



**RCC Meeting
March 10, 2010
Agenda Item 7.9**

**Reliability Assessment Program
(NRAP)
HIGHLIGHT REPORT**
*Prepared for the
Reliability Coordinating Committee
March 10, 2010*

Distributed to:

Members, Reliability Coordinating Committee
Members, Compliance Committee
Members, Regional Standards Committee
Members, Task Force on System Studies
Members, Task Force on System Protection
Members, Task Force on Coordination of Planning
Members, Task Force on Coordination of Operation
Members, Task Force on Infrastructure Security and Technology
Chairmen, Working Groups
and
NPCC Staff



**Reliability Assessment Program
HIGHLIGHT REPORT**

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RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Regional Standards Committee

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
RSC	Regional Standards Committee	The NPCC Regional Standards Committee (RSC), a committee of the NPCC Board, is charged with management and maintenance of the NPCC Regional Standards Development Procedure under a sector based voting structure as described in the NPCC, Inc. Bylaws. The NPCC RSC will consider requests for new or revised standards and be available for advisement to the NPCC Board on the standards. The NPCC RSC will work in coordination with the Regional Standards Process Manager (RSPM) who will be the administrator for the NPCC Regional Standards Development Procedure. In addition, the NPCC RSC will review, comment on and develop ballot recommendations for the NERC Reliability Standards under development.

Status/ Comments:

The Regional Standards Committee is focusing on the review of each of the NERC Reliability Standards (as they are developed or revised). RSC is currently reviewing the FERC Orders and NOPRs that pertain to Reliability Standards. The RSC develops recommendations for the membership on ballots when posted. RSC has also commented on the Adequate Level of Reliability Definition, participates in the NERC Functional Model Working Group, NERC Standards Committee, and the NERC Regional Reliability Standards Working Group. RSC is participating in the NERC Reliability Standards Manual revisions and the Results Based Standards Initiative through the Standards Committee Process Subcommittee and also soliciting members for the NERC drafting teams as necessary to ensure NPCC is represented. RSC also developed a process to coordinate commenting on adjacent Regions' criteria and their standards development, as well as promoting NPCC criteria in adjacent regions, and encouraging NPCC member involvement on their drafting teams. RSC is actively supporting the Cyber Security Standards development. RSC has developed and is maintaining a Regional Reliability Standards Development Process which has been approved by the NPCC BOD and filed with the FERC as part of the Regional Delegation Agreement. FERC has accepted the revised NPCC Standards Development Procedure and RSC will be involved with implementation. The RSC is overseeing the development of Regional Reliability Standards Underfrequency Load Shedding, and Special Protection Systems. The Disturbance Monitoring Standard has been approved by the NPCC General Membership, and approved by the NPCC Board of Directors. The RSC is compiling the necessary information to transmit the DM standard to NERC for Board of Trustee approval, after which it will be sent to FERC and the Canadian authorities for their approvals. The RSC is also overseeing the development of the NPCC Regional Reliability Directories and is maintaining a work plan for completion of this project.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
DIR-1	Basic Criteria for the Design and Operation of the Bulk Power System	This Directory presents the objectives, principles and requirements that govern the Areas in formulating plans and procedures to be followed for the design and operation of interconnected power systems.	Latest Version:	New
			Frequency of Reviews:	3 years
			Next Review Date:	
	Status/ Comments:	Directory No. 1 received Full Member approval on December 1, 2009. The approval of Directory No. 1 also allowed the retirement of NPCC documents A2, B4, B8, B10, C4, C13, C18, and C40. TFCP has assigned CP11 to begin the triennial review of Directory No. 1 during 2010. CP-11 has been tasked by the TFCP with the review and revision of the document. This review will be initiated either on an as needed basis or upon the NERC BOT approval.		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
DIR-2	Emergency Operation Criteria	This Directory presents the objectives, principles and requirements that govern the Areas in formulating plans and procedures to be followed in an emergency or during conditions which could lead to an emergency.	Latest Version:	Oct. 21, 2008
			Frequency of Reviews:	3 years
			Next Review Date:	Oct. 2011
	Status/ Comments:	Directory No. 2 was approved by the Full Members on October 21, 2008 and NPCC Document A-3 was retired on the same date. The Automatic UFLS language formerly contained within Directory No. 2 was transferred into Directory#12 (UFLS Program Requirements) effective with the Full Member approval of Directory No. 12 on June 26, 2009.		



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Directories

Item	Name	Assignment	Latest Version:	July 2008
DIR-3	Maintenance Criteria for Bulk Power System Protection	This Directory establishes the maintenance interval and practices which should result in dependable and secure protection system operation.	Frequency of Reviews:	3 years
			Next Review Date:	Dec. 2009

Status/ Comments:

Directory No. 3 was approved by the NPCC Full Membership on July 11, 2008 and NPCC Documents A-4 and B-23 were retired on the same date.

During 2009 the Task Force on System Protection (TFSP) conducted a review of this document to better clarify specific intent on a number of requirements. The document was posted for two rounds of Open Process review which also resulted in a number of clarifying and editorial changes in response to the comments received.

Additional language was also incorporated into Appendix B of the document to provide guidance that credit can be obtained for normal breaker operations if the equipment design permits verification and documentation of breaker tripping by each individual trip coil.

The above changes to Directory No. 3 were approved by the Full Members on July 14, 2009.

Item	Name	Assignment	Latest Version:	New
DIR-4	BPS Protection Criteria	This Directory establishes the criteria and practices which result in dependable and secure protection system operation for the bulk power system	Frequency of Reviews:	3 years
			Next Review Date:	

Status/ Comments:

Directory No. 4 received Full Member approval on December 1, 2009. The approval of Directory No. 4 also allowed the retirement of NPCC documents A5, B5, B7, B24, and C22.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Directories

<u>Item</u>	<u>Name</u>	<u>Assignment</u>	<u>Latest Version:</u>	<u>New</u>
DIR-5	Operating Reserve Criteria	This Directory establishes the criteria and practices which result in dependable and secure operating reserve.		
			Frequency of Reviews:	3 years
			Next Review Date:	
	Status/ Comments:	The Task Force on Coordination of Operation with support from the CO-1 and CO-8 Working Groups has reviewed the initial draft of Directory#5 and has placed the document in the NPCC Open Process to receive comments for a 45 day posting period. . TFCO is currently refining the draft to fully consider issues such as NPCC Synchronous Reserve requirements, Shared Activation of Reserve, Regional Reserve Sharing, and ACE Diversity Interchange. The update of Directory No. 5 will be reviewed by the CO8 Working Group and TFCO in advance of a second posting to the Open Process in late February 2010.		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>	<u>Latest Version:</u>	<u>Dec. 27, 2007</u>
DIR-7	Special Protection System Criteria	This Directory establishes the protection criteria, and recommends minimum design objectives and practices for Special Protection Systems (SPSs). The SPS is categorized according to the Criteria fault for which it is designed and the impact its failure would have on the network.		
			Frequency of Reviews:	3 years
			Next Review Date:	Dec. 2010
	Status/ Comments:	Directory No. 7 was approved by the NPCC Full Membership on December 27, 2007. The Task Force on System Studies has recommended changes to Directory No.7 that would eliminate certain internal inconsistencies within the Directory. Additionally, TFSS is also reviewing language to consider circumstances when an SPS is retired. TFSS will forward all of its recommended changes to TFCP for comment after which TFSP will review and post the proposed revisions to the Open Process.		



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Directories

Item	Name	Assignment		
DIR-8	Black Start System Restoration Criteria	This Directory establishes the criteria and practices which result in dependable and secure black start and restoration for the bulk power system	Latest Version:	Oct. 21, 2008
			Frequency of Reviews:	3 years
			Next Review Date:	Oct. 2011
	Status/ Comments:	Directory No. 8 was approved by the NPCC Full Membership on Oct. 21, 2008. Directory No. 8 is currently in the Open Process until March 8, 2010 to consider revisions to language describing discharge testing of station batteries.		

Item	Name	Assignment		
DIR-9	NPCC Verification of Generator Gross and Net Real Power Capability	This Directory establishes the criteria and practices which result in the verification of generator gross and net real power capability	Latest Version:	Dec. 22, 2008
			Frequency of Reviews:	3 years
			Next Review Date:	Dec. 2011
	Status/ Comments:	Directory No. 9 was approved by the NPCC Full Membership on December 22, 2008.		



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Directories

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
DIR-10	NPCC Verification of Generator Gross and Net Reactive Power Capability	This Directory establishes the criteria and practices which result in the verification of generator gross and net reactive power capability	Latest Version:	Dec. 22, 2008
			Frequency of Reviews:	3 years
			Next Review Date:	Dec. 2011
	Status/ Comments:	Directory No. 10 was approved by the NPCC Full Membership on December 22, 2008.		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
DIR-12	UFLS Load Shedding Program Requirements	This Directory presents the basic criteria for the design and implementation of the UFLS program in order to arrest frequency decline and prevent system collapse under islanded conditions.	Latest Version	New
			Frequency of Reviews:	3 years
			Next Review Date:	
	Status/ Comments:	<p>The new Directory No. 12 was developed from the Automatic Under frequency Load Shedding requirements currently within the existing NPCC Directory No. 2 <i>Emergency Operations</i> and also from the recommendations and implementation plans provided in the 2006 Assessment of Under frequency Load Shedding Adequacy; and the 2008 Assessment of Under frequency Load Shedding Adequacy – Québec Area, both of which were approved by the Reliability Coordinating Committee on November 19, 2008.</p> <p>Directory No. 12 was approved by ballot of the NPCC Full Members on June 26, 2009. A revision to Directory No. 12 and the NPCC UFLS Implementation Plan which will provide r UFLS requirements for certain small entities, was approved by the RCC and posted for Full Member ballot approval through March 2, 2010.</p>		



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Regional Standards

Item	Name	Assignment	Latest Version:	New
PRC-002	Disturbance Monitoring	This Standard will establish the technical and reporting requirements for disturbance monitoring equipment. This will lead to improved system reliability by providing the resources to do post event analyses.	Frequency of Reviews:	3 years
	Status/ Comments:	The Standard and its Implementation Plan were posted for ballot December 17, 2009, and approved January 16, 2010. It was presented to the NPCC Board of Directors at their February 9, 2010 meeting and approved. The Standard will be sent to NERC, FERC, and the Canadian authorities for their approvals.		

Item	Name	Assignment	Latest Version:	New
PRC-006	Under Frequency Load shedding	This Standard will provide the measures for implementing an automatic under frequency load shedding program in order to effectively respond to system under frequency events.	Frequency of Reviews:	3 years
	Status/ Comments:	The NPCC UFLS Regional Standard Drafting Team (RSDT) has completed the initial review of the draft standard and posted the document to the NPCC Open Process. The RSDT is currently reviewing comments received and developing responses to those comments, and also developing the Measures and Compliance sections of the document.		



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Regional Standards Development Procedure

Item	Name	Assignment	
RRSDP	Regional Reliability Standards Development Procedure	The NPCC Regional Reliability Standards Procedure describes the procedures, policies, and practices implemented to ensure an “open, fair, and inclusive” process for the transparent initiation, development, implementation and revision of the NPCC Regional Standards necessary for the reliable operation of the Interconnected bulk power system in Northeast North America.	<p>Latest Version: Sept. 19, 2007</p> <p>Frequency of Reviews: 3 years</p> <p>Next Review Date: Sept. 19, 2010</p>
	Status/ Comments:	The Regional Reliability Standards Development Procedure is posted on the NPCC Website. Currently some changes are in process with the NERC Reliability Standards Development Procedure which may affect the need for revising the NPCC procedure. The RSC is actively reviewing the activities at the NERC level to ensure the regional procedure is consistent with the NERC procedure and achieves a consistency with the NERC common attributes adhered to by the other Regions.	



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Compliance Enforcement and Organization Registration and Certification Program

Compliance Committee

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CC	NPCC Compliance Committee	The NPCC Compliance Committee (CC) shall be charged with providing independent policy input for the NPCC Compliance Monitoring and Enforcement Program (CMEP). The NPCC CMEP covers compliance assessment and enforcement of NERC Reliability Standards, Regional Reliability Standards and NPCC Reliability Criteria (NPCC Directories). With regard to NERC Reliability Standards and Regional Reliability Standards, the CC shall provide an oversight role to the NPCC Compliance Staff's implementation of the CMEP. In this oversight role the CC will endorse the compliance procedures (CP) used by the NPCC Compliance Staff in the conduct of the CMEP. The CC shall be responsible for final approval of compliance assessments related to NPCC Reliability Criteria, which includes non-monetary sanction recommendations.

Status/ Comments:

The NPCC Compliance Committee continues to meet on a monthly basis either face to face or by conference call. The NPCC Compliance Committee Assessment Team recently did an assessment of the NPCC Completed two assessments in 2009 covering Mitigation plans and Off-Site Audits. In 2010, the CC is scheduled to conduct three assessments that would include; NPCC CMEP Implementation Plan and Self-Certifications, Registration Process, and the NPCC spot-check program. The NPCC CC also has active working groups that assist the Compliance Staff with compliance metrics and suggestions for the compliance workshops.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Compliance Enforcement and Organization Registration and Certification Program

NPCC Compliance Committee

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
RCP	Reliability Compliance and Enforcement Program	The process and requirements are defined for compliance assessment and enforcement of selected reliability criteria and standards.
	Status/ Comments:	The program is currently under development by the Compliance Committee. The CC has an active working group working on the draft of a new Compliance Criteria Enforcement Program (CCEP) and is working on the schedule and criteria templates for 2010. The goal is to have the new CCEP approved and effective in 2011.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Compliance Enforcement and Organization Registration and Certification Program

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CCC	Compliance and Certification Committee	Develop positions related to the NERC Compliance program.

Status/ Comments:

The CCC's subcommittee, Organization, Registration, and Certification (ORCS), completed work on the revision Section 500 of the Rules of Procedure. This includes the requirements for a Regional Coordinator (RC), Balancing Authority (BA), and Transmission Operator (TOP) to get their NERC certification. A provisional letter has also been drafted for the CCC approval at their September meeting. Section 500 was also revised to add a new category called Coordinated Functional Registration (CFR) that was NERC BOT approved. Section 500 of the Rules of Procedures is currently with FERC for approval.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Training, Education, and Operator Certification Program

TASK FORCE ON COORDINATION OF OPERATION

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CO-2	System Operator Training	This Working Group establishes a program for system operator training relating to NPCC Inc. inter-Area matters, Working Group criteria, terminology, policies and operating instructions. It prepares and presents material at system operator training sessions, exchanges information on internal system operator training methods. The CO-2 Working Group also evaluates and proposes new techniques and training aids as they become available.

Status/ Comments:

The CO-2 Working Group is presently planning the 65th NPCC System Operator Seminar, which will be held on May 5-6, 2010. Jointly with the CO-8 Working Group CO-2 evaluated a proposal from TFCO to alter the System Operator Seminar structure. The proposal was to replace one seminar with the purchase of a system restoration simulator and conduct WEBEX training sessions to provide shared operator training among the NPCC Areas.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

BLACKOUT 2003 FOLLOW-UP

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
BSP	Blackout Study Plan	Building on the Event Replication Study, perform additional analysis to evaluate possible risks for other rerating conditions, planned system changes, and possible system design changes.
	Status/ Comments:	The Blackout Study Recommendations Working Group's report and action plan was presented and approved at the March 2006 RCC meeting. Task 5 "Terms of Reference" was approved at the November 2006 RCC meeting. The NPCC Blackout Investigation Task 5 study was deferred last year due to re-prioritization of assignments in order to complete higher priority items. The approved TFSS Work Plan for 2010-2011 has scheduled the completion of Task 5 for December 2010.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF OPERATION

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CO-1	Control Performance	The Working Group insures coordination between adjacent control areas in establishing interchange schedules, Working Group reviews time error correction procedures, and monitors the conformance of the Areas with NPCC Control Performance Criteria and Operating Reserve Criteria. At the request of the Task Force on Coordination of Operation (TFCO), it conducts investigations of control performance problems.
	Status/ Comments:	CO-1 met on February 11-12, 2010. Topics addressed included; NPCC Directory No. 5 changes, formation of a Reserve Sharing Group, requirements for synchronized reserve, governor response/frequency response analysis, ACE Diversity Interchange, associated NERC activities. The main near term focus of CO-1 work is on the requirements for synchronized reserve.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program TASK FORCE ON COORDINATION OF OPERATION

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CO-7	Operational Review Working Group	To assess, coordinate and evaluate regional operational issues and reliability concerns as directed by the TFCO. Periodically review the NPCC Regional Reliability Plan and the Registration and Certification of entities to achieve conformance with NPCC criteria and NERC Standards.
	Status/ Comments:	The TFCO is redrafting the scope of Working Group CO-07, identifying its new tasks and responsibilities.

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CO-8	System Operations Managers Working Group	Provide a forum for the Managers of the NPCC control centers to identify and discuss security concerns in the operation of the interconnected bulk power supply system, and specific concerns related to the integration of operation between and among the evolving ISOs. The System Operations Managers Working Group will also assist the Task Force on Coordination of Operation in their work on issues related to system security and the operation of the ISOs, and provide advice to the TFCO, as requested.
	Status/ Comments:	The CO-8 Working Group is currently reviewing the proposed draft of NPCC Directory No. 5.. It has completed its review of the Albabel December 15, 2009 system disturbance.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program TASK FORCE ON COORDINATION OF OPERATION

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CO-11	Restoration Working Group	The Restoration Working Group addresses the issue of ensuring appropriate operation of key system restoration facilities and their critical components.
	Status/ Comments:	The Working Group has completed a revised draft of NPCC Regional Reliability Reference Directory No. 8, "System Restoration," reviewed the posted comments, and provided the TFCO with its response to these comments. The CO-11 Working Group sponsored a wide area restoration drill on October 28, 2009, and it will conduct a similar wide-area drill including MISO and PJM participation in October 2010.
<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CO-12	Operations Planning Working Group	Review the overall reliability of the generation and transmission system in the NPCC Region for the Summer and Winter Seasonal conditions.
	Status/ Comments:	The 2010 Summer NPCC Reliability Assessment work is underway. The preliminary results were presented to the TFCO during the February 25-26 meeting. Preliminary results are scheduled to be presented to the RCC at its March 10, 2010 meeting.
<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CO-13	Available Transfer Capability Working Group	Review the procedures developed by the Regions (or sub-regions) for determining ATC to ensure that the procedures are in concert with the ATC Principles in NERC's June 1996 Available Transfer Capability Definitions and Determination report.
	Status/ Comments:	The TFCO has disbanded the CO-13 Working Group.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

Item	Name	Assignment
CP- 8	Working Group on Review of Resource and Transmission Adequacy	Review the overall reliability of the NPCC Inc. Areas and perform pre-seasonal resource adequacy assessments.
	Status/ Comments:	The 2009 New England Interim Review of Resource Adequacy was approved at the November 18-19, 2009 RCC meeting. The 2009 Ontario Comprehensive Review of Resource Adequacy was also approval. The RCC is scheduled to approve the 2009 Quebec Interim Review of Resource Adequacy, the 2009 Maritimes Interim review of Resource Adequacy, and the 2009 New York Comprehensive Review of Resource Adequacy at its March 10, 2010 meeting.

Item	Name	Assignment
CP- 2010S	Summer 2010 Multi-Area Probabilistic Reliability Assessment	Assess NPCC Area reliability for the year 2010 by estimating the annual Loss of Load Expectation (LOLE) an projected use of Area Operating Procedures designed to mitigate resource shortages for the summer (May through September) period.
	Status/ Comments:	The RCC approved the NPCC Long Range Adequacy Assessment Scope and Schedule at its September 10, 2009 meeting; the scope calls for a report of the results of the summer assessment will be published no later than April 30, 2010. Preliminary results are scheduled to be presented to the RCC at its March 10, 2010 meeting.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

Item	Name	Assignment
CP- 2010W	Winter 2010-2011 Multi-Area Probabilistic Reliability Assessment	Assess NPCC Inc. Area reliability by estimating projected use of Area Operating Procedures designed to mitigate resource shortages for the winter (November 2010 through March 2011) period.
	Status/ Comments:	The 2010-2011 NPCC Winter Multi-Area Probabilistic Reliability Assessment was approved at the November 18-19, 2009 RCC meeting. The scope and schedule for the NPCC Long Range Adequacy Overviews calls for a report of the results of the winter assessment will be published no later than June 30, 2010. Preliminary results are scheduled to be presented to the RCC at its June 9, 2010 meeting.
Item	Name	Assignment
CP - TIE	Review of Interconnection Assistance Reliability Benefits	On a consistent basis, estimate the amount of interconnection assistance available to the NPCC Inc. Areas and for the near term.
	Status/ Comments:	The RCC approved the scope of work and schedule at the September 10, 2009 RCC meeting; the CP-8 Work Group is in the process of developing a work plan.
Item	Name	Assignment
LRAO	NPCC Long Range Adequacy Overview	On a consistent basis, evaluate the near-term seasonal and long-range (five year) adequacy of NPCC Areas', reflecting neighboring regional plans proposed to meet their respective resource adequacy criteria through multi-area probabilistic assessments.
	Status/ Comments:	The RCC approved the scope of work and schedule at the September 10, 2009 RCC meeting; the CP-8 Work Group is in the process of completing the near-term seasonal assessments.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

Item	Name	Assignment
CP-11	<i>NPCC Basic Criteria For Design and Operation of the Bulk Power System Review Working Group</i>	<p>This Working Group is charged with the revision of the NPCC Inc. Basic Design Criteria Directory No. 1 and the NPCC Glossary of Terms Document A-07. In addition, the Task Force on Coordination of Planning (TFCP) charged the CP-11 Working Group with the development of the A-10 Classification of BPS Elements document.</p>
	Status/ Comments:	<p>The CP-11 Working Group has completed the review of Document A-10. NPCC Members approved revised A-10 on December 1, 2009. TFCP has earlier this year charged CP-11 to begin a comprehensive review of Directory #1 to assure that it is consistent with other NPCC Directories, Criteria, Guidelines and Procedures and with applicable NERC Reliability Standards, specifically, the existing TPL-001-0 and/or draft new TPL-001-1 standard. In conjunction with the development of Phase 2 of the Directory effort, CP-11 review will also assist with the creation of criteria “Requirements” to provide sound foundation for the creation of the NPCC Criteria Compliance Enforcement Program. In light of the recent developments in which NERC has submitted the TPL-001-1 standard for balloting through March 1, 2010, the review of D1 work has been put on hold until clearer direction can be provided to CP-11 from the TFCP and the results of the balloting of the TPL-001-1 are complete.</p>



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON SYSTEM STUDIES

Item	Name	Assignment
SS-37	Base Case Development Working Group	On an annual basis, develop a library of solved load flow cases and associated dynamic data.
	Status/ Comments:	Year 2010 development effort has begun and is on schedule.

Item	Name	Assignment
SS-38	Inter-Area Dynamic Analysis Working Group	Assigned to analyze dynamic phenomena, which may affect interconnected system reliability, especially in the area of low frequency oscillations.
	Status/ Comments:	Work on the NPCC Regional UFLS standard began in January 2009. Work on NPCC Blackout Recommendation Task 5 has been delayed until completion the Overall Transmission Assessment and sensitivity on Wind integration expected by the end of March. The development of guideline for load modeling is anticipated to start this year.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

Eastern Interconnection Reliability Assessment Group

Study Committees

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
ERAG	Eastern Interconnection Reliability Assessment Group	The Eastern Interconnection Reliability Assessment Group (ERAG) Management Committee (MC) oversees the Multi-Regional Modeling Group steady state and dynamics base case development, all Eastern Interconnection interregional assessment activities and other interregional matters of interest. Eastern Interconnection assessment forums include: RFC-NPCC, RFC-SERC East and RFC-MRO-SPP-SERC West.

Status/ Comments:

The RFC-NPCC forum 2014 Summer sensitivity study work evaluating the system impacts of the proposed and in-construction major projects in PJM is being finalized.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program RFC - NPCC Working Group

Item	Name	Assignment
RNWG	RFC-NPCC Working Group	The RFC-NPCC Operating Studies Working Group, under the direction of the RFC-NPCC Steering Committee, conducts appraisals of the RFC-NPCC interconnected systems for expected summer and winter periods.

Status/ Comments:

The RFC-NPCC Working Group will begin working on the summer 2010 inter-regional study in mid-February, with an expected completion timeframe of mid-April 2010.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
RAS	Reliability Assessment Subcommittee (RAS)	Conduct an annual review of the overall reliability of the existing and planned generation and transmission systems of the eight Regional Reliability Entities for the ten year horizon. Conduct semiannual seasonal assessments of the overall reliability of the existing generation and transmission systems of the eight Regional Reliability Entities.
	Status/ Comments:	The Winter NERC Seasonal Assessment was released November 24, 2009. Work is commencing on the 2010 Long Term Reliability Assessment and the 2010 Summer NERC Seasonal Assessment, including NERC's 2010 Special Scenario Analysis of "Potential Reliability Impacts of Rapid Demand Growth after a Long-Term Recession."

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
DCWG	Data Collection Working Group	Serve as the electric utility industry's coordinator with the Department of Energy (DOE) and the Energy Information Administration (EIA) in submitting yearly data and in negotiating the requirements for data submission to the EIA.
	Status/ Comments:	The next meeting of the NERC DCWG and DOE EIA representatives has not been scheduled at this time. Data requests for the 2010 NERC summer and 2010 Long Term Reliability Assessment (LTRA) have been issued.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
G&TRPMTF	Generation & Transmission Reliability Planning Model Task Force	The objective of the G&TRPMTF is to determine if a reliability modeling methodology can be used to forecast regional reliability in the NERC Long Term Reliability Assessment.

Status/ Comments:

The GTRPMTF will present a status report regarding the model and methodology that could be used for NERC composite G&T reliability assessments at the March 2010 NERC Planning Committee meeting; NERC staff will be scheduling Webinars to solicit industry comment on the proposed model and methodology before seeking NERC PC approval.

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
TADS	Transmission Availability Data System	Serve as the Regional Entity Coordinator (REC) in support of the NERC TADS outage data collection and the analysis of the NPCC Transmission Owners (TO) outage information. As the REC, oversee the use of and the data entry of automatic outage information by the TO in the NERC Internet based data management tool - webTADS.

Status/ Comments:

TADS reporting TO are currently engaged in data entry for calendar year 2009. For 2009, only automatic outage of reportable transmission elements is required. In 2010, the outage data requirement will include non-automatic outages.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

OTHER

Item	Name	Assignment
Inter-ISO	Inter-ISO Working Group	The Inter-ISO Working Group was formed to address Inter-Regional planning and Inter-Area issues of projects that have “cross border” impacts while providing an open stakeholder forum and committee structure to allow market input.
	Status/ Comments:	An WebEx Meeting was held February 2, 2010; materials presented are available on the “Inter-ISO” link, accessible from the NPCC website. Topics presented included: Draft NCSP09 Report Status, the IREMM Study Update, and a summary of existing transmission cost allocation methods.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Situation Awareness and Infrastructure Security Program

TASK FORCE ON COORDINATION OF OPERATION

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CO-10	Operational Tools Working Group	The Operational Tools Working Group (CO-10) is responsible for taking a lead role in the development of NPCC and NERC operational tools (e.g. electronic tagging, the NERC Interchange Distribution Calculator and electronic scheduling), including hardware, software and integrated systems. The Operational Tools Working Group will define the need for operational tools, evaluate the cost benefits of operational tools, coordinate their implementation within NPCC and coordinate common training in the use of operational tools.
	Status/ Comments:	The CO-10 Working Group completed its real-time tools survey for the NPCC registered entities.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Situation Awareness and Infrastructure Security Program

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
IST-1	Infrastructure Security and Technology Workshop	Periodic workshops to address timely issues and update member system personnel associated with the provision of on-line computer systems for operation of the power system.
	Status/ Comments:	A successful Cyber Security Workshop was held in Albany, NY in May 2008, and was coordinated with the Spring 2008 Compliance Workshop. The next workshop is planned for September 2010.
		Last Workshop: May 2008

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
IST-3	TFIST EMS-SCADA Working Group	Provide a forum to identify, discuss and advance the technology of EMS-SCADA for the reliable operation of the NPCC Bulk Power System. The EMS-SCADA Working Group (IST-3) will also support TFIST in their work on issues related to EMS-SCADA.
	Status/ Comments:	The EMS-SCADA Working Group has been designed as an Ad-hoc Working Group.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Situation Awareness and Infrastructure Security Program

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Item	Name	Assignment
IST-4	TFIST Cyber Security Working Group	Provide a forum to identify, discuss and advance the technology of Cyber Security for the reliable operation of the NPCC Bulk Power System. The Cyber Security Working Group (IST-4) will also support TFIST in their work on issues related to Cyber Security.
	Status/ Comments:	The Cyber Security Working Group has been designated as an Ad-hoc Working Group by TFIST.

Item	Name	Assignment
IST-5	TFIST Physical Security Working Group	Provide a forum to identify, discuss and advance the use of Physical Security for the reliable operation of the NPCC Bulk Power System. The Physical Security Working Group (IST-5) will also support TFIST in their work on issues related to Physical Security.
	Status/ Comments:	Since the previous update, the Physical Security Working Group held meetings in December 2009 and February 2010.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Administrative Services

MEMBERS' FORUMS

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
General	NPCC General Meeting	To promote the reliable and efficient operation of the interconnected bulk power systems in Northeastern North America, NPCC invites high level policy makers from Federal, Provincial, and State regulatory and/or Governmental authorities and senior executives within NPCC to identify and discuss emerging issues related to the reliability of the NPCC Region.
	Status/ Comments:	The NPCC 2010 General Meeting is planned for December 1, 2010 in Albany, New York at the Desmond Hotel; the agenda is currently being developed.

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
Gov/Reg	NPCC Governmental Regulatory Affairs Advisory Group	To provide a forum where industry and governmental and/or regulatory representatives can exchange views and strive to develop consensus policy recommendations on reliability issues specific to the NPCC Region and share actionable information related to regional energy and reliability matters.
	Status/ Comments:	The NPCC Governmental/Regulatory Affairs Advisory Group met via a WebEx teleconference call on February 23, 2010, conducted from the Westborough, MA Doubletree Hotel. Topics discussed included the recently released NREL Wind Study, development of the 2010 New England Regional System Plan, and an update of the EIPC and EISPC activities. The next meeting is planned to be in conjunction with CAMPUT 2010.

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
PIC	Public Information Committee	To highlight and summarize NPCC activities and accomplishments and disseminate appropriate information to the media, as well as respond to related requests for information.
	Status/ Comments:	NPCC continues to participate in the monthly communications coordination calls with NERC and the Regions.