordinators.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 790	11/21/2008
S- Ref 10128 - ...directs the ERO to develop modifications to FAC-012-1 and FAC-013-1 to comply with the relevant directives of Order No. 693 to include, but not limited to, removing redundant provisions for the calculation of transfer capability addressed elsewhere in the MOD Reliability Standards.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 291	1/28/2011

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10129 - ...direct the ERO, through the Reliability Standards development process, to modify FAC-012-1 and any other appropriate Reliability Standards to assure consistency in the determination of TTC/TFC for services provided under the pro forma OATT, and requires that those processes be the same as those used in operation and planning for native load and reliability assessment studies.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1051	11/21/2008
S- Ref 10130 - ...direct the ERO, through the Reliability Standards development process, to modify FAC-012-1 and any other appropriate Reliability Standards to...and requires that those processes be the same as those used in operation and planning for native load and reliability assessment studies.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1051	11/21/2008
S- Ref 10131 - ...direct the ERO to submit a filing within 90 days of the date of this order either withdrawing this regional difference or providing additional information.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 825	3/26/2007
S- Ref 10132 - Include a requirement that interchange information must be submitted for all point-to-point transfers entirely within a balancing authority area, including all grandfathered and non-Order No. 888 transfers.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 817	2/27/2014
S- Ref 10133 - ...direct the ERO to consider Santa Clara's comments, and whether some more explicit language would be useful, in the course of modifying INT-001-2 through the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 819	2/27/2014
S- Ref 10134 - ...direct the ERO to consider adding these Measures and Levels of Non-Compliance to the Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 843	2013 N/A - Withdrawn by FERC Order No. 788

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10135 - ...direct the ERO to consider adding these Measures and Levels of Non-Compliance to the Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 848	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10136 - ...direct the ERO to develop a modification to INT-006-1 through the Reliability Standards development process that makes it applicable to reliability coordinators and transmission operators.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 866	3/18/2015  First: 4/16/2013
S- Ref 10137 - ...direct the ERO to develop a modification to INT-006-1 through the Reliability Standards development process that requires reliability coordinators and transmission operators to review energy interchange transactions from the wide-area and local area reliability viewpoints respectively and, where their review indicates a potential detrimental reliability impact, communicate to the sink balancing authorities necessary transaction modifications before implementation.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 866	3/18/2015  First: 4/16/2013
S- Ref 10138 - ...direct that the ERO consider the suggestions made by EEI and TVA and address the questions raised by Entergy and Northern Indiana in the course of the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 866	2/27/2014
S- Ref 10139 - Consider APPAs suggestion to clarify what reliability entity the standard applies as part of the standard development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 872	2/27/2014
S- Ref 10140 - Consider APPAs suggestion to clarify what reliability entity the standard applies as part of the standard development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 875	2/27/2014
S- Ref 10141 - Consider Northern Indiana's and ISO-NEs suggestions in the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 887	2/27/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10142 - ...direct the ERO to develop modifications to the Reliability Standard through the Reliability Standards development process that reflect the process set forth in the NERC Rules of Procedures and eliminate the regional reliability organization as an applicable entity.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 896	3/18/2015 First: 4/16/2013
S- Ref 10143 - ...direct the ERO to consider adding Measures and Levels of Non-Compliance in the Reliability Standard as requested by APPA.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 897	3/18/2015 First: 4/16/2013
S- Ref 10144 - While APPA, FirstEnergy and California Cogeneration suggest possible changes to IRO-001-1, they do not suggest that the proposed Reliability Standard should not be approved. The ERO should consider the commenters' suggestions when modifying the Reliability Standard pursuant to its Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 897	3/18/2015 First: 4/16/2013
S- Ref 10145 - ...direct the ERO to modify IRO-002-1 to require a minimum set of tools that must be made available to the reliability coordinator.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 905	5/26/2016
S- Ref 10146 - ...direct that the ERO develop a modification to the Reliability Standard through the Reliability Standards development process to create criteria to define the term "critical facilities" in a reliability coordinator's area and its adjacent systems.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 914	3/18/2015
S- Ref 10147 - Consider the suggestions of APPA, Entergy, and Xcel when doing so.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 914	3/18/2015
S- Ref 10148 - ...direct the ERO to modify IRO-004-1 through the Reliability Standards development process to require the next-day analysis to identify control actions that can be implemented and effective within 30 minutes after a contingency.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 935	3/18/2015 First: 4/16/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10149 - In response to APPAs concern that NERC did not provide a Measure for each Requirement, we reiterate that it is in the EROs discretion whether each Requirement requires a corresponding Measure. The ERO should consider this issue through the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 934	3/18/2015 First: 4/16/2013
S- Ref 10150 - Provide further clarification that reliability coordinators and transmission operators direct control actions, not LSEs as part of the standard development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 950	3/18/2015 First: 4/16/2013
S- Ref 10151 - ...direct the ERO to develop a modification to IRO-005-1 through the Reliability Standards development process that includes Measures and Levels of Non-Compliance.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 951	11/15/2006
S- Ref 10152 - ...direct that the Measures and Levels of Non-Compliance specific to IROL violations must be commensurate with the magnitude, duration, frequency and causes of the violations and whether these occur during normal or contingency conditions.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 951	3/18/2015 First: 4/16/2013
S- Ref 10153 - ...direct the ERO to conduct a survey on IROL practices and actual operating experiences by requiring reliability coordinators to report any violations of IROL, their causes, the date and time, the durations and magnitudes in which actual operations exceeds IROLs to the ERO on a monthly basis for one year beginning two months after the effective date of the Final Rule.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 951	10/31/2008
S- Ref 10154 - ...direct the ERO to develop a modification to IRO-006-3 through the Reliability Standards development process that includes a clear warning that the TLR procedure is an inappropriate and ineffective tool to mitigate actual IROL violations.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 964	12/21/2007



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10155 - ...direct the ERO to develop a modification to IRO-006-3 through the Reliability Standards development process that identifies in a Requirement the available alternatives to mitigate an IROL violation other than use of the TLR procedure.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 964	12/21/2007
S- Ref 10156 - ... direct the ERO to modify the WECC and ERCOT procedures to ensure consistency with the standard form of the Reliability Standards including Requirements, Measures and Levels of Non-Compliance.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 964	9/11/2008
S- Ref 10157 - In addressing MISO-PJMs claim that the ERO should modify IRO-006-3 and the MISO-PJM regional difference to require netting generation-to-load impacts to recognize counterflow, we will let the ERO Operating Subcommittee address the technical merits of netting flow impacts in the interchange distribution calculator.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 992	Not Standards' Related (OC PC SubC) 12/10/2014
S- Ref 10158 - Consider the suggestions of MidAmerican and Xcel when developing the modification.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 964	12/21/2007
S- Ref 10159 - ...direct that the ERO, within 15 days of the effective date of this Final Rule, submit a filing that provides an explanation regarding specific language of Requirements R1 and R1.1 of IRO-006-4.	Modification of Interchange and Transmission Loading Relief Reliability Standards; and Electric Reliability Organization Interpretation of Specific Requirements of Four Reliability Standards	7/21/2008	Order 713	RM08-7-000	Para 46	9/11/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10160 - ...direct the ERO to provide an explanation regarding the phrase [t]he TLR procedure alone is an inappropriate and ineffective tool to mitigate an IROL violation.	Modification of Interchange and Transmission Loading Relief Reliability Standards; and Electric Reliability Organization Interpretation of Specific Requirements of Four Reliability Standards	7/21/2008	Order 713	RM08-7-000	Para 50 Sen 3	9/11/2008
S- Ref 10161 - Further, the ERO should explain whether Requirements R1 and R1.1 only allow the TLR procedure to be continued when already deployed prior to an actual IROL violation or, alternatively, whether Requirements R1 and R1.1 allow use of the TLR procedure as a tool to address actual violations after they occur.	Modification of Interchange and Transmission Loading Relief Reliability Standards; and Electric Reliability Organization Interpretation of Specific Requirements of Four Reliability Standards	7/21/2008	Order 713	RM08-7-000	Para 50	9/11/2008
S- Ref 10162 - ...direct the ERO to develop a modification of Requirement R1.1 with respect to the term alone, consistent with this discussion.	Modification of Interchange and Transmission Loading Relief Reliability Standards; and Electric Reliability Organization Interpretation of Specific Requirements of Four Reliability Standards	3/19/2009	Order 713-A	RM08-7-000 and RM08-7-001	Para 36	1/13/2011

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10163 - ...direct the ERO to modify the violation risk factors of Requirements R1 through R4 of IRO-006-4 to high.	Modification of Interchange and Transmission Loading Relief Reliability Standards; and Electric Reliability Organization Interpretation of Specific Requirements of Four Reliability Standards	3/19/2009	Order 713-A	RM08-7-000 and RM08-7-001	Para 59	1/13/2011
S- Ref 10164 - Provide a framework for ATC, TTC, and ETC calculation, developing industry-wide consistency of all ATC components. Three methodologies are expected: contract path ATC, network ATC, and network AFC.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1029	11/21/2008
S- Ref 10165 - ...direct that WECC in developing a permanent, replacement Reliability Standard, clarify the term receiver and the applicability of the standard.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 70	7/8/2009
S- Ref 10166 - ...direct WECC to address PPLs concerns in developing a permanent, replacement regional Reliability Standard.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 71	7/8/2009
S- Ref 10167 - ...expect that WECC, in developing a permanent, replacement regional Reliability Standard, will address the shortcomings identified by NERC.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 110	7/8/2009
S- Ref 10168 - ... direct the ERO to modify Reliability Standard MOD-001-0 to require disclosure of the algorithms and processes used in ATC calculation. In addition, consistent with Order No. 890, the Commission believes that further clarification is necessary regarding the ATC calculation algorithm for firm and non-firm ATC.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1036	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10169 - ...direct the ERO to modify MOD-001-0 to ensure that the following data, at a minimum, be exchanged among transmission providers for the purposes of ATC modeling: (1) load levels; (2) transmission planned and contingency outages; (3) generation planned and contingency outages; (4) base generation dispatch; (5) existing transmission reservations, including counterflows; (6) ATC recalculation frequency and times and (7) source/sink modeling identification.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1038	11/21/2008
S- Ref 10170 - Include a requirement that assumptions used in the ATC and AFC calculations should be consistent with those used for planning the expansion of or operation of the bulk power system.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1039	11/21/2008
S- Ref 10171 - ...direct the ERO to develop requirements in Reliability Standard MOD-001-0 that specify: (1) a consistent approach on how to simulate reservations from points of receipt to points of delivery when sources and sinks are unknown and (2) how to model existing reservations.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1042	11/21/2008
S- Ref 10172 - ...direct the ERO to develop AFC/TFC definitions and requirements used to identify a particular set of transmission facilities as flowgates.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1031	11/21/2008
S- Ref 10173 - ...direct the ERO to consider development of a requirement that the transmission service provider declare what type of contingencies it uses for specific calculations of ATC/AFC and TTC/TFC, and release the contingency files upon request if not submitted with the data filed with the ERO in compliance with MOD-010-0.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1046	11/21/2008
S- Ref 10174 - Focus of ATC/AFC with this standard; FAC-012-1 should focus on TTC/TFC.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1057	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10175 - Identify applicable entities in terms of users, owners, and operators of the bulk power system.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1056	11/21/2008
S- Ref 10176 - ...direct the ERO to develop AFC/TFC definitions and requirements used to identify a particular set of transmission facilities as flowgates.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1031	11/21/2008
S- Ref 10177 - ...direct the ERO to develop a consistent approach for determining the amount of transfer capability a transmission provider may set aside for its native load and other committed uses.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1032	11/21/2008
S- Ref 10178 - Accordingly, we find that reservations that have the same point of receipt (POR) (generator) but different point of delivery (POD) (load), for the same time frame, should not be modeled in the ETC calculation simultaneously if their combined reserved transmission capacity exceeds the generator’s nameplate capacity at a POR.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1033	11/21/2008
S- Ref 10179 - ...direct the ERO to modify MOD-001-0 to provide a framework for ATC, TTC and ETC calculation that, consistent with the discussion above: (1) requires industry-wide consistency of all ATC components and certain data inputs and exchange, modeling assumptions, calculation frequency, and coordination of data relevant for the calculation of ATC; (2) provides predictable and sufficiently accurate, consistent, equivalent, and replicable ATC calculations regardless of the methodology used by the region; (3) provides the definition of AFC and method for its conversion to ATC; (4) lays out clear instructions on how ETC should be defined and (5) identifies to whom MOD-001-0 Reliability Standards apply, i.e., users, owners and operators of the Bulk-Power System.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1034	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10181 - ...direct the ERO to modify Reliability Standard MOD-001-0 to require disclosure of the algorithms and processes used in ATC calculation, and also to implement the following principles for firm and non-firm ATC calculations: (1) for firm ATC calculations, the transmission provider shall account only for firm commitments and (2) for non-firm ATC calculations, the transmission provider shall account for both firm and non-firm commitments, postbacks of redirected service, unscheduled service and counterflows.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1036	11/21/2008
S- Ref 10182 - ...direct the ERO to develop consistent requirements for modeling load levels in MOD-001-0.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1040	11/21/2008
S- Ref 10183 - ...direct the ERO to revise Reliability Standard MOD-001-0 by specifying that base generation dispatch will model: (1) all designated network resources and other resources that are committed to or have the legal obligation to run, as they are expected to run and (2) all uncommitted resources that are deliverable within the control area, economically dispatched as necessary to meet balancing requirements.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1041	11/21/2008
S- Ref 10184 - ...direct the ERO to develop requirements in Reliability Standard MOD-001-0 that specify: (1) a consistent approach on how to simulate reservations from points of receipt to points of delivery when sources and sinks are unknown and (2) how to model existing reservations.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1042	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10185 - ...direct the ERO to modify Reliability Standard MOD-001-0 to require ATC to be updated by all transmission providers on a consistent time interval and in a manner that closely reflects the actual topology of the system, e.g., generation and transmission outages, load forecasts, interchange schedules, transmission reservations, facility ratings and other necessary data.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1043	11/21/2008
S- Ref 10186 - ...direct the ERO to develop in MOD-001-0 a requirement that each transmission service provider provide on OASIS its OATT Attachment C, in which Order No. 890 requires transmission providers to include a detailed description of the specific mathematical algorithm the transmission provider uses to calculate both firm and non-firm ATC for various time frames such as: (1) the scheduling horizon (same day and real-time), (2) operating horizon (day ahead and pre-schedule) and (3) planning horizon (beyond the operating horizon). In addition, a transmission provider must include a process flow diagram that describes the various steps that it takes in performing the ATC calculation.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1047	11/21/2008
S- Ref 10187 - ...direct public utilities, working through NERC, to develop an AFC definition and requirements used to identify a particular set of transmission facilities as a flowgate. However, we remind transmission providers that our regulations require the posting of ATC values associated with a particular path, not AFC values associated with a flowgate.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 211	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10188 - ...direct public utilities, working through NERC, to modify related ATC standards by implementing the following principles for firm and non-firm ATC calculations: (1) for firm ATC calculations, the transmission provider shall account only for firm commitments; and (2) for non-firm ATC calculations, the transmission provider shall account for both firm and non-firm commitments, postbacks of redirected services, unscheduled service, and counterflows.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 212	11/21/2008
S- Ref 10189 - With respect to a timeline for completion, the Commission concurs with NERC that a significant amount of work remains to be done on ATC-related reliability standards development.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 223	11/21/2008
S- Ref 10190 - The Commission adopts the NOPR proposal and directs public utilities, working through NERC, to develop consistent practices for calculating TTC/TFC. We direct public utilities, working through NERC, to address, through the reliability standards process, any differences in developing TTC/TFC for transmission provided under the pro forma OATT and for transfer capability for native load and reliability assessment studies.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 237	11/21/2008
S- Ref 10191 - ...direct public utilities, working through NERC and NAESB, to develop a consistent approach for determining the amount of transfer capability a transmission provider may set aside for its native load and other committed uses.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 243	11/21/2008



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10192 - ...determine that ETC should be defined to include committed uses of the transmission system, including (1) native load commitments (including network service), (2) grandfathered transmission rights, (3) appropriate point-to-point reservations,170 (4) rollover rights associated with long-term firm service, and (5) other uses identified through the NERC process. ETC should not be used to set aside transfer capability for any type of planning or contingency reserve, which are to be addressed through CBM and TRM.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 244	11/21/2008
S- Ref 10193 - ...direct public utilities, working through NERC, to develop requirements in MOD-001 that lay out clear instructions on how these reservations should be accounted.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 245	11/21/2008
S- Ref 10194 - We find that requiring consistency in the data and modeling assumptions used for ATC calculations will remedy the potential for undue discrimination by eliminating discretion and ensuring comparability in the manner in which a transmission provider operates and plans its system to serve native load and the manner in which it calculates ATC for service to third parties. The Commission directs public utilities, working through NERC, to modify ATC standards to achieve this consistency.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 292	11/21/2008
S- Ref 10195 - ...reiterate that public utilities, working through NERC and NAESB, are directed to develop an approach for accounting for counterflows, in the relevant ATC standards and business practices.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 293	11/21/2008
S- Ref 10196 - ...we direct public utilities, working through NERC, to develop consistent requirements for modeling load levels in MOD-001 for the services offered under the pro forma OATT.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 295	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10197 - ...direct public utilities, working through NERC, to revise reliability standard MOD-001 by specifying that base generation dispatch will model (1) all designated network resources and other resources that are committed or have the legal obligation to run, as they are expected to run and (2) uncommitted resources that are deliverable within the control area, economically dispatched as necessary to meet balancing requirements.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 296	11/21/2008
S- Ref 10198 - ...direct public utilities, working through NERC, to develop requirements in reliability standard MOD-001 that specify (1) a consistent approach on how to simulate reservations from points of receipt to points of delivery when sources and sinks are unknown and (2) how to model existing reservations.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 297	11/21/2008
S- Ref 10199 - ...direct public utilities, working through NERC and NAESB, to revise reliability standard MOD-001 to require ATC to be recalculated by all transmission providers on a consistent time interval and in a manner that closely reflects the actual topology of the system, e.g., generation and transmission outages, load forecast, interchange schedules, transmission reservations, facility ratings, and other necessary data.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 301	11/21/2008
S- Ref 10200 - ... direct public utilities, working through NERC, to revise the related MOD reliability standards to require the exchange of data and coordination among transmission providers and, working through NAESB, to develop complementary business practices.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 310	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10201 - ...We also acknowledge TVA’s comments that the NERC standards drafting team is developing standards that should address “double counting” in ATC calculations in general. However, we require that the information in Attachment C be sufficient to demonstrate that a transmission provider is not double counting CBM in its ATC calculation.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 338	11/21/2008
S- Ref 10202 - We affirm our statement in the NOPR proposal acknowledging that transfer capability associated with transmission reservations that are not scheduled in real time is required to be made available as non-firm, and posted on OASIS.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 389	11/21/2008
S- Ref 10204 - directs the ERO to modify the Reliability Standards so as to increase the document retention requirements to a term of five years, in order to be consistent with the enforcement provisions established in Order No. 670.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 129	2/10/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10206 - ...directs the ERO to develop a modification to the Reliability Standards pursuant to the EROs Reliability Standards development process to require disclosure of the various implementation documents to any registered entity who demonstrates to the ERO a reliability need for such information.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 151	2/10/2014
S- Ref 10207 - ...consider generator nameplate ratings and transmission line ratings including the comments raised by Entegra and ISO/RTO Council.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	Order No. 788 RM13-8-000	Para 160	2013 N/A - Withdrawn by FERC Order No. 788

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10208 - ...directs the ERO to develop benchmarking and updating requirements to measure modeled available transfer and flowgate capabilities against actual values.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 162	2/10/2014
S- Ref 10209 - ...directs the ERO, pursuant to section 215(d)(5) of the FPA and section 39.5(f) of our regulations, to develop a modification to MOD-028-1 and MOD-029-1 to specify that base generation schedules used in the calculation of available transfer capability will reflect the modeling of all designated network resources and other resources that are committed to or have the legal obligation to run, as they are expected to run, and to address the effect on available transfer capability of designating and undesignating a network resource.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 173	2/10/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10211 - ...directs the ERO to consider Entegras request regarding more frequent updates for constrained facilities through its Reliability Standards development process (see paragraph 177 of Order 729 for Entegra's comments).	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	Order No. 788 RM13-8-000	Para 179	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10212 - ...directs the ERO to develop modifications to MOD-001-1 and MOD-030-2 to clarify that material changes in system conditions will trigger an update whenever practical (see also paragraph 23 of Order 729-A).	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 179 Sen 5	2/10/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10214 - ...directs the ERO to develop modifications to MOD-001-1 pursuant to the EROs Reliability Standards development process to prevent the double-counting of data inputs and assumptions.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 184	2/10/2014
S- Ref 10215 - ...directs the ERO to develop a modification to the Reliability Standard pursuant to its Reliability Standards development process requiring transmission service providers to include in their implementation documents any inconsistent modeling practices along with a justification for such inconsistencies"	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 192	2/10/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10216 - ...encourage the ERO to consider Midwest ISOs and Entegras comments when developing other modifications to the MOD Reliability Standards pursuant to the EROs Reliability Standards development procedure.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	Order No. 788 RM13-8-000	Para 200	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10217 - ...direct the ERO to develop a modification to Requirements R3.1 and R.4.1 of MOD-004-1 to require load-serving entities and resource planners to determine generation capability import requirements by reference to one or more relevant studies (loss of load expectation, loss of load probability or deterministic risk analysis) and applicable reserve margin or resource adequacy requirements, as relevant.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 220	2/10/2014



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10218 - ...direct the ERO to modify MOD-004-1 to clarify the term manage in Requirement R1.3. This modification should ensure that the Reliability Standard clarify how the transmission service provider will manage situations where the requested use of capacity benefit margin exceeds the capacity benefit margin available.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 222	2/10/2014
S- Ref 10219 - ...direct the ERO to develop a modification sub-requirement R2.2 pursuant to its Reliability Standards development process to clarify the phrase adjacent and beyond Reliability Coordination areas.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	Order No. 788 RM13-8-000	Para 231	2013 N/A - Withdrawn by FERC Order No. 788

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10220 - The Commission agrees that a graduated time frame for reposting could be reasonable in some situations. Accordingly, the ERO should consider this suggestion when making future modifications to the Reliability Standards.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	Order No. 788 RM13-8-000	Para 234	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10221 - ...direct the ERO to develop a modification to MOD-028-1 pursuant to its Reliability Standards development process to address these two concerns.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 237	2/10/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10222 -...consider Puget Sound’s concerns on this issue when making future modifications to the Reliability Standards.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	Order No. 788 RM13-8-000	Para 246	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10223 - ...direct the ERO to make explicit such [effective date] detail in any future version of this or any other Reliability Standard.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	Order No. 788 RM13-8-000	Para 269	2013 N/A - Withdrawn by FERC Order No. 788

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10224 - ...direct the ERO to file revised violation severity levels and violation risk factors no later than 120 days before the Reliability Standards become effective.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 274	12/1/2010
S- Ref 10226 - ...direct the ERO to develop a modification to the definition of Postback to eliminate the reference to Business Practices.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 304	2/10/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10227 - ...direct the ERO to develop a modification to the definition of Business Practices that would remove the reference to regional reliability organizations and replace it with the term Regional Entity.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 305	2/10/2014
S- Ref 10229 - ...direct the ERO to develop a modification to the definition of ATC Path that does not reference the Commissions regulations.	Mandatory Reliability Standards for the Calculation of Available Transfer Capability, Capacity Benefit Margins, Transmission Reliability Margins, Total Transfer Capability, and Existing Transmission Commitments and Mandatory Reliability Standards for the BPS	11/24/2009	Order 729	RM08-19-000	Para 306	2/10/2014
S- Ref 10230 - ...direct the ERO to consider APPA’s suggestion that MOD-003-0 may be redundant and should be eliminated if the ERO develops a modification to the MOD-001-0 Reliability Standard through the Reliability Standards development process that includes reporting requirements.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1066	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10231 - Clarify that CBM shall be set aside upon request of any LSE within a balancing area to meet its verifiable historical, state, RTO, or regional generation reliability criteria.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1077	11/21/2008
S- Ref 10232 - ...direct the ERO to develop Requirements regarding transparency of the generation planning studies used to determine CBM values.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1077	11/21/2008
S- Ref 10233 - Make clear the process for how CBM is allocated across transmission paths or flowgates.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1082	11/21/2008
S- Ref 10234 - We share TAPS’s concern that there is a significant potential for abuse as a result of the current flexibility afforded to transmission providers in the calculation of both CBM and TRM. In response to TAPS’s concern, we clarify that in accordance with the OATT Reform Final Rule and the ERO CBM definition, each LSE has the right to request CBM be set aside and use it to meet its verifiable historical, state, RTO or regional generation reliability criteria requirement such as reserve margin, loss of load probability, loss of largest units, etc. As such, the LSEs that request CBM be set aside must be identified as applicable entities with identified Requirements, including Requirements on generation studies to verify the set aside, Measures and Levels of Non-Compliance. We direct the ERO to modify the Reliability Standard accordingly.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1080	11/21/2008
S- Ref 10235 - ...believe this Reliability Standard should be modified to include a provision ensuring that CBM, TRM and ETC cannot be used for the same purpose, such as loss of the identical generating unit.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1079	11/21/2008
S- Ref 10236 - Coordinate with NAESB business practices.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1081	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10237 - Consider APPAs suggestion that MOD-004 may be redundant and could be eliminated if MOD-002 is modified to include reporting requirements.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1083	11/21/2008
S- Ref 10238 - ...direct the ERO to provide more specific requirements for how CBM should be determined and allocated across transmission paths or flowgates.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1078	11/21/2008
S- Ref 10239 - The Commission concludes that it is appropriate to allow LSEs to retain the option of setting aside transfer capability in the form of CBM to maintain their generation reliability requirement. We agree with commenters that, without CBM, LSEs would have to increase their generation reserve margins by contracting for generation capacity, which may result in higher costs without additional reliability benefits. We require, however, the development of standards for how CBM is determined, allocated across transmission paths, and used in order to limit misuse of transfer capability set aside as CBM. Transmission providers also must reflect the set-aside of transfer capability as CBM in the development of the rate for point-to-point transmission service to ensure comparable treatment for point-to-point to customers.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 256	11/21/2008
S- Ref 10240 - ...expect verification of the CBM values to be part of the Requirements with appropriate Measures and Levels of Non-Compliance.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1077	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10241 - The Commission therefore adopts a combination of the NOPR options one and two, and declines to adopt option three. First, we require public utilities, working through NERC and NAESB, to develop clear standards for how the CBM value shall be determined, allocated across transmission paths, and used. We understand that NERC has already begun the process of modifying several of the CBM-related reliability standards and that the drafting process is a joint project with NAESB. Second, we require transmission providers to reflect the set-aside of transfer capability as CBM in the development of the rate for point-to-point transmission service.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 257	11/21/2008
S- Ref 10242 - To ensure CBM is used for its intended purpose, CBM shall only be used to allow an LSE to meet its generation reliability criteria. Consistent with Duke’s statement, we clarify that each LSE within a transmission provider’s control area has the right to request the transmission provider to set aside transfer capability as CBM for the LSE to meet its historical, state, RTO, or regional generation reliability criteria requirement such as reserve margin, loss of load probability (LOLP), the loss of largest units, etc.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 259	11/21/2008
S- Ref 10243 - ...direct public utilities, working through NERC, to develop clear requirements for allocating CBM over transmission paths and flowgates.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 260	11/21/2008
S- Ref 10244 - We concur with TAPS proposal that all LSEs should have access to CBM and meaningful input into how much transfer capability is set aside as CBM.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 261	11/21/2008



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10245 - ...direct public utilities working through NERC to modify the CBM-related standards to specify the generation deficiency conditions during which an LSE will be allowed to use the transfer capability reserved as CBM.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 262	11/21/2008
S- Ref 10246 - The Commission also adopts the NOPR proposal to establish standards specifying the appropriate uses of TRM to guide NERC and NAESB in the drafting process.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 273	11/21/2008
S- Ref 10247 - We concur with TAPS' proposal that all LSEs should have access to CBM and meaningful input into how much transfer capability is set aside as CBM.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 354	11/21/2008
S- Ref 10248 - The Commission incorporates into its regulations the requirement in the CBM Order for a transmission provider to periodically reevaluate its transfer capability set aside for CBM. With respect to TAPS' concerns over the effort involved in the reevaluation process, we will require CBM studies to be performed at least every year. This requirement is consistent with the CBM Order, in which the Commission stated that the level of ATC set aside for CBM should be reevaluated periodically to take into account more certain information (such as assumptions that may not have, in fact, materialized).	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 358	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10249 - While changes requiring a reevaluation of CBM are longer-term in nature (e.g., installation of a new generator or a long-term outage), quarterly may be too frequent, though two years may be too long and may prevent a portion of the CBM set-aside from being released as ATC. Moreover, annual reevaluation is consistent with the current NERC standard being developed in MOD-005. The requirement to evaluate CBM at least every year also is consistent with the CBM Order in that the Commission directed transmission providers to periodically reevaluate their generation reliability needs so as to make known the need for CBM and to post on OASIS their practices in this regard.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 358	11/21/2008
S- Ref 10250 - Consider APPAs comment to incorporate MOD-004 and MOD-005 into MOD-006 through the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1088	11/21/2008
S- Ref 10251 - ...direct the ERO to modify its standard to prevent use of CBM and TRM for the same purposes.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1098	11/21/2008
S- Ref 10252 - ...direct the ERO to modify Requirement R1.2 so that a transmission constraint is not a required condition for CBM usage.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1099	11/21/2008
S- Ref 10253 - ...direct the ERO to modify the Reliability Standard to include a specific energy emergency alert level that will trigger CBM usage.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1100	11/21/2008
S- Ref 10254 - We also reiterate the direction in Order No. 890 that CBM should have a zero value in the calculation of non-firm ATC because non-firm service may be curtailed so that CBM can be used.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1101	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10255 - We also adopt the NOPR proposal to require the applicability section to include the entities that actually use CBM, such as LSEs...direct the ERO to modify the standard accordingly.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1103	11/21/2008
S- Ref 10256 - ...direct that CBM may be implemented up to the reserved value when a LSE is facing firm load curtailments.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1101	11/21/2008
S- Ref 10257 - We adopt the NOPR proposal that CBM should be used only when the LSEs local generation capacity is insufficient to meet balancing Reliability Standards, with the clarification that the local generation is that generation capacity that is either owned or contracted for by the LSE.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1102	11/21/2008
S- Ref 10258 - ...direct the ERO to modify the standard to include the entities that actually use CBM, such as LSEs.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1110	11/21/2008
S- Ref 10259 - ...direct the ERO to include balancing authorities within the entities to which this standard is applicable.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1110	11/21/2008
S- Ref 10260 - ...directs the ERO to modify standard MOD-008-0 to clarify how TRM should be calculated and allocated across paths or flowgates.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1122	11/21/2008
S- Ref 10261 - ...directs the ERO to specify the parameters for entities to use in determining uncertainties for which TRM can be set aside	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1122	11/21/2008
S- Ref 10262 - ...direct the ERO to develop requirements regarding transparency of the documentation that supports TRM determination.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1123	11/21/2008
S- Ref 10263 - ...should revise the applicability section of this standard to add planning authorities and reliability coordinators, and in addition, any other entities that may be identified in the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1124	11/21/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10264 - The Commission adopts the NOPR proposal and requires public utilities, working through NERC, to complete the ongoing process of modifying TRM standards MOD-008 and MOD-009.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 272	11/21/2008
S- Ref 10265 - ...direct public utilities, working through NERC, to establish an appropriate maximum TRM.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 275	11/21/2008
S- Ref 10266 - ... direct the ERO to use its authority pursuant to § 39.2(d) of our regulations to require users, owners and operators to provide to the Regional Entity the information related to data gathering, data maintenance, reliability assessments and other process-type functions.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1147	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10267 - ...direct the ERO to modify MOD-010-0 to require filing of all of the contingencies that are used in performing steady-state system operation and planning studies.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1148	2/25/2014
S- Ref 10268 - ...direct the ERO to address confidentiality issues and modify the Reliability Standard as necessary through its Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1152	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10269 - ...direct the ERO to modify MOD-010-0 to include transmission operators as an applicable entity.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1154	2/25/2014
S- Ref 10270 - ...direct the ERO to develop a Work Plan that will facilitate ongoing collection of the steady-state modeling and simulation data specified in MOD-011-0.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1163	2013 N/A - Withdrawn by FERC Order No. 788

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10271 - We adopt our NOPR proposal that the planning authority should be included in this Reliability Standard because the planning authority is the entity responsible for the coordination and integration of transmission facilities and resource plans, as well as one of the entities responsible for the integrity and consistency of the data.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1155	2/25/2014
S- Ref 10272 - ...directs public utilities, working through NERC, to modify the reliability standards MOD-010 through MOD-025 to incorporate a requirement for the periodic review and modification of models for (1) load flow base cases with contingency, subsystem, and monitoring files, (2) short circuit data, and (3) transient and dynamic stability simulation data, in order to ensure that they are up to date.	Preventing Undue Discrimination and Preference in Transmission Service	2/16/2007	Order 890	RM05-17-000 and RM05-25-000	Para 290	2/25/2014
S- Ref 10273 - ...direct the ERO to add the planning authority to the applicability section of this Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1162	2/25/2014
S- Ref 10274 - Develop a work plan and submit a compliance filing that will facilitate the ongoing collection of the steady-state modeling and simulation data specified in this standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1163	Resolved 1/1/2012
S- Ref 10275 - ...direct the ERO to use its authority pursuant to § 39.2(d) of our regulations to require users, owners and operators to provide to the Regional Entities the information related to data gathering, data maintenance, reliability assessments and other process type functions.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1177	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10276 - ...direct the ERO to modify MOD-012-0 by adding a new requirement to provide a list of the faults and disturbances used in performing dynamics system studies for system operation and planning.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1178	2/25/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10277 - ...direct the ERO to address confidentiality issues and modify the standard as necessary through its Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1181	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10278 - ...direct the ERO to modify MOD-012-0 to require the transmission planner to provide fault and disturbance lists.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1183	2/25/2014
S- Ref 10279 - As we will discuss in the next section on MOD-013-1, we require the ERO to develop a Work Plan and submit a compliance filing that will facilitate ongoing collection of the dynamics system modeling and simulation data specified by the deferred MOD-013-1 Reliability Standard, which is necessary for implementation of MOD-012-0.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1177	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10280 - ...direct the ERO to modify the Reliability Standard to permit entities to estimate dynamics data if they are unable to obtain unit specific data for any reason, not just for units constructed prior to 1990.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1197	2/25/2014
S- Ref 10281 - ...directs that this Reliability Standard be modified to require that the results of these dynamics models be compared with actual disturbance data to verify the accuracy of the models.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1197	2/25/2014
S- Ref 10282 - ...directs the ERO to expand the applicability section in MOD-013-1 to include planning authorities because they are the entities responsible for the coordination and integration of transmission facilities and resource plans.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1199	2/25/2014
S- Ref 10283 - Develop a work plan and submit a compliance filing that will facilitate the ongoing collection of the dynamics modeling and simulation data specified in this standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1200	2013 N/A - Withdrawn by FERC Order No. 788

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10284 - ...direct the ERO to add the planning authority to the list of applicable entities.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1184	2/25/2014
S- Ref 10286 - ...direct the ERO to modify the Reliability Standard to include a requirement that the models be validated against actual system responses.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1210	2/25/2014
S- Ref 10287 - ...direct the ERO to modify MOD-014-0 through the Reliability Standards development process to require that actual system events be simulated and if the model output is not within the accuracy required, the model shall be modified to achieve the necessary accuracy.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1211	2/25/2014
S- Ref 10288 - ...direct the ERO to use its authority pursuant to § 39.2(d) of our regulations to require users, owners and operators to provide the validated models to regional reliability organizations.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1212	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10289 - ...direct the ERO to develop a Work Plan that will facilitate ongoing validation of steady-state models and submit a compliance filing containing the Work Plan with the Commission.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1212	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10290 - ...direct the ERO to modify the standard to require actual system events be simulated and dynamics system model output be validated against actual system responses.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1220	2/25/2014
S- Ref 10291 - ...direct the ERO to require users, owners and operators to provide to the Regional Entity the validated dynamics system models while MOD-015-0 is being modified.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1221	2013 N/A - Withdrawn by FERC Order No. 788

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10292 - ...develop a work plan that will facilitate ongoing validation of dynamics models and submit a compliance filing to the Commission.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1221	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10293 - ...direct the ERO to add to its definition of DSM “any other entities” that undertake activities or programs to influence the amount or timing of electricity they use without violating other Reliability Standard Requirement.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1232	5/13/2014
S- Ref 10294 - ...directs the ERO to modify MOD-016-1 and expand the applicability section to include the transmission planner, on the basis that under the NERC Functional Model the transmission planner is responsible for collecting system modeling data, including actual and forecast load, to evaluate transmission expansion plans.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1232	5/13/2014
S- Ref 10295 - ...directs the ERO to modify the Reliability Standard to require reporting of temperature and humidity along with peak load because actual load must be weather normalized for meaningful comparison with forecasted values.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1249	5/13/2014
S- Ref 10296 - ...direct the ERO to modify the Reliability Standard to require reporting of the accuracy, error and bias of load forecasts compared to actual loads with due regard to temperature and humidity variations.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1251	5/13/2014
S- Ref 10297 - ...direct the ERO to add a Requirement that addresses correcting forecasts based on prior inaccuracies, errors and bias.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1252	5/13/2014
S- Ref 10298 - Expand the applicability of MOD-017 to include transmission planners.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1255	5/13/2014



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10299 - ...direct the ERO to provide a Work Plan and compliance filing regarding the collection of information specified under standards that are deferred, and believe there should be no difficulty complying with this Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1247	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10300 - We agree, however, with APPA that certain types of load are not sensitive to temperature and humidity. We therefore find that the ERO should address Alcoa's concerns in its Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1250	5/13/2014
S- Ref 10302 - ...directs the ERO to consider MISOs concerns in the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1256 Sen 3	5/13/2014
S- Ref 10303 - ...direct the ERO to provide a Work Plan and compliance filing regarding the collection of information specified for standards that are deferred, and believe there should be no difficulties complying with this Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1264	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10304 - Regarding TAPs concern that small entities should not be required to comply with MOD-018-0 because their forecasts are not significant for system reliability purposes, the Commission directs the ERO to address this matter in the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1265	5/13/2014
S- Ref 10305 - Require users, owners, and operators to provide to the regional entity information related to forecasts of interruptible demands and direct control load management.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1275	2013 N/A - Withdrawn by FERC Order No. 788

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10306 - Require reporting of the accuracy, error, bias of controllable load forecasts. The Commission adopts the NOPR proposal directing the ERO to modify this standard to require reporting of the accuracy, error and bias of controllable load forecasts.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1276	5/13/2014
S- Ref 10307 - ...direct the ERO to include APPAs proposal in the Reliability Standards development process to add a new requirement to MOD-019-0 that would oblige resource planners to analyze differences between actual and forecasted demands for the five years of actual controllable load and identify what corrective actions should be taken to improve controllable load forecasting for the 10-year planning horizon.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1277	5/13/2014
S- Ref 10308 - ...directs the ERO to develop a modification to MOD-020-0 through the Reliability Standards development process to require reporting of the accuracy, error and bias of controllable load forecasts.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1287	5/13/2014
S- Ref 10309 - ...direct the ERO to provide a Work Plan and compliance filing regarding collection of information specified under related standards that are deferred, and believe there should be no difficulty complying with this Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1297	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10310 - ...direct the ERO to modify this Reliability Standard to allow resource planners to analyze the causes of differences between actual and forecasted demands, and to identify any corrective actions that should be taken to improve forecasted demand responses for future forecasts. Therefore, we adopt the NOPR proposal and direct the ERO to modify MOD-021-0 by adding a requirement for standardization of principles on reporting and validating DSM program information.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1298	5/13/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10311 - ...direct the ERO to modify this Reliability Standard to allow resource planners to analyze the causes of differences between actual and forecasted demands, and to identify any corrective actions that should be taken to improve forecasted demand responses for future forecasts. Therefore, we adopt the NOPR proposal and direct the ERO to modify MOD-021-0 by adding a requirement for standardization of principles on reporting and validating DSM program information.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1298	5/13/2014
S- Ref 10312 - ...directs the ERO to modify the title and purpose statement to remove the word controllable.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1300	9/9/2010
S- Ref 10313 - ...direct the ERO to use its authority pursuant to 39.2(d) of our regulations to require users, owners and operators to provide to the Regional Entity the information required by this Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1297	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10314 - ...direct the ERO to use its authority pursuant to § 39.2(d) of our regulations to require users, owners and operators to provide this information.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1312	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10315 - Document test conditions and the relationships between test conditions and generator output so that the amount of power that can be expected to be delivered from a generator at different conditions can be determined.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1310	5/30/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10316 - Clarify requirement R2 that specifies that the regional reliability organization shall provide generator gross and net real power capability verification within 30 calendar days of approval. The confusion centers on approval and when the 30-day period starts. Therefore, we direct the ERO to modify this Reliability Standard by adding information that will clarify this requirement.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1311	5/30/2013
S- Ref 10317 - Provide a work plan and compliance filing regarding the collection of information specified for standards that are deferred.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1308	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10318 - Similarly, we respond to Constellation that any modification of the Levels of Non-Compliance in this Reliability Standard should be reviewed in the ERO Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1310	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10319 - Require verification of reactive power capability at multiple points over a units operating range.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1321	11/21/2013
S- Ref 10320 - We maintain the concern we expressed in the NOPR that Requirement R2 provides that the “regional reliability organization shall provide generator gross and net reactive power capability verification within 30 calendar days of approval” and note that it is not clear what approval is required and when the 30-day period starts. We direct the ERO to provide clarification on this requirement.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1322	5/30/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10321 - The Commission will not approve or remand MOD-025-1 until the ERO submits additional information. In order to continue verifying and reporting gross and net reactive power generating capability needed for reliability assessment and future plans, we direct the ERO to develop a Work Plan as defined in the Common Issues section.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1320	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10322 - Clearly, in a region where an RTO or ISO performs the transmission operator function, its personnel with primary responsibility for real-time operations must receive formal training pursuant to PER-002-0. In addition, personnel who are responsible for implementing instructions at a local control center also affect the reliability of the Bulk Power System. These entities may take independent action under certain circumstances, for example, to protect assets, personnel safety and during system restorations. Whether the RTO or the local control center is ultimately responsible for compliance is a separate issue addressed above, but regardless of which entity registers for that responsibility, these local control center employees must receive formal training consistent with their roles, responsibilities and tasks. Thus, while we direct the ERO to develop modifications to PER-002-0 to include formal training for local control center personnel, that training should be tailored to the needs of the positions.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1343	9/30/2009
S- Ref 10323 - ...directs the ERO to develop a modification to PER-002-0 that extends applicability to the operations planning and operations support staff of transmission operators and balancing authorities, as clarified below.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1372	3/7/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10324 - ...direct that the ERO develop a modification to PER-002-2 (or a new Reliability Standard) that uses the SAT methodology.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1382	9/30/2009
S- Ref 10326 - ... directs the ERO to explore the feasibility of developing meaningful performance metrics for assessing the effectiveness of training programs, and if feasible, to develop such metrics for the Reliability Standard as part of the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1379	9/30/2009
S- Ref 10327 - ...direct the ERO to consider, through the Reliability Standards development process, whether personnel that perform these additional functions should be included in mandatory training pursuant to PER-002-0.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1373	3/7/2014
S- Ref 10328 - Consider FirstEnergy's comments regarding the nuclear plant operators training program as part of the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1364	9/30/2009
S- Ref 10329 - Training programs for operations planning and operations support staff must be tailored to the needs of the function, the tasks performed and personnel involved.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1375	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10330 - ...direct the ERO to develop specific Requirements addressing the scope, content and duration appropriate for generator operator.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1363	3/7/2014
S- Ref 10331 - This does not mean that these entities must develop and maintain full-scale simulators but rather they should have access to training on simulators... Accordingly, the Commission directs the ERO to develop a requirement for the use of simulators dependent on the entity's role and size, as discussed above.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1391	9/30/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10332 - ...many commenters acknowledged the need to have clear training expectations and training programs tailored to specific job functions. The Commission finds that these two modifications will enhance the training by focusing on expectations and tailoring the training to specific job functions; therefore, the Commission adopts these modifications to the Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1392	9/30/2009
S- Ref 10333 - ...direct the ERO to specify the minimum competencies that must be demonstrated to become and remain a certified operator.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1408	4/29/2011
S- Ref 10334 - ...direct the ERO to consider grandfathering certification requirements for these personnel so that the industry can retain the knowledge and skill of these long tenured operators.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1407	4/29/2011
S- Ref 10335 - The Commission finds that these modifications will improve the Reliability Standard because they include training requirements for the reliability coordinator who has the highest level of authority to assure Reliable Operation of the Bulk-Power System. Accordingly, the Commission directs the ERO to develop modifications to the Reliability Standard that address these matters.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1415	9/30/2009
S- Ref 10336 - Consider the suggestions of FirstEnergy and Xcel as part of the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1417	9/30/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10337 - ... directs the ERO to develop a modification through the Reliability Standards development process to PER-004-1 that: (1) includes formal training requirements for reliability coordinators similar to those addressed under the personnel training Reliability Standard PER-002-0 and (2) includes requirements pertaining to personnel credentials for reliability coordinators similar to those in PER-003-0.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1417 Sen 3 Item 2	4/29/2011
S- Ref 10338 - With regard to APPAs comments, consistent with our discussion above regarding Measures and Levels of Non-Compliance, we leave it to the discretion of the ERO whether it is necessary that each Requirement of this Reliability Standard have a corresponding Measure.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1416 Sen 1	4/29/2011
S- Ref 10339 - ...direct the ERO to clarify the term “corrective action” consistent with this discussion when it modifies PRC-001-1 in the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1441	9/2/2016
S- Ref 10340 - ...direct the ERO to consider FirstEnergy and California PUC’s comments about the maximum time for corrective action in the ERO Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1444	9/2/2016
S- Ref 10341 - Upon detection of failures in relays or protection system elements on the bulk power system that threaten reliability, relevant transmission operators must be informed promptly, but within a specified period of time. A requirement that transmission and generator operators be informed immediately upon the detection of failures in relays or protection system elements on the Bulk-Power System that would threaten reliable operation, so that these entities could carry out appropriate corrective control actions consistent with those used in mitigating IROL violations.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1445 (See also Para 1420- 1445)	9/2/2016



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10342 - ...direct the ERO, in the Reliability Standards development process, to determine the appropriate amount of time after the detection of relay failures, in which relevant transmission operators must be informed of such failures.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1445	9/2/2016
S- Ref 10343 - Once informed, transmission operators must carry out corrective control actions that return the system to a stable state that respects system requirements as soon as possible and no longer than 30 minutes.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1449	9/2/2016
S- Ref 10344 - We agree with APPA that the added Measures and Levels of Non-Compliance incorrectly reference non-existent requirements. We direct the ERO to revise the references accordingly.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1446	9/2/2016
S- Ref 10345 - ...direct the ERO to consider APPA, Alcoa and Otter Tail's suggestions in the Reliability Standards development process as it modifies PRC-002-1 to provide missing information needed for the Commission to act on this Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1456	12/15/2014
S- Ref 10346 - ...direct the ERO to consider APPA's suggestions in the Reliability Standards development process as it modifies PRC-003-1 to provide missing information needed for the Commission to act on this Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1461	9/15/2014
S- Ref 10347 - WECC will address the shortcomings identified by NERC in developing a permanent, replacement regional Reliability Standard.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 78	2/9/2009
S- Ref 10348 - The Commission agrees with the shortcomings identified by NERC regarding WECC-PRC-STD-003-1 and expects WECC in developing a permanent, replacement standard to address these shortcomings as it has committed to do.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 89	2/9/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10349 - Consider ISO-NEs suggestion that LSEs and transmission operators should be listed as applicable entities.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1469	9/15/2014
S- Ref 10350 - The Regional Entity should develop procedures for corrective action plans.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1469	9/9/2010
S- Ref 10351 - ...direct the ERO to develop a modification to PRC-005-1 through the Reliability Standards development process that includes a requirement that maintenance and testing of a protection system must be carried out within a maximum allowable interval that is appropriate to the type of the protection system and its impact on the reliability of the Bulk-Power System.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1475	2/26/2013
S- Ref 10352 - ...direct the ERO to consider FirstEnergy's and ISO-NE's suggestion to combine PRC-005-1, PRC-008-0, PRC-011-0 and PRC-017-0 into a single Reliability Standard through the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1475	2/26/2013
S- Ref 10353 - The Commission expects that this function will pass from the regional reliability organization to the Regional Entity after they are approved.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1480	3/31/2011
S- Ref 10354 - The Commission agrees with NERCs concerns regarding the format and content of WECC-PRC-STD-005-1 and expects WECC, in developing a permanent, replacement standard, to address these concerns, including but not limited to inclusion of all relevant documents.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 98	2/9/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10355 - ...direct the ERO to develop a modification to PRC-008-0 through the Reliability Standards development process that includes a requirement that maintenance and testing of a protection system must be carried out within a maximum allowable interval that is appropriate to the type of the protection system and its impact on the reliability of the Bulk-Power System.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1492	2/26/2013
S- Ref 10356 - ...direct the ERO to develop a modification to PRC-010-0 through the Reliability Standards development process that requires that an integrated and coordinated approach be included in all protection systems on the Bulk-Power System, including generators and transmission lines, generators' low voltage ride-through capabilities, and UFLS and UVLS programs.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1509	12/15/2014
S- Ref 10358 - ...direct the ERO to submit a modification to PRC-011-0 through the Reliability Standards development process that includes a requirement that maintenance and testing of a protection system must be carried out within a maximum allowable interval that is appropriate to the type of the protection system and its impact on the reliability of the Bulk-Power System.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1516	2/26/2013
S- Ref 10359 - Consider APPAs suggestions for interconnection-wide consistency in the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1520	3/5/2013
S- Ref 10360 - Consider APPAs suggestions for interconnection-wide consistency in the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1524	2/25/2014
S- Ref 10361 - Consider APPAs suggestions for interconnection-wide consistency in the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1528	3/5/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10362 - ... direct the ERO to develop a modification to PRC-017-0 through the Reliability Standards development process, that includes: (1) a requirement that maintenance and testing of a protection system must be carried out within a maximum allowable interval that is appropriate for the type of the protection system...	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1546	2/26/2013
S- Ref 10363 - ...direct the ERO to develop a modification to PRC-017-0 through the Reliability Standards development process, that includes: ... (2) a requirement that documentation identified in Requirement R2 shall be routinely provided to the ERO or Regional Entity.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1546	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10364 - ...direct the ERO to consider FirstEnergy’s suggestion in the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1566	12/15/2014
S- Ref 10365 - ...direct the ERO to modify the Reliability Standard to explicitly require either that all generators are capable of riding through the same set of Category B and C contingencies, as required by wind generators in Order No. 661, or that those generators that cannot ride through be simulated as tripping.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1787	5/30/2013
S- Ref 10366 - Consider Santa Clara's comments on requirements R7.2 and R7.3 on transmission operator notification requirements as part of the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1588	3/18/2015  First: 4/16/2013
S- Ref 10367 - ...directs the ERO to provide Measures and Level of Non-Compliance for this Requirement	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1580	3/18/2015  First: 4/16/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10368 - The definition of “emergency” could be further clarified. We discuss this issue in this Final Rule in connection with Reliability Standard EOP-001-0 and conclude that emergency states need to be defined and that criteria for entering these states and authority for declaring them need to be specified.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1585	3/18/2015 First: 4/16/2013
S- Ref 10369 - ...direct the ERO to modify Reliability Standard TOP-002-2 to require the next-day analysis for all IROs to identify and communicate control actions to system operators that can be implemented within 30 minutes following a contingency to return the system to a reliable operating state and prevent cascading outages.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1601 Sen 8	3/18/2015 First: 4/16/2013
S- Ref 10370 - Requires next-day analysis of minimum voltages at nuclear power plants auxiliary power buses.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1603; Para 1598	3/18/2015 First: 4/16/2013
S- Ref 10371 - Requires simulation contingencies to match what will actually happen in the field.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1608 Sen 4 Item 4	3/18/2015 First: 4/16/2013
S- Ref 10372 - Consider the comments of ISO-NE and the NRC with respect to requirement R12 and measure M7 as part of the standard development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1607; Para 1597	3/18/2015 First: 4/16/2013
S- Ref 10373 - Address critical energy infrastructure confidentiality as part of the routine standard development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1600	3/18/2015 First: 4/16/2013
S- Ref 10374 - Inform the nuclear plant operator in real-time if the auxiliary power bus voltages cannot be maintained.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1603	3/18/2015 First: 4/16/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10375 - Commenters did not take issue with the proposed interpretation of the term deliverability as the ability to deliver the output from generation resources to firm load without any reliability criteria violations for plausible generation dispatches. The Commission adopts this proposed interpretation. In order to ensure the necessary clarity, the term as used in Requirement R7 of TOP-002-2 should be understood in this manner.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1606	3/18/2015 First: 4/16/2013
S- Ref 10376 - ...directs the ERO to develop a modification to TOP-003-0 that requires the communication of scheduled outages to all affected entities well in advance to ensure reliability and accuracy of ATC calculations.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1620	3/18/2015 First: 4/16/2013
S- Ref 10377 - ...direct the ERO to modify the Reliability Standard to incorporate an appropriate lead time for planned outages.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1621	3/18/2015 First: 4/16/2013
S- Ref 10378 - Consider TVAs suggestion for including breaker outages within the meaning of facilities that are subject to advance notice for planned outages.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1622	3/18/2015 First: 4/16/2013
S- Ref 10379 - ...direct the ERO to modify the Reliability Standard to require that any facility below the thresholds that, in the opinion of the transmission operator, balancing authority, or reliability coordinator will have a direct impact on the reliability of the Bulk-Power System be subject to Requirement R1 for planned outage coordination.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1624	3/18/2015 First: 4/16/2013
S- Ref 10380 - ...direct that the ERO develop a modification to Requirement R4 providing that the system should be restored to respect proven reliable power system limits as soon as possible and in no longer than 30 minutes.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1636	3/18/2015 First: 4/16/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10381 - ...direct the ERO to develop a modification to the Reliability Standard that explicitly incorporates this interpretation with the details identified in the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1638	3/18/2015 First: 4/16/2013
S- Ref 10382 - ...direct the ERO to consider Santa Clara’s suggestion regarding changes to Requirement R2 in the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1639	3/18/2015 First: 4/16/2013
S- Ref 10383 - ...direct the ERO to conduct a survey on the operating practices and actual experiences surrounding drifting in and out of IROL violations.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1637	3/18/2015 First: 4/16/2013 and Oct 2008
S- Ref 10384 - ...direct the ERO to develop a modification to TOP-005-1 through the Reliability Standards development process regarding the operational status of special protection systems and power system stabilizers in Attachment 1.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1648	3/18/2015 First: 4/16/2013
S- Ref 10386 - Consider FirstEnergy's modifications to Attachment 1 and ISO-NEs recommended revision to requirement R4 in the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1650	3/18/2015 First: 4/16/2013
S- Ref 10387 - Add requirement related to the provision of minimum capabilities that are necessary to enable operators to deal with real-time situations and to ensure reliable operation of the bulk power system.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1660	5/26/2016
S- Ref 10388 - Clarify the meaning of appropriate technical information concerning protective relays.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1663; Para 1665	3/18/2015 First: 4/16/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10389 - The ERO should consider APPA's comment regarding the missing Measures in the ERO's Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1664	3/18/2015 First: 4/16/2013
S- Ref 10391 - ...direct the ERO to consider NRC's comments in the Reliability Standards development process when addressing TOP-007-0 as part of its Work Plan.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1673	3/18/2015 First: 4/16/2013
S- Ref 10392 - The ERO should consider APPA's comment regarding the missing Measures in the ERO's Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1681	3/18/2015 First: 4/16/2013
S- Ref 10393 - ...direct the ERO to consider integrating Reliability Standards TPL-001-0 through TPL-004-0 into a single Reliability Standard through the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1692	10/19/2011
S- Ref 10394 - Consider the full range of variables when determining critical system conditions but only those deemed to be significant need to be assessed and documentation provided that explain the rationale for selection.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1706	10/19/2011
S- Ref 10395 - System performance should be assessed based on contingencies that mimic what happens in real-time.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1716	10/19/2011
S- Ref 10396 - Consider appropriate revisions to the reliability standards to deal with cyber security events.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1719	10/19/2011
S- Ref 10397 - With regard to SDG&Es suggestion to clarify specific elements of this Reliability Standard, we direct the ERO to consider such suggestions in its Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1727	10/19/2011



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10398 - ...direct the ERO to include these modifications to the Reliability Standard through its Reliability Standards development process to provide for the appropriate sharing of information with neighboring systems.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1755	10/19/2011
S- Ref 10399 - ...direct the ERO to modify the planning Reliability Standards to require the assessment of planned outages consistent with the entity's spare equipment strategy.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1725	10/19/2011
S- Ref 10400 - Submit an informational filing, in addition to regional criteria, all utility and RTO/ISO differences in transmission planning criteria that are more stringent than those specified by the TPL standards.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1693	10/19/2011
S- Ref 10401 - ...direct NERC to submit a filing within 30 days of the date of this order explaining whether Requirement WR1.b is consistent with the second interpretation of IRO-005-1 (two contingencies away from cascading failure).	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 108	7/9/2007
S- Ref 10402 - that WECC in developing a permanent, replacement regional Reliability Standard: (1) clarify any inconsistency between the Requirement WR1.b and corresponding Measure WM1; and (2) ensure that the requirements currently set forth in Measures WM1 are set forth in the Requirements and that corresponding Measures simply quantify the frequency, duration and magnitude of the violations as determined by the Requirements.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 109	7/9/2007
S- Ref 10403 - ...expect that WECC will address the shortcomings identified by NERC in developing a permanent, replacement regional Reliability Standard.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 110	2/9/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10404 - Consider the full range of variables when determining critical system conditions but only those deemed to be significant need to be assessed and documentation provided that explain the rationale for selection.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1765	10/19/2011
S- Ref 10405 - ...direct the ERO to modify TPL-001-0 to require a peer review of planning assessments with neighboring entities.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1766	10/19/2011
S- Ref 10406 - ...directs the ERO to modify Requirement R1.3 of TPL-001-0 to substitute the reference to the regional reliability organization with a reference to the Regional Entity.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1767	10/19/2011
S- Ref 10407 - ...directs a modification to this Reliability Standard to require assessments of outages of critical long lead time equipment, consistent with the entity's spare equipment strategy.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1768	10/19/2011
S- Ref 10408 - ...directs the ERO to modify the Reliability Standard to address the concerns regarding footnote (a) of Table 1, including the applicability of emergency ratings and consistency of normal ratings and voltages with values obtained from other Reliability Standards.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1769	10/19/2011
S- Ref 10409 - ...directs the ERO to modify TPL-002-0 to require that critical system conditions and study years be determined in the same manner as it directed with regard to TPL-001-0.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1785	10/19/2011
S- Ref 10410 - ...directs the ERO to modify the Reliability Standard to require assessments of planned outages of long lead time critical equipment consistent with the entity's spare equipment strategy.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1786	10/19/2011

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10411 - ...directs the ERO to modify the Reliability Standard to explicitly require either that all generators are capable of riding through the same set of Category B and C contingencies, as required by wind generators in Order No. 661, or that those generators that cannot ride through be simulated as tripping.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1787	10/19/2011
S- Ref 10412 - ... directs the ERO to modify the Reliability Standard to require documentation of load models used in system studies and the supporting rationale for their use.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1789	10/19/2011
S- Ref 10413 - ...directs the ERO to modify the standard to clarify the phrase of footnote (a) that states “permit operating steps necessary to maintain system control” to clarify the use of emergency ratings.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1790	10/19/2011
S- Ref 10414 - Consider NRCs comments regarding clarifying the N-1 state as being always applicable to the current conditions as part of the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1788	10/19/2011
S- Ref 10415 - Based on the record before us, we believe that the transmission planning Reliability Standard should not allow an entity to plan for the loss of non-consequential load in the event of a single contingency. The Commission directs the ERO to clarify the Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1794 Sen 1 and 2	3/31/2011  (FERC proposed remand)
S- Ref 10416 - ...consider developing a ceiling on the amount and duration of consequential load loss that will be acceptable.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1795 Sen 5 and 6	3/31/2011  (FERC proposed remand)

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10417 - Regarding the comments of Entergy and Northern Indiana that the Reliability Standard should allow entities to plan for the loss of firm service for a single contingency, the Commission finds that their comments may be considered through the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1794 Sen 3	3/31/2011  (FERC proposed remand)
S- Ref 10418 - ...directs the ERO to modify the second sentence of footnote (b) to clarify that manual system adjustments other than shedding of firm load or curtailment of firm transfers are permitted to return the system to a normal operating state after the first contingency, provided these adjustment can be accomplished within the time period allowed by the short term or emergency ratings.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1796 Sen 9	3/31/2011
S- Ref 10419 - ...direct the ERO to modify TPL-003-0 to require that critical system conditions and study years be determined in the same manner as we directed with regard to TPL-001-0, for the reasons as set forth in our discussion of TPL-001-0 (see Ref 10409).	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1817	10/19/2011
S- Ref 10420 - ...direct the ERO to modify footnote (c) of Table 1 to the Reliability Standard to clarify the term “controlled load interruption.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1818	10/19/2011
S- Ref 10421 - ...direct the ERO to modify the Reliability Standard to require definition and documentation of proxies necessary to simulate cascading outages.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1820	10/19/2011
S- Ref 10422 - Tailor the purpose statement to reflect the specific goal of the standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1821	10/19/2011
S- Ref 10423 - Address NRC concerns as described in TPL-002 through the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1822	10/19/2011

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10424 - Consider the comments on major load pockets as part of the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1824 Sen 8	10/19/2011
S- Ref 10425 - ...direct the ERO to modify TPL-004-0 to require that critical system conditions and study years be determined in the same manner as we directed with regard to TPL-001-0 and for the reasons stated there.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1832	10/19/2011
S- Ref 10426 - MidAmerican states that it supports the proposal to modify TPL-004-0 to require identification of options for reducing the probability or impacts of extreme events that cause cascading. Accordingly, for the reasons cited in the NOPR, the Commission directs the ERO to modify the Reliability Standard to make this modification to the Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1833	10/19/2011
S- Ref 10427 - ...direct the ERO to expand the list of events with examples of such events identified above.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1834	10/19/2011
S- Ref 10428 - The Commission received no comments on its proposal to modify the purpose statement of TPL-004-0 to reflect the specific goal of the Reliability Standard. The Commission directs that this modification be made.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1835	10/19/2011
S- Ref 10429 - Encourages NERC to utilize input from the Commissions technical conferences on regional planning as directed in Order No. 890 to improve this standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1841	10/19/2011
S- Ref 10430 - ...modify VAR-001-1 to include reliability coordinators as applicable entities and include a new requirement(s) that identifies the reliability coordinator's monitoring responsibilities.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1855	3/18/2015
S- Ref 10431 - ... direct the ERO to address the reactive power requirements for LSEs on a comparable basis with purchasing-selling entities.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1858	9/9/2010

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10432 - Include APPAs comments regarding varying power factor requirements due to system conditions and equipment in the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1862	6/9/2014
S- Ref 10433 - ...the NOPR proposed directing the ERO to modify VAR-001-1 to include more detailed and definitive requirements on “established limits” and “sufficient reactive resources” and identify acceptable margins (i.e. voltage and/or reactive power margins) above voltage instability points to prevent voltage instability and to ensure reliable operations. We will keep this direction, and direct the ERO to include this modification in this Reliability Standard.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1868	6/9/2014
S- Ref 10434 - We recognize that our proposed modification does not identify what definitive requirements the Reliability Standard should use for established limits and sufficient reactive resources. Rather, the ERO should develop appropriate requirements that address the Commission’s concerns through the ERO Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1869	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10436 - Address the concerns of Dynegy, EEI, and MISO through the standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1869	6/9/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10437 - direct the ERO, through its Reliability Standards development process, to modify Reliability Standard VAR-001-1 to include Requirements to perform voltage stability analysis periodically, using online techniques where commercially-available, and offline simulation tools where online tools are not available, to assist real-time operations. The ERO should consider the available technologies and software as it develops this modification to VAR-001-1 and identify a process to assure that the Reliability Standard is not limiting the application of validated software or other tools.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1875	5/26/2016
S- Ref 10438 - ...expect the ERO to consider the comments of SoCal Edison with regard to reliability and SMA in its process for developing the technical capability requirements for using controllable load as a reactive resource in the applicable Reliability Standards.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1879	9/9/2010
S- Ref 10439 - ...expect the ERO to consider the comments of SoCal Edison with regard to reliability and SMA in its process for developing the technical capability requirements for using controllable load as a reactive resource in the applicable Reliability Standards.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1879	9/9/2010
S- Ref 10440 - ...direct the ERO to include APPA's concern in the Reliability Standards development process.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1862	6/9/2014
S- Ref 10441 - direct the ERO to develop appropriate modifications to this Reliability Standard to address the power factor range at the interface between LSEs and the Bulk-Power System.	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	Order No. 788 RM13-8-000	Para 1861 (See also 1863)	2013 N/A - Withdrawn by FERC Order No. 788

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10442 - Consider Dynegy's suggestion to improve the standard. Dynegy believes that VAR-002-1 should be modified to require more detailed and definitive requirements when defining the time frame associated with an incident of non-compliance (i.e. each 4-second scan, 10-minute integrated value, hourly integrated value).	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 1885	6/9/2014
S- Ref 10443 - ...expect that WECC, in developing a permanent, replacement standard, will address the shortcomings identified by NERC regarding WECC-VAR-STD-002a-1 including to address identified format-related shortcomings.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 117	2/9/2009
S- Ref 10444 - ...expect WECC to address the shortcomings identified by NERC when developing a permanent, replacement standard .... including to address identified format-related shortcomings.	Order Approving Regional Reliability Standards for WECC - Docket No. RR07-11	6/8/2007	119 FERC ¶ 61,260	RR07-11-000	Para 123	2/9/2009
S- Ref 10445 - ...directed to develop a timetable for development of the modifications to the CIP Reliability Standards and, if warranted, to develop and file with the Commission for approval, a second implementation plan.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 013	7/8/2009
S- Ref 10447 - ...direct the ERO to develop modifications to the CIP Reliability Standards that require a responsible entity to implement plans, policies and procedure that it must develop pursuant to the CIP Reliability Standards.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 075	5/22/2009
S- Ref 10448 - ...direct the ERO, in its development of a work plan, to consider developing modifications to CIP-002-1 and the provisions regarding technical feasibility exceptions as a first priority, before developing other modifications required by the Final Rule.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 090	5/22/2009
S- Ref 10449 - ...direct the ERO to include approval of the mitigation and remediation steps by the senior manager (identified pursuant to CIP-003-1) in the course of developing this framework of accountability.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 211	5/22/2009



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10452 - The Commission leaves to the EROs discretion whether to incorporate guidance on the development of a risk-based assessment methodology to identify critical assets into the CIP Reliability Standard, develop it as a separate guidance document, or some combination of the two.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 253 (See also 238)	5/22/2009
S- Ref 10453 -...direct the ERO to consider commenter concerns such as how to assess whether a generator or a blackstart unit is critical to Bulk-Power System reliability, the proper quantification of risk and frequency, facilities that are relied on to operate or shut down nuclear generating stations, and the consequences of asset failure and asset misuse by an adversary.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 254	5/22/2009
S- Ref 10454 - ...direct either the ERO or its designees to provide reasonable technical support to assist entities in determining whether their assets are critical to the Bulk-Power System.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 255	2/10/2011
S- Ref 10456 - ...direct the ERO to consider this clarification [the meaning of the phrase used for initial system restoration, in CIP-002-1, Requirement R1.2.4] in its Reliability Standards development process.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 257 (See also 250)	5/22/2009
S- Ref 10457 - The ERO should consider the issue of a Design-Basis Threat (DBT) profile of potential adversaries as an alternative approach to critical asset identification.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 258 and 252	1/31/2013
S- Ref 10458 - The ERO should consider Northern California's suggestion that the ERO establish a process for informal, case-by-case consultations with responsible entities that need assistance in complying with CIP-002-1 (in developing policies and procedures).	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 258 and 249	1/31/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10459 - ...direct the ERO to specifically require the consideration of misuse of control centers and control systems in the determination of critical assets.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 282 (See also 279 - 281) (See also Sept 2004 NOPR on CIP version 4 Para 54 - 58)	5/22/2009
S- Ref 10462 - The ERO should consider modifying CIP-002-1 to allow an entity to rely upon the assessment of another entity with interest in the matter.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 321	1/31/2013
S- Ref 10467 - ...direct the ERO, in developing the accountability structure for the technical feasibility exception, to include appropriate provisions to assure that governmental entities can safeguard sensitive information.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 333	5/22/2009
S- Ref 10468 - ...direct the ERO to provide additional guidance for the topics and processes that the required cyber security policy should address in the cyber security policy required pursuant to CIP-003-1.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 355 (Related Para 356)	1/31/2013
S- Ref 10474 - ...direct the ERO to develop modifications to Requirement R6 of CIP-003-1 to provide an express acknowledgment of the need for the change control and configuration management process to consider accidental consequences and malicious actions along with intentional changes.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 397 and 398	1/31/2013
S- Ref 10481 - ...direct the ERO to identify the parameters of such exceptional circumstances through the Reliability Standards development process.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 443	5/22/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10483 - The ERO should consider the comments of APPA/LPPC (seeking clarification regarding discretion in reviewing results of personnel risk assessments and in coming to conclusions regarding the subject employees) and SDG&E (seeking refinements on various issues, including an industry-wide protocol for periodic background and criminal checks, and the use of pre-employment background check procedures for current employees) when developing modifications to CIP-004-1.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 446 (See also 441 and 442)	1/31/2013
S- Ref 10492 - The Commission adopts the CIP NOPRs proposal to direct the ERO to develop a requirement that each responsible entity must implement a defensive security approach including two or more defensive measures in a defense in depth posture when constructing an electronic security perimeter.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 496 (See also 503)	1/31/2013
S- Ref 10493 - ...directs that a responsible entity must implement two or more distinct security measures when constructing an electronic security perimeter, the specific requirements should be developed in the Reliability Standards development process.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 502	1/31/2013
S- Ref 10513 - ...direct the ERO to modify Requirement R4 to require these representative active vulnerability assessments at least once every three years, with subsequent annual paper assessments in the intervening years.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 547	1/31/2013
S- Ref 10514 - ...direct the ERO to modify this CIP Reliability Standard to state that a responsible entity must, at a minimum, implement two or more different security procedures when establishing a physical security perimeter around critical cyber assets.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 572	1/31/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10515 - ...direct the ERO to consider, based on the content of the modified CIP-006-1, whether further guidance on defense in depth (a responsible entity must implement two or more distinct and complimentary physical access controls at a physical access point of the perimeter) should be developed in a reference document outside of the Reliability Standards.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 575	5/22/2009
S- Ref 10536 - ...direct the ERO to provide more direction on what features, functionality, and vulnerabilities the responsible entities should address when conducting the vulnerability assessments.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 643	1/31/2013
S- Ref 10553 - ...direct the ERO to modify CIP-009-1 to incorporate use of good forensic data collection practices and procedures into this CIP Reliability Standard.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 706	1/31/2013
S- Ref 10554 - ...direct the ERO to revise CIP-009-1 to require data collection, as provided in the Blackout Report.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 710 (See also 706)	1/31/2013
S- Ref 10555 - The Commission adopts, with modifications, the CIP NOPR proposal to develop modifications to CIP-009-1 through the Reliability Standards development process to require an operational exercise once every three years (unless an actual incident occurs, in which case it may suffice), but to permit reliance on table-top exercises annually in other years.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 725	1/31/2013
S- Ref 10560 - ...direct the ERO to submit a work plan for Commission approval for developing and filing for approval the modifications to the CIP Reliability Standards that we are directing in this Final Rule	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 089	5/22/2009

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10561 - ...direct the ERO to require more frequent, semiannual, self-certifications prior to the date by which full compliance is required	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 096	5/22/2009
S- Ref 10564 - ...direct the ERO to develop modifications to the CIP Reliability Standards that do not include this term. We note that many commenters, including NERC, agree that the reasonable business judgment language should be removed.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 128 (See also 106 - 138)	5/22/2009
S- Ref 10566 - ...direct the ERO to remove acceptance of risk language from the CIP Reliability Standards.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 150 (See also 151 - 156)	5/22/2009
S- Ref 10568 - ...direct the ERO to develop a set of conditions or criteria that a responsible entity must follow when relying on the technical feasibility exception contained in specific Requirements of the CIP Reliability Standards	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 178 (See also 179 - 186)	5/22/2009
S- Ref 10570 - ...direct the ERO to develop a requirement that the responsible entity must develop, document and implement a mitigation plan that achieves a comparable level of security to the Requirement.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 192	5/22/2009
S- Ref 10571 - The Commission thus adopts its CIP NOPR proposal that use and implementation of technical feasibility exceptions must be governed by a clear set of criteria.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 209	5/22/2009
S- Ref 10572 - ...direct the ERO to design and conduct an approval process through the Regional Entities and the compliance audit process.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 218	5/22/2009

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10573 - ...direct NERC, in developing the accountability structure for the technical feasibility exception, to include appropriate provisions to assure that governmental entities that are subject to Reliability Standards as users, owners or operators of the Bulk-Power System can safeguard sensitive information.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 219	5/22/2009
S- Ref 10574 - ...directs the ERO to submit an annual report to the Commission that provides a wide-area analysis regarding use of the technical feasibility exception and the effect on Bulk-Power System reliability.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 220	9/28/2011
S- Ref 10575 - ...directs the ERO to control and protect the data analysis to the extent necessary to ensure that sensitive information is not jeopardized by the act of submitting the report to the Commission.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 221	5/22/2009
S- Ref 10576 - ...directs the ERO to develop a set of criteria to provide accountability when a responsible entity relies on the technical feasibility exceptions in specific Requirements of the CIP Reliability Standards.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 222	5/22/2009
S- Ref 10577 - ...directs the ERO, in developing the guidance discussed above regarding the identification of critical assets, to consider the designation of various types of data as a critical asset or critical cyber asset.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 272	1/31/2013
S- Ref 10578 - ... directs the ERO to develop guidance on the steps that would be required to apply the CIP Reliability Standards to such data and to consider whether this also covers the computer systems that produce the data.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 272	1/31/2013
S- Ref 10579 - ...directs the ERO to develop, pursuant to its Reliability Standards development process, a modification to CIP-002-1 to explicitly require that a senior manager annually review and approve the risk-based assessment methodology.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 294 (See also 296 - 291)	5/22/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10580 - The Commission adopts its CIP NOPR interpretation that Requirement R2 of CIP-003-1 requires the designation of a single manager who has direct and comprehensive responsibility and accountability for implementation and ongoing compliance with the CIP Reliability Standards. The Commissions intent is to ensure that there is a clear line of authority and that cyber security functions are given the prominence they deserve.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 381 (See also 379)	5/22/2009
S- Ref 10581 - ...direct the ERO to provide guidance, regarding the issues and concerns that a mutual distrust posture must address in order to protect a responsible entity's control system from the outside world.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 412 (See also 408 - 410) (See also footnote 24 found in Para 24)	1/31/2013
S- Ref 10582 - ...direct the ERO to develop a modification to CIP-004-1 that would require affected personnel to receive required training before obtaining access to critical cyber assets	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 431	5/22/2009
S- Ref 10583 - ...direct the ERO to treat any alternative measures for Requirement R1.1 of CIP-006-1 as a technical feasibility exception to Requirement R1.1, subject to the conditions on technical feasibility exceptions.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 560	5/22/2009
S- Ref 10584 - ...directs the ERO to eliminate the acceptance of risk language from Requirements R2.3 and R3.2.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 597	5/22/2009

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10585 - ...directs the ERO to revise Requirement R3 to remove the acceptance of risk language and to impose the same conditions and reporting requirements as imposed elsewhere in the Final Rule regarding technical feasibility.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 600	5/22/2009
S- Ref 10586 - ...directs the ERO to eliminate the acceptance of risk language from Requirement R4.2, and also attach the same documentation and reporting requirements to the use of technical feasibility in Requirement R4, pertaining to malicious software prevention, as elsewhere	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 622 Sen 1 (See also 614 and 619)	12/29/2009
S- Ref 10587 - ...direct the ERO to revise Requirement R9 to state that the changes resulting from modifications to the system or controls shall be documented quicker than 90 calendar days.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 651	5/22/2009
S- Ref 10588 - Therefore, we will not allow NERC to reconsider the Violation Risk Factor designations in this instance but, rather, direct below that NERC make specific modifications to its designations.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 757	5/22/2009
S- Ref 10589 - ...directs NERC to submit a complete Violation Risk Factor matrix encompassing each Commission approved CIP Reliability Standard.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 759	5/22/2009
S- Ref 10590 - The Commission adopts the CIP NOPR proposal to direct the ERO to revise 43 Violation Risk Factors.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 767	5/22/2009
S- Ref 10591 - ...direct the ERO to consider allowing for the 30 minute system adjustment period, the system must be capable of withstanding an N-1 contingency, with load shedding available to system operators as a measure of last resort to prevent cascading failures.	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	RM07-3-000	Para 53	6/30/2008



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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10592 - However, the Commission concludes that nine filed Violation Risk Factors for FAC Reliability Standards Requirements are not consistent with these guidelines and also concludes that one Requirement where no Violation Risk Factor was filed should have been assigned a Violation Risk Factor consistent with an identically worded Requirement from another FAC Reliability Standard. Thus, the Commission directs NERC to modify these ten Violation Risk Factors.	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	RM07-3-000	Para 135	6/30/2008
S- Ref 10593 - ...NERC must submit a compliance filing with the revised Violation Risk Factors no later than 90 days before the effective date of the relevant Reliability Standard.	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	RM07-3-000	Para 136	6/30/2008
S- Ref 10594 - ...direct NERC to submit a complete Violation Risk Factor matrix encompassing each Commission-approved Reliability Standard and including the correct corresponding version number for each Requirement when it files revised Violation Risk Factors for the FAC Reliability Standards.	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	RM07-3-000	Para 138	6/30/2008
S- Ref 10595 - In revising the Violation Risk Factors, NERC must address the Commissions concerns, as outlined below, and also follow the five guidelines for evaluating the validity of each Violation Risk Factor assignment.	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	RM07-3-000	Para 138	6/30/2008
S- Ref 10596 - However, for the reasons explained below, we remand NERC’s definition of “Cascading Outages” subject to NERC refileing.	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	RM07-3-000	Para 014	6/30/2008
S- Ref 10597 - ...direct WECC to file Violation Risk Factors for the FAC-010-1 and FAC-011-1 no later than the effective date of the applicable Reliability Standard.	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	RM07-3-000	Para 146	6/30/2008

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10598 - ...directs NERC to revise the Violation Risk Factor assigned to FAC-010-1, Requirements R2.1-R2.2 to high.	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	RM07-3-000	Para 165	6/30/2008
S- Ref 10599 - ...directs NERC to assign a high Violation Risk Factor to FAC-014-1, Requirement R5 and sub-Requirements R5.1.	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	RM07-3-000	Para 175	6/30/2008
S- Ref 10600 - ...directs NERC to ensure that the proposed Violation Risk Factor for FAC- 010-1, Requirement R3.6 is changed from low to medium.	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	RM07-3-000	Para 178	6/30/2008
S- Ref 10601 - direct that any revised TPL Reliability Standards must reflect consistency in the lists of contingencies between the two	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	Order No. 788 RM13-8-000	Para 49	2013 N/A - Withdrawn by FERC Order No. 788
S- Ref 10602 - ...direct NERC to revise the Reliability Standard through the Reliability Standards development process to address our concern. This could, for example, be accomplished by deleting the phrase, e.g., load greater than studied from sub-Requirement R.2.3.2.	Facilities Design, Connections and Maintenance Reliability Standards	12/27/2007	Order 705	RM07-3-000	Para 70	6/30/2008
S- Ref 10605 - ...direct NERC to include in its first performance assessment three years from the date of certification a report analyzing the length of time taken to develop a new or modified Reliability Standard from the submission of a SAR through approval of a Reliability Standard by the ERO board, as discussed herein.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶161,030	RR06-1-003	Para D	7/1/2009
S- Ref 10606 - Submit an additional compliance filing within 60 days of the issuance of this order, and a quarterly report on the balloting results of its Reliability Standards Development Process.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶161,030	RR06-1-003	Para 1	3/19/2007

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10607 - ...direct the ERO to develop a work plan to propose a continuing improvement process to consider adequate level of reliability when developing new or modified Reliability Standards.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 16	3/19/2007
S- Ref 10608 - The ERO must address the issue of whether an adequate level of reliability can be defined to partly or wholly apply to all Reliability Standards, whether it can be defined for certain sets of Reliability Standards (BAL, FAC etc.), or whether, in some instances, it must be tailored to each individual Reliability Standard.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 16	3/19/2007
S- Ref 10609 - The ERO must consider opportunities to develop and apply metrics that can form the basis for broadly defining an adequate level of reliability, such as the creation of a precisely defined set of system operating states.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 16	3/19/2007
S- Ref 10610 - Report to us quarterly for the next three years its analysis of the voting results, including trends and patterns that may signal a need for improvement in the voting process, such as the balloting down of a Reliability Standard and subsequent ballot approval of a less stringent version of the Reliability Standard.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 18	3/19/2007
S- Ref 10611 - ...direct that NERC revise the proposed expedited urgent action process to (1) provide for the expedited development of a Reliability Standard in extraordinary circumstances without the limitation on when it can be invoked by the Commission and (2) incorporate the ability to adjust the timeliness of the process to meet a Commission-imposed deadline and still allow for due process.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 28	3/19/2007

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10612 - ...direct to revise the emergency action process to make it clear that, when the Commission determines that extraordinary circumstances exist, NERC must invoke its emergency action process without NERC board discretion to overrule that determination.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 28	3/19/2007
S- Ref 10613 - ...direct NERC to modify both the regular and expedited Reliability Standard development procedures to explicitly provide for timely adherence to a Commission-imposed deadline.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 28	3/19/2007
S- Ref 10616 - ...direct NERC to revise its Reliability Standard development procedure to clearly indicate how it will initiate the development of a new or revised Reliability Standard in response to a Commission directive separate from the SAR process.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 29	3/19/2007
S- Ref 10618 - ...direct the ERO to monitor the length of time taken to develop a new or modified Reliability Standard from the submission of a SAR through approval of a Reliability Standard by the ERO board.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 31	3/19/2007
S- Ref 10619 - ...submit a report as part of its performance assessment at the three year anniversary of the certification of the ERO that identifies how long each new Reliability Standard or modification under development has taken up to that point.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 31	7/1/2009
S- Ref 10620 - ...direct NERC to modify section 306 so that the compliance and certification committee is responsible for monitoring NERCs compliance regarding Reliability Standards development.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 63	3/19/2007

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10621 - direct that NERC modify its Rules of Procedure to provide that the ERO will comply with each Reliability Standard that identifies the ERO as an applicable entity, identify the component of NERC that will monitor NERCs compliance with such standards, and state that non-compliance would constitute a violation of NERCs Rules of Procedure and subject NERC to any consequences of such a violation.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 65	3/19/2007
S- Ref 10622 - direct NERC to develop the Violation Risk Factors through the procedure described in section 1400 of its Rules of Procedure.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para 91	3/19/2007
S- Ref 10624 - ...direct NERC to file with the Commission quarterly reports for the next three years, within 30 days of the end of each quarterly period, beginning with the first quarter of 2007, on voting results in the Reliability Standard development process, as discussed herein.	Order on Compliance Filing - Docket No. RR06-1-003	1/18/2007	118 FERC ¶61,030	RR06-1-003	Para C	3/19/2007
S- Ref 10625 - ...direct NERC to submit a compliance filing to address the Commissions concerns with regard to the guidelines the Commission applied to each Requirement listed in Appendix B and to provide justification for NERCs Violation Risk Factor assignment. The Commission may change its determination based on the explanation provided in the compliance filing.	Order on Violation Risk Factors - Docket Nos. RR07-9 and RR07-10	5/18/2007	119 FERC ¶61,145	RR07-9-000; RR07-10-000	Para 43	6/4/2007 8/17/2007
S- Ref 10626 - In addition to those approved Reliability Standards identified by NERC where Requirements, by omission, were not assigned a Violation Risk Factor, the Commission has also identified others. Requirements for Reliability Standards MOD-016-1, R2, R2.1, R3, and R3.1 were not assigned Violation Risk Factors. The Commission directs NERC to submit these Violation Risk Factor assignments in its compliance filing	Order on Violation Risk Factors - Docket Nos. RR07-9 and RR07-10	5/18/2007	119 FERC ¶61,145	RR07-9-000; RR07-10-000	Para 44	8/16/2007

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10627 - The Commissions review has also found several instances where Violation Risk Factors were inappropriately assigned. For example, our review found instances where Violation Risk Factors were assigned to explanatory statements, phrases and/or text. We direct NERC to remove Violation Risk Factor assignments in these instances in the compliance filing required in 15 days.	Order on Violation Risk Factors - Docket Nos. RR07-9 and RR07-10	5/18/2007	119 FERC ¶ 61,145	RR07-9-000; RR07-10-000	Para 45	8/17/2007
S- Ref 10628 - ...direct NERC to submit a complete Violation Risk Factor matrix encompassing each Commission-approved Reliability Standard.	Order on Violation Risk Factors - Docket Nos. RR07-9 and RR07-10	5/18/2007	119 FERC ¶ 61,145	RR07-9-000; RR07-10-000	Para 46	8/17/2007
S- Ref 10629 - ...direct NERC to file modifications to 28 of the proposed Violation Risk Factors within 15 days. This, we are approving as modified the proposed Violation Risk Factors effective June 1, 2007. In addition, the Commission directs NERC to submit a compliance filing within 60 days of this order that explains the rationale for assigning certain risk factor levels in approximately 75 instances.	Order on Violation Risk Factors - Docket Nos. RR07-9 and RR07-10	5/18/2007	119 FERC ¶ 61,145	RR07-9-000; RR07-10-000	Para 2	8/17/2007
S- Ref 10630 - ...direct NERC to make a compliance filing within 30 days of the date of this order.	Order on Compliance Filing - Docket No. RR06-1-007	6/7/2007	119 FERC ¶ 61,248	RR06-1-007	Para 1	8/6/2007
S- Ref 10631 - ...direct NERC to develop violation severity levels for each requirement and subrequirement of each Reliability Standard, either through the Reliability Standards development process or through another expedited process, and submit them to the Commission.	Order on Compliance Filing - Docket No. RR06-1-007	6/7/2007	119 FERC ¶ 61,248	RR06-1-007	Para 80	3/3/2008
S- Ref 10632 - NERC shall submit a compliance filing as to the modifications and submissions required in this order within 60 days of the date of its issuance.	Order on Compliance Filing - Docket No. RR06-1-007	6/7/2007	119 FERC ¶ 61,248	RR06-1-007	Para B	8/6/2007
S- Ref 10633 - ...direct NERC to make a compliance filing within 30 days of the date of this order.	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 1	12/17/2007

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10634 - ...direct NERC to revise the Violation Risk Factor assignment for BAL-001-0, Requirements R1 and R2 to medium.	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 25	12/17/2007
S- Ref 10635 - ...direct NERC to revise the Violation Risk Factor for BAL-002-0, Requirement BAL-002-0, Requirement R2 to medium.	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 29	12/17/2007
S- Ref 10636 - ...direct NERC to assign a Violation Risk Factor of medium to BAL-002-0, Requirement R4.	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 30	12/17/2007
S- Ref 10637 - ...direct NERC to revise the Violation Risk Factor for BAL-004-0, Requirement R3 to medium.	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 43	12/17/2007
S- Ref 10638 - ...direct NERC to revise the subject Violation Risk Factors to medium.[re: BAL-005-0 R1.1, 1.2, 1.3]	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 47	12/17/2007
S- Ref 10639 - ...direct NERC to revise the Violation Risk Factor assignment for BAL-005-0, Requirement R2 to high.	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 51	12/17/2007
S- Ref 10640 - ...direct NERC to revise the subject Violation Risk Factor to medium.	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 55	12/17/2007
S- Ref 10641 - ...direct NERC to revise the Violation Risk Factor for BAL-005-0, Requirement R17 to medium	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 58	12/17/2007
S- Ref 10642 - ...direct NERC to revise the Violation Risk Factors for FAC- 008-1, Requirements R1.1, R1.2, R1.2.1, and R1.2.2 to medium.	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 62	12/17/2007
S- Ref 10643 - ...direct NERC to revise the subject Violation Risk Factor to medium.	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 65	12/17/2007

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10644 - ...direct NERC to submit, within 30 days, a compliance filing containing these modifications incorporated into a revised version of the complete Violation Risk Factor matrix encompassing each Commission-approved Reliability Standard	Order on Compliance Filing - Docket Nos. RR07-9 and RR07-10	11/16/2007	121 FERC ¶ 61,179	RR07-9-003; RR07-10-003	Para 66	12/17/2007
S- Ref 10645 - we would consider a second implementation plan for achieving compliance with the revised CIP Reliability Standards. Since these revised CIP Reliability Standards could cause additional critical assets to be identified through the external review process, the Commission expects that the second implementation plan would include the compliance timetable for newly identified critical assets.	Order Denying Rehearing and Granting Clarification	5/16/2008	Order 706-A	RM06-22-001	Para 55	2/10/2011
S- Ref 10646 - ...expect that when NERC develops a schedule for responsible entities to bring newly identified critical assets into compliance with Reliability Standards CIP-002-1 through CIP-009-1, this schedule would be at least as prompt as the schedule it proposed.	Order Denying Rehearing and Granting Clarification	5/16/2008	Order 706-A	RM06-22-001	Para 56	2/10/2011
S- Ref 10647 - ...directed to submit a report on its analysis with regard to Guideline 1 within six months of this order, as discussed in the body of this order.	Order on Violation Severity Levels - Docket No. RR08-4	6/19/2008	123 FERC ¶ 61,284	RR08-4-000	Para 1 (C)	12/19/2008
S- Ref 10648 - ...directed to submit a compliance filing within six months of this order, justifying or modifying the Violation Severity Levels with regard to Guideline 2a, as discussed in the body of this order.	Order on Violation Severity Levels - Docket No. RR08-4	6/19/2008	123 FERC ¶ 61,284 and referenced in Order 722	RR08-4-000	Para 1 (D)	12/19/2008
S- Ref 10649 - ...direct to submit a compliance filing within six months certifying that it has revised each of the Violation Severity Level Assignments for consistency with Guidelines 2b, 3 and 4, validating the assignments that meet Guidelines 2b, 3, and 4.	Order on Violation Severity Levels - Docket No. RR08-4	6/19/2008	123 FERC ¶ 61,284 and referenced in Order 722	RR08-4-000	Para 1 (E)	3/21/2011



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10650 - ...direct to file the modified Violation Severity Levels as identified in the Appendix within 30 days of this order, as discussed in the body of this order.	Order on Violation Severity Levels - Docket No. RR08-4	6/19/2008	123 FERC ¶ 61,284	RR08-4-000	Para 1 (B)	12/19/2008
S- Ref 10651 - ...direct the ERO to modify Requirement 9.3.5 to clarify references to coping times and off-site for restoration to address the concerns raised in the comments through its Reliability Standards development process.	Mandatory Reliability Standard for Nuclear Plant Interface Coordination	10/16/2008	Order 716	RM08-3-000	Para 107	8/14/2009
S- Ref 10652 - ...direct NERC to submit a timeline for developing and filing the modification as a compliance filing to be made within 30 days of the date of this Final Rule.	Mandatory Reliability Standard for Nuclear Plant Interface Coordination	10/16/2008	Order 716	RM08-3-000	Para 107	8/14/2009
S- Ref 10653 - ...direct the ERO to revise the violation risk factor assignment for Requirement R2 from lower to medium no later than 90 days before the effective date of the Reliability Standard.	Mandatory Reliability Standard for Nuclear Plant Interface Coordination	10/16/2008	Order 716	RM08-3-000	Para 156	8/14/2009
S- Ref 10654 - ...direct the ERO to revise the violation risk factor assignment for Requirements R4.2 and R4.3 from medium to high no later than 90 days before the effective date of the Reliability Standard.	Mandatory Reliability Standard for Nuclear Plant Interface Coordination	10/16/2008	Order 716	RM08-3-000	Para 168	8/14/2009
S- Ref 10655 - ...direct the ERO to revise the violation risk factor assignment for Requirement R5 from medium to high no later than 90 days before the effective date of the Reliability Standard.	Mandatory Reliability Standard for Nuclear Plant Interface Coordination	10/16/2008	Order 716	RM08-3-000	Para 173	8/14/2009
S- Ref 10656 - ...direct the ERO to revise the violation risk factor assignment for Requirements R7 and R8 from medium to high no later than 90 days before the effective date of the Reliability Standard.	Mandatory Reliability Standard for Nuclear Plant Interface Coordination	10/16/2008	Order 716	RM08-3-000	Para 179	8/14/2009
S- Ref 10657 - ...direct the ERO to revise the violation risk factor assignment for Requirement R9 from lower to medium no later than 90 days before the effective date of the Reliability Standard.	Mandatory Reliability Standard for Nuclear Plant Interface Coordination	10/16/2008	Order 716	RM08-3-000	Para 187	8/14/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10658 - ...directs the ERO, in enforcing NUC-001-1, to require that an integrated entity provides documentation of its arrangements, including appropriate procedures and protocols, ensuring that its business units perform the functions under NUC-001-1 that would otherwise be met by separate entities.	Mandatory Reliability Standard for Nuclear Plant Interface Coordination	10/16/2008	Order 716	RM08-3-000	Para 73	8/14/2009
S- Ref 10659 - ...direct the ERO to assess whether the entity providing service over the lower voltage facilities is also subject to NUC-001-1 concerning Transmission Entities and Agreements on NPIRs.	Mandatory Reliability Standard for Nuclear Plant Interface Coordination	10/16/2008	Order 716	RM08-3-000	Para 88	8/14/2009
S- Ref 10660 - ...direct NERC to use both historical data as the Commission intended in the VSL Order and 2008 compliance data in its evaluation of assigned violation severity levels applying Guideline 1.	Order on Rehearing and Clarification - Docket Nos. RR08-4-002 and RR08-4-003	11/20/2008	125 FERC ¶ 61,212	RR08-4-001; RR08-4-002	Para 22	12/1/2010
S- Ref 10661 - ...identify and compare (i) each requirement and its current violation severity level assignment, (ii) the requirements pre-2008 historical data, and (iii) the requirements 2008 compliance data.	Order on Rehearing and Clarification - Docket Nos. RR08-4-002 and RR08-4-003	11/20/2008	125 FERC ¶ 61,212	RR08-4-001; RR08-4-002	Para 30	12/1/2010
S- Ref 10662 - ...direct the ERO to submit a filing containing revisions to four of them, within 60 days of the date of this order.	VRF Order on Compliance Filing - Docket Nos. RM06-22-002 and RM06-22-003	1/27/2009	126 FERC ¶ 61,065	RM06-22-002; RM06-22-003	Para 14	6/30/2009
S- Ref 10663 - ...direct the ERO to engage in a stakeholder process to develop a more appropriate timeframe for nuclear power plants full compliance with CIP Reliability Standards.	Mandatory Reliability Standards for Critical Infrastructure Protection	3/19/2009	Order 706-B	RM06-22-000	Para 60	9/15/2009
S- Ref 10664 - ...direct the ERO to submit violation severity levels for all requirements and sub-requirements at issue in this proceeding within 30 days from the effective date of this final rule, as discussed below and as indicated in Attachment A.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 46	5/29/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10665 - ...direct the ERO to remove violation severity level assignments for Requirements R2 and R2.6 of FAC-010-2 and Requirement R2 of FAC-011-2.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 50	5/29/2009
S- Ref 10666 - ...direct the ERO to review those requirements for consistency with Violation Severity Level Order Guidelines 2b, 3, and 4 and submit the results of its review the earlier of six months of the effective date of the final rule or in its Violation Severity Order Guideline 2b, 3, and 4 compliance filing due in September 2009, whichever is earlier.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 52	3/21/2011
S- Ref 10667 - ...direct the ERO to review the violation severity levels assigned to Requirement R4 for consistency with Violation Severity Level Order Guidelines 2b, 3, and 4 within six months of the effective date of the final rule or in its Violation Severity Level Order Guideline 2b, 3, and 4 compliance filing, whichever is earlier.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 64	3/21/2011
S- Ref 10668 - ...direct the ERO to assign binary violation severity levels to each sub-requirement. Sub-requirements R4.1 through R4.3 are binary requirements and should be assigned a single violation severity level.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 65	5/29/2009
S- Ref 10669 - ...directs the ERO to modify Requirement R3 of FAC-011-2 to assign a Severe violation severity level to Requirement R3 of FAC-011-2 where the reliability coordinator is missing a description of four or more sub-requirements, within the range of R3.1 through R3.7, from its methodology for determining system operating limits.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 70	5/29/2009
S- Ref 10670 - ...directs the ERO to file revised violation severity levels for FAC-011-2, Requirement R3 within 30 days of the issuance of this final rule, as discussed above and as indicated in Attachment A.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 71	5/29/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10671 - ...directs the ERO to review the violation severity levels assigned to Requirement R4 for consistency with Violation Severity Level Order Guidelines 2b, 3, and 4 and submit the results of the review either within six months of the effective date of the final rule or in its Violation Severity Level Order Guideline 2b, 3, and 4 compliance filing, whichever is earlier.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 74	5/29/2009
S- Ref 10672 - direct the ERO to assign binary violation severity levels to each sub-requirement. Sub-requirements R4.1 through R4.3 are binary requirements and should be assigned a single violation severity level.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 75	5/29/2009
S- Ref 10673 - ...directs the ERO to review the violation severity levels assigned to the subject requirements for consistency with Violation Severity Level Order Guidelines 2b, 3, and 4 and submit the results of its review either within six months of the effective date of the final rule or in its Violation Severity Level Order Guideline 2b, 3, and 4 compliance filing, whichever is earlier	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 81	3/21/2011
S- Ref 10674 - ...directs the ERO to review the violation severity levels assigned to Requirement R4 for consistency with Violation Severity Level Order Guidelines 2b, 3, and 4 and submit the results of its review either within six months of the effective date of the final rule or in its Violation Severity Level Order Guideline 2b, 3, and 4 compliance filing, whichever is earlier.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 84	3/21/2011
S- Ref 10675 - ...directs the ERO to assign binary violation severity levels to Requirement R6 and sub-requirements R6.1 and R6.2.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 89	5/29/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10676 - The Commission agrees with BPAs comment relevant to designating the Regional Differences section of FAC-011-2 as section E and directs the ERO to file this revision within 30 days of the effective date of this final rule.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 98	5/29/2009
S- Ref 10677 - ...directs WECC to apply the violation risk factors approved for FAC-010-1 Requirements R2.4 and R2.5 and FAC-011-1 Requirement R3.3 to the WECC regional difference version of FAC-010-2 Requirements 1.1 through 1.3 and FAC-011-2 Requirement 1.1 through 1.3.5.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 99	5/29/2009
S- Ref 10678 The Commission directs WECC to assign a Severe violation severity level to the WECC regional difference FAC-010-2 Requirement 1.1 and FAC-011-2 Requirement 1.1. In addition, the Commission directs WECC to apply a Severe violation severity level to the WECC regional difference FAC-010-2 Requirement 1.2 through 1.3 and FAC-011-2 Requirements 1.2 through 1.3.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 100 Sen 2	5/29/2010
S- Ref 10679 The Commission directs the ERO to file revised violation risk factors and violation severity levels for the regional difference within 30 days of the effective date of this final rule.	Version Two Facilities Design, Connections and Maintenance Reliability Standards	3/20/2009	Order 722	RM08-11-000	Para 100 Sen 5	7/6/2009
S- Ref 10680 - ...directs the ERO to develop a modification to Reliability Standard CIP-006-2, through the NERC Reliability Standards development process, to add a requirement on visitor control programs, including the use of visitor logs to document entry and exit, within 90 days from the date of this order.	Order Approving Revised Reliability Standards for CIP - Docket No. RD09-7	9/30/2009	128 FERC ¶ 61,291	RD09-7-000	Para 30	12/29/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10681 - ...direct the ERO to develop a modification to Reliability Standard CIP-006-2, through the NERC Reliability Standards development process, to add a requirement on visitor control programs, including the use of visitor logs to document entry.	Order Approving Revised Reliability Standards for CIP - Docket No. RD09-7	9/30/2009	128 FERC ¶ 61,291	RD09-7-000	Para 30	12/29/2009
S- Ref 10682 - ...direct the ERO to develop a modification to Reliability Standard CIP-008-2, Requirement R1.6, through the NERC Reliability Standards development process, to remove the last sentence of CIP-008-2 Requirement R1.6.	Order Approving Revised Reliability Standards for CIP - Docket No. RD09-7	9/30/2009	128 FERC ¶ 61,291	RD09-7-000	Para 38	12/29/2009
S- Ref 10683 - ...direct the ERO to develop a modification to Reliability Standard CIP-008-2, Requirement R1.6, through the NERC Reliability Standards development process, to remove the last sentence of CIP-008-2 Requirement R1.6.	Order Approving Revised Reliability Standards for CIP - Docket No. RD09-7	9/30/2009	128 FERC ¶ 61,291	RD09-7-000	Para 38	12/29/2009
S- Ref 10684 - ...direct NERC to submit, within 90 days of the date of issuance of this order, a compliance filing that includes a revised Version 2 Implementation Plan, addressing the Version 2 CIP Reliability Standards, that clarifies the matters specified in the attachment to this order.	Order Approving Revised Reliability Standards for CIP - Docket No. RD09-7	9/30/2009	128 FERC ¶ 61,291	RD09-7-000	Para 41	12/29/2009
S- Ref 10685 - ...We direct NERC to submit, within 90 days of the date of issuance of this order, a compliance filing that includes a revised Version 2 Implementation Plan, addressing the Version 2 CIP Reliability Standards, that clarifies the matters specified in the attachment to this order.	Order Approving Revised Reliability Standards for CIP - Docket No. RD09-7	9/30/2009	128 FERC ¶ 61,291	RD09-7-000	Para 41	12/29/2009
S- Ref 10686 - ...direct NERC to submit as part of the compliance filing required by this order an update of the timetable that reflects the plan to address remaining Commission directives from Order No. 706.	Order Approving Revised Reliability Standards for CIP - Docket No. RD09-7	9/30/2009	128 FERC ¶ 61,291	RD09-7-000	Para 44	12/29/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10687 - ...direct NERC to submit as part of the compliance filing required by this order an update of the timetable that reflects the plan to address remaining Commission directives from Order No. 706.	Order Approving Revised Reliability Standards for CIP - Docket No. RD09-7	9/30/2009	128 FERC ¶ 61,291	RD09-7-000	Para 44	12/29/2009
S- Ref 10688 - ...directs NERC to develop modifications to the CIP Reliability Standards using its Reliability Standards Development Process within 90 days of the date of this order, as discussed in the body of this order.	Order Approving Revised Reliability Standards for CIP - Docket No. RD09-7	9/30/2009	128 FERC ¶ 61,291	RD09-7-000	Para C	12/29/2009
S- Ref 10689 - ...directs NERC to make a compliance filing within thirty days of the date of this order submitting to the Commission the following information: <ul style="list-style-type: none"> <li>• the anticipated date the scope of systems determination framework will be finalized;</li> <li>• the status of the development of the exemption process;</li> <li>• whether the exemption process will include: (i) an application deadline and (ii) a deadline for a determination on an exemption request; and</li> <li>• a description of any other time parameters that may be included in the exemption process."</li> </ul>	Order Denying Rehearing and Granting Clarification - Docket No. RM06-22-010	12/17/2009	129 FERC ¶ 61,224	RM06-22-010	Para 14	1/19/2010
S- Ref 10690 - ...direct NERC to submit as part of its compliance filing, a revised Implementation Plan that incorporates Version 2 CIP Standards into the Implementation Plan schedule.	Order Denying Rehearing and Granting Clarification - Docket No. RM06-22-010	12/17/2009	129 FERC ¶ 61,224	RM06-22-010	Para 15	1/19/2010

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10691 - Further, in future filings proposing modifications to the CIP Standards, NERC must address how owners and operators of nuclear power plants located in the United States will implement the revised CIP Standards and whether owners and operators can implement the revised CIP Standards under the proposed Implementation Plan. If NERC does not believe that such future modifications can be implemented under the Implementation Plans schedule, NERC must propose in the filing a new implementation plan addressing nuclear power plant owners and operators compliance with the proposed modifications.	Order Denying Rehearing and Granting Clarification - Docket No. RM06-22-010	12/17/2009	129 FERC ¶ 61,224	RM06-22-010	Para 16	1/19/2010
S- Ref 10692 - ERO should consider the appropriateness of developing a memorandum of understanding with the NRC, or revising existing agreements, to address such matters as NRC staff consultation in the exception application process and sharing of Safeguard Information.	Order Denying Rehearing and Granting Clarification - Docket No. RM06-22-010	12/17/2009	129 FERC ¶ 61,224	RM06-22-010	Para 17	1/19/2010
S- Ref 10693 - Revise section 1.3 as necessary to designate CIP-006-1 R1.1 as an Applicable Requirement subject to the TFE procedure.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 20	4/21/2010
S- Ref 10694 - ...direct the ERO to submit a compliance filing, within 90 days of the date of this order, identifying the purpose of a Class-Type TFE list and defining the process for identifying Class-Type TFEs and the procedure for publishing and maintaining the Class-Type TFE list.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 27	4/21/2010



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10695 - ...directs NERC to provide a semi-annual, non-public report to the Commission tracking additions, modifications, and deletions to the Class-Type TFE list and describing the reasons behind the changes.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 28	1/1/2012
S- Ref 10696 - ...direct NERC: (1) to designate which entity or entities will determine under section 3.1(iv) what safety risks or issues outweigh the benefits of Strict Compliance with the Applicable Requirement, (2) to designate the entity or entities responsible for determining under section 3.1(vi) what costs far exceed the benefits to the reliability of the Bulk Electric System, and (3) to specify the manner in which reliability benefits are intended to be quantified to make this determination.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 32	4/21/2010
S- Ref 10697 - ...direct NERC to modify section 3.2 of Appendix 4D to require any alternative means of compliance to achieve a comparable level of security as Strict Compliance with the requirement.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 35	4/21/2010
S- Ref 10698.2 - ...direct NERC to establish a uniform set of required information for the Part A submission and incorporate it in into its Rules of Procedure. Creating a uniform set of required information will ensure consistency among the regions and will ensure that NERC is receiving all of the information necessary to prepare its required reports.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 38	4/21/2010

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10698.1 - ...directs NERC to establish a uniform set of required information for the Part A submission and incorporate it in into its Rules of Procedure. Creating a uniform set of required information will ensure consistency among the regions and will ensure that NERC is receiving all of the information necessary to prepare its required reports.	Order Denying Rehearing and Granting Clarification - Docket No. RM06-22-010	12/17/2009	129 FERC ¶ 61,224	RM06-22-010	Para 14	1/19/2010
S- Ref 10699 - Due to concerns over the frequency and complexity of TFE use as well as concerns over both time and the adequacy of Regional Entity resources, the Commission believes that the burden of establishing a valid TFE should remain squarely with the Responsible Entity requesting it. Accordingly, we direct NERC to change section 5.2.5 of Appendix 4D to address this concern.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 42	4/21/2010
S- Ref 10700 - The Commission approves section 5.3 and also directs NERC to revise this section as discussed below. NERC must submit revisions to section 5.3 in a compliance filing within ninety days of the date of this order.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 45	4/21/2010
S- Ref 10701 - ...direct NERC to use, on an interim basis until NERC files and the Commission approves the compliance filing addressing this issue, an outer limit on Effective Dates of no longer than 60 days after issuance of a notice of rejection and no longer than 90 days after the issuance of a notice of disapproval.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 46	4/21/2010
S- Ref 10702 - If the Regional Entity determines that exceptional circumstances warrant an Effective Date that is after the proscribed outer limit, we direct the Regional Entity to provide a detailed explanation of such determination in the notice of rejection/disapproval to the Responsible Entity and to provide a copy of such notice to NERC.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 47	4/21/2010

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10703 - The Commission will not tolerate TFE Requests that were not made in good faith or that were fraudulent and we fully expect NERC and Regional Entity staff to monitor TFE requests to detect the misuse of the exceptions procedure. Accordingly, the Commission directs NERC to add a provision to this effect in its 90-day compliance filing.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 48	4/21/2010
S- Ref 10704 - NERCs annual report to the Commission should address circumstances and justifications for TFEs and the mitigation measures used to address vulnerabilities.	Order Approving Technical Feasibility Exception Procedures and Ordering Compliance Filing	1/21/2010	130 FERC ¶ 61,050	RR10-1-000	Para 32 Footnote 44	9/28/2011
S- Ref 10705 - ...direct the ERO to submit a modification to Table I, footnote b of Reliability Standard TPL-002-0 that complies with the Commissions directive in Order No. 693, by June 30, 2010.	Order Setting Deadline for Compliance - Docket No. RM06-16-009	3/18/2010	130 FERC ¶ 61,200	RM06-16-009	Para 8	3/31/2011 (FERC proposed remand)
S- Ref 10706 - ...directs NERC to make a compliance filing submitting implementation plans for the implementation of Versions 2 and 3 of the CIP Standards by owners and operators of U.S. nuclear power plants on the same schedule established for Version 1 under the Implementation Plan.	Order Addressing Compliance Filing and Approving Implementation Plan	3/18/2010	130 FERC ¶ 61,185	RM06-22-011	Para 2	11/30/2010
S- Ref 10707 - Should NERC become aware that it will be unable to complete the scope of systems determinations within NERCs projected timeframe (R + 8 months), NERC must timely notify the Commission of the reason for the delay and propose an alternate deadline.	Order Addressing Compliance Filing and Approving Implementation Plan	3/18/2010	130 FERC ¶ 61,185	RM06-22-011	Para 20	11/30/2010
S- Ref 10708 - ...direct NERC to submit a compliance filing modifying 57 sets of Violation Severity Level assignments within 60 days of the issuance of this order.	Order Addressing VSL Assignments for CIP Reliability Standards - Docket No. RM06-22-008	3/18/2010	130 FERC ¶ 61,211	RM06-22-008	Para 1	5/17/2010

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10709 - ...direct NERC to revise seventeen sets of Violation Severity Level assignments, specified in the Appendix, to address interdependency concerns discussed above.	Order Addressing VSL Assignments for CIP Reliability Standards - Docket No. RM06-22-008	3/18/2010	130 FERC ¶ 61,211	RM06-22-008	Para 23	5/17/2010
S- Ref 10710 - ...direct NERC to revise specific Violation Severity Level assignments, specified in the Appendix, to address the concern described above about levels of non-compliance.	Order Addressing VSL Assignments for CIP Reliability Standards - Docket No. RM06-22-008	3/18/2010	130 FERC ¶ 61,211	RM06-22-008	Para 27	5/17/2010
S- Ref 10711 - ...direct NERC to remove the extraneous language concerning the date of training.	Order Addressing VSL Assignments for CIP Reliability Standards - Docket No. RM06-22-008	3/18/2010	130 FERC ¶ 61,211	RM06-22-008	Para 32	5/17/2010
S- Ref 10712 - ...direct the ERO to revise certain Violation Severity Level assignments to remove ambiguity and improve consistency, as set forth in the Appendix.	Order Addressing VSL Assignments for CIP Reliability Standards - Docket No. RM06-22-008	3/18/2010	130 FERC ¶ 61,211	RM06-22-008	Para 33	5/17/2010
S- Ref 10713 - Also, pursuant to section 215(d)(5) of the FPA, the Commission adopts some of the proposed modifications in the NOPR and thus directs certain modifications to the Reliability Standard. Unless stated otherwise, the Commission directs the ERO to submit these modifications no later than one year from the date of this Final Rule.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 16	3/18/2011
S- Ref 10714 - ...direct the ERO to modify PRC-023-1 to apply an add in approach to certain sub-100 kV facilities that Regional Entities have already identified or will identify in the future as critical facilities for the purposes the Compliance Registry.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 47	3/18/2011

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10715 - ...direct the ERO to modify Requirement R3 of the Reliability Standard to include the test that planning coordinators must use to identify sub-200 kV facilities that are critical to the reliability of the bulk electric system.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 47 Sen 3	3/18/2011
S- Ref 10716 - ...direct the ERO to modify Requirement R3 of the Reliability Standard to specify the test that planning coordinators must use to identify all critical facilities.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 50	3/18/2011
S- Ref 10717 - ...direct the ERO to modify PRC-023-1 to apply an “add in” approach to sub-100 kV facilities that are owned or operated by currently-Registered Entities or entities that become Registered Entities in the future, and are associated with a facility that is included on a critical facilities list.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 60	3/18/2011
S- Ref 10718 - ...direct that additions to the Regional Entities critical facility list be tested for their applicability to PRC-023-1 and made subject to the Reliability Standard as appropriate.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 60	3/18/2011
S- Ref 10719 - ...direct the ERO to file its test, and the results of applying the test to a representative sample of utilities from each of the three Interconnections, for Commission approval no later than one year from the date of this Final Rule.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 69	3/18/2011
S- Ref 10720 - ...direct the ERO to modify Requirement R3 of the Reliability Standard to specify the test that planning coordinators must use to determine whether a sub-200 kV facility is critical to the reliability of the Bulk-Power System.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 69	3/18/2011

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10721 - The ERO must develop a test that: (a) defines expectations of desirable system performance; and (b) describes the steady state and dynamic base cases that the planning coordinator must use in its assessments to carry out Requirement R3. The goal of the test must be consistent with the general reliability principles embedded in the existing series of TPL, Transmission Operations (TOP), Reliability Coordination (IRO), and Protection and Control (PRC) Reliability Standards.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 80	3/18/2011
S- Ref 10722 - ...direct the ERO to develop an appeals process (or point to a process in its existing procedures) and submit it to the Commission no later than one year after the date of this Final Rule.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 97	3/18/2011
S- Ref 10723 - ...direct the ERO to submit to the Commission an updated and specific timeline explaining when it expects to develop and submit a proposed Reliability Standard addressing generator relay loadability.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 105	7/16/2010
S- Ref 10724 - ...expect the ERO to develop the Reliability Standard addressing generator relay loadability as a new Standard, with its own individual timeline, and not as a revision to an existing Standard.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 106 (See also Para 104 - 105)	9/30/2013
S- Ref 10725 - ...direct the ERO to develop a Reliability Standard that requires the use of protective relay systems that can differentiate between faults and stable power swings and, when necessary, phases out protective relay systems that cannot meet this requirement.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 150	3/18/2011
S- Ref 10726 - ...direct the ERO to file a report no later than 120 days of this Final Rule addressing the issue of protective relay operation due to power swings.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 150	7/16/2010

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S- Ref 10727 - direct the ERO to develop a Reliability Standard addressing undesirable relay operation due to stable power swings.</p> <p>Order 733-A P104: We deny rehearing and provide the following clarification. We continue to believe that not addressing stable power swings constitutes a gap in the current Reliability Standards and must be addressed. Therefore, we retain the directive, pursuant to section 215(d)(5) to direct the ERO to develop a Reliability Standard addressing stable power swings.</p>	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733; Order 733-A	RM08-13-000	Order 733 Para 153; Order 733-A Para 104	12/31/2014
<p>S- Ref 10728 - ...direct the ERO to consider islanding strategies that achieve the fundamental performance for all islands in developing the new Reliability Standard addressing stable power swings.</p>	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 162	12/31/2014
<p>S- Ref 10729 - ...direct the ERO to develop a new Reliability Standard that prevents protective relays from operating unnecessarily due to stable power swings by requiring the use of protective relay systems that can differentiate between faults and stable power swings and, when necessary, phases-out relays that cannot meet this requirement.</p> <p>Order 733-B: Our directive does not require the elimination of the currently used impedance (or distance) relays as backup protection. Nor does it mandate use of a particular technology or an absolute obligation to prevent protection relays from operating unnecessarily during power stable swings. Our directive instead requires “the creation of a Reliability Standard that addresses protection systems vulnerable to stable power swings (resulting from Category B and Category C contingencies) that will result in in appropriate tripping.”</p>	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733; Order 733-B	RM08-13-000	Order 733 Para 173; Order 733-B Para 18	12/31/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10730 - ...direct the ERO to modify PRC-023-1 to require that transmission owners, generator owners, and distribution providers give their transmission operators a list of transmission facilities that implement sub-requirement R1.2.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 186	3/18/2011
S- Ref 10731 - ...direct the ERO to modify sub-requirement R1.10 so that it requires entities to verify that the limiting piece of equipment is capable of sustaining the anticipated overload for the longest clearing time associated with the fault.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 203	3/18/2011
S- Ref 10732 - ...direct the ERO to document, subject to audit by the Commission, and to make available for review to users, owners and operators of the Bulk-Power System, by request, a list of those facilities that have protective relays set pursuant sub-requirement R1.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 224	3/18/2011
S- Ref 10733 - ...direct the ERO to modify the Reliability Standard to add the Regional Entity to the list of entities that receive the critical facilities list.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 237	3/18/2011
S- Ref 10734 - ...direct the ERO to include section 2 of Attachment A in the modified Reliability Standard as an additional Requirement with the appropriate violation risk factor and violation severity level.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 244	3/18/2011
S- Ref 10735 - ...direct the ERO to revise section 1 of Attachment A to include supervising relay elements on the list of relays and protection systems that are specifically subject to the Reliability Standard.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 264	3/18/2011
S- Ref 10736 - ...direct the ERO to modify the Reliability Standard to include an implementation plan for sub-100 kV facilities.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 283	3/18/2011



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10737 - ...direct the ERO to remove the exceptions footnote from the Effective Dates section.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 284	3/18/2011
S- Ref 10738 - ...direct the ERO to assign a high violation risk factor to Requirement R3 and to file the new violation risk factor no later than 30 days after the date of this Final Rule.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 297	4/19/2010
S- Ref 10739 - ...direct the ERO to assign a single violation severity level of severe for violations of Requirement R1.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 308	4/19/2010
S- Ref 10740 - ...direct the ERO to change the violation severity level assigned to Requirement R2 from lower to severe to be consistent with Guideline 2a.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 310	4/19/2010
S- Ref 10741 - ...direct the ERO to assign a severe violation severity level to Requirement R3.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 311	4/19/2010
S- Ref 10742 - ...direct the ERO to file the new violation severity levels described in our discussion no later than 30 days after the date of this Final Rule.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 312	4/19/2010
S- Ref 10743 - ...direct that the ERO submit, within 30 days after the technical conference, a proposed schedule that includes interim targets for completing studies and analyses needed to develop a frequency response requirement, and a firm compliance deadline for submission of a modified Reliability Standard that is responsive to the Commission directives in Order No. 693 pertaining to Reliability Standard BAL-003-0.	Order Granting Rehearing for Further Consideration and Scheduling Technical Conference - Docket No. RM06-16-011	5/13/2010	131 FERC ¶ 61,136	RM06-16-011	Para 15	10/25/2010

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S- Ref 10744 - ...direct NERC to consider the following practices for use during the Standards development process as possible means to accomplish these objectives: (1) posting proposed regional Reliability Standards for comment from the continent-wide pool of interested stakeholders for consideration, while allowing the regional open processes to make final determinations to be submitted to NERC; (2) providing for comments from NERC technical staff on proposed regional Reliability Standards; and (3) including regional Reliability Standards in other NERC review processes that it uses for continent-wide Reliability Standards. We further direct NERC to discuss its considerations regarding these suggestions in the informational filing due six months from the date of this order.</p>	<p>Order on the Electric Reliability Organization's Three-year Performance Assessment</p>	<p>9/16/2010</p>	<p>3-yr assessment Docket Nos. RR09-7-000 and AD10-14-000</p>	<p>RR09-7-000; AD10-14-000</p>	<p>Para 76</p>	<p>3/16/2011</p>
<p>S- Ref 10745 - ...direct NERC to submit quarterly reports for an additional three years from the date of the order. In addition to the contents described in the January 2007 order, the quarterly reports must include separate analyses of: (i) the time required to complete projects (i.e., excluding urgent action projects); (ii) the time required to complete projects initiated in response to NERC's urgent action progress (including whether or not a permanent fix was implemented within the sunset period); and (iii) the time required to complete projects in response to Commission directives.</p>	<p>Order on the Electric Reliability Organization's Three-year Performance Assessment</p>	<p>9/16/2010</p>	<p>3-yr assessment Docket Nos. RR09-7-000 and AD10-14-000</p>	<p>RR09-7-000; AD10-14-000</p>	<p>Para 85</p>	<p>5/2/2011</p>
<p>S- Ref 10746 - Rather than devising a revised exemption process in the Final Rule, we direct the ERO to develop a proposed exemption process.</p>	<p>Revision to ERO Definition of BES</p>	<p>11/18/2010</p>	<p>Order 743</p>	<p>RM09-18-000</p>	<p>Para 112</p>	<p>1/25/2012</p>

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10747 - ...direct that the ERO submit, within 30 days after the technical conference, a proposed schedule that includes interim targets for completing studies and analyses needed to develop a frequency response requirement, and a firm compliance deadline for submission of a modified Reliability Standard that is responsive to the Commission directives in Order No. 693 pertaining to Reliability Standard BAL-003-0.	Revision to ERO Definition of BES	11/18/2010	Order 743	RM09-18-000	Para 131	1/25/2012
S- Ref 10748 - The Commission directs the ERO to revise the definition of bulk electric system through the NERC Standards Development Process to address the Commissions concerns discussed herein.	Revision to ERO Definition of BES	11/18/2010	Order 743	RM09-18-000	Para 16	1/25/2012
S- Ref 10749 - Rather than devising a revised exemption process in the Final Rule, we direct the ERO to develop a proposed exemption process.	Revision to ERO Definition of BES	11/18/2010	Order 743	RM09-18-000	Para 30	1/25/2012
S- Ref 10750 - ...direct the ERO to consider these comments regarding radial facilities in crafting an exemption methodology	Revision to ERO Definition of BES	11/18/2010	Order 743	RM09-18-000	Para 55	1/25/2012
S- Ref 10751 - ...direct NERC, in a compliance filing due within 45 days of the date of the order, to identify the entity or entities that are responsible under Reliability Standard BAL-006-2 for calculating Inadvertent Interchange inside the MISO area.	ORDER APPROVING REVISIONS TO TWO RELIABILITY STANDARDS AND DIRECTING A COMPLIANCE FILING	1/6/2011	134 FERC ¶ 61,007 Order Approving Reliability Standards	RD10-04-000	Para 6 and 9	2/22/2011
S- Ref 10752 - The Commission directs RFC to add time horizons to the two main requirements when RFC reviews BAL-502-RFC-02 at the scheduled five-year review.	Final Rule Approving Planning Resource Adequacy Assessment Standard BAL-502-RFC-02	3/17/2011	Order 747	RM10-10-000;	Para 53	Regional

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10753 - Consider, at the time of its five-year review, whether to add a requirement to BAL-502-RFC-02 that would require Planning Coordinators to identify any gap between the needed amount of planning reserves defined in Requirement R1.1 and the planning reserves determined from the resource adequacy analysis.	Final Rule Approving Planning Resource Adequacy Assessment Standard BAL-502-RFC-02	3/17/2011	Order 747	RM10-10-000;	Para 65	Regional
S- Ref 10754 - The Commission requests that the NERC Reliability Coordinators Working Group engage the issues raised in this proceeding with NERC stakeholders, including the NERC Planning and Operating committees, to determine whether a need exists to further refine the delineation of responsibilities between the reliability coordinator and transmission operator for analyzing a class of grid-impactive SOLs.	Final Rule Approving Interconnection Reliability Operating Limits Standards	3/17/2011	Order 748	RM10-15-000	Para 44	3/18/2015 Not Standards' Related (OC PC SubC)
S- Ref 10755 - The Reliability Coordinator Working Group should further study the issue of requiring both the reliability coordinator and transmission operator to develop action plans for every SOL may add confusion to the process and determine if there is a need for reliability coordinators to have action plans developed and implemented with respect to certain grid-impactive SOLs.	Final Rule Approving Interconnection Reliability Operating Limits Standards	3/17/2011	Order 748	RM10-15-000	Para 55 and 52	3/18/2015 Not Standards' Related (OC PC SubC)
S- Ref 10756 - ...directs NERC to remove the WECC regional definition of Disturbance from the NERC Glossary to ensure consistency between the regional and NERC defined terms.	Final Rule on Version One Regional Reliability Standards for Facilities Design, Connections, and Maintenance; Protection and Control; and Voltage and Reactive	4/21/2011	Order 751	RM09-9-000	Para 13	2/25/2013

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10757 - The Commission directs WECC to submit revisions to or explanations justifying specific violation risk factors and violation severity levels within 60 days from the issuance of Order 751.	Final Rule on Version One Regional Reliability Standards for Facilities Design, Connections, and Maintenance; Protection and Control; and Voltage and Reactive	4/21/2011	Order 751	RM09-9-000	Para 133 and 129 - 132	6/20/2011
S- Ref 10761 - The Commission directs WECC to file, within 60 days from the issuance of this Final Rule, its criterion for identifying and modifying major transmission paths listed in the WECC Transfer Path Table.	Final Rule on Version One Regional Reliability Standards for Facilities Design, Connections, and Maintenance; Protection and Control; and Voltage and Reactive	4/21/2011	Order 751	RM09-9-000	Para 24	6/20/2011
S- Ref 10762 - The Commission recommends that WECC consider the comments of Bonneville, PacifiCorp and TANC when it develops future modifications to FAC-501-WECC-1.	Final Rule on Version One Regional Reliability Standards for Facilities Design, Connections, and Maintenance; Protection and Control; and Voltage and Reactive	4/21/2011	Order 751	RM09-9-000	Para 32, 28, and 29	6/20/2011
S- Ref 10763 - ...direct WECC to file, within 60 days from the issuance of this Final Rule, its criteria for identifying and modifying major transmission paths listed in the WECC Transfer Path Table and major remedial actions schemes listed in the WECC Remedial Action Schemes Table.	Final Rule on Version One Regional Reliability Standards for Facilities Design, Connections, and Maintenance; Protection and Control; and Voltage and Reactive	4/21/2011	Order 751	RM09-9-000	Para 41	6/20/2011

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10764 - ...encourage WECC to consider the comments of Mariner in during the development of VAR-002-WECC-1 in its Project WECC-0046.	Final Rule on Version One Regional Reliability Standards for Facilities Design, Connections, and Maintenance; Protection and Control; and Voltage and Reactive	4/21/2011	Order 751	RM09-9-000	Para 67 and 63	2/25/2013
S- Ref 10765 - The Commission directs WECC to file, within 60 days from the issuance of Order 752, WECCs criteria for identifying and modifying major transmission paths listed in the WECC Transfer Path Table.	Final Rule on TOP-007-WECC-1	4/21/2011	Order 752	RM09-14-000	Para 43	6/20/2011 (WECC) and 7/21/2011 (NERC)
S- Ref 10766 - The Commission directs WECC to file, within 120 days from the issuance of Order 752, a modification to the VRF for Requirement R1 of TOP-007-WECC-1.	Final Rule on TOP-007-WECC-1	4/21/2011	Order 752	RM09-14-000	Para 50 and 49	6/20/2011 (WECC) and 7/21/2011 (NERC)
S- Ref 10767 - The Commission directs WECC to file, within 120 days from the issuance of Order 752, a modification to the VRF for Requirement R2 of TOP-007-WECC-1.	Final Rule on TOP-007-WECC-1	4/21/2011	Order 752	RM09-14-000	Para 51	6/20/2011 (WECC) and 7/21/2011 (NERC)
S- Ref 10768 - The Commission directs WECC to file, within 120 days from the issuance of Order 752, modifications to the VSLs for TOP-007-WECC-1 to reflect NERCs approved table format.	Final Rule on TOP-007-WECC-1	4/21/2011	Order 752	RM09-14-000	Para 53	6/20/2011 (WECC) and 7/21/2011 (NERC)
S- Ref 10769 - ...direct the ERO to re-file the violation risk factors associated with the Requirements of PRC-023-1 when it submits its comprehensive plan.	Transmission Relay Loadability Reliability Standard - Docket No. RM08-13	3/18/2010	Order 733	RM08-13-000	Para 295 Footnote 197	4/19/2010

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10780 - The Commission remands to the ERO the proposed interpretation of VAR-001-1, Requirement R4 and directs the ERO to revise the interpretation consistent with the Commissions discussion below. [Note: see the Order Issued on May 21, 2009 for the complete details.]	Electric Reliability Organization Interpretations of Specific Requirements of Frequency Response and Bias and Voltage and Reactive Control Reliability Standards	5/21/2009	Order 724	RM08-16-000	Para 47	6/9/2014
S- Ref 10781 - We note that, with respect to the Critical Infrastructure Protection (CIP) Reliability Standards, NERC has developed a separate implementation plan that essentially gives responsible entities some lead time before newly acquired assets must be in compliance with the effective CIP Reliability Standards. We direct NERC to consider the necessity of developing a similar implementation plan with respect to PER-005-1, Requirement R3.1.	System Personnel Training Reliability Standards	11/18/2010	Order 742	RM09-25-000	Para 24	3/7/2014
S- Ref 10782 - ...direct the ERO to develop through a separate Reliability Standards development project formal training requirements for local transmission control center operator personnel.	System Personnel Training Reliability Standards	11/18/2010	Order 742	RM09-25-000	Para 64	3/7/2014
S- Ref 10783 - ...directs NERC to develop a definition of local transmission control center in the standards development project for developing the training requirements for local transmission control center operator personnel.	System Personnel Training Reliability Standards	11/18/2010	Order 742	RM09-25-000	Para 64	3/7/2014
S- Ref 10784 - ...encourage NERC to complete its generic performance measures project.	System Personnel Training Reliability Standards	11/18/2010	Order 742	RM09-25-000	Para 70	6/12/2012

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10785 - Once the Standard is effective, if industry determines that ambiguity with the term arises, it would be appropriate for NERC to consider its proposal to develop a guideline to aid entities in their compliance obligations.	System Restoration	3/17/2011	Order 749	RM10-16-000	Para 24 and 18	3/27/2017
S- Ref 10786 - NERC should close the gap in the applicability of the draft COM-001-2 so it addresses generation operators and distribution providers.	System Restoration	3/17/2011	Order 749	RM10-16-000	Para 28	5/14/2014
S- Ref 10787 - ...encourage NERC to consider the comments of PacifiCorp regarding the development of a continent-wide definition of Functionally Equivalent Protection System and Functionally Equivalent Remedial Action Scheme during the development of Project 2009-07.	Final Rule on Version One Regional Reliability Standards for Facilities Design, Connections, and Maintenance; Protection and Control; and Voltage and Reactive	4/21/2011	Order 751	RM09-9-000	Para 50 and 47	Not standards' related (RAPA) 3/5/2013
S- Ref 10788 - ...direct NERC to make an informational filing within six months of the date of the issuance of Order 754 explaining whether there is a further system protection issue that needs to be addressed.	Order Approving Interpretation of Transmission Planning Reliability Standard in Docket No. RM10-6-000	9/15/2011	Order 754	RM10-6-000	Para 20	3/15/2012
S- Ref 10789 - ...direct NERC to either provide additional justification for these VRF designations or propose a revised VRF designation that addresses our concerns.	Order Approving Reliability Standard FAC-013-2	11/17/2011	137 FERC ¶ 61,131 Order Approving FAC-013-2	RD11-3-000	Para 23	1/17/2012
S- Ref 10790 - ...direct NERC to modify the VSL language for Requirement R1 to correct a typographical error.	Order Approving Reliability Standard FAC-013-2	11/17/2011	137 FERC ¶ 61,131 Order Approving FAC-013-2	RD11-3-000	Para 27	1/17/2012



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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10791 - ...direct NERC to submit a compliance filing by January 16, 2012 to correct VSLs and VRFs.	Order Approving Reliability Standard FAC-013-2	11/17/2011	137 FERC ¶ 61,131 Order Approving FAC-013-2	RD11-3-000	Para 28	1/17/2012
S- Ref 10792 - ...direct the ERO to modify the VRF assignment for FAC-008-3, Requirement R2 to medium and to submit the modification in a compliance filing within 60 days from the date this order issues (by January 16, 2012).	Order Approving Reliability Standard FAC-008-3	11/17/2011	137 FERC ¶ 61,123 Order Approving FAC-008-3	RD11-10-000	Para 24	1/17/2012
S- Ref 10793 - ...direct the ERO to consult with federal entities that are required to comply with both CIP Reliability Standards and NIST standards on the effectiveness of the NIST standards and on implementation issues and report these findings to the Commission.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 233 (See also Para 25)	1/31/2013
S- Ref 10794 - ...direct the ERO to consider the comment from ISA99 Team [ISA99 Team objects to the exclusion of communications links from CIP-002-1 and non-routable protocols from critical cyber assets, arguing that both are key elements of associated control systems.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 285 (See also 278)	1/31/2013
S- Ref 10795 - ...direct that the ERO develop through its Reliability Standards development process a mechanism for external review and approval of critical asset lists.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 322 (See also 323 - 325)	2/10/2011
S- Ref 10796 - ...direct the ERO, using its Reliability Standards development process, to develop a process of external review and approval of critical asset lists based on a regional perspective.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 329 (See also 327 - 328)	2/10/2011
S- Ref 10797 - ...direct the ERO to clarify that the exceptions mentioned in Requirements R2.3 and R3 of CIP-003-1 do not except responsible entities from the Requirements of the CIP Reliability Standards.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 376	1/31/2013

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10798 - ...direct the ERO to develop modifications to Reliability Standards CIP-003-1, CIP-004-1, and/or CIP-007-1, to ensure and make clear that, when access to protected information is revoked, it is done so promptly.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 386	1/31/2013
S- Ref 10799 - ...direct the ERO to consider, in developing modifications to CIP-004-1, whether identification of core training elements would be beneficial and, if so, develop an appropriate modification to the Reliability Standard.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 433	1/31/2013
S- Ref 10800 - ...direct the ERO to modify Requirement R2 of CIP-004-1 to clarify that cyber security training programs are intended to encompass training on the networking hardware and software and other issues of electronic interconnectivity.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 434	1/31/2013
S- Ref 10801 - ...direct the ERO to determine what, if any, modifications to CIP-004-1 should be made to assure that security trainers are adequately trained themselves.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 435	1/31/2013
S- Ref 10802 - ...direct the ERO to develop modifications to CIP-004-1 to require immediate revocation of access privileges when an employee, contractor or vendor no longer performs a function that requires physical or electronic access to a critical cyber asset for any reason (including disciplinary action, transfer, retirement, or termination).	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 460	1/31/2013
S- Ref 10803 - ...direct the ERO to modify Requirement R4 to make clear that unescorted physical access should be denied to individuals that are not identified on the authorization list, with clarification.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 464	1/31/2013
S- Ref 10804 - The ERO should consider the suggestions raised by Northern Indiana, SPP and NRECA in the Reliability Standards development process.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 475 (See also para 470 - 472)	1/31/2013

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10805 - ...direct the ERO to modify CIP-004-1, and other CIP Reliability Standards as appropriate, through the Reliability Standards development process to address critical cyber assets that are jointly owned or jointly used.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 476 (See also para 473 and 466 - 468)	1/31/2013
S- Ref 10806 - ...direct the ERO to identify examples of specific verification technologies that would satisfy Requirement R2.4, while also allowing compliance pursuant to other technically equivalent measures or technologies.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 511	1/31/2013
S- Ref 10807 - The Commission adopts the CIP NOPR proposal to require the ERO to modify CIP-005-1 to require logs to be reviewed more frequently than 90 days.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 525	1/31/2013
S- Ref 10808 - ...direct the ERO to modify CIP-005-1 through the Reliability Standards development process to require manual review of those logs without alerts in shorter than 90 day increments.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 526	1/31/2013
S- Ref 10809 - ...direct the ERO to modify CIP-005-1 to require some manual review of logs, consistent with our discussion of log sampling below, to improve automated detection settings, even if alerts are employed on the logs.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 526	1/31/2013
S- Ref 10810 - The Commission clarifies its direction with regard to reviewing logs. In directing manual log review, the Commission does not require that every log be reviewed in its entirety. Instead, the ERO could provide, through the Reliability Standards development process.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 528	1/31/2013
S- Ref 10811 - We adopt the EROs proposal to provide for active vulnerability assessments rather than full live vulnerability assessments.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 541	1/31/2013

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10812 - The Commission adopts the EROs recommendation of requiring active vulnerability assessments of test systems.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 542	1/31/2013
S- Ref 10813 - ...direct the ERO to revise the Reliability Standard so that annual vulnerability assessments are sufficient, unless a significant change is made to the electronic security perimeter or defense in depth measure, rather than with every modification.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 544	1/31/2013
S- Ref 10814 - ...direct the ERO to determine, through the Reliability Standards development process, what would constitute a modification that would require an active vulnerability assessment.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 544	1/31/2013
S- Ref 10815 - ...direct the ERO to develop a modification to CIP-006-1 to require a responsible entity to test the physical security measures on critical cyber assets more frequently than every three years.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 581	1/31/2013
S- Ref 10816 - ...direct the ERO to develop requirements addressing what constitutes a representative system and to modify CIP-007-1 accordingly.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 609 Sen 5	1/31/2013
S- Ref 10817 - ...direct the ERO to consider providing further guidance on testing systems in a reference document.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 609 Sen 6	1/31/2013
S- Ref 10818 - ...direct the ERO to revise the Reliability Standard to require each responsible entity to document differences between testing and production environments.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 610	1/31/2013

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10819 - The Commission cautions that certain changes to a production or test environment might make the differences between the two greater and directs the ERO to take this into account when developing guidance on when to require updated documentation.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 611	1/31/2013
S- Ref 10820 - The Commission believe that NERC should register demand side aggregators if the loss of their load shedding capability, for reasons such as a cyber incident, would affect the reliability or operability of the Bulk-Power System.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 051	Not Standards' related (NERC Registration)
S- Ref 10821 - The Commission continues to believe that, in general, logs should be reviewed at least weekly and therefore adopts the CIP NOPR proposal to require the ERO to modify CIP-007-1 to require logs to be reviewed more frequently than 90 days, but leaves it to the Reliability Standards development process to determine the appropriate frequency, given our clarification below, similar to our action with respect to CIP-005-1.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 628	1/31/2013
S- Ref 10822 - The Reliability Standards development process should decide the degree to which the revised CIP-007-1 describes acceptable log sampling. The ERO could also provide additional guidance on how to create the sampling of log entries, which could be in a reference document.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 629	1/31/2013
S- Ref 10823 - ...direct the ERO to clarify what it means to prevent unauthorized retrieval of data from a cyber asset prior to discarding it or redeploying it.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 633	1/31/2013
S- Ref 10824 - ...direct the ERO to revise Requirement R7 of CIP-007-1 to clarify, consistent with this discussion, what it means to prevent unauthorized retrieval of data.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 635	1/31/2013

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10825 - ...direct the ERO to provide guidance regarding what should be included in the term reportable incident.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 660	1/31/2013
S- Ref 10826 - ...direct the ERO to develop a modification to CIP-008-1 to: (1) include language that takes into account a breach that may occur through cyber or physical means; (2) harmonize, but not necessarily limit, the meaning of the term reportable incident with other reporting mechanisms, such as DOE Form OE 417; (3) recognize that the term should not be triggered by ineffectual and untargeted attacks that proliferate on the internet; and (4) ensure that the guidance language that is developed results in a Reliability Standard that can be audited and enforced.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 661	1/31/2013
S- Ref 10827 - ...direct the ERO to modify CIP-008-1 to require each responsible entity to contact appropriate government authorities and industry participants in the event of a cyber security incident as soon as possible, but, in any event, within one hour of the event, even if it is a preliminary report.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 673	1/31/2013
S- Ref 10828 - ...directs the ERO to modify CIP-008-1 to require a responsible entity to, at a minimum, notify the ESISAC and appropriate government authorities of a cyber security incident as soon as possible, but, in any event, within one hour of the event, even if it is a preliminary report.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 676	1/31/2013
S- Ref 10829 - ...direct the ERO to modify CIP-008-1, Requirement R2 to require responsible entities to maintain documentation of paper drills, full operational drills, and responses to actual incidents, all of which must include lessons learned.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 686	1/31/2013

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10830 - ...directs the ERO to include language in CIP-008-1 to require revisions to the incident response plan to address these lessons learned.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 686	1/31/2013
S- Ref 10831 - ...direct the ERO to modify CIP-009-1 to include a specific requirement to implement a recovery plan.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 694	1/31/2013
S- Ref 10832 - The Commission adopts the proposal to enforce this Reliability Standard such that, if an entity has the required recovery plan but does not implement it when the anticipated event or conditions occur, the entity will not be in compliance with this Reliability Standard.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 694	1/31/2013
S- Ref 10833 - ...direct the ERO to modify CIP- 009-1 to incorporate guidance that the backup and restoration processes and procedures required by Requirement R4 should include, at least with regard to significant changes made to the operational control system, verification that they are operational before the backups are stored or relied upon for recovery purposes.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 739	1/31/2013
S- Ref 10834 - ...direct the ERO to modify CIP-009-1 to provide direction that backup practices include regular procedures to ensure verification that backups are successful and backup failures are addressed, so that backups are available for future use.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 748	1/31/2013
S- Ref 10835 - ...direct NERC to submit a compliance filing containing the corrections noted in Appendix A of the letter Order issued on December 7, 2010 approving VSLs for FAC-014 -2 in Dockets RM08-11-002 and RM08-11-003 within 30 days of the date of the order.	Letter Order Approving VSLs for FAC-014 -2 in Dockets RM08-11-002 and RM08-11-003	12/7/2010	133 FERC ¶ 61,204	RM08-11-002; RM08-11-003	Para 006	1/6/2011



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10836 - ...direct NERC to submit a compliance filing, by March 21, 2011, re-assigning a medium designation to the VRF for CIP-003-2 Requirement R2.	Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002	1/20/2011	134 FERC ¶ 61,045	RD10-6-000; RD09-7-002	Para 015	3/21/2011
S- Ref 10837 - ...direct NERC to make specific changes to the Version 2 VSLs for CIP-004-2, CIP-005-2, and CIP-006-2 to conform to the determinations made in the CIP VSL Order for the version 1 CIP standards, based on CIP Guidelines 1 and 2, for parallel Requirement text.	Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002	1/20/2011	134 FERC ¶ 61,045	RD10-6-000; RD09-7-002	Para 022	3/21/2011
S- Ref 10838 - ...direct NERC to make modifications to CIP-003-2 Requirements R2.1 and R3.2; CIP-004-2 Requirement R3; CIP-006-2 Requirements R1.7, R4, R6, and R7; CIP-007-2 Requirement R2, R2.3, R3, R3.2, R7, and R9; and CIP-008-2 Requirement R1 to remove ambiguity and improve consistency.	Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002	1/20/2011	134 FERC ¶ 61,045	RD10-6-000; RD09-7-002	Para 023 Sen 3	3/21/2011
S- Ref 10839 - ...direct NERC to make a modification of the VSL for CIP-006-2 Requirement R3 to directly track the language of the new R3 as illustrated in Appendix 1 to the FERC Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002 issued January 20, 2011.	Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002	1/20/2011	134 FERC ¶ 61,045	RD10-6-000; RD09-7-002	Para 023 Sen 7	3/21/2011
S- Ref 10840 - The Commission directs a specific modification to the VSL for CIP-009-2 Requirement R3, as illustrated in Appendix 1 to the FERC Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002 issued January 20, 2011.	Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002	1/20/2011	134 FERC ¶ 61,045	RD10-6-000; RD09-7-002	Para 024	3/21/2011
S- Ref 10841 - The Commission directs specific modifications to the following VSLs: CIP-004-2 Requirements R1 and R2, CIP-006-2 Requirement R1.1, CIP-006-2 Requirement R1.2, and CIP-007-2 Requirement R9.	Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002	1/20/2011	134 FERC ¶ 61,045	RD10-6-000; RD09-7-002	Para 025	3/21/2011



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10842 - ...direct the ERO to modify the VSLs for CIP-007-2 Requirements R2.3 and R3.2, as illustrated in Appendix 1 to the FERC Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002 issued January 20, 2011.	Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002	1/20/2011	134 FERC ¶ 61,045	RD10-6-000; RD09-7-002	Para 026	3/21/2011
S- Ref 10843 - ...direct NERC to provide, by March 21, 2011, a complete list of all Version 2 CIP Reliability Standard Requirements, and their associated VSLs and VRFs, as determined or carried forward by the FERC Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002 issued January 20, 2011.	Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002	1/20/2011	134 FERC ¶ 61,045	RD10-6-000; RD09-7-002	Para 027	3/21/2011
S- Ref 10844 - The Commission directs specific modifications for the ERO to revise its proposed VSL for CIP-006-3 Requirement R1.6 as shown in Appendix 2 of the FERC Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002 issued January 20, 2011, and to add rows containing N/A for the new sub-requirements R1.6.1 and R1.6.2, consistent with how NERC has treated similar sub-requirements.	Order Approving VRFs and VLS for CIP Standards in Dockets RD10-6-000 and RD09-7-002	1/20/2011	134 FERC ¶ 61,045	RD10-6-000; RD09-7-002	Para 032	3/21/2011
S- Ref 10845 - The ERO should alleviate Northern Indiana's concern that documenting vulnerability test results or any mitigation or remediation plans may reveal system vulnerabilities by providing for such reports to be reviewed under the confidentiality provisions of its Rules of Procedure.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 612	1/31/2013
S- Ref 10846 - ...direct the ERO to modify Requirement R3 of CIP-009-1 to shorten the timeline for updating recovery plans.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 731	5/22/2009

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10847 - ...direct NERC to file a schedule/timeline for the development of technical documents, and associated reliability standard modifications, which 1) describe the devices and functions (to include sudden pressure relays which trip for fault conditions) that are designed to sense or take action against any abnormal system condition that will affect reliable operation of the bulk power system, and 2) propose minimum maintenance activities for such devices and maximum maintenance intervals, including the technical basis for each.	Order Approving Interpretation of Protection System Reliability Standard	2/3/2012	Order 758	RM10-5-000	Para 15	4/12/2012
S- Ref 10848 - ...direct NERC to include maintenance and testing of reclosing relays that can affect the reliable operation of the Bulk-Power System within Project 2007-17 or make an informational filing that provides a schedule for how NERC will address such issues.	Order Approving Interpretation of Protection System Reliability Standard	2/3/2012	Order 758	RM10-5-000	Para 27	2/14/2014
S- Ref 10849 - The ERO should consider the suggestion that the CIP Reliability Standards require oversight by a corporate officer (or the equivalent, since some entities do not have corporate officers) rather than by a “senior manager.”	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 296 (See also para 289 - 293)	1/31/2013
S- Ref 10850 - ...direct the ERO to modify Requirement R3 of CIP-004-1 to provide that newly-hired personnel and vendors should not have access to critical cyber assets prior to the satisfactory completion of a personnel risk assessment, except in specified circumstances such as an emergency.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 443	5/22/2009
S- Ref 10851 - ...direct the ERO to revise Requirement R8.4 to require an entity-imposed timeline for completion of the already-required action plan.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 643	1/31/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10852 - The ERO should consider Northern Indiana’s and Xcel’s concerns regarding the phrase “single access point at the dial up device.”	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 495	1/31/2013
S- Ref 10853 - ...direct the ERO to develop a requirement that use of the technical feasibility exception by a responsible entity must be accompanied by a remediation plan and timeline for elimination the use of the technical feasibility exception.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 192	5/22/2009
S- Ref 10854 - ...direct the ERO to modify Requirement R4 to include safeguards against personnel introducing, either maliciously or unintentionally, viruses or malicious software to a cyber asset within the electronic security perimeter through remote access, electronic media, or other means, consistent with our discussion above.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 622 Sen 2 (See also 614 and 619)	1/31/2013
S- Ref 10855 - ...clarify that CIP-008-1 should require a responsible entity to verify the list of entities that must be called pursuant to its cyber security incident response plan and that the contact numbers at those agencies are correct. The ERO may use a term different than full operational exercise when doing so.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 687	1/31/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10856 - ...direct NERC to address four specific questions related to PRC-023-2 — Transmission Relay Loadability in a filing to the Commission on or before February 17, 2013: 1) A summary of the base cases used in applying the Attachment B criteria and an assessment of how the base cases used for the analysis relate to TPL-003-0, Requirement R1.3.2; 2) A discussion of the types of studies that planning coordinators may use to identify circuits under Attachment B; 3) An assessment that demonstrates whether Attachment B is comprehensive enough to capture all circuits that could have an operational impact on the reliability of the bulk electric system in the context of transmission relay loadability; and 4) relay loadability under the B4 criterion consistent with Requirement R1.	Order Approving Transmission Relay Loadability Reliability Standard PRC-023-2	3/15/2012	Order 759	RM11-16-000	Para 38 (See also Para 77 and 78)	2/19/2013
S- Ref 10857 - The Commission requires NERC to utilize its Expedited Reliability Standards Development Process to develop timely modifications to TPL-002-0b, Table 1 footnote 'b' to quickly respond to the remand of TPL-002-0b detailed in FERC Order 672.	Final Rule Remanding TPL-002-0b	4/19/2012	Order 762	RM12-1-000	Para 1 (See also Para 21)	5/21/2012
S- Ref 10858 - ...direct NERC to use section 1600 of its Rules of Procedure to obtain information from users, owners and operators of the bulk-power system to identify the specific instances of any planned interruptions of Firm Demand under footnote 'b' and how frequently the provision has been used.	Final Rule Remanding TPL-002-0b	4/19/2012	Order 762	RM12-1-000	Para 20	2/28/2013
S- Ref 10859 - The Commission directs NERC to consider some blend of quantitative and qualitative thresholds while developing a limited exception or planned interruption of Firm Demand.	Final Rule Remanding TPL-002-0b	4/19/2012	Order 762	RM12-1-000	Para 57 (See also para 54 - 56)	2/28/2013
S- Ref 10860 - The Commission established a deadline for NERC to file the Version 5 CIP Reliability Standards of March 31, 2013.	Order Approving Version 4 CIP Standards	4/19/2012	Order 761	RM11-11-000	Para 13 Sen 5	1/31/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10861 - ...direct NERC to submit quarterly reports, at the beginning of each quarter, in which it is to both confirm that it is on track to meet the deadline of filing the Version 5 CIP Reliability Standards by March 31, 2013 and to describe the status of the Version 5 CIP Reliability Standards development efforts.	Order Approving Version 4 CIP Standards	4/19/2012	Order 761	RM11-11-000	Para 13 Sen 6	7/2/2012
S- Ref 10862 - ...direct NERC to modify requirement R9 of PRC-006-1 to explicitly require corrective action in accordance with a schedule established by the planning coordinator.	Order Approving Automatic Underfrequency Load Shedding and Load Shedding Plans	5/7/2012	Order 763	RM11-20-000	Para 48	12/15/2014
S- Ref 10863 - The Commission directs NERC to submit a compliance filing within 30 days of the effective date of FERC Order 763 (approximately August 9, 2012) providing a plan for modifying PRC-006-1 to explicitly require corrective action in accordance with a schedule established by the planning coordinator (see directive 10862).	Order Approving Automatic Underfrequency Load Shedding and Load Shedding Plans	5/7/2012	Order 763	RM11-20-000	Para 48	8/9/2012
S- Ref 10864 - ...direct NERC to submit a revised VRF of Requirement R5 of PRC-006-1 and a revised set of VSLs for requirements R8 of PRC-006-1 within 30 days of the effective date of FERC Order 763 (approximately August 9, 2012).	Order Approving Automatic Underfrequency Load Shedding and Load Shedding Plans	5/7/2012	Order 763	RM11-20-000	Para 95	8/9/2012
S- Ref 10866 - ...direct NERC to implement exclusion E1 so that the exclusions for radial systems do not apply to tie-lines for bulk electric system generators identified in inclusion I2.	Revisions to Electric Reliability Organization Definition of Bulk Electric System and Rules of Procedure	12/20/2012	Order 773	RM12-6-000 and RM12-7-000	Para 164 Sen 2 (See also Para 4, Para 167)	12/13/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10867 - ...direct NERC to modify exclusion E3 to remove the 100 kV minimum operating voltage in the local network definition. Within 30 days of the effective date of this Final Rule, we direct NERC to submit a schedule outlining how and when it will make the modification to the definition.	Revisions to Electric Reliability Organization Definition of Bulk Electric System and Rules of Procedure	12/20/2012	Order 773	RM12-6-000 and RM12-7-000	Para 199 Sen 7	4/4/2013
S- Ref 10868 - ...direct NERC to submit a compliance filing within one year of the implementation date identifying in sufficient detail the types of local network configurations that have been excluded from the bulk electric system under this exclusion.	Revisions to Electric Reliability Organization Definition of Bulk Electric System and Rules of Procedure	12/20/2012	Order 773	RM12-6-000 and RM12-7-000	Para 206 Sen 3	Not standards' related 7/1/2015
S- Ref 10869 - ...direct NERC to implement exclusion E3 so that the exclusion for local networks does not apply to bulk electric system generator tie-lines operated at or above 100 kV as shown in the figure below.	Revisions to Electric Reliability Organization Definition of Bulk Electric System and Rules of Procedure	12/20/2012	Order 773	RM12-6-000 and RM12-7-000	Para 214 Sen 3	12/13/2013
S- Ref 10870 - ...direct NERC to make an informational filing within 90 days of the effective date of this Final Rule detailing its plans to maintain a list and how it will make this information available to the Commission, Regional Entities, and potentially to other interested persons.	Revisions to Electric Reliability Organization Definition of Bulk Electric System and Rules of Procedure	12/20/2012	Order 773	RM12-6-000 and RM12-7-000	Para 310 Sen 1	12/13/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S- Ref 10871 - ...a. “As discussed below, we also direct NERC to develop a means to assure that IROLs are communicated to transmission owners.” (P 6)</p> <p>“NERC must establish a clearly defined communication structure to assure that IROLs and changes to IROL status are timely communicated to transmission owners. Left to NERC how to accomplish this objective. Commission identifies modification of FAC-014 as a vehicle that would meet the objective.” (P 41)</p> <p>“NERC should inform the Commission of when it has developed means for communication of IROLs to transmission owners to help ensure that they receive notice of each of their applicable lines before the standard becomes effective as to those lines.” (P 42)</p>	Revisions to Reliability Standard for Transmission Vegetation Management	3/21/2013	Order 777	RM12-4-000	Para 6, 41, 42	Not standards' related
S- Ref 10872 - ...direct NERC to conduct or contract testing to develop empirical data regarding flashover distances between conductors and vegetation.	Revisions to Reliability Standard for Transmission Vegetation Management	3/21/2013	Order 777	RM12-4-000	Para 3, 59-63	Not standards' related (RAPA) 8/12/2015
S- Ref 10873.2 - ...direct NERC, within 45 days of the effective date of this Final Rule, to submit an informational filing that includes, <i>inter alia</i> : (1) a schedule for testing, (2) a scope of work, (3) funding solutions, and (4) deadline for submitting a final report to the Commission on the test results (and interim reports if a multi-year study is conducted).	Revisions to Reliability Standard for Transmission Vegetation Management	3/21/2013	Order 777	RM12-4-000	Para 61 Sen 3	Not standards' related (RAPA) 7/12/2013
S- Ref 10873.1 -...direct NERC and SERC to make an informational filing within 30 days of the effective date of this final rule that provides a schedule for implementing the revision.	Regional Reliability Standard PRC-006-SERC-01 - Automatic Underfrequency Load Shedding Requirements	12/20/2012	Order 772	RM12-9-000	Para 25 Sen 7	3/11/2013

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10874.2 - ...direct NERC and SERC to modify the violation risk factor for regional Reliability Standard PRC-006-SERC-01, Requirement R6, from "medium" to "high." NERC and SERC are directed to submit the revised violation risk factor within 30 days of the effective date of this final rule.	Regional Reliability Standard PRC-006-SERC-01 - Automatic Underfrequency Load Shedding Requirements	12/20/2012	Order 772	RM12-9-000	Para 32 Sen 1	3/11/2013
S- Ref 10874.1 - ...direct NERC to modify the Violation Risk Factor for Requirement R2 from "medium" to "high" within 45 days of the effective date of the Final Rule.	Revisions to Reliability Standard for Transmission Vegetation Management	3/21/2013	Order 777	RM12-4-000	Para 73 Sen 1	7/12/2013
S- Ref 10875 - ...NERC must consolidate the reference material and post it on the NERC website along with Reliability Standard FAC-003-2.	Revisions to Reliability Standard for Transmission Vegetation Management	3/21/2013	Order 777	RM12-4-000	Para 90 Sen 3	7/12/2013
S- Ref 10876 - Within six months of the effective date of this Final Rule, NERC must submit for approval one of more Reliability Standards that require owners and operators of the Bulk-Power System to develop and implement operational procedures to mitigate the effects of GMDs.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 2	11/14/2013
S- Ref 10877 - Within 18 months of the effective date of this final rule, NERC must submit for approval one or more Reliability Standards that require owners and operators of the Bulk-Power System to conduct initial and on-going vulnerability assessments of the potential impact of benchmark GMD events on Bulk-Power System equipment and the Bulk-Power System as a whole.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 2	1/21/2015



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10878 - The Second Stage GMD Reliability Standard must identify what severity GMD events (i.e. benchmark GMD events) that responsible entities will have to assess for potential impacts on the Bulk-Power System.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 2	1/21/2015
S- Ref 10879 - NERC must propose an implementation plan.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 91	1/21/2015
S- Ref 10880 - Consider the costs and benefits of particular mitigation measures as NERC develops the technically-justified Second Stager GMD Reliability Standard.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 28	1/21/2015
S- Ref 10881 - Consider tailoring of operational procedures based on the responsible entity's assessment of entity-specific factors, such as geography, geology, and system topology.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 38	11/14/2013
S- Ref 10882 - Consider operational procedures for restoring GMD-impacted portions of the Bulk-Power System that take into account the potential for damaged equipment that could be de-rated or out-of-service for an extended period of time.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 38	11/14/2013
S- Ref 10883 - The "Initial Actions" assessments provide a head start for analyzing the most at-risk and critical facilities before the Second Stage GMD Reliability Standards become effective and could be used to assist in performing the GMD vulnerability assessments required in the Second Stage GMD Reliability Standards.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 52	1/21/2015

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10884 - Consider identifying the benchmark GMD events that responsible entities would have to assess. Each responsible entity under the Second Stage GMD Reliability Standards would then be required to assess its vulnerability to the benchmark GMD events consistent with the five assessment parameters identified in the NOPR and adopted in this Final Rule.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 67	1/21/2015
S- Ref 10885 - Consider tasking planning coordinators, or another functional entity with a wide-area perspective, to coordinate mitigation plans across Regions under the Second Stage GMD Reliability Standards to ensure consistency and regional effectiveness.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 67, 82	1/21/2015
S- Ref 10886 - Consider developing Reliability Standard that can incorporate improvements in the scientific understanding of GMDs. When developing the Second Stage GMD Reliability Standards implementation schedule, NERC should consider the availability of validated tools, models, and data necessary to comply with the Requirements.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 68	1/21/2015
S- Ref 10887 - The Second Stage GMD Reliability Standards should require owners and operators of the Bulk-Power System to develop and implement a plan to protect against instability, uncontrolled separation, or cascading failures of the Bulk-Power System, caused by damage to critical or vulnerable Bulk-Power System equipment, or otherwise, as a result of a benchmark GMD event.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 79, 81	1/21/2015
S- Ref 10888 - The responsible entities should perform vulnerability assessments of their own systems and develop the plans for mitigating any identified vulnerabilities.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 82	1/21/2015

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10889 - The Second Stage GMD Reliability Standards should not impose “strict liability” on responsible entities for failure to ensure the reliable operation of the Bulk-Power System in the face of a GMD event of unforeseen severity.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 84	1/21/2015
S- Ref 10890 - Consider how to verify that selected blocking measures are effective and consistent with the reliable operation of the Bulk-Power System.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 85	1/21/2015
S- Ref 10891 - Consider how the reliability goals of the proposed Reliability Standards can be achieved by a combination of automatic measures including, for example, some combination of blocking, improved “withstand” capability, instituting specification requirements for new equipment, inventory management, and isolating certain equipment that is not cost effective to retrofit.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 86	1/21/2015
S- Ref 10892 - Consider a multi-phased approach that requires owners and operators of the Bulk-Power System to prioritize implementation so that components considered vital to the reliable operation of the Bulk-Power System are protected first. That the implementation plan will take into account the availability of validated tools, models, and data that are necessary for responsible entities to perform the required GMD vulnerability assessments.	Reliability Standards for Geomagnetic Disturbances	5/16/2013	Order 779	RM12-22-000	Para 91	1/21/2015

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10893 - Direct NERC to report on the use of footnote 12 including the use and effectiveness of the local regulatory review and NERC review. This report is important because it will provide an analysis of the use of footnote 12, including but not limited to information on the duration, frequency and magnitude of planned non-consequential load loss, and typical (and if significant, atypical) scenarios where entities plan for non-consequential load loss.	Transmission Planning Reliability Standards	10/17/2013	Order 786	RM12-1-000 and RM13-9-000	Para 30	Not standards' related (RAPA)
S- Ref 10894 - Direct NERC to modify Reliability Standard TPL-001-4 to address the concern that the six month threshold could exclude planned maintenance outages of significant facilities from future planning assessments.	Transmission Planning Reliability Standards	10/17/2013	Order 786	RM12-1-000 and RM13-9-000	Para 40	
S- Ref 10895 - Direct NERC to modify Reliability Standard TPL-001-4, Requirement R1 and change its VRF from medium to high.	Transmission Planning Reliability Standards	10/17/2013	Order 786	RM12-1-001; RM13-9-001; RM13-11-001; RM13-16-001	Para 51	8/29/2014
S- Ref 10896 - Directs NERC to consider a similar spare equipment strategy for stability analysis upon the next review cycle of Reliability Standard TPL-001-4.	Transmission Planning Reliability Standards	10/17/2013	Order 786	RM12-1-000 and RM13-9-000	Para 89	
S- Ref 10897 - Accordingly, the Commission directs NERC to develop modifications to the CIP version 5 Standards that address our concerns. Preferably, NERC should remove the "identify, assess, correct" language from the 17 CIP version 5 requirements. The Commission directs NERC to file these modifications for Commission approval within one year from the effective date of this Final Rule. Alternatively, NERC may develop a proposal to enhance the enforcement discretion afforded to itself and the Regional Entities, as discussed above.	Version 5 Critical Infrastructure Protection Reliability Standards	11/22/2013	Order 791	RM13-5-000	Para 76 (See also 67 - 76)	2/13/2015

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S- Ref 10898 - We direct NERC to develop modifications to the CIP version 5 Standards to address this concern. We believe that NERC can effectively address this concern in a number of ways, including: (1) requiring specific controls for Low Impact assets, including subdividing the assets into different categories with Docket No. RM13-5-000 - different defined controls applicable to each subcategory; (2) developing objective criteria against which the controls adopted by responsible entities can be compared and measured in order to evaluate their adequacy, including subdividing the assets into different categories with different defined control objectives applicable to each subcategory; (3) defining with greater specificity the processes that responsible entities must have for Low Impact facilities under Reliability Standard CIP-003-5, Requirement R2; or (4) another equally efficient and effective solution. We believe that this approach allows NERC the flexibility to develop appropriate modification(s), while also considering the stakeholder concerns expressed in NOPR comments regarding the possible rigidity of requiring a “one-size-fits-all” set of controls.</p>	Version 5 Critical Infrastructure Protection Reliability Standards	11/22/2013	Order 791	RM13-5-000	Para 108	2/13/2015

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S- Ref 10899 - 124. Accordingly, the Commission directs NERC to conduct a survey of Cyber Assets that are included or excluded under the new BES Cyber Asset definition during the CIP version 5 Standards implementation periods. Such data will help provide a better understanding of the BES Cyber Asset definition. Based on the survey data, NERC should explain in an informational filing the following: (1) specific ways in which entities determine which Cyber Assets meet the 15 minute parameter; (2) types or functions of Cyber Assets that are excluded from being designated as BES Cyber Assets and the rationale as to why; (3) common problem areas with entities improperly designating BES Cyber Assets; and (4) feedback from each region participating in the implementation study on lessons learned with the application of the BES Cyber Asset definition. The informational filing should not provide a level of detail that divulges CEII data. This filing should also help other entities implementing CIP version 5 in identifying BES Cyber Assets.</p> <p>125. The Commission directs NERC to submit the informational filing one year after the effective date of this Final Rule. Based on the information in the informational filing, the Commission may revisit whether the BES Cyber Asset definition should include the 15-minute parameter.</p>	<p>Version 5 Critical Infrastructure Protection Reliability Standards</p>	<p>11/22/2013; 3/20/2014</p>	<p>Order 791; See Order 791-A</p>	<p>RM13-5-000</p>	<p>Order 791: Para 124 and 125; Order 791-A Para 21</p>	<p>2/13/2015</p>

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S- Ref 10900 - The Commission directs NERC to develop either a new or modified Reliability Standard that addresses the risks posed by transient devices. For example, the requirements should recognize that transient devices, unlike BES Cyber Assets, are generally portable and frequently connected and disconnected from systems. The Commission expects NERC to consider the following security elements when designing a Reliability Standard for transient devices and removable media: (1) device authorization as it relates to users and locations; (2) software authorization; (3) security patch management; (4) malware prevention; (5) detection controls for unauthorized physical access to a transient device and; (6) processes and procedures for connecting transient devices to systems at different security classification levels (i.e. High, Medium, Low Impact).</p>	<p>Version 5 Critical Infrastructure Protection Reliability Standards</p>	<p>11/22/2013</p>	<p>Order 791</p>	<p>RM13-5-000</p>	<p>Para 136</p>	<p>2/13/2015</p>
<p>S- Ref 10901 - We direct NERC to create a definition of communication networks and to develop new or modified Reliability Standards to address the reliability gap discussed above. The definition of communications networks should define what equipment and components should be protected, in light of the statutory inclusion of communication networks for the reliable operation of the Bulk-Power System. The new or modified Reliability Standards should require appropriate and reasonable controls to protect the nonprogrammable aspects of communication networks. The Commission directs NERC to submit these modifications for Commission approval within one year from the effective date of this final rule.</p>	<p>Version 5 Critical Infrastructure Protection Reliability Standards</p>	<p>11/22/2013; 3/20/2014</p>	<p>Order 791; Order 791-A</p>	<p>RM13-5-000</p>	<p>Order 791: Para 150; Order 791-A: Para 22</p>	<p>2/13/2015</p>

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10902 - The Commission directs NERC to modify the VRF assignment for CIP-006-5, Requirement R3 from Lower to Medium, within 90 days of the effective date of this Final Rule.	Version 5 Critical Infrastructure Protection Reliability Standards	11/22/2013	Order 791	RM13-5-000	Para 184	5/15/2014
S- Ref 10903 - We direct NERC to modify the VRF assignment for CIP-004-5, Requirement R4 from Lower to Medium, within 90 days of the effective date of this Final Rule.	Version 5 Critical Infrastructure Protection Reliability Standards	11/22/2013	Order 791	RM13-5-000	Para 196	5/15/2014
S- Ref 10904 - For the VSLs that include “identify, assess, and correct” language, we direct NERC to ensure that these VSLs are modified to reflect any revisions to the requirement language in response to our directives. We grant NERC the discretion to decide how best to address these modifications be it through an errata filing to this proceeding or separate filing.	Version 5 Critical Infrastructure Protection Reliability Standards	11/22/2013	Order 791	RM13-5-000	Para 205	2/13/2015
S- Ref 10905 - With respect to the VSL language for CIP-003-5, Requirements R1 and R2, the Commission notes that the language “as required by R[1 or 2]” and “according to Requirement R[1 or 2]” is redundant and potentially confusing and hereby directs NERC to provide clarification to this language.	Version 5 Critical Infrastructure Protection Reliability Standards	11/22/2013	Order 791	RM13-5-000	Para 206	5/15/2014
S- Ref 10906 - With respect to the VSL language for CIP-003-5, Requirement R4, the Commission agrees with NERC that basing the VSL language on a timeline is appropriate, but notes that the VSL language does not match the table and analysis documents within Appendix E of the CIP version 5 Petition. After considering NERC’s comments, the Commission understands that the correct VSL for this requirement includes timeline gradations. We therefore direct NERC to clarify the VSL language for this requirement to reflect this understanding.	Version 5 Critical Infrastructure Protection Reliability Standards	11/22/2013	Order 791	RM13-5-000	Para 207	5/15/2014



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S- Ref 10907 - We direct NERC to change the VSL gradation for CIP-004-5, Requirement R4 to be percentage based, instead of using the number of BES Cyber Systems or sites for storing BES Cyber System information. This change will allow for fair treatment for entities that may only have a single BES Cyber system or storage location.	Version 5 Critical Infrastructure Protection Reliability Standards	11/22/2013	Order 791	RM13-5-000	Para 208	5/15/2014
S- Ref 10908 - With respect to the VSL language for CIP-008-5, Requirement R2, the Commission believes that NERC inserted a typographical error into the petition, creating a gap between 18 months and 19 months in the VSLs. We therefore direct NERC to clarify this language in a further filing.	Version 5 Critical Infrastructure Protection Reliability Standards	11/22/2013	Order 791	RM13-5-000	Para 209	5/15/2014
S- Ref 10909 - The Commission believes that the 120 day metric is appropriate for these time-based VSL gradations and directs NERC to change the “210 calendar days” language to “120 calendar days” where appropriate.	Version 5 Critical Infrastructure Protection Reliability Standards	11/22/2013	Order 791	RM13-5-000	Para 210	5/15/2014
S- Ref 10910.1 - We agree with a proactive approach to reducing misoperations, i.e., ensuring that a new or modified protection system, when placed in service, is capable of functioning according to its design so that an undetected defect resulting in a misoperation of that protection system does not negatively affect bulk electric system reliability. We encourage and accept NERC’s commitment to keep the Commission informed of its efforts concerning this issue. Accordingly, we direct NERC to submit, within one year of issuance of this Final Rule, an informational filing on the status of these efforts, including the development of the guidance report as described in the NERC Comments.	Protection System Maintenance Reliability Standard	12/19/2013	Order 793	RM13-7-000	Para 42	12/19/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S- Ref 10911.1 - We also note that the level of risk associated with the failure to test a given battery is not an appropriate consideration in the context of assigning violation severity levels, but rather, should be considered when assigning a violation risk factor. In this case, Requirement R1 has been assigned a medium violation risk factor, which we accept as properly reflecting NERC's determination that a violation of Requirement R1 could directly affect the electrical state or the capability of the bulk-power system, but is unlikely to lead to bulk power system instability, separation, or cascading failures. We accordingly direct NERC to submit a compliance filing changing the violation severity level for the failure to include station batteries in a time-based maintenance program to "severe."</p>	Protection System Maintenance Reliability Standard	12/19/2013	Order 793	RM13-7-000	Para 66	6/4/2014
<p>S-Ref 10910.2 - the Commission directs the North American Electric Reliability Corporation (NERC), as the Commission-certified Electric Reliability Organization (ERO), to submit for approval one or more Reliability Standards that will require certain registered entities to take steps or demonstrate that they have taken steps to address physical security risks and vulnerabilities related to the reliable operation of the Bulk-Power System... The Commission directs NERC to submit the proposed Reliability Standards to the Commission within 90 days of the date of this order.</p>	Order Directive Filing Of Standards	3/7/2014	Order 795	RD14-6-000	Para 1, 5, 6	5/23/2014
<p>S-Ref 10911.2 - Accordingly, as proposed in the NOPR, we direct NERC to submit a violation severity level that addresses a transmission planner's obligation to provide a technical description of why a model submitted by a generation owner is not usable for Requirement R6 of MOD-026-1 and Requirement R5 of MOD-027-1.</p>	Generator Verification Reliability Standards	3/20/2014	Order 796	RM13-16-000	Para 58	8/29/2014

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S-Ref 10912 - The Commission directs NERC to continue its evaluation of the use of the linear regression methodology based upon experience and data collected following the implementation of BAL-003-1 and to submit a report to the Commission within three months after two years of operating experience once Requirement R1 of BAL-003-1 becomes effective (i.e., 27 months from the effective date of Requirement R1). The report should assess the accuracy of the linear regression methodology compared to the median methodology for purposes of determining Frequency Response Measure. Based on this report and actual experience, the Commission may revisit this issue.</p>	<p>Frequency Response and Frequency Bias Setting Reliability Standard</p>	<p>1/16/2014</p>	<p>Order 794</p>	<p>RM13-11-000</p>	<p>Para 34</p>	<p>Not standards' related (RAPA)</p>
<p>S-Ref 10913 - The Commission adopts the NOPR proposal and directs NERC to submit a report that provides an analysis of the availability of resources for each balancing authority and Frequency Response Sharing Group to meet its Frequency Response Obligation during the first year of implementation. However, NERC indicates in its comments that it needs more than the proposed 15 months to prepare the report based on the time frame for NERC to receive relevant data from applicable entities. Accordingly, we direct NERC to submit this report within 27 months of implementation of Requirement R1. Further, consistent with NERC's representation in its comments, the Commission directs that, upon completion of the required analysis, should the findings indicate that the Frequency Response Obligation was not met, NERC shall provide appropriate recommendations to ensure that frequency response can be maintained at all times within each balancing authority's footprint.</p>	<p>Frequency Response and Frequency Bias Setting Reliability Standard</p>	<p>1/16/2014</p>	<p>Order 794</p>	<p>RM13-11-000</p>	<p>Para 60</p>	<p>Not standards' related (RAPA)</p>

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S-Ref 10914 - The Commission adopts the proposal in the NOPR and directs NERC to submit the results of the Eastern Interconnection Reliability Assessment Group's light-load case, using actual turbine governor response data. Additionally, the Commission directs NERC to submit a recommendation on whether further actions are warranted no later than 15 months after implementation of the Final Rule. Further, the report should discuss any appropriate changes to the Interconnection Frequency Response Obligation warranted by the study.	Frequency Response and Frequency Bias Setting Reliability Standard	1/16/2014	Order 794	RM13-11-000	Para 84	Not standards' related (RAPA) 3/20/2015
S-Ref 10915 - We direct NERC to change the violation risk factor for Requirement R1 to "high," as proposed in the NOPR.	Frequency Response and Frequency Bias Setting Reliability Standard	1/16/2014	Order 794	RM13-11-000	Para 90	8/29/2014
S-Ref 10916 - As proposed in the NOPR, we direct NERC to remove from its violation severity level assignments for Requirement R1 any references to performance of that requirement by other entities.	Frequency Response and Frequency Bias Setting Reliability Standard	1/16/2014	Order 794	RM13-11-000	Para 95	8/29/2014
S-Ref 10917 - Accordingly, should NERC make changes to Table 1 based upon NERC's Procedure document, the Commission directs NERC to submit an informational notice describing the basis for the changes at least 30 days in advance of the effective date of any such changes.	Frequency Response and Frequency Bias Setting Reliability Standard	1/16/2014	Order 794	RM13-11-000	Para 100	Ongoing

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S-Ref 10918 - The Commission directs NERC, pursuant to FPA section 215(d)(5), to remove the term “widespread” from Reliability Standard CIP-014-1 or, alternatively, to propose modifications to the Reliability Standard that address the Commission’s concerns. We direct that NERC submit a responsive modification within six months from the effective date of this final rule.</p> <p>The Commission directs NERC to develop a modification to Reliability Standard CIP-014-1 that either removes the term “widespread” from Requirement R1 or, in the alternative, proposes changes that address the Commission’s concerns. Further, we direct that NERC submit a responsive modification within six months from the effective date of this final rule. We recognize that certain entities commented on how NERC could modify Reliability Standard CIP-014-1 to address the Commission’s stated concerns. However, we conclude that it is appropriate to allow NERC to develop and propose a modification in the first instance.</p> <p>NERC indicated that NERC staff will submit to the NERC Board of Trustees a report three months following implementation of Requirements R1, R2 and R3 concerning the scope of facilities identified as critical, including the number of facilities identified as critical and their defining characteristics. NERC also committed to sending this report to Commission staff.</p>	Physical Security Reliability Standard	11/20/2014	Order 802	RM14-15-000	Para 19 and 35	5/15/2015

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S-Ref 10919 - The Commission adopts the proposal to direct NERC to make an informational filing addressing whether Reliability Standard CIP-014-1 provides physical security for all “High Impact” control centers, as that term is defined in Reliability Standard CIP-002-5.1, necessary for the reliable operation of the Bulk-Power System. However, the Commission extends the deadline for that informational filing until two years following the effective date of Reliability Standard CIP-014-1.</p> <p>The Commission adopts the NOPR proposal and directs NERC to submit an informational filing that addresses whether there is a need for consistent treatment of “High Impact” control centers for cybersecurity and physical security purposes through the development of Reliability Standards that afford physical protection to all “High Impact” control centers. The Commission, however, modifies the NOPR proposal and extends the due date for the informational filing to two years following the effective date of Reliability Standard CIP-014-1.</p> <p>NERC indicated that NERC staff will submit to the NERC Board of Trustees a report three months following implementation of Requirements R1, R2 and R3 concerning the scope of facilities identified as critical, including the number of facilities identified as critical and their defining characteristics. NERC also committed to sending this report to Commission staff.</p>	Physical Security Reliability Standard	11/20/2014	Order 802	RM14-15-000	Para 21 and 57	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S-Ref 10920 - “[W]e direct NERC to obtain, maintain, and make available to the Commission upon request, one year following the effective date of the standard and on an annual basis thereafter, data sufficient to analyze the effectiveness of PRC-005-3, whether it be through NERC’s Event Analysis process or other means. Specifically, NERC is to collect relevant information regarding Bulk-Power System events that involve high speed auto-reclosing relays. Such information would include the operations of auto-reclosing relays and their supervisory functionalities (e.g., time delays, synchronism check, voltages, etc.) that caused or exacerbated the events, and any unintended consequences of the events. The Commission encourages NERC and FERC staff to collaborate on the specific data to be collected, which could include, but is not limited to, the approximate distance from the fault and the generation loss associated with the event. Further, the Commission is also interested in knowing if those auto-reclosing relays identified as causing or exacerbating an event operated as designed, and if PRC-005-3 is applicable to the auto-reclosing relays that were involved. We expect NERC to share all appropriate data as needed to evaluate auto-reclosing relay performance, in accordance with our general expectation that NERC will “cooperate with and share all appropriate data and information with Commission staff” as needed “to ensure that the ERO Enterprise and the Commission are both able to effectively perform their duties under section 215 of the FPA.”</p>	<p>Protection System Maintenance Reliability Standard</p>	<p>1/22/2015</p>	<p>Order 803</p>	<p>RM14-8-000</p>	<p>Para 25</p>	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S-Ref 10921 "...direct that, pursuant to section 215(d)(5) of the FPA, NERC develop modifications to PRC-005-3 to include supervisory devices associated with auto-reclosing relay schemes to which the Reliability Standard applies. Further, we clarify that NERC's proposal regarding the scope of supervisory devices is an acceptable approach to satisfy the Commission directive. Specifically, NERC proposed in its NOPR comments, and we find acceptable, that the scope of the supervisory devices to be encompassed in the Reliability Standard are those providing voltage supervision, supervisory inputs associated with selective auto-reclosing, and sync-check relays that are part of a reclosing scheme covered by PRC-005-3."	Protection System Maintenance Reliability Standard	1/22/2015	Order 803	RM14-8-000	Para 31	11/13/2015
S-Ref 10922 - we direct NERC to develop a modification to MOD-031-1 through the standards development process to clarify that planning coordinators and balancing authorities must provide demand and energy data upon request of a Regional Entity, as necessary to support NERC's development of seasonal and long-term reliability assessments.	Order Approving MOD-031-1	2/19/2015	Order 804	Docket No. RM14-12-000	Para 18	11/13/2015
S-Ref 10923 - the Commission directs NERC to consider EEI's concern regarding the compliance obligations of an applicable entity upon receipt of a data request that seeks confidential information in the standard development process when it addresses the directive to clarify that planning coordinators and balancing authorities must provide demand and energy data upon request of a Regional Entity.	Order Approving MOD-031-1	2/19/2015	Order 804	Docket No. RM14-12-000	Para 20	11/13/2015



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S-Ref 10924 - With respect to Portland’s concerns regarding WECC’s data and the informational filing, the informational filing is intended to identify any issues regarding the adequacy of contingency reserve levels in the Western Interconnection and the impact on other reliability areas such as frequency response. We are satisfied that WECC provided enough representative data to conclude that the new methodology will likely not result in significantly less average contingency reserve in the Western Interconnection. However, for the reasons discussed above, the Commission believes that it is necessary to monitor and assess contingency reserve levels in the Western Interconnection following implementation of the regional Reliability Standard. ...The Commission adopts the NOPR proposal to direct NERC to file an informational filing two years after implementation of the regional Reliability Standard.</p>	Regional Reliability Standard BAL-002-WECC-2 - Contingency Reserve	11/13/2013	Order 789	RM13-13-000	Para 39	Regional
<p>S-Ref 10929 NERC must provide notice to the Commission when a review panel decision is posted. Similar to the process for review of “find, fix and track” compliance posting as well as “compliance exception” postings, the Commission will review such matters and determine within 60 days of receiving notice from NERC whether any formal Commission review is warranted. If the Commission takes no action within 60 days, the Commission will consider the matter closed. We anticipate that Commission review of panel decisions would be a rare occurrence. However, we believe that this opportunity for Commission review provides an important “backstop” to ensure that individual registry matters processed under RBR are decided in a consistent matter with an overall view of providing for the reliability of the bulk electric system.</p>	Order on Electric Reliability Organization Risk Based Registration Initiative and Requiring Compliance Filing	3/19/2015	150 FERC ¶ 61,213 Order on RBR	RR-15-4-000	Para 69	7/17/2015

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S-Ref 10930 we direct NERC to modify proposed Section III.D.9, Appendix 5A of the NERC Rules of Procedure to substitute “shall” for “may,” to state that “[t]he NERC-led review panel shall also include a review of individual and aggregate system-wide risks...” We direct NERC to address this modification in the compliance filing that NERC must file 60 days after the date of issuance of this order. We anticipate that in many circumstances consideration of aggregate risks will be straightforward.	Order on Electric Reliability Organization Risk Based Registration Initiative and Requiring Compliance Filing	3/19/2015	150 FERC ¶ 61,213 Order on RBR	RR-15-4-000	Para 68	7/17/2015
S-Ref 10931 the Commission directs NERC to include Reliability Standard PRC-005 as applicable to underfrequency load shedding-only distribution providers.	Order on Electric Reliability Organization Risk Based Registration Initiative and Requiring Compliance Filing	3/19/2015	150 FERC ¶ 61,213 Order on RBR	RR15-4-000	Para 55	7/17/2015

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S-Ref 10932 Accordingly, we deny NERC’s proposal to remove the load-serving entity function and direct NERC to submit a compliance filing that addresses the gap in its analysis of the proposed elimination of the load-serving entity function, as discussed above. In particular, NERC should provide an adjusted estimate on the number of load-serving entities that would be deregistered. NERC should provide additional information regarding the peak load of such entities on an individual and balancing authority basis. Further, for the load-serving entities for which NERC anticipates deregistration, NERC must provide specific information regarding the alternative sources of authority which will ensure the continuation of load-serving entity reliability activities by either the deregistered entity or another registered entity. For example, NERC should identify specific tariff provisions and the load-serving entity reliability tasks to which they relate. Likewise, NERC should identify relevant provisions of agreements, market rules or other documents and the load-serving entity reliability tasks to which they relate. If this analysis indicates that gaps remain, NERC should propose alternative means to address identified gaps, such as modifications to specific Reliability Standards or perhaps developing a compliance registry subset similar to the UFLS-only distribution provider category proposed by NERC in its petition.	Order on Electric Reliability Organization Risk Based Registration Initiative and Requiring Compliance Filing	3/19/2015	150 FERC ¶ 61,213 Order on RBR	RR15-4-000	Para 41	7/17/2015
S-Ref 10933 submit an informational filing within one year of Commission action “to ensure that there are no unintended consequences to reliability”....	Order on Electric Reliability Organization Risk Based Registration Initiative and Requiring Compliance Filing	3/19/2015	150 FERC ¶ 61,213 Order on RBR	RR15-4-000	Para 2 and 11	1/17/2017

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S-Ref 10925 - Accordingly, pursuant to section 215(d)(5) of the FPA, we direct NERC to develop modifications to COM-001-2, or to develop a new standard, to address our concerns regarding ensuring the adequacy of internal communications capability whenever internal communications could directly affect the reliable operation of the Bulk-Power System.	Communications Reliability Standards	4/16/2015	Order 808	RM14-13-000	Para 41	8/15/2016
<p>S-Ref 10926- (P.2) The Commission also directs NERC to submit an informational filing 90 days after the end of the two-year period following implementation that includes an analysis of data on whether experience with the Balancing Authority ACE Limit in the first two years after approval has seen ACE swings and inadvertent interchange and unscheduled power flows that could cause system operating limit (SOL) and interconnection reliability operating limit (IROL) exceedances, and further directs NERC to revise one definition.</p> <p>(P.36) The Commission adopts the NOPR proposal regarding NERC’s submission of an informational filing. We determine that the field trial NERC conducted for Reliability Standard BAL-001-2 raised sufficient concerns regarding unscheduled power flows and inadvertent interchange to warrant NERC’s continued monitoring and submission of an informational filing 90 days after the end of the two-year period following implementation, as proposed in the NOPR. Further, we find that the informational filing should encompass both the Western and Eastern Interconnections, as there were concerns about possible increases of SOL/IROL exceedances in both Interconnections.</p>	Real Power Balancing Control Performance Reliability Standard	4/16/2015	Order 810	RM14-10-000	Para 2 Para 36	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S-Ref 10927 - Accordingly, the Commission directs NERC to revise the definition of Reporting ACE to include the “Lmax” upper payback limit and the bounds of that upper payback limit prior to the effective date of Reliability Standard BAL-001-1.	Real Power Balancing Control Performance Reliability Standard	4/16/2015	Order 810	RM14-10-000	Para 43	4/20/2016
S-Ref 10928 - we direct NERC to submit a compliance filing within 60 days of issuance of this order that revises the proposed “medium” VRF designations to “high.”  P1: The Commission, however, directs NERC to submit a compliance filing, within 60 days of the issuance of this order, to address certain concerns regarding the VRF designations for Requirements R1 through R6, as described below.	Order Approving Reliability Standard	5/13/2015	151 FERC ¶ 61,129 Order Approving PRC-004-3	RD14-14-000	Para 1 Para 20	7/7/2015
S-Ref 10934 direct NERC to submit a compliance filing within 60 days of the date of this order retaining the existing language in the Hearings section	ORDER ON REVISIONS TO COMPLIANCE AND CERTIFICATION COMMITTEE CHARTER	8/21/2015	152 FERC ¶ 61,142	RR15-11-000	Para 9	11/17/2015
S-Ref 10935 we direct NERC to study and report to the Commission, within 15 months from the date of this order, the extent to which the next-day studies by a representative sample of the affected transmission operators and balancing authorities match or differ from their real-time results and, if there are any significant differences, whether those differences are attributable to the changes authorized here. In performing this analysis, NERC may choose to compare these results to results for the same entities before implementation of these changes, or to results for entities not affected by these changes, or both, if NERC deems it appropriate.	Order on Compliance Filing	10/15/2015	153 FERC ¶ 61,024	RR15-4-001	Para 25	1/17/2017

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S-Ref 10936 we direct NERC to modify the Pro Forma Delegation Agreement and specific Delegation Agreements with each Regional Entity by removing the automatic renewal provisions, such that the Delegation Agreements are subject to our re-evaluation and re-approval following the initial term, scheduled to end on December 31, 2020.	ORDER CONDITIONALLY APPROVING REVISED PRO FORMA DELEGATION AGREEMENT AND REVISED DELEGATION AGREEMENTS WITH REGIONAL ENTITIES	11/2/2015	153 FERC ¶ 61,135	RR15-12-001	Para 59	12/8/2015
S-Ref 10937 we direct NERC to submit a compliance filing within 120 days of the date of this order, revising section 12 of the Pro Forma Delegation Agreement by removing the proposed automatic renewal provisions and by re-inserting the audit provisions in section 12(b) that NERC proposes to eliminate. In this filing, NERC must also replace the references in section 12(b) to audits “pursuant to subsection 6(i)” with a reference to audits “pursuant to the audit requirements of the NERC Rules of Procedure” because the Commission is approving the deletion of section 6(i) in the Delegation Agreements.	ORDER CONDITIONALLY APPROVING REVISED PRO FORMA DELEGATION AGREEMENT AND REVISED DELEGATION AGREEMENTS WITH REGIONAL ENTITIES	11/2/2015	153 FERC ¶ 61,135	RR15-12-001	Para 62	12/8/2015
S-Ref 10938 we direct NERC to include in its compliance filing a revision to proposed section 3(b) of the Delegation Agreements to include a provision requiring NERC to maintain on its public website the currently effective versions of all of the Regional Entities’ bylaws and regional standard development procedures. We also reiterate that all Regional Entity Rules, such as the Regional Entity bylaws and regional standard development procedures, must be filed with and approved by the Commission before they become effective.	ORDER CONDITIONALLY APPROVING REVISED PRO FORMA DELEGATION AGREEMENT AND REVISED DELEGATION AGREEMENTS WITH REGIONAL ENTITIES	11/2/2015	153 FERC ¶ 61,135	RR15-12-001	Para 70	12/8/2015

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S-Ref 10939 we direct NERC to clarify in its compliance filing, to be filed within 120 days of the date of this order, the meaning of other “guidance that NERC may from time to time develop,” and that its guidance on reporting to the Commission instances of noncompliance of Reliability Standards and their disposition must be filed with the Commission for approval before it becomes effective.	ORDER CONDITIONALLY APPROVING REVISED PRO FORMA DELEGATION AGREEMENT AND REVISED DELEGATION AGREEMENTS WITH REGIONAL ENTITIES	11/2/2015	153 FERC ¶ 61,135	RR15-12-001	Para 73	12/8/2015
S-Ref 10940 we direct NERC to submit a compliance filing within 120 days of the date of this order to include language in section 15 of the Delegation Agreements stating that the provisions of section 1500 of the NERC Rules of Procedure control when a conflict between it and the Delegation Agreements may arise.	ORDER CONDITIONALLY APPROVING REVISED PRO FORMA DELEGATION AGREEMENT AND REVISED DELEGATION AGREEMENTS WITH REGIONAL ENTITIES	11/2/2015	153 FERC ¶ 61,135	RR15-12-001	Para 79	12/8/2015
S-Ref 10941 with respect to WECC’s 2017 business plan and budget, we direct WECC to include information on any further payments made and to be made for penalties imposed on WECC.	ORDER ON 2016 BUSINESS PLANS AND BUDGETS	11/2/2015	153 FERC ¶ 61,134	RR15-16-001	Para 54	8/23/2016
S-Ref 10942 when this issue is considered in Project 2015-19, the specific regional difference of WECC’s 1,000 MW threshold in IROLs should be evaluated in light of the Commission’s directive in Order No. 802 (approving Reliability Standard CIP-014) to eliminate or clarify the “widespread” qualifier on “instability” as well as our statement in the Remand NOPR that “operators do not always foresee the consequences of exceeding such SOLs and thus cannot be sure of preventing harm to reliability.”	Transmission Operations Reliability Standards and Interconnection Reliability Operations and Coordination Reliability Standards	11/19/2015	Order No. 817	RM15-16-000	Para 27	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S-Ref 10943 we direct NERC to revise Reliability Standard TOP-001-3, Requirement R10 to require real-time monitoring of non-BES facilities. We believe this is best accomplished by adopting language similar to Reliability Standard IRO-002-4, Requirement R3, which requires reliability coordinators to monitor non-bulk electric system facilities to the extent necessary.	Transmission Operations Reliability Standards and Interconnection Reliability Operations and Coordination Reliability Standards	11/19/2015	Order No. 817	RM15-16-000	Para 35	3/6/2017
S-Ref 10944 we direct NERC to modify Reliability Standards TOP-001-3, Requirements R19 and R20 to include the requirement that the data exchange capabilities of the transmission operators and balancing authorities require redundancy and diverse routing.	Transmission Operations Reliability Standards and Interconnection Reliability Operations and Coordination Reliability Standards	11/19/2015	Order No. 817	RM15-16-000	Para 47	3/6/2017
S-Ref 10945 we direct NERC to clarify that “redundant infrastructure” for system monitoring in Reliability Standards IRO-002-4, Requirement R4 is equivalent to redundant and diversely routed data exchange capabilities.	Transmission Operations Reliability Standards and Interconnection Reliability Operations and Coordination Reliability Standards	11/19/2015	Order No. 817	RM15-16-000	Para 47	3/6/2017
S-Ref 10946 we direct NERC to develop a modification to the TOP and IRO standards that addresses a data exchange capability testing framework for the data exchange capabilities used in the primary control centers to test the alternate or less frequently used data exchange capabilities of the reliability coordinator, transmission operator and balancing authority.	Transmission Operations Reliability Standards and Interconnection Reliability Operations and Coordination Reliability Standards	11/19/2015	Order No. 817	RM15-16-000	Para 51	3/6/2017



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S-Ref 10947 we direct that NERC, pursuant to section 215(d)(5) of the FPA, develop modifications to the CIP Reliability Standards to provide mandatory protection for transient devices used at Low Impact BES Cyber Systems based on the risk posed to bulk electric system reliability. While NERC has flexibility in the manner in which it addresses the Commission’s concerns, the proposed modifications should be designed to effectively address the risks posed by transient devices to Low Impact BES Cyber Systems in a manner that is consistent with the risk-based approach reflected in the CIP version 5 Standards.</p>	Revised Critical Infrastructure Protection Reliability Standards	1/21/2016	Order No. 822	RM15-14-000	Para 32	
<p>S-Ref 10948 we adopt the NOPR proposal and direct that NERC, pursuant to section 215(d)(5) of the FPA, develop modifications to the CIP Reliability Standards to require responsible entities to implement controls to protect, at a minimum, communication links and sensitive bulk electric system data communicated between bulk electric system Control Centers in a manner that is appropriately tailored to address the risks posed to the bulk electric system by the assets being protected (i.e., high, medium, or low impact).</p>	Revised Critical Infrastructure Protection Reliability Standards	1/21/2016	Order No. 822	RM15-14-000	Para 53	
<p>S-Ref 10949 we direct NERC to conduct a study that assesses the effectiveness of the CIP version 5 remote access controls, the risks posed by remote access-related threats and vulnerabilities, and appropriate mitigating controls for any identified risks. NERC should consult with Commission staff to determine the general contents of the directed report. We direct NERC to submit a report on the above outlined study within one year of the implementation of the CIP version 5 Standards for High and Medium Impact BES Cyber Systems.</p>	Revised Critical Infrastructure Protection Reliability Standards	1/21/2016	Order No. 822	RM15-14-000	Para 64	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S-Ref 10950 we direct NERC to develop a modification to provide the needed clarity, within one year of the effective date of this Final Rule. We agree with NERC and other commenters that a suitable means to address our concern is to modify the Low Impact External Routable Connectivity definition consistent with the commentary in the Guidelines and Technical Basis section of CIP-003-6.</p>	<p>Revised Critical Infrastructure Protection Reliability Standards</p>	<p>1/21/2016</p>	<p>Order No. 822</p>	<p>RM15-14-000</p>	<p>Para 73</p>	
<p>S- Ref 10951- “[W]e direct NERC to develop a forward-looking, objective-based Reliability Standard to require each affected entity to develop and implement a plan that includes security controls for supply chain management for industrial control system hardware, software, and services associated with bulk electric system operations.<sup>2</sup> The new or modified Reliability Standard should address the following security objectives, discussed in detail below: (1) software integrity and authenticity; (2) vendor remote access; (3) information system planning; and (4) vendor risk management and procurement controls. In making this directive, the Commission does not require NERC to impose any specific controls, nor does the Commission require NERC to propose “one-size-fits-all” requirements. The new or modified Reliability Standard should instead require responsible entities to develop a plan to meet the four objectives, or some equally efficient and effective means to meet these objectives, while providing flexibility to responsible entities as to how to meet those objectives.</p> <p>14 Galloway Technical Conference Comments at 1 (“...ISO-NE supports the Commission’s proposal to direct NERC to develop requirements relating to supply chain risk management. We believe that the risks to the</p>	<p>Revised Critical Infrastructure Protection Reliability Standards</p>	<p>7/2/2016</p>	<p>Order 829</p>	<p>RM15-14-002</p>	<p>Para 14 and Footnote 14</p>	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>reliability of the Bulk Electric System that result from compromised third-party software are real, significant and largely unaddressed by existing reliability standards. While many public utilities are already assessing these risks and asking vendors to address them, these one-off efforts are far less likely to be effective than an industry-wide reliability standard.”).</p>						
<p>S-ref 10952P44: “[T]he Commission, as proposed in the NOPR, directs NERC to develop revisions to the benchmark GMD event definition so that the reference peak geoelectric field amplitude component is not based solely on spatially-averaged data.”</p> <p>P47: “Without prejudging how NERC proposes to address the Commission’s directive, NERC’s response to this directive should satisfy the NOPR’s concern that reliance on spatially-averaged data alone does not address localized peaks that could potentially affect the reliable operation of the Bulk-Power System.”</p> <p>P48: “NERC could revise [the standard] to apply a higher reference peak geoelectric field amplitude value to assess the impact of localized hot spots on the Bulk-Power System, as suggested by the Trade Associations.”</p> <p>P49: “Consistent with Order No. 779, the Commission does not specify a particular reference peak geoelectric field amplitude value that should be applied to hot spots given present uncertainties.”</p>	<p>Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event</p>	<p>9/22/2016</p>	<p>Order 830</p>	<p>RM15-11-000</p>	<p>Para 44- Para 49</p>	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
S-ref 10953- P65: “Consistent with our determination above regarding the reference peak geoelectric field amplitude value, the Commission directs NERC to revise Requirement R6 to require registered entities to apply spatially averaged and non-spatially averaged peak geoelectric field values, or some equally efficient and effective alternative, when conducting thermal impact assessments.”	Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event	9/22/2016	Order 830	RM15-11-000	Para 65	
<p>Standard TPL-007-1 to require responsible entities to collect GIC monitoring and magnetometer data as necessary to enable model validation and situational awareness, including from any devices that must be added to meet this need.</p> <p>The NERC standard drafting team should address the criteria for collecting GIC monitoring and magnetometer data discussed below and provide registered entities with sufficient guidance in terms of defining the data that must be collected, and NERC should propose in the GMD research work plan how it will determine and report on the degree to which industry is following that guidance.”</p> <p>Magnetometer Requirements P90: “In developing a requirement regarding the collection of magnetometer data, NERC should consider the following criteria discussed at the March 1, 2016 Technical Conference: (1) the data is sampled at a cadence of at least 10-seconds or faster; (2) the data comes from magnetometers that are physically close to GIC monitors; (3) the data comes from magnetometers that are not near sources of magnetic interference (e.g., roads and local distribution networks); and (4) data is</p>	Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event	9/22/2016	Order 830	RM15-11-000	Para 65, Paras 90-92	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>collected from magnetometers spread across wide latitudes and longitudes and from diverse physiographic regions.”</p> <p>GIC Requirements</p> <p>P 91: “Each responsible entity that is a transmission owner should be required to collect necessary GIC monitoring data. However, a transmission owner should be able to apply for an exemption from the GIC monitoring data collection requirement if it demonstrates that little or no value would be added to planning and operations.</p> <p>In developing a requirement regarding the collection of GIC monitoring data, NERC should consider the following criteria discussed at the March 1, 2016 Technical Conference: (1) the GIC data is from areas found to have high GIC based on system studies; (2) the GIC data comes from sensitive installations and key parts of the transmission grid; and (3) the data comes from GIC monitors that are not situated near transportation systems using direct current (e.g., subways or light rail.”</p> <p>***</p> <p>P 91: GIC monitoring and magnetometer locations should also be revisited after GIC system models are run with improved ground conductivity models. NERC may also propose to incorporate the GIC monitoring and magnetometer data collection requirements in a different Reliability Standard (e.g., real-time reliability monitoring and analysis capabilities as part of the TOP Reliability Standards).</p>						

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
P 92: “[T]he Commission determines that requiring responsible entities to collect necessary GIC monitoring and magnetometer data, rather than install GIC monitors and magnetometers, affords greater flexibility while obtaining significant benefits.”						
<p>S-ref 10955 P 101: “The Commission directs NERC to modify Reliability Standard TPL-007-1 to include a deadline of one year from the completion of the GMD Vulnerability Assessments to complete the development of corrective action plans.”</p> <p>P 102: “The Commission also directs NERC to modify Reliability Standard TPL-007-1 to include a two-year deadline after the development of the corrective action plan to complete the implementation of non-hardware mitigation and four-year deadline to complete hardware mitigation...”</p> <p>“The Commission agrees that NERC should consider extensions of time on a case-by-case basis.</p>	Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event	9/22/2016	Order 830	RM15-11-000	Paras 101-102	
S-ref 10956 P 77: “First, the Commission adopts the NOPR proposal and directs NERC to submit a GMD research work plan and, subsequently, informational filings that address the GMD-related research areas identified in the NOPR, additional research tasks identified in this Final Rule... and, in NERC’s discretion, any GMD-related research areas generally that may impact the development of new or modified GMD Reliability Standards.”	Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event	9/22/2016	Order 830	RM15-11-000	Para 77 and Para 81	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>“The research required by this directive should be informed by ongoing GMD-related research efforts of entities such as USGS, [NOAA], [NASA], [DOE], academic and other publicly available contributors, including work performed for the National Space Weather Action Plan.”</p> <p>P 81: “[W]e do not set specific deadlines for completion of the research; we only require NERC to submit the GMD research work plan within six months of the effective date of a final rule. The GMD research work plan, in turn, should include target dates for the completion of research topics and the reporting of findings to the Commission.</p> <p>The Commission intends to notice and invite comment on the GMD research work plan.</p> <p>An extension of time to submit the GMD research work plan may be available if six months proves to be insufficient.</p> <p>In addition, given the uncertainties commonly associated with complex research projects, the Commission will be flexible regarding changes to the tasks and target dates established in the GMD research work plan.”</p>						
<p>S-ref 10957 COLLECT EXISTING AND NEW GIC/MAGNETOMETER DATA AND MAKE IT PUBLICLY AVAILABLE</p> <p>P 88: “[T]he Commission directs NERC, pursuant to Section 1600 of the NERC Rules of Procedure, to collect GIC monitoring and magnetometer data from registered entities for the period beginning May 2013, including</p>	<p>Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event</p>	<p>9/22/2016</p>	<p>Order 830</p>	<p>RM15-11-000</p>	<p>Para 88, Paras 93-95</p>	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>both data existing as of the date of this order and new data going forward, and to make that information available.”</p> <p>FN118: “The Commission’s directives to collect and make available GIC monitoring and magnetometer data do not apply to non-U.S. responsible entities or Alaska and Hawaii.</p> <p>P 93: “We also direct NERC, pursuant to Sections 1500 and 1600 of the NERC Rules of Procedure, to collect and make GIC monitoring and magnetometer data available.”</p> <p>FN 112: “If GIC monitoring and magnetometer data is already publicly available (e.g., from a government entity or university), NERC need not duplicate these efforts.</p> <p>P 94: “Based on the record in this proceeding, we believe that GIC and magnetometer data typically should not be designated as Confidential Information under the NERC Rules of Procedure.”</p> <p>95: “Notwithstanding our findings here, to the extent any entity seeks confidential treatment of the data it provides to NERC, the burden rests on that entity to justify the confidential treatment. Exceptions are possible if the providing entity obtains from NERC, at the time it submits data to NERC, a determination that GIC or magnetometer data qualify as Confidential Information. Entities denied access to GIC and magnetometer data by NERC or providers denied Confidential Information treatment of GIC and magnetometer data may appeal NERCs decision to the Commission.”</p>						



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>s-ref 10959- "The Commission amends its regulations, pursuant to section 215 of the Federal Power Act (FPA), to require the North American Electric Reliability Corporation (NERC) to provide the Commission, and Commission staff, with access, on a non-public and ongoing basis, to certain databases compiled and maintained by NERC. The amended regulation applies to the following NERC databases: (1) the Transmission Availability Data System (TADS), (2) the Generating Availability Data System (GADS), and (3) the protection system misoperations database. Access to these databases, which will be limited to data regarding U.S. facilities provided to NERC on a mandatory basis, will provide the Commission with information necessary to determine the need for new or modified Reliability Standards and to better understand NERC’s periodic reliability and adequacy assessments."</p>	<p>Availability of Certain North American Electric Reliability Corporation Databases to the Commission</p>	<p>6/16/2016</p>	<p>Order 824</p>	<p>RM15-25-000</p>	<p>Entire Order</p>	
<p>S-ref10958- P2: "The Commission, as discussed below, directs NERC to submit a compliance filing within 60 days of the date of this order to modify the violation risk factor designations for Requirement R1 of Reliability Standard IRO-018-1 and Requirements R1 and R2 of Reliability Standard TOP-010-1 to “high.”"</p> <p>P18 -"Accordingly, we direct NERC to raise these violation risk factor designations to “high.”"</p>	<p>Order Approving Reliability Standards</p>	<p>9/22/2016</p>	<p>156 FERC ¶ 61,207</p>	<p>RD16-6-000</p>	<p>P2 and P18</p>	<p>11/7/2016</p>

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
<p>S-ref10953- P23: “[W]e direct NERC to develop modifications to Reliability Standard BAL-002-2 to address our concerns, discussed below, regarding the 15-minute ACE recovery period set forth in Requirement R1.”</p> <p>P37: “[W]e direct NERC to develop modifications to Reliability Standard BAL-002-2, Requirement R1 to require balancing authorities or reserve sharing groups: (1) to notify the reliability coordinator of the conditions set forth in Requirement R1, Part 1.3.1 preventing it from complying with the 15-minute ACE recovery period; and (2) to provide the reliability coordinator with its ACE recovery plan, including a target recovery time. NERC may also propose an equally efficient and effective alternative.”</p>	Disturbance Control Standard—Contingency Reserve for Recovery from a Balancing Contingency Event Reliability Standard	1/19/2017	Order 835	RM16-7	Para 23 and Para 37	
<p>S-ref10954- P23: “We also direct NERC to collect and report on data pertaining to the occurrence of Balancing Contingency Events that trigger resets of the 90-minute Contingency Reserve Restoration Period under Requirement R3.”</p> <p>s-ref10954- P46: “the Commission directs NERC to collect and report data pertaining to: (1) additional megawatt losses following Reportable Balancing Contingency Events during the Contingency Reserve Restoration Period; and (2) the time periods for contingency reserve restoration under Requirement R3 and the number of resets of the 90-minute restoration period, and submit a report to the Commission two years following the first day of implementation of Requirement R3. After NERC reports on the data in a compliance filing, the</p>	Disturbance Control Standard—Contingency Reserve for Recovery from a Balancing Contingency Event Reliability Standard	1/19/2017	Order 835	RM16-7	Para 23 and Para 46	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Actual NERC Filing to FERC Date
Commission will consider what further action, if any, to take."						
S-ref 10955-P23: "We further direct NERC to study and submit a report to the Commission with findings regarding reliability risks associated with most severe single contingency exceedances that do not result in energy emergencies."	Disturbance Control Standard—Contingency Reserve for Recovery from a Balancing Contingency Event Reliability Standard	1/19/2017	Order 835	RM16-7	Para 23	
S-ref 10956- P68: "[W]e direct NERC to assign a "high" violation risk factor to Reliability Standard BAL-002-2, Requirements R1 and R2."	Disturbance Control Standard—Contingency Reserve for Recovery from a Balancing Contingency Event Reliability Standard	1/19/2017	Order 835	RM16-7	Para 68	

## Appendix C – Remaining Directives to be Addressed

### Remaining Directives

Below is a list of the remaining directives as of this filing.

Table 3: Directives by Commission Order								
Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>S- Ref 10101 - Collect outage data for transmission outages of lines that cross both federal and non-federal lands, analyze it, and use the results to develop a standard that would apply to both federal and non-federal lands.</p> <p>NERC should gather and analyze the necessary data regarding vegetation management issues on public lands. If NERC’s analysis indicates that there are issues that should be addressed, NERC should propose a means to address the concern, for example by issuing an alert, or propose other appropriate action.”</p>	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007; 3/21/2013	Order 693, 777	RM06-16-000; RM12-4-000	Order 693 Para 732; Order 777 Para 129, 130	2010-07.1 FAC-003-2 RAPA	Vegetation Management	Not standards related (RAPA)
<p>S-Ref 10917 - Accordingly, should NERC make changes to Table 1 based upon NERC’s Procedure document, the Commission directs NERC to submit an informational notice describing the basis for the changes at least 30 days in advance of the effective date of any such changes.</p>	Frequency Response and Frequency Bias Setting Reliability Standard	1/16/2014	Order 794	RM13-11-000	Para 100		Frequency Response	Ongoing

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
S-Ref 10912 - The Commission directs NERC to continue its evaluation of the use of the linear regression methodology based upon experience and data collected following the implementation of BAL-003-1 and to submit a report to the Commission within three months after two years of operating experience once Requirement R1 of BAL-003-1 becomes effective (i.e., 27 months from the effective date of Requirement R1). The report should assess the accuracy of the linear regression methodology compared to the median methodology for purposes of determining Frequency Response Measure. Based on this report and actual experience, the Commission may revisit this issue.	Frequency Response and Frequency Bias Setting Reliability Standard	1/16/2014	Order 794	RM13-11-000	Para 34	2007-12.1 RAPA		Not standards related (RAPA)
S-Ref 10913 - The Commission adopts the NOPR proposal and directs NERC to submit a report that provides an analysis of the availability of resources for each balancing authority and Frequency Response Sharing Group to meet its Frequency Response Obligation during the first year of implementation. However, NERC indicates in its comments that it needs more than the proposed 15 months to prepare the report based on the time frame for NERC to receive relevant data from applicable entities. Accordingly, we direct NERC to submit this report within 27 months of implementation of Requirement R1. Further, consistent with NERC's representation in its comments, the Commission directs that, upon completion of the required analysis, should the findings indicate that the Frequency Response Obligation was not met, NERC shall provide appropriate recommendations to ensure that frequency response can be maintained at all times within each balancing authority's footprint.	Frequency Response and Frequency Bias Setting Reliability Standard	1/16/2014	Order 794	RM13-11-000	Para 60	2007-12.1 RAPA		Not standards related (RAPA)

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
S- Ref 10894 - Direct NERC to modify Reliability Standard TPL-001-4 to address the concern that the six month threshold could exclude planned maintenance outages of significant facilities from future planning assessments.	Transmission Planning Reliability Standards	10/17/2013	Order 786	RM12-1-000 and RM13-9-000	Para 40	2015-10	Single Points of Failure	
S- Ref 10896 - Directs NERC to consider a similar spare equipment strategy for stability analysis upon the next review cycle of Reliability Standard TPL-001-4.	Transmission Planning Reliability Standards	10/17/2013	Order 786	RM12-1-000 and RM13-9-000	Para 89	2015-10	Single Points of Failure	
S- Ref 10893 - Direct NERC to report on the use of footnote 12 including the use and effectiveness of the local regulatory review and NERC review. This report is important because it will provide an analysis of the use of footnote 12, including but not limited to information on the duration, frequency and magnitude of planned non-consequential load loss, and typical (and if significant, atypical) scenarios where entities plan for non-consequential load loss.	Transmission Planning Reliability Standards	10/17/2013	Order 786	RM12-1-000 and RM13-9-000	Para 30	RAPA	TBD	RAPA Project
S- Ref 10023 - In the five-year review cycle of the standard, perform research that would provide a technical basis for the present or any alternative approach that is more effective and helps reduce inadvertent interchange. (BAL-004)	Mandatory Reliability Standards for the Bulk-Power System	3/16/2007	Order 693	RM06-16-000	Para 385	2010-14.2.2	Phase 2 of Balancing Authority Reliability-based Control: Time Error, AGC, and Inadvertent	RAPA Project

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>S- Ref 10871 - ...a. “As discussed below, we also direct NERC to develop a means to assure that IROLs are communicated to transmission owners.” (P 6)</p> <p>“NERC must establish a clearly defined communication structure to assure that IROLs and changes to IROL status are timely communicated to transmission owners. Left to NERC how to accomplish this objective. Commission identifies modification of FAC-014 as a vehicle that would meet the objective.” (P 41)</p> <p>“NERC should inform the Commission of when it has developed means for communication of IROLs to transmission owners to help ensure that they receive notice of each of their applicable lines before the standard becomes effective as to those lines.” (P 42)</p>	Revisions to Reliability Standard for Transmission Vegetation Management	3/21/2013	Order 777	RM12-4-000	Para 6, 41, 42	2015-09 FAC-014 Enhanced periodic review	Vegetation Management	Not standards related (RAPA)

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>S-Ref 10924 - With respect to Portland’s concerns regarding WECC’s data and the informational filing, the informational filing is intended to identify any issues regarding the adequacy of contingency reserve levels in the Western Interconnection and the impact on other reliability areas such as frequency response. We are satisfied that WECC provided enough representative data to conclude that the new methodology will likely not result in significantly less average contingency reserve in the Western Interconnection. However, for the reasons discussed above, the Commission believes that it is necessary to monitor and assess contingency reserve levels in the Western Interconnection following implementation of the regional Reliability Standard. ...The Commission adopts the NOPR proposal to direct NERC to file an informational filing two years after implementation of the regional Reliability Standard.</p>	<p>Regional Reliability Standard BAL-002-WECC-2 - Contingency Reserve</p>	<p>11/13/2013</p>	<p>Order 789</p>	<p>RM13-13-000</p>	<p>Para 39</p>	<p>BAL-002-WECC-2</p>	<p>Regional BAL</p>	



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>S-Ref 10919 - The Commission adopts the proposal to direct NERC to make an informational filing addressing whether Reliability Standard CIP-014-1 provides physical security for all “High Impact” control centers, as that term is defined in Reliability Standard CIP-002-5.1, necessary for the reliable operation of the Bulk-Power System. However, the Commission extends the deadline for that informational filing until two years following the effective date of Reliability Standard CIP-014-1. The Commission adopts the NOPR proposal and directs NERC to submit an informational filing that addresses whether there is a need for consistent treatment of “High Impact” control centers for cybersecurity and physical security purposes through the development of Reliability Standards that afford physical protection to all “High Impact” control centers. The Commission, however, modifies the NOPR proposal and extends the due date for the informational filing to two years following the effective date of Reliability Standard CIP-014-1.</p> <p>NERC indicated that NERC staff will submit to the NERC Board of Trustees a report three months following implementation of Requirements R1, R2 and R3 concerning the scope of facilities identified as critical, including the number of facilities identified as critical and their defining characteristics. NERC also committed to sending this report to Commission staff.</p>	Physical Security Reliability Standard	11/20/2014	Order 802	RM14-15-000	Para 21 and 57	2014-04	Physical Security	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
S- Ref 10820 - The Commission believe that NERC should register demand side aggregators if the loss of their load shedding capability, for reasons such as a cyber incident, would affect the reliability or operability of the Bulk-Power System.	Mandatory Reliability Standards for Critical Infrastructure Protection	1/18/2008	Order 706	RM06-22-000	Para 051	NERC Registration	For Directives assigned to Compliance	Regional

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>S-Ref 10920 - “[W]e direct NERC to obtain, maintain, and make available to the Commission upon request, one year following the effective date of the standard and on an annual basis thereafter, data sufficient to analyze the effectiveness of PRC-005-3, whether it be through NERC’s Event Analysis process or other means. Specifically, NERC is to collect relevant information regarding Bulk-Power System events that involve high speed auto-reclosing relays. Such information would include the operations of auto-reclosing relays and their supervisory functionalities (e.g., time delays, synchronism check, voltages, etc.) that caused or exacerbated the events, and any unintended consequences of the events. The Commission encourages NERC and FERC staff to collaborate on the specific data to be collected, which could include, but is not limited to, the approximate distance from the fault and the generation loss associated with the event. Further, the Commission is also interested in knowing if those auto-reclosing relays identified as causing or exacerbating an event operated as designed, and if PRC-005-3 is applicable to the auto-reclosing relays that were involved. We expect NERC to share all appropriate data as needed to evaluate auto-reclosing relay performance, in accordance with our general expectation that NERC will “cooperate with and share all appropriate data and information with Commission staff” as needed “to ensure that the ERO Enterprise and the Commission are both able to effectively perform their duties under section 215 of the FPA.”</p>	Protection System Maintenance Reliability Standard	1/22/2015	Order 803	RM14-8-000	Para 25	2007-17.4	Protection System Maintenance and Testing PRC-005-3 directives	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
S- Ref 10752 - The Commission directs RFC to add time horizons to the two main requirements when RFC reviews BAL-502-RFC-02 at the scheduled five-year review.	Final Rule Approving Planning Resource Adequacy Assessment Standard BAL-502-RFC-02	3/17/2011	Order 747	RM10-10-000	Para 53	Regional	For directives assigned to regions	
S- Ref 10753 - Consider, at the time of its five-year review, whether to add a requirement to BAL-502-RFC-02 that would require Planning Coordinators to identify any gap between the needed amount of planning reserves defined in Requirement R1.1 and the planning reserves determined from the resource adequacy analysis.	Final Rule Approving Planning Resource Adequacy Assessment Standard BAL-502-RFC-02	3/17/2011	Order 747	RM10-10-000	Para 65	Regional	For directives assigned to regions	
S-Ref 10947 we direct that NERC, pursuant to section 215(d)(5) of the FPA, develop modifications to the CIP Reliability Standards to provide mandatory protection for transient devices used at Low Impact BES Cyber Systems based on the risk posed to bulk electric system reliability. While NERC has flexibility in the manner in which it addresses the Commission’s concerns, the proposed modifications should be designed to effectively address the risks posed by transient devices to Low Impact BES Cyber Systems in a manner that is consistent with the risk-based approach reflected in the CIP version 5 Standards.	Revised Critical Infrastructure Protection Reliability Standards	1/21/2016	Order No. 822	RM15-14-000	Para 32	2016-02	Modifications to CIP Standards	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
S-Ref 10948 we adopt the NOPR proposal and direct that NERC, pursuant to section 215(d)(5) of the FPA, develop modifications to the CIP Reliability Standards to require responsible entities to implement controls to protect, at a minimum, communication links and sensitive bulk electric system data communicated between bulk electric system Control Centers in a manner that is appropriately tailored to address the risks posed to the bulk electric system by the assets being protected (i.e., high, medium, or low impact).	Revised Critical Infrastructure Protection Reliability Standards	1/21/2016	Order No. 822	RM15-14-000	Para 53	2016-02	Modifications to CIP Standards	
S-Ref 10949 we direct NERC to conduct a study that assesses the effectiveness of the CIP version 5 remote access controls, the risks posed by remote access-related threats and vulnerabilities, and appropriate mitigating controls for any identified risks. NERC should consult with Commission staff to determine the general contents of the directed report. We direct NERC to submit a report on the above outlined study within one year of the implementation of the CIP version 5 Standards for High and Medium Impact BES Cyber Systems.	Revised Critical Infrastructure Protection Reliability Standards	1/21/2016	Order No. 822	RM15-14-000	Para 64	2016-02	Modifications to CIP Standards	
S-Ref 10950 we direct NERC to develop a modification to provide the needed clarity, within one year of the effective date of this Final Rule. We agree with NERC and other commenters that a suitable means to address our concern is to modify the Low Impact External Routable Connectivity definition consistent with the commentary in the Guidelines and Technical Basis section of CIP-003-6.	Revised Critical Infrastructure Protection Reliability Standards	1/21/2016	Order No. 822	RM15-14-000	Para 73	2016-02	Modifications to CIP Standards	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>S- Ref 10951- “[W]e direct NERC to develop a forward-looking, objective-based Reliability Standard to require each affected entity to develop and implement a plan that includes security controls for supply chain management for industrial control system hardware, software, and services associated with bulk electric system operations.<sup>2</sup> The new or modified Reliability Standard should address the following security objectives, discussed in detail below: (1) software integrity and authenticity; (2) vendor remote access; (3) information system planning; and (4) vendor risk management and procurement controls. In making this directive, the Commission does not require NERC to impose any specific controls, nor does the Commission require NERC to propose “one-size-fits-all” requirements. The new or modified Reliability Standard should instead require responsible entities to develop a plan to meet the four objectives, or some equally efficient and effective means to meet these objectives, while providing flexibility to responsible entities as to how to meet those objectives. 14 Galloway Technical Conference Comments at 1 (“...ISO-NE supports the Commission’s proposal to direct NERC to develop requirements relating to supply chain risk management. We believe that the risks to the reliability of the Bulk Electric System that result from compromised third-party software are real, significant and largely unaddressed by existing reliability standards. While many public utilities are already assessing these risks and asking vendors to address them, these one-off efforts are far less likely to be effective than an industry-wide reliability standard.”).</p>	Revised Critical Infrastructure Protection Reliability Standards	7/2/2016	Order 829	RM15-14-002	Para 14 and Footnote 14	2016-03	Cyber Security Supply Chain Risk Management	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>S-ref 10952P44: “[T]he Commission, as proposed in the NOPR, directs NERC to develop revisions to the benchmark GMD event definition so that the reference peak geoelectric field amplitude component is not based solely on spatially-averaged data.”</p> <p>P47: “Without prejudging how NERC proposes to address the Commission’s directive, NERC’s response to this directive should satisfy the NOPR’s concern that reliance on spatially-averaged data alone does not address localized peaks that could potentially affect the reliable operation of the Bulk-Power System.”</p> <p>P48: “NERC could revise [the standard] to apply a higher reference peak geoelectric field amplitude value to assess the impact of localized hot spots on the Bulk-Power System, as suggested by the Trade Associations.”</p> <p>P49: “Consistent with Order No. 779, the Commission does not specify a particular reference peak geoelectric field amplitude value that should be applied to hot spots given present uncertainties</p>	<p>Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event</p>	<p>9/22/2016</p>	<p>Order 830</p>	<p>RM15-11-000</p>	<p>Para 44-Para 49</p>	<p>2013-03</p>	<p>Geomagnetic Disturbance Mitigation</p>	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>S-ref 10953- P65: “Consistent with our determination above regarding the reference peak geoelectric field amplitude value, the Commission directs NERC to revise Requirement R6 to require registered entities to apply spatially averaged and non-spatially averaged peak geoelectric field values, or some equally efficient and effective alternative, when conducting thermal impact assessments.”</p>	<p>Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event</p>	<p>9/22/2016</p>	<p>Order 830</p>	<p>RM15-11-000</p>	<p>Para 65</p>	<p>2013-03</p>	<p>Geomagnetic Disturbance Mitigation</p>	
<p>Standard TPL-007-1 to require responsible entities to collect GIC monitoring and magnetometer data as necessary to enable model validation and situational awareness, including from any devices that must be added to meet this need.</p> <p>The NERC standard drafting team should address the criteria for collecting GIC monitoring and magnetometer data discussed below and provide registered entities with sufficient guidance in terms of defining the data that must be collected, and NERC should propose in the GMD research work plan how it will determine and report on the degree to which industry is following that guidance.”</p> <p>Magnetometer Requirements P90: “In developing a requirement regarding the collection of magnetometer data, NERC should consider the following criteria discussed at the March 1, 2016 Technical Conference: (1) the data is sampled at a cadence of at least 10-seconds or faster; (2) the data comes from magnetometers that are physically close to GIC monitors; (3) the data comes from magnetometers that are not near sources of magnetic interference (e.g., roads and local distribution networks); and (4) data is collected</p>	<p>Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event</p>	<p>9/22/2016</p>	<p>Order 830</p>	<p>RM15-11-000</p>	<p>Para 65, Paras 90-92</p>	<p>2013-03</p>	<p>Geomagnetic Disturbance Mitigation</p>	



Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>from magnetometers spread across wide latitudes and longitudes and from diverse physiographic regions.”</p> <p>GIC Requirements</p> <p>P 91: “Each responsible entity that is a transmission owner should be required to collect necessary GIC monitoring data. However, a transmission owner should be able to apply for an exemption from the GIC monitoring data collection requirement if it demonstrates that little or no value would be added to planning and operations.</p> <p>In developing a requirement regarding the collection of GIC monitoring data, NERC should consider the following criteria discussed at the March 1, 2016 Technical Conference: (1) the GIC data is from areas found to have high GIC based on system studies; (2) the GIC data comes from sensitive installations and key parts of the transmission grid; and (3) the data comes from GIC monitors that are not situated near transportation systems using direct current (e.g., subways or light rail.”</p> <p>***</p> <p>P 91: GIC monitoring and magnetometer locations should also be revisited after GIC system models are run with improved ground conductivity models. NERC may also propose to incorporate the GIC monitoring and magnetometer data collection requirements in a different Reliability Standard (e.g., real-time reliability monitoring and analysis capabilities as part of the TOP Reliability Standards).</p> <p>P 92: “[T]he Commission determines that requiring responsible entities to collect necessary GIC</p>								

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
monitoring and magnetometer data, rather than install GIC monitors and magnetometers, affords greater flexibility while obtaining significant benefits.”								
<p>S-ref 10955 P 101: “The Commission directs NERC to modify Reliability Standard TPL-007-1 to include a deadline of one year from the completion of the GMD Vulnerability Assessments to complete the development of corrective action plans.”</p> <p>P 102: “The Commission also directs NERC to modify Reliability Standard TPL-007-1 to include a two-year deadline after the development of the corrective action plan to complete the implementation of non-hardware mitigation and four-year deadline to complete hardware mitigation...”</p> <p>“The Commission agrees that NERC should consider extensions of time on a case-by-case basis.</p>	Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event	9/22/2016	Order 830	RM15-11-000	Paras 101-102	2013-03	Geomagnetic Disturbance Mitigation	
<p>S-ref 10956 P 77: “First, the Commission adopts the NOPR proposal and directs NERC to submit a GMD research work plan and, subsequently, informational filings that address the GMD-related research areas identified in the NOPR, additional research tasks identified in this Final Rule... and, in NERC’s discretion, any GMD-related research areas generally that may impact the development of new or modified GMD Reliability Standards.”</p> <p>“The research required by this directive should be informed by ongoing GMD-related research efforts</p>	Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event	9/22/2016	Order 830	RM15-11-000	Para 77 and Para 81	2013-03	Geomagnetic Disturbance Mitigation	

Table 3: Directives by Commission Order

Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>of entities such as USGS, [NOAA], [NASA], [DOE], academic and other publicly available contributors, including work performed for the National Space Weather Action Plan.”</p> <p>P 81: “[W]e do not set specific deadlines for completion of the research; we only require NERC to submit the GMD research work plan within six months of the effective date of a final rule. The GMD research work plan, in turn, should include target dates for the completion of research topics and the reporting of findings to the Commission.</p> <p>The Commission intends to notice and invite comment on the GMD research work plan.</p> <p>An extension of time to submit the GMD research work plan may be available if six months proves to be insufficient.</p> <p>In addition, given the uncertainties commonly associated with complex research projects, the Commission will be flexible regarding changes to the tasks and target dates established in the GMD research work plan.”</p>								
<p>S-ref 10957 COLLECT EXISTING AND NEW GIC/MAGNETOMETER DATA AND MAKE IT PUBLICLY AVAILABLE</p> <p>P 88: “[T]he Commission directs NERC, pursuant to Section 1600 of the NERC Rules of Procedure, to collect GIC monitoring and magnetometer data from registered entities for the period beginning May 2013, including both data existing as of the date of this order and new data going forward, and to make that information available.”</p>	Reliability Standard for Transmission System Planned Performance for Geomagnetic Disturbance Event	9/22/2016	Order 830	RM15-11-000	Para 88, Paras 93-95	2013-03	Geomagnetic Disturbance Mitigation	

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>FN118: “The Commission’s directives to collect and make available GIC monitoring and magnetometer data do not apply to non-U.S. responsible entities or Alaska and Hawaii.</p> <p>P 93: “We also direct NERC, pursuant to Sections 1500 and 1600 of the NERC Rules of Procedure, to collect and make GIC monitoring and magnetometer data available.”</p> <p>FN 112: “If GIC monitoring and magnetometer data is already publicly available (e.g., from a government entity or university), NERC need not duplicate these efforts.</p> <p>P 94: “Based on the record in this proceeding, we believe that GIC and magnetometer data typically should not be designated as Confidential Information under the NERC Rules of Procedure.”</p> <p>95: “Notwithstanding our findings here, to the extent any entity seeks confidential treatment of the data it provides to NERC, the burden rests on that entity to justify the confidential treatment. Exceptions are possible if the providing entity obtains from NERC, at the time it submits data to NERC, a determination that GIC or magnetometer data qualify as Confidential Information. Entities denied access to GIC and magnetometer data by NERC or providers denied Confidential Information treatment of GIC and magnetometer data may appeal NERCs decision to the Commission.”</p>								

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
<p>S-ref10953- P23: “[W]e direct NERC to develop modifications to Reliability Standard BAL-002-2 to address our concerns, discussed below, regarding the 15-minute ACE recovery period set forth in Requirement R1.”</p> <p>P37: “[W]e direct NERC to develop modifications to Reliability Standard BAL-002-2, Requirement R1 to require balancing authorities or reserve sharing groups: (1) to notify the reliability coordinator of the conditions set forth in Requirement R1, Part 1.3.1 preventing it from complying with the 15-minute ACE recovery period; and (2) to provide the reliability coordinator with its ACE recovery plan, including a target recovery time. NERC may also propose an equally efficient and effective alternative.”</p>	Disturbance Control Standard—Contingency Reserve for Recovery from a Balancing Contingency Event Reliability Standard	1/19/2017	Order 835	RM16-7	Para 23 and Para 37			
<p>S-ref10954- P23: “We also direct NERC to collect and report on data pertaining to the occurrence of Balancing Contingency Events that trigger resets of the 90-minute Contingency Reserve Restoration Period under Requirement R3.”</p> <p>s-ref10954- P46: “the Commission directs NERC to collect and report data pertaining to: (1) additional megawatt losses following Reportable Balancing Contingency Events during the Contingency Reserve Restoration Period; and (2) the time periods for contingency reserve restoration under Requirement R3 and the number of resets of the 90-minute restoration period, and submit a report to the Commission two years following the first day of implementation of Requirement R3. After NERC reports on the data in a compliance filing, the Commission will consider what further action, if any, to take.”</p>	Disturbance Control Standard—Contingency Reserve for Recovery from a Balancing Contingency Event Reliability Standard	1/19/2017	Order 835	RM16-7	Para 23 and Para 46			

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Directive Summary	Document Name	Publication Date	Order No.	FERC ORDER / DOCKET	Paragraph Reference	Project Number	Project Name	Project Type
S-ref 10955-P23: "We further direct NERC to study and submit a report to the Commission with findings regarding reliability risks associated with most severe single contingency exceedances that do not result in energy emergencies."	Disturbance Control Standard—Contingency Reserve for Recovery from a Balancing Contingency Event Reliability Standard	1/19/2017	Order 835	RM16-7	Para 23			
S-ref 10956- P68: "[W]e direct NERC to assign a "high" violation risk factor to Reliability Standard BAL-002-2, Requirements R1 and R2."	Disturbance Control Standard—Contingency Reserve for Recovery from a Balancing Contingency Event Reliability Standard	1/19/2017	Order 835	RM16-7	Para 68			