

**NERC Standards Committee
Project Prioritization Worksheet**

STANDARDS COMMITTEE Reliability Standard Project Prioritization				(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
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1	Project 2008-06 Cyber Security - Order 706 (1) 419	This is the second phase (Phase 2) of Project 2008-06 Cyber Security Order 706. The project requires modifications to CIP-002 thru CIP-009 not included in Phase 1 of the project to bring the standards into conformance with the ERO Rules of Procedure and to address the directives from FERC Order 706.	371	0	50	75	100	0	25	0	50	71	0	
2	Project 2007-17 Protection System Maintenance & Testing (2) 363	Transmission and Generation Protection System Maintenance and Testing, to consolidate PRC-005-1, PRC-008-0 — Underfrequency Load Shedding Equipment Maintenance Programs; PRC-011-0 — UVLS System Maintenance and Testing; and PRC-017-0 — Special Protection System Maintenance and Testing into a single maintenance and testing standard. Standards PRC-008-0, PRC-011-0, and PRC-017-0 would then be withdrawn.	338	0	8	50	100	0	25	50	50	55	0	
3	Project 2007-06 System Protection Coordination (3) 284	Requires upgrading and expanding the existing requirements to identify criteria for determining where to install protection system devices and for requiring the installation of those devices to protect the reliability of the bulk electric system.	289	0	0	50	100	0	25	0	50	64	0	
4	Project 2010-07 Transmission Requirements at the Generator Interface (6) 250	This project proposes changes to the requirements and the addition of new requirements to add significant clarity to Generator Owners and Generator Operators regarding their reliability standard obligations at the interface with the interconnected grid.	275	0	0	75	75	50	25	50	0	0	0	
5	Project 2007-12 Frequency Response (7) 238	Requires entities to provide data needed to model each interconnection's frequency response.	265	75	5	50	100	0	25	0	0	10	0	
6	Project 2007-02 Operating Personnel Communications Protocols (10) 210	Requires developing new requirements in support of blackout recommendation #26 to ensure that real-time system operators use standard communication protocols during normal and emergency operations.	260	0	8	50	75	50	25	0	0	52	0	
7	Project 2006-02 Assess Transmission and Future Needs (4) 250	Requires assessments and plans to determine if the bulk power system meets specified performance requirements under varied theoretical operating conditions to meet present and future system needs.	250	0	22	0	75	50	25	0	0	78	0	
8	BES Definition (5) 250	BES Definition	250	100	0	75	50	0	0	25	0	0	0	
9	Project 2007-03 Real-time Transmission Operations (16) 194	Requires upgrading and expanding existing requirements that address balancing authority responsibilities to ensure a balance between load, interchange and generation within its balancing authority area in support of interconnection frequency. Requires upgrading and expanding existing requirements that address transmission operator responsibilities to ensure the real-time operating reliability of the transmission assets within the transmission operator's area.	244	0	22	0	75	50	25	0	0	72	0	
10	Project 2007-09 Generator Verification (23) 117	Requires upgrading existing requirements for generators to verify their capabilities to ensure that accurate data is used in model to assess the bulk electric system.	242	0	4	75	50	50	25	0	0	38	0	
11	Project 2009-01 Disturbance and Sabotage Reporting (24) 108	This project will entail revision to existing standards CIP-001 and EOP-004. The standards may be merged to eliminate redundancy and provide clarity on sabotage events. EOP-004 has some "fill-in-the-blank" components to eliminate. The development may include other improvements to the standards deemed appropriate by the drafting team, with the consensus of stakeholders, consistent with establishing high quality, enforceable and technically sufficient bulk power system reliability standards.	235	0	8	75	25		25	50	0	52	0	

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12	Project 2010-05 Protection Systems (6) 237	Modify current PRC standards and definitions related to Protection System Misoperations to support a good metric for measurement of Protection System performance and ensure the reliability of the bulk power system.	227	0	2	50	100	0	25	50	0	0		
13	Project 2006-06 Reliability Coordination (12) 205	Requires upgrading and expanding existing requirements that address reliability coordinator actions to prevent instability, uncontrolled separation or cascading outages.	217	0	12	0	50	50	25	0	0	80	0	
14	Project 2010-14 Balancing Authority Reliability-based Control (21) 152	Requires upgrading existing requirements to ensure that balancing authorities take actions to maintain interconnection frequency with each balancing authority contributing its fair share of frequency control. Also requires corrective action by the BA when excessive Area Control Error may be contributing to or causing action to be taken to correct an SOL/IROL problem, to prevent interconnection frequency excursions of short duration attributed to the ramping of on and off-peak interchange Transactions, and to support timely transmission congestion relief by requiring corrective load/generation management by the Balancing Authority(ies) within a defined timeframe when participating in transmission loading relief procedures.	212	0	1	50	75	0	25	0	50	11	0	
15	Project 2007-07 Vegetation Management (16) 163	Requires upgrading the existing requirements for entities to implement a vegetation management program to prevent transmission outages that adversely impact the reliability of the bulk electric system.	211	0	11	0	50	0	25	0	0	75	50	This project is being used as the proof-of-concept for the results-based reliability standards initiative. <i>Also includes alternative approaches to VRFs and VSLs that need industry consideration.</i>
16	Project 2007-11 Disturbance Monitoring (11) 207	Requires upgrading and expanding existing requirements for entities to install disturbance monitoring equipment and report disturbance data to ensure information is available to analyze bulk power system disturbances.	207	0	1	50	75	0	25	0	0	56	0	
17	Project 2008-01 Voltage and Reactive Planning and Control (22) 134	This project supports a blackout recommendation. Industry debate is needed on whether there should be a North American standard that requires a specific amount of reserves, or whether requirements for specific reserves should continue to be addressed at the regional level. The requirements in the existing standards need to be upgraded to be more specific in defining voltage and reactive power schedules. Consideration should be given to adding a requirement for the Reliability Coordinator to monitor and take action if reactive power falls outside identified limits.	206	0	12	50	50	0	25	20	0	49	0	
18	Project 2010-13 Relay Loadability Order (15) 196	Modify PRC-023-1 Transmission Relay Loadability standard and maybe other standards in compliance with the FERC Order 733 issued on March 18, 2010.	197	100	10	25	50	0	0	0	0	12	0	
19	Project 2009-02 Real-time Reliability Monitoring and Analysis Capabilities (27) 100	The new standard or standards will establish requirements for the functionality, performance, and management of Real-time tools for Reliability Coordinators, Transmission Operators, and Balancing Authorities for use by their System Operators in support of reliable System operations.	189	0	2	75	50	0	25	0	0	37	0	
20	Project 2009-03 Emergency Operations (17) 170	This set of EOP standards may be merged into a single standard. There are some requirements in IRO-001 that may be improved and merged into the new "merged" EOP standard.	170	0	19	0	50	0	25	0	50	26	0	
21	Project 2008-12 Coordinate Interchange Standards (20) 158	Revise the set of Coordinate Interchange standards to ensure that each requirement is assigned to an owner, operator or user of the bulk power system, and not to a tool used to coordinate interchange, to address the Interchange Subcommittee's concerns related to the Dynamic Transfers and Pseudo-ties, and to address previously identified stakeholder comments and applicable directives from Order 693.	158	0	4	50	25	0	25	25	0	29	0	

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22	Project 2010-01 Support Personnel Training (33)	Require the use of a systematic approach to determining training needs of generator operators and operators planning and support staff with a direct impact on the reliable operations of the bulk power system.	126	100	1	25	0	0	0	0	0	0	0	
23	Project 2009-04 Phasor Measurements (19)	Supports a blackout recommendation. Several industry studies were issued that need to be analyzed to determine appropriate requirements for a NERC standard.	113	0	38	75	0	0	0	0	0	0	0	
24	Project 2008-02 Undervoltage Load Shedding (25) 104	Consider consolidating PRC-010-0 — Assessment of the Design and Effectiveness of UVLS Program and PRC-022-1 — Under-Voltage Load Shedding Program Performance. Missing are any criteria for identifying where UVLS should be installed. The team will utilize the FIDVR (Fault-Induced Delayed Voltage Recovery) Technical Reference Paper in the development of requirements.	104	0	4	0	75	0	25	0	0	0	0	Needs to go after 2008-01
25	Project 2009-07 Reliability of Protection Systems (26)	Requires facility owners to have protection system equipment installed such that, if there were a failure to a specified component of that protection system, the failure would not prevent meeting the BES performance identified in the TPL standards.	100	0	0	0	100	0	0	0	0	0	0	Needs status and justification - may be fixed by other projects
26	Project 2010-08 Functional Model Glossary Revisions (28)	The Functional Model Working Group (FMWG) has received many comments and questions from stakeholders concerning the differences in definitions between the Functional Model and the NERC Glossary of Terms Used in Reliability Standards. This project is designed to address these comments and make the definitions of functional entities consistent between the Functional Model and the NERC Glossary of Terms Used in Reliability Standards.	95	0	0	0	25	0	0	0	0	60	10	Getting core NERC documents straight is essential to all other ERO functions, standards development, compliance (auditing, investigating and enforcement), RAPA reports,...
27	Project 2010-04 Demand Data (29)	As envisioned, this project will result in two standards — with MOD-016 through MOD-020 in a single standard, and MOD-021 in a separate standard. The requirements need to be more specific to clearly identify the format, etc., for providing data.	82	0	7	0	50	0	25	0	0	0	0	Waiting on PC
28	Project 2010-03 Modeling Data (30)	Requires merging, upgrading and expanding existing requirements for entities to provide data used to model the bulk electric system.	75	0	0	0	50	0	25	0	0	0	0	Waiting on PC
29	Project 2009-05 Resource Adequacy Assessments (32)	Implements recommendations from the Resource and Transmission Adequacy Task Force (RTATF) Report and the Gas/Electricity Interdependency Task Force Report, approved by the NERC Board on June 15, 2004, related to resource adequacy.	72	0	22	0	50	0	0	0	0	0	0	
30	Project 2012-02 Physical Protection (31)	Consider the development of reliability standards for the physical protection of essential equipment, buildings and people located in power generation, transmission, or distribution system locations in order to mitigate the associated reliability risks to the bulk power system.	50	0	0	50	0	0	0	0	0	0	0	May be addressed in CIP
31	Project 2010-02 Connecting New Facilities to the Grid (34)	Ensure that all of the elements that should be addressed when a new facility is connected to the grid are included in the revised standard.	50	0	0	0	25	0	25	0	0	0	0	Still needed?
32	Project 2012-01 Equipment Monitoring and Diagnostic Devices (35)	Consider the development of reliability standards for the application of major equipment monitoring and diagnostic devices and procedures.	50	0	0	0	50	0	0	0	0	0	0	Uncertain if this is still needed - duplicates role of other projects?

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33	Project 2010-10 FAC Order 729 (9) 213	Address directives in FERC Order 729 relative to FAC-012-1 and FAC-013-1: (1) must address the Planning Horizon to ensure continuity with the ATC-related MOD standards; (2) should not address the Operating Horizon, because the ATC-related MOD standards already address this area; (3) should not delegate oversight and responsibility for this standard to Regional Entities, but rather do so at the ERO level; (4) must not conflict with the ATC-related MOD standards; and (5) must include Violation Risk Factors ("VRF") and Violation Severity Levels ("VSL").	0	100	1	0	50	0	0	0	0	100	0	
34	Project 2010-11 TPL Table 1 Order (13) 201	Provide clarity to industry on TPL-002-0, Table 1 - footnote 'b', regarding the planned or controlled interruption of electric supply where a single contingency occurs on a transmission system.	0	100	1	0	50	50	0	0	0	100	0	
35	Project 2007-01 Underfrequency Load Shedding (14) 196	Requires upgrading and expanding existing requirements to ensure that UFLS programs are coordinated and meet both regional and continent-wide criteria to operate when and only when needed.	0	0	0	0	75	0	25	0	0	100	0	