



**RCC Meeting
September 4, 2008
Agenda Item 7.10**

**Reliability Assessment Program
(NRAP)
STATUS REPORT**
*Prepared for the
Reliability Coordinating Committee
September 4, 2008*

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 STATUS REPORT

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RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

Regional Standards Committee

Item	Name	Assignment
RSC	Regional Standards Committee	<p>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.</p>
	Status/ Comments:	<p>The Regional Standards Committee is focusing on the review of the each NERC Reliability Standards (as they are developed or revised). RSC is currently reviewing the FERC Orders and NOPRs on pending Reliability Standards. The RSC is developing recommendations for the membership on ballots as they transpire. RSC has also commented the Adequate Level of Reliability Definition and the NERC Functional Model and is participating in the activities of the Reliability Metrics Working Group. RSC is participating in the NERC Reliability Standards Manual revisions through the Standards Committee Process Subcommittee and also soliciting members of the NERC drafting teams as necessary to ensure NPCC is represented. RSC also developed a process to coordinate commenting and participating in adjacent Regions' criteria and their standards development, as well as promoting NPCC criteria in adjacent regions. 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 Regional Standard Development Procedure and RSC will be involved with implementation. The RSC is also overseeing the development of the NPCC Regional Reliability Directories and is maintaining a work plan for completion of this project.</p>



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON COORDINATION OF OPERATION

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
A-3	Emergency Operation Criteria	Objectives, principles and requirements are presented 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:	Aug. 31, 2004
			Frequency of Reviews:	3 years
			Next Review Date:	Sept. 2007

Status/ Comments: The revised A-03 Document was presented to the Reliability Coordinating Committee at its meeting of May 23, 2007. The RCC accepted the revisions and content but the final approval by NPCC membership will be delayed until approval is reached for corresponding directories on emergency operation and system restoration NPCC Directory #2, “Emergency Operations”, has been developed to replace all NPCC documents on that topic, including A-3. A separate Directory #8, “System Restoration”, has also been developed to supplant the restoration content removed from the A-03 document. RCC approval of Directories #2 and #8 is being sought at the September 4, 2008 RCC meeting.

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
A-6	Operating Reserve Criteria	Objectives, principles and requirements are presented that governs the amount, availability and distribution of operation reserve.	Latest Version:	July 17, 2007
			Frequency of Reviews:	3 years
			Next Review Date:	July 2010

Status/ Comments: The revised A-6 document received NPCC membership approval on July 17, 2007 and became the official version at that time. Directory #5, “Operating Reserve”, will be developed to replace all NPCC on that topic, including the A-6 document. A first draft of the directory has been developed. Changes are presently being made to add language to the A-06 document to provide more flexibility to allow new technologies that can provide regulating reserve.



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TASK FORCE ON COORDINATION OF OPERATION

Documents

Item	Name	Assignment	Latest Version:	April 26, 2007
C-40	Procedures for Inter-AREA Voltage Control	Procedures and principles are established for occasions where a deficiency or an excess of reactive power can affect bulk power system voltage levels in a large portion of an Area or in two adjacent Areas.	Frequency of Reviews: Next Review Date:	3 years April 2010
Status/ Comments: Document B-03 has been retired. The new Type C Procedure, C-40, "Procedures for Inter-AREA Voltage Control," has updated the former Document B-03, "Guidelines for Inter-AREA Voltage Control," and restructured it into a Type C Procedure, providing general principles and guidance for coordinated voltage control among the NPCC Areas. Document C-40 was approved by the Task Force on Coordination of Operation as a new Type C Procedure on April 26, 2007.				

Item	Name	Assignment	Latest Version:	July 18, 2007
A-13	NPCC Inc. Verification of Generator Gross and Net Real Power Capability	Standards for rating and verifying net real power generating capability are established.	Frequency of Reviews: Next Review Date:	3 years July 2010
Status/ Comments: A section was added to the A-13 Document on retiring combined cycle generators. The revised version was posted for NPCC Open Process review and had a comment ending period of December 12, 2007. One comment was received. The CO-7 Working Group addressed the comment during their February 7-8, 2008 meeting. The document received RCC approval for technical approval at the March 5, 2008 meeting. The A-13 document was not sent for NPCC membership approval and has been placed in abeyance pending the development of NPCC Directory #9, "Verification of Generator Gross and Net Real Power Capability". Directory #9 has been posted for comment in NPCC Open Process.				



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Reliability Standards Program

TASK FORCE ON COORDINATION OF OPERATION

Documents

Item	Name	Assignment		
B-13	Guide for Reporting System Disturbances.	This document establishes requirements and guidelines for reporting the details of a system disturbance to enable assessments and reviews of those disturbances which impact a significant part of one Area or which have inter-Area implications.	Latest Version:	June 25, 1997
			Frequency of Reviews:	3 years
			Next Review Date:	Sept. 2007
	Status/ Comments:	NPCC Document B-13, "Guide for Reporting System Disturbances," is being revised and converted to Procedure Document C-42 by the CO-8 Working Group to incorporate the new reporting of IROL and cyber security violations. The C-42 Document will be finalized by the CO-08 Working Group and when completed will be submitted for approval to the Task Force on Coordination of Operation.		

Item	Name	Assignment		
C-8	Monitoring Procedures for Control Performance Guide During Normal Conditions	Procedures are established for the Task Force on Coordination of Operation's monitoring and reporting of conformance of NPCC control performance during normal conditions.	Latest Version:	March 3, 1999
			Frequency of Reviews:	3 years
			Next Review Date:	January 2005
	Status/ Comments:	No need for any revisions at this time.		



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Reliability Standards Program

TASK FORCE ON COORDINATION OF OPERATION

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
C-9	Monitoring Procedures for Operating Reserve Criteria	Procedures are established for the Control Performance Working Group's monitoring and reporting of compliance with the NPCC <i>Operating Reserve Criteria</i> .	Latest Version:	Jan. 29, 2004
			Frequency of Reviews:	3 years
			Next Review Date:	January 2007
	Status/ Comments: No need for any revisions at this time.			

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
C-11	Monitoring Procedures for Interconnected System Frequency Response	Procedures are established for monitoring and reporting the frequency responses to large generation losses.	Latest Version:	March 25, 1998
			Frequency of Reviews:	3 years
			Next Review Date:	Sept. 2005
	Status/ Comments: No need for any revisions at this time.			

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
C-12	Procedure for Shared Activation of Ten-Minute Reserve (SAR)	Procedures are established to provide for the shared activation of ten-minute reserve on an Area basis.	Latest Version:	Jan. 29, 2004
			Frequency of Reviews:	3 years
			Next Review Date:	March 2007
	Status/ Comments: No need for any revisions at this time.			



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON COORDINATION OF OPERATION

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
C-13	Operational Planning Coordination	Procedures are established to coordinate the exchange of operational data, provide for the notification of planned facility outages among the Areas, and provide for formal communications among the Areas in anticipation of a period of capacity shortage or light load conditions. The document also defines the procedures for the routine NPCC conference call held weekly among the Areas.	Latest Version:	May 15, 1997
			Frequency of Reviews:	3 years
			Next Review Date:	Sept. 2007
	Status/ Comments:	The CO-8 Working Group is revising the document, and a revised draft will be submitted for approval at the meeting of the Task Force on Coordination of Operation to be held on June 12-13, 2008.		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
C-15	Procedures for Solar Magnetic Disturbances on Electrical Power Systems	Procedures are established providing for the reporting channels and information available to the operator during solar alerts and suggesting measures that may be taken to mitigate the impact of a solar magnetic disturbance.	Latest Version:	Jan. 11, 2007
			Frequency of Reviews:	3 years
			Next Review Date:	Jan. 2010
	Status/ Comments:	A new version of the C-15 Document was approved by the TFCO on January 11, 2007.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON COORDINATION OF OPERATION

Documents

Item	Name	Assignment		
C-20	Procedures During Abnormal Operating Conditions	This Procedure complements the Emergency Operation Criteria by establishing specific instructions for the System Operator during emergency conditions in a NPCC Area or Areas.	Latest Version:	May 19, 2005
			Frequency of Reviews:	3 years
			Next Review Date:	June 2008
	Status/ Comments: No need for revisions at this time.			

Item	Name	Assignment		
C-36	Procedures for Communications During Emergencies	These Procedures direct NPCC's implementation of the NERC Interregional Emergency Telephone Network. The NERC Interregional Emergency Telephone Network is utilized to convey to other reliability authorities in North America system conditions that could threaten the reliability of the interconnected bulk power supply system or the imminent shedding of firm load.	Latest Version:	Aug. 28, 2005
			Frequency of Reviews:	1 year
			Next Review Date:	Jan. 2008
	Status/ Comments: No need for revisions at this time.			



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON COORDINATION OF PLANNING

Documents

Item	Name	Assignment		
A-1	Criteria for Review and Approval of Documents	Criteria outlines the review and approval procedures for all NPCC documents.	Latest Version:	March 2005
	Status/ Comments:	Nothing to report at this time. . Upon completion of the Directory project A-1 will be retired.	Frequency of Reviews:	4 years
			Next Review Date:	March 2009
			Completion Date:	Dec. 2009

Item	Name	Assignment		
A-2	Basic Criteria for Design and Operation of Interconnected Power Systems	Criteria are established for proper design and operation concerning Resource Adequacy and Transmission Capability.	Latest Version:	May 6, 2004
	Status/ Comments:	Review of this document will be initiated immediately following completion of draft revised A-10. Draft Directory #1 which will ultimately replace A-2 has been presented to the TFCP and being revised per their recommendations. Open Process posting will occur in the fourth quarter of 2008.	Frequency of Reviews:	4 years
			Next Review Date:	Nov. 2007
			Completion Date:	May 2008



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Reliability Standards Program

TASK FORCE ON COORDINATION OF PLANNING

Documents

Item	Name	Assignment		
A-7	NPCC Glossary of Terms	The NPCC Glossary of Terms (the Glossary) includes terms from NPCC Criteria (A), Guideline (B) and Procedure (C) Documents, as well as the North American Electric Reliability Council (NERC) Glossary of Terms, August 1996.	Latest Version:	Feb. 6, 2006
			Frequency of Reviews:	1 year
			Next Review Date:	Dec. 2007
	Status/ Comments:	This document is currently being reviewed by the CP-11 Working Group as part of the A-10 review. It is expected that the revised glossary will be sent to the RCC for approval in 2008. The A-7 will ultimately be retired once all the NPCC Directories are complete. A stand alone glossary will be developed at that time.		

Item	Name	Assignment		
B-8	Guidelines for Area Review of Resource Adequacy	Guidelines to help TFCP ascertain that each Area's resource plan is in accordance with the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems."	Latest Version:	Nov. 29, 2005
			Frequency of Reviews:	3 years
			Next Review Date:	June 2008
			Completion Date:	Dec. 2008
	Status/ Comments:	The CP-8 Working Group submitted its proposed revisions to the TFCP on May 14, 2008. The revised B-8 Document was posted in the NPCC Open Process Review for comments by September 1, 2008.		



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TASK FORCE ON COORDINATION OF PLANNING

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
C-16	Procedure for NPCC Review of New or Modified Bulk Power System Special Protection Systems	This document outlines procedures for reporting new or modified Bulk Power System Special Protection Systems.	Latest Version:	Aug. 10, 2005
			Frequency of Reviews:	3 years
			Next Review Date:	Aug. 2008
			Completion Date:	Dec. 2008
	Status/ Comments:	C-16 was incorporated in Directory #7.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON SYSTEM PROTECTION

Documents

Item	Name	Assignment		
A-4	Maintenance Criteria for Bulk Power System Protection (Replaced by D#3)	This document establishes the maintenance interval and practices which should result in dependable and secure protection system operation.	Latest Version:	Aug. 2004
			Frequency of Reviews:	3 years
			Next Review Date:	Dec. 2007
	Status/ Comments: A-4 and B-23 have been retired following approval of Directory #3.			

Item	Name	Assignment		
A-5	Bulk Power System Protection Criteria	This document establishes the minimum design objectives and recommends design practices to minimize the severity and extent of system disturbances and to minimize possible damage to system equipment.	Latest Version:	May 2007
			Frequency of Reviews:	3 years
			Next Review Date:	May 2010
	Status/ Comments: A first draft of Directory No. 4 has been developed which ultimately will replace this A-5 criteria and will be under review by TFCP in the fourth quarter of 2008.			



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Reliability Standards Program

TASK FORCE ON SYSTEM PROTECTION

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
Directory #7	Special Protection System Criteria	This document 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.	Latest Version:	Dec. 27, 2007
			Frequency of Reviews:	3 years
			Next Review Date:	Dec. 2010
	Status/ Comments:	The next review is due December 2010.		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
A-15	Disturbance Monitoring Equipment Criteria	This document establishes the disturbance monitoring equipment criteria that provide the application and functional requirements in accordance with the NERC Reliability Standards PRC-002 and PRC-018.	Latest Version:	Aug. 23, 2007
			Frequency of Reviews:	3 years
			Next Review Date:	Aug. 2010
	Status/ Comments:	The next review is due August 2010. NPCC RSC has proposed development of a regional standard for disturbance monitoring that will incorporate this criteria.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program TASK FORCE ON SYSTEM PROTECTION

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
B-1	Guide for the Application of Autoreclosing to the Bulk Power System	This document establishes guidelines for automatic reclosing to facilitate restoration of the system to normal following automatic tripping of transmission facilities.	Latest Version:	March 9, 2005
			Frequency of Reviews:	3 years
			Next Review Date:	Nov. 2008
	Status/ Comments:	The next review is scheduled for 2008. TFSP initiated review of this document at the May 2008 meeting.		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
B-7	Automatic Underfrequency Load Shedding Program Relaying Guideline	This guideline establishes requirements for application and testing of underfrequency threshold relays that are necessary to accomplish the objectives of the NPCC automatic underfrequency load shedding program established in the Emergency Operation Criteria (Document A-3).	Latest Version:	March 9, 2005
			Frequency of Reviews:	3 years
			Next Review Date:	Nov. 2008
	Status/ Comments:	TFSP has completed draft revisions to B-7. Draft revised B-7 will be submitted for approval at the September 4, 2008 RCC meeting.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program TASK FORCE ON SYSTEM PROTECTION

Documents

Item	Name	Assignment		
B-21	Guide for Analysis and Reporting of Protection System Misoperations	This document defines the analysis and reporting requirements for misoperations of protection systems and special protection systems on the bulk power systems within each of the NPCC Areas.	Latest Version:	July 14, 2004
			Frequency of Reviews:	3 years
			Next Review Date:	July 2007
	Status/ Comments:	Document B-21 is under review. TFSP has completed the review of B-21 and will submit draft revised B-21 for approval at September 4, 2008 RCC meeting.		

Item	Name	Assignment		
B-23	Guide for Maintenance of Microprocessor-based Protection Relays (Replaced by D#3)	This document provides guidance for the maintenance of microprocessor-based relays.	Latest Version:	July 14, 2004
			Frequency of Reviews:	3 Years
			Next Review Date:	July 2007
	Status/ Comments:	The B-23 is now a part of Directory #3.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program TASK FORCE ON SYSTEM PROTECTION

Documents

Item	Name	Assignment		
B-24	Security Guidelines for Protection Systems IEDS	This document provides guidance for member systems in designing and applying remote access for protective relays and associated equipment that have remote access capability.	Latest Version:	July 14, 2004
			Frequency of Reviews:	3 Years
			Next Review Date:	July 2007
	Status/ Comments:	The B-24 Review was initiated in March 2007. No changes to B-24 are being recommended at this time. TFSP has requested TFIST to review the document for consistency with CIP architectures.		

Item	Name	Assignment		
C-22	Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System	This procedure indicates how new facilities or modifications to existing facilities are to be presented to the TFSP in order to ascertain compliance with the principles of the Protection Criteria.	Latest Version:	June 28, 2005
			Frequency of Reviews:	3 Years
			Next Review Date:	June 2008
	Status/ Comments:	C-22 review was initiated in March 2007 to cover changes to A-5 and A-11. TFSP is developing a new report form that will replace existing forms for C-22. Word format will replace the existing Excel format to enhance clarity and functionality of the form.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program TASK FORCE ON SYSTEM PROTECTION

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
C-30	Procedure for Task Force on System Protection Review of Disturbances	This document outlines the process the TFSP follows to review and analyze the performance of protection systems following selected major power system events, inside as well as outside NPCC.	Latest Version:	June 28, 2005
			Frequency of Reviews:	3 Years
			Next Review Date:	June 2008
	Status/ Comments: The next review is scheduled for 2008. Scheduled for review beginning with the September, 2008 TFSP meeting.			

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
UVLS List	Review of the UVLS Database	TFSP will annually review and update the NPCC Undervoltage Load Shedding Database	Latest Version:	July 2008
			Frequency of Reviews:	Annually
			Next Review Date:	Sept. 2009
	Status/ Comments: UVLS List has been updated and posted following the July 2008 TFSP meeting.			



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program TASK FORCE ON SYSTEM STUDIES

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
B-4	Guidelines for NPCC Area Transmission Reviews	Guidelines to help TFSS ascertain that each Area's transmission expansion plan, based on its proposed generation additions, has been developed in accordance with the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems."	Latest Version:	March 2008
			Frequency of Reviews:	3 years
			Next Review Date:	March 2011
	Status/ Comments:	B-4 is being incorporated into Directory #1 which is being reviewed by TFCP		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
B-10	Guidelines for Requesting Exclusions to Section 5.1 (B) and 6.1 (B) of the NPCC "Basic Criteria for Design and Operations of Interconnected Power Systems"	Establishes procedures for requesting exclusion from certain contingencies in the Basic Criteria.	Latest Version:	Aug. 2, 2006
			Frequency of Reviews:	3 years
			Next Review Date:	Aug. 2009
	Status/ Comments:	Not due for review until 2009.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program TASK FORCE ON SYSTEM STUDIES

Documents

Item	Name	Assignment		
C-18	Procedure for Testing and Analysis of Extreme Contingencies	This document establishes a procedure for the testing and analysis of Extreme Contingencies.	Latest Version:	June 2007
			Frequency of Reviews:	3 years
			Next Review Date:	June 2010
	Status/ Comments:	The next review is due June 2010.		

Item	Name	Assignment		
C-25	Procedure to Collect Real Time Data for Inter-Area Dynamic Analysis	This document establishes a procedure for the collection of real time data following a power system disturbance for the purpose of analyzing the dynamic performance of the NPCC bulk power system.	Latest Version:	July. 2008
			Frequency of Reviews:	3 years
			Next Review Date:	Sept. 2010
	Status/ Comments:	C-25 Data Contacts List is updated annually. The List was last updated July 25, 2008.		



RELIABILITY ASSESSMENT PROGRAM



RELIABILITY ASSESSMENT PROGRAM

Compliance Enforcement and Organization Registration and Certification Program

Compliance Committee

Item	Name	Assignment
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. 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 processes 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 approved the final report on the assessment of the effectiveness of the NPCC self-certification process, including the CDAA web application. The NPCC Compliance Committee Assessment Team found that the NPCC self-certification procedures and CDAA database are well executed, meeting the RDA and the NERC CMEP requirements. Additional assessments, covering other aspects of the CMEP implementation, will be conducted over the next year. The NPCC Compliance Committee approved three NPCC Compliance Procedure documents, CP-02, CP-03 and CP-05 which cover on-site audits, off-site audits and spot checks. The NPCC Compliance Committee and NPCC Compliance Staff jointly continue to develop a definition of "material generation." Definition will be based on recent FERC Orders issued related to this issue.



RELIABILITY ASSESSMENT PROGRAM

Compliance Enforcement and Organization Registration and Certification Program

NPCC Compliance Committee

Documents

Item	Name	Assignment
A-8	Reliability Compliance and Enforcement Program	The process and requirements are defined for compliance assessment and enforcement of selected reliability criteria and standards.
	Status/ Comments:	Document continues to be under review. Envisioned to be integrated into overall NPCC Compliance Program

Item	Name	Assignment
B-22	Guidelines for Implementation of the Reliability Compliance and Enforcement Program (RCEP)	This document establishes the requirements and guidelines for the implementation of the Reliability Compliance and Enforcement Program (Document A-8) and the arbitration process utilizing the NPCC Policy for Alternate Dispute Resolution.
	Status/ Comments:	Document under review-to be integrated into overall NPCC Compliance Program



RELIABILITY ASSESSMENT PROGRAM

Compliance Enforcement and Organization Registration and Certification Program

NPCC Compliance Committee

Documents

Item	Name	Assignment
C-32	Review Process for NPCC Reliability Compliance Program	This Procedure establishes the process CMAS uses to verify Area compliance to the standards that comprise the NPCC Reliability Compliance Program (RCP) or its successor program.
	Status/ Comments:	Document under review-to be integrated into overall NPCC Compliance Program



RELIABILITY ASSESSMENT PROGRAM

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, at their June 10-11, 2008 meeting, approved the following procedures that are to be presented to the NERC BOT for final approval at the end of August. These procedures define how the CCC will monitor NERC adherence to the Rules of Procedure and the Compliance Monitoring and Enforcement Process:

- CCCPP-001, Monitoring Program for NERC's Adherence to NERC's Rules of Procedure for Compliance Enforcement
- CCCPP-002 , Compliance Monitoring Program for Reliability Standards Applicable to NERC
- CCCPP-003, Monitoring Program for NERC's Reliability Standards Development Procedure

The CCC's subcommittee, Organization, Registration, and Certification (ORCS), has been working on revising 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 clarification to the Joint Registration Organization (JRO) criteria.

The next meeting scheduled for the CCC is September 17-18th in Dallas, TX. At their September meeting, NERC is to present the process and schedule for assessing the Regional Entities on their implementation of the CMEP.



RELIABILITY ASSESSMENT PROGRAM

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 propose new techniques and training aids as they become available.

Status/ Comments: Planning is underway for the 62nd NPCC System Operator Seminar was held on November 18-19, 2008 in Halifax, NS. The CO-2 Working Group has also developed functional diagrams that outline system operator tasks in order to satisfy NERC requirements.



RELIABILITY ASSESSMENT PROGRAM

Reliability Assessment and Performance Analysis Program

BLACKOUT 2003 FOLLOW-UP

Item	Name	Assignment
ARR	Area Restoration Reviews	Document and evaluate Area restoration performance following the August 14 th Blackout, assess extent and effectiveness of regional and interregional coordination and recommend potential Area Restoration Plan and/or NPCC Criteria revisions.
	Status/ Comments:	The Final Report of the IRCWG (CO-11), assessing the Areas' restoration experiences following the August 14 th Blackout, was approved at the July 14, 2005 RCC meeting. Requirements based on recommendations from the report, "Restoration of the NPCC Areas Following the Power System Collapse of August 14, 2003," are included in the current draft of NPCC Document A-03, "Emergency Operation Criteria," which will be submitted at the May 2007 RCC meeting for approval. Further recommendations were incorporated in NPCC Document C-35, "NPCC Inter-Control Area Power System Restoration Reference Document," approved in March 2006.

Item	Name	Assignment
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. Work on Task 5 anticipated following completion of the SS-38 UFLS study status of follow-up work.



RELIABILITY ASSESSMENT PROGRAM

Reliability Assessment and Performance Analysis Program

BLACKOUT 2003 FOLLOW-UP

Item	Name	Assignment
NERC-BOT	NERC Board Of Trustees Recommendations	Evaluate recommendations included in the report “August 14, 2003 Blackout: NERC Actions to Prevent and Mitigate the Impacts of Future Cascading Blackouts” for applicability within NPCC.
	Status/ Comments:	Periodic status reports are posted on NPCC public web site.



RELIABILITY ASSESSMENT PROGRAM

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: The CO-1 Working Group met on May 22-23, 2008 and is addressing the following items: 1) NERC Balancing and Frequency Response Standards, 2) inadvertent balances, 3) ACE Diversity Interchange, 4) Shared Activation of Reserve application and visibility, 5) Inter-Area Reserve and 6) Metering for ancillary services. The next meeting is scheduled for September 10-11, 2008. The meeting agenda will include these topics with emphasis on Inter-Area Reserve.



RELIABILITY ASSESSMENT PROGRAM

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

Item	Name	Assignment
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:	Working Group CO-07, at the direction of the TFCO, is in the process of replacing the NPCC Document B-09 “Guide for Rating Generating Capability,” with two new NPCC Type “A” criteria, NPCC Documents A-13 and A-14. Subsequently the new A-13 and A-14 criteria will be converted into a Regional Standard. The objective is to ensure compliance with both the NERC Standards MOD-024-1, “Verification of Generator Gross and Net Real Power Capability,” and MOD-025-1, “Verification of Generator Gross and Net Reactive Power Capability. The proposed draft of NPCC Document A-13 is now being balloted for approval by the NPCC membership.

Item	Name	Assignment
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 Working Group has addressed those comments received through public comment through the NPCC Open Process to NPCC Document C-40, “Procedures for Inter-AREA Voltage Control,” a conversion of NPCC Document B-03, “Guidelines for Inter-Area Voltage Control.” The Task Force on Coordination of Operation approved Document C-40 as an NPCC Inc. Type C Procedure at its meeting of April 26 and 27, 2007.



RELIABILITY ASSESSMENT PROGRAM

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

Item	Name	Assignment
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:	Additional issues brought out in the public comment period, particularly the breadth of the basic minimum power system, will be discussed further by the TFCO during a conference call to be held on September 19 and 20, 2007.

Item	Name	Assignment
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 Task Force on Coordination approved the C-43 “NPCC Operational Review for the Integration of New Facilities” document at the August 2008 meeting. The CO-12 Working Group will continue work on the C-45, “Seasonal Assessment Scope and Methodology” document and target TFCO approval at the September meeting. Work on the 2008/09 Winter NPCC Reliability Assessment will get underway during September. The report will be developed taking into consideration recent TFCO and TFCCP comments.

Item	Name	Assignment
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 C-44 Document, “NPCC Regional Methodology and Procedures for Forecasting TTC and ATC,” was approved by the TFCO and was issued as a new NPCC document.



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Item	Name	Assignment
LESPWG	Lake Erie Security Process Working Group	The Lake Erie Security Process Working Group was formed to address the charge stemming from the Northeast Power Coordinating Council Security Process Plan. The Lake Erie Security Process has established Lake Erie line loading relief procedures developed by representatives from Ontario Hydro, the New York Power Pool, the Pennsylvania-New Jersey-Maryland Interconnection Association and the Michigan Electric Coordinated Systems.
	Status/ Comments:	The group has been dormant and presently has no Chairman. Retirement of the existing LEER process is being considered.



RELIABILITY ASSESSMENT PROGRAM

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TASK FORCE ON COORDINATION OF OPERATION

Item	Name	Assignment		
TFCO	Task Force Scope	The overall charge to the TFCO, together with the scope of activities, is given to the Task Force through its scope.	Latest Version:	Nov. 29, 2005
			Frequency of Reviews:	3 years
			Next Review Date:	Nov. 2008
	Status/ Comments:	The TFCO Scope was approved in 2005. No need for revisions at this time.		



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TASK FORCE ON COORDINATION OF OPERATION

Surveys/Reviews

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
FNL	Survey of NPCC Facilities Notification List	An annual list of NPCC transmission facilities is established based on the criterion that, if removed from service, the transmission facility may directly or indirectly impact the reliability of another Area or other Areas.	Latest Version:	April. 2007
			Frequency of Reviews:	1 year
			Next Review Date:	Jan. 2008
	Status/ Comments:	The annual revision will be addressed by the TFCO in early 2008.		



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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 2007 New England Interim Review of Resource Adequacy and the 2007 Quebec review of Resource Adequacy were approved at the March 5, 2008 RCC meeting. The 2007 Maritimes Comprehensive Review of Resource Adequacy was approved at the March 5, 2008 RCC meeting.

Item	Name	Assignment
CP- 2008S	Summer 2008 Multi-Area Probabilistic Reliability Assessment	Assess NPCC Area reliability for the year 2008 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 TFCP approved the 2008 NPCC Summer Multi-Area Probabilistic Reliability Assessment, incorporating comments received from the RCC review. The assessment was presented at the April 29, 2008 NPCC BOD meeting; a summary report and Media Release was presented at the May 1, 2008 Media teleconference.



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TASK FORCE ON COORDINATION OF PLANNING

Item	Name	Assignment
CP- 2008W	Winter 2008-09 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 2008 through March 2009) period.
	Status/ Comments:	The draft scope of work for the assessment was presented to the TFCP on August 20, 2008, for consideration of approval at the September 4, 2008 RCC 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 CP-8 Working Group is reviewing the methodology in 2008, prior to the start of the next Tie Benefits study scheduled to begin in 2010.



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TASK FORCE ON COORDINATION OF PLANNING

Item	Name	Assignment
CP-11	<i>NPCC Basic Criteria For Design and Operation Of Interconnected Power Systems Review Working Group</i>	This Working Group is charged with the revision of the NPCC Inc. Basic Design Criteria Document A-02 and the NPCC Glossary of Terms Document A-07. In addition, the TFCP charged CP11 with the development of the A-10 Classification of BPS Elements document.
	Status/ Comments:	Significant changes have been incorporated in draft revised A-10 for initial review at September 4, 2008 RCC meeting.

Item	Name	Assignment
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:	A meeting of the NERC DCWG and EIA representatives has held on April 9-10, 2008 to review NERC LTRA and EIA 2008 reporting requirements and discuss future activities. The next meeting is scheduled for September 18-19, 2008 at EIA in Washington D.C.



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TASK FORCE ON COORDINATION OF PLANNING

Item	Name	Assignment		
TFCP	Task Force Scope	The Task Force on Coordination of Planning scope of activities.	Latest Version:	Sept. 7, 2005
			Frequency of Reviews:	3 years
			Next Review Date:	Aug. 2008
	Status/ Comments:	The next review of TFCP scope is due this year.		



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TASK FORCE ON COORDINATION OF PLANNING

Surveys/Reviews

Item	Name	Assignment		
MARA	Resource Adequacy — Coordination and Review of Area Studies	Review of the Maritime Area resource adequacy study.	Latest Version:	Dec. 2007
			Frequency of Next Review Date:	3 years 2010

Status/ Comments: The 2007 Maritimes Comprehensive Review of Resource Adequacy was approved at the March 5, 2008 RCC meeting.

Item	Name	Assignment		
NERA	Resource Adequacy — Coordination and Review of Area Studies	Review of the New England Area resource adequacy study.	Latest Version:	Nov. 2005
			Frequency of Reviews: Next Review Date:	3 years 2008

Status/ Comments: The New England 2007 Interim Review of Resource Adequacy was approved at the March 5, 2008 RCC meeting.



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TASK FORCE ON COORDINATION OF PLANNING

Surveys/Reviews

Item	Name	Assignment		
NYRA	Resource Adequacy — Coordination and Review of Area Studies	Review of the New York Area resource adequacy study.	Latest Version:	Nov. 2006
			Frequency of Reviews:	3 years
			Next Review Date:	2009
	Status/ Comments: The 2007 New York Interim Review of Resource Adequacy was approved at the November 2007 RCC meeting.			

Item	Name	Assignment		
QARA	Resource Adequacy — Coordination and Review of Area Studies	Review of the Québec Area resource adequacy study.	Latest Version:	Dec. 2005
			Frequency of reviews:	3 years
			Next Review Date:	2008
	Status/ Comments: Quebec's 2007 Interim Review of Resource Adequacy was approved at the March 5, 2008 RCC meeting.			



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TASK FORCE ON COORDINATION OF PLANNING

Surveys/Reviews

Item	Name	Assignment		
ONRA	Resource Adequacy — Coordination and Review of Area Studies	Review of the Ontario Area resource adequacy study.	Latest Version:	Nov. 2006
			Frequency of Next Review Date:	3 years 2009
	Status/ Comments: The 2007 Ontario Interim Review of Resource Adequacy was approved at the November 2007 RCC meeting.			

Item	Name	Assignment		
SPS	Special Protection System List	This document lists Special Protection Systems on the System.	Latest Version:	Jan. 2008
			Frequency of Next Review Date:	1 year Nov. 2008
	Status/ Comments: TFSS will initiate an update to the SPS list at the September meeting.			



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Reliability Assessment and Performance Analysis Program

TASK FORCE ON SYSTEM PROTECTION

Item	Name	Assignment
PSMP	Protection System Maintenance Practices	As required to support analysis, collect Bulk Power system protection system maintenance data to evaluate protection system maintenance costs and the impact on Bulk Power System performance due to alternative methods and intervals for protection system maintenance.
	Status/ Comments:	The TFSP has initiated effort to develop consistent methodology by September 2008 to collect data relative to Bulk Power System maintenance practices to evaluate protection system maintenance costs and the impact on Bulk Power System performance. At the July meeting, TFSP reviewed the need for this effort and recommended deferring further consideration of solely NPCC methodologies to collect maintenance data. A NERC Reliability Standard, PRC-005, is being developed to address maintenance issues and intervals. Consistent with Objective 11.b of the TFSP work plan, focus further work on insuring NPCC documents address the NERC Standard.

Item	Name	Assignment
SEDRWG (SP-6)	Synchronized Event Data Reporting Working Group	Investigate the area of synchronized event reporting and make recommendations for improvements to NPCC criteria and other NPCC documents so that NPCC might better be able to quickly establish the sequence of events after any future wide area disturbance.



RELIABILITY ASSESSMENT PROGRAM

Status/ Comments: Disturbance Monitoring Equipment Survey scheduled in 2008 was deferred until requirements are established.

Reliability Assessment and Performance Analysis Program

TASK FORCE ON SYSTEM PROTECTION

Item	Name	Assignment		
TFSP	Task Force Scope	This document outlines the Task Force on System Protection scope of activities.	Latest Version:	March 9, 2005
			Frequency of Reviews:	3 Years
			Next Review Date:	Nov. 2008

Status/ Comments: The review was initiated at the March 2008 TFSP meeting and is expected to be completed at the September meeting. Revised scope will be submitted for approval at the November RCC meeting.



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TASK FORCE ON SYSTEM PROTECTION

Surveys/Reviews

Item	Name	Assignment		
RPS	Review protection systems for proposed installations or existing installations undergoing substantial modifications	Review, in accordance with the Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System (Document C-22) proposed protection systems, including special protection systems, for new major installations as well as existing installations undergoing substantial modifications, before such facilities are constructed or modified and report on the findings with respect to compliance with the NPCC Bulk Power System Protection Criteria (Document A-5) and Special Protection System Criteria (Document A-11).	Latest Version:	July 2008
			Frequency of Reviews:	3 months
	Status/ Comments:	At each meeting, the TFSP discusses protection system changes, including SPS installations and modifications, as proposed by entities within NPCC.		

Item	Name	Assignment		
RPS	Review protection system performance following major system events or disturbances	In conjunction with other task forces, review and analyze the detailed performance of protection systems following major power system disturbances and events and participate in the preparation of reports, which would include appropriate recommendations.	Latest Version:	July 2008
			Frequency of Reviews:	3 months
	Status/ Comments:	At each meeting, TFSP discusses system disturbances that have been reported to NPCC and/or NERC, and disturbances reported directly by the member systems to determine if any changes are necessary in the NPCC protection criteria.		



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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 2008 development effort is currently underway and on schedule to coordinate with MMWG.

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: The UFLS Final Report was approved at the May 23, 2007 RCC meeting. SS-38 has completed follow-up work related to the UFLS conclusions/recommendations. A report and recommendations on the NPCC UFLS program was presented at the March 2008 RCC Meeting. SS-38 is developing proposed modifications to the NPCC UFLS program, the RCC will be asked to approve the parameters at their September 4, 2008 meeting. SS-38 is also completing development of a whitepaper on governor modeling. The paper will be presented for approval at the September 2008 RCC meeting. Work on NPCC Blackout Recommendation Task 5 is anticipated to start in late 2008.



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TASK FORCE ON SYSTEM STUDIES

Item	Name	Assignment		
TFSS	Task Force Scope	The Task Force on System Studies scope of activities.	Latest Version: Frequency of Next Review Date:	March 2007 3 years Jan. 2010
	Status/ Comments:	The next scheduled review is January 2010.		



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TASK FORCE ON SYSTEM STUDIES

Surveys/Reviews

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
ALSP	Adequacy of Automatic Load Shedding Programs	Assessment of the adequacy and suitability of existing underfrequency load shedding settings.	Latest Version:	Aug. 31, 2004
			Frequency of Reviews:	3 years
			Completion Date:	March 2007
	Status/ Comments:	The final report was presented and approved at the May 23 rd RCC meeting. Follow-up work is complete. Development of proposed modifications to the NPCC UFLS Program is underway.		



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Reliability Assessment and Performance Analysis Program

TASK FORCE ON SYSTEM STUDIES

Surveys/Reviews

Item	Name	Assignment		
MATR	Maritimes Area Transmission Review	Review of Maritimes Area (New Brunswick and Nova Scotia) future transmission plans (4-6 years out).	Latest Version:	Nov. 2007
			Frequency of Reviews:	1 year
			Next Review Date:	Nov. 2008
	Status/ Comments:	The 2006 comprehensive review was approved at the May 23, 2007 RCC meeting. An Interim Review was conducted in 2007 and was approved at the November 27-28, 2007 RCC meeting. An interim review will be conducted in 2008.		

Item	Name	Assignment		
NETR	New England Area Transmission Review	Review of New England Area future transmission plans (4-6 years out).	Latest Version:	Nov. 2007
			Frequency of Reviews:	1 year
			Next Review Date:	Nov. 2008
	Status/ Comments:	An Interim Review was conducted in 2007 and was approval at the RCC November 27-28, 2007 meeting. A Comprehensive Review will be conducted in 2008.		



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TASK FORCE ON SYSTEM STUDIES

Surveys/Reviews

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
NYTR	New York Area Transmission Review	Review of New York Area future transmission plans (4-6 years out).	Latest Version:	Nov. 2007
			Frequency of Reviews:	1 year
			Next Review Date:	Nov. 2008
	Status/ Comments:	The RCC approved the New York Comprehensive Area Transmission Review at its November 2006 meeting; a New York 2006 Interim review was approved by the RCC at its March 14, 2007 meeting. An Interim review was conducted in 2007 and approved at the May 2008 RCC Meeting. An Intermediate Review will be conducted in 2008.		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
ONTR	Area Transmission Review	Review of Ontario Area future transmission plans (4-6 years out).	Latest Version:	May 2007
			Frequency of Reviews:	1 year
			Next Review Date:	Dec. 2008
	Status/ Comments:	The 2007 Ontario Comprehensive Area Transmission Review was approved at the March 5, 2008 RCC meeting. An Interim Review will be conducted in 2008.		



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Reliability Assessment and Performance Analysis Program

TASK FORCE ON SYSTEM STUDIES

Surveys/Reviews

Item	Name	Assignment		
QATR	Québec Area Transmission Review	Review of Québec Area future transmission plans (4-6 years out).	Latest Version:	Nov. 2007
			Frequency of Reviews:	1 year
			Next Review Date:	Dec. 2008
	Status/ Comments:	A Comprehensive review was conducted in 2007 and approved at the May 28, 2008 RCC meeting. An Interim Review will be conducted in 2008.		

Item	Name	Assignment		
TRS	Overall Transmission Reliability Study	Evaluate the need to perform an overall assessment to evaluate the thermal, and dynamic performance of the NPCC Region. If necessary perform this assessment including the calculation of Inter-Area transfer capabilities and Extreme contingency performance.	Latest Version:	Nov. 2005
			Frequency of Reviews:	3 years
			Completion Date:	Nov. 2008
	Status/ Comments:	The Overall Transmission Reliability Study was approved at the November 29-30, 2005 RCC meeting. SS-38 Working Group is scheduled to initiate study in September 2008.		



RELIABILITY ASSESSMENT PROGRAM

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 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 ERAG Management Committee's met on August 7-8, 2008. Topics addressed included the MMWG work status (2008 base case development schedule status, MMWG case quality, MMWG's role in providing case data for system event analysis studies conducted by NERC), the status of the work by Power Technologies Labs on the steady state model data base, ERAG involvement with system event modeling and analysis, the need for wide-area, multi-regional assessments and the status of the plans for the 2008/09 Winter Interregional Assessments in the three Study Forums.



RELIABILITY ASSESSMENT PROGRAM

Reliability Assessment and Performance Analysis Program

RFC - NPCC Working Group

Item	Name	Assignment
RFC-NPCC	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 staffing for the RFC-NPCC 2008/09 Winter assessment has been established and the study work is being initiated. NPCC will chair the Working Group and PJM will conduct the studies. PJM will chair the RFC-NPCC Steering Committee.



RELIABILITY ASSESSMENT PROGRAM

Reliability Assessment and Performance Analysis Program

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

Item	Name	Assignment
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 2008 Summer Reliability Assessment report was issued by NERC on May 14, 2008.



RELIABILITY ASSESSMENT PROGRAM

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:	The Working Group has developed a Northeastern Planning Protocol document that outlines how Inter-Regional planning will be done. All NPCC Areas and PJM are involved with the effort. NPCC developed and maintained the website for the effort - ISO-NE agreed to assume the future web site development and maintenance. The last stakeholder meeting was held June 27, 2008 at the Sheraton Bradley Airport in Windsor Locks, CT. The next meeting is scheduled for December, 2008.



RELIABILITY ASSESSMENT PROGRAM

Situation Awareness and Infrastructure Security Program

TASK FORCE ON COORDINATION OF OPERATION

Item	Name	Assignment	Completion Date:
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.	Dec. 2008
	Status/ Comments:	Changes were made to the C-17 Document “Procedures for Monitoring and Reporting Critical Operating Tool Failures” were made based on Open Process, TFCO and TFIST comments. A final version will be issued by the end of November. Additions are being made to the spreadsheet of metering devices on all NPCC tie lines to include all metering associated with Automatic Generation Control. CO-10 members agreed that a formal Service Level Agreement for Facilitated Transaction Checkout was not needed and a less formal document would serve the necessary purpose to establish maintenance and operation requirements.	



RELIABILITY ASSESSMENT PROGRAM

Situation Awareness and Infrastructure Security Program

TASK FORCE ON COORDINATION OF OPERATION

Documents

Item	Name	Assignment		
C-17	Monitoring Procedures for Guidelines for On-Line Computer System performance during disturbances	This document establishes monitoring and reporting procedures for the B-12 Guideline, and specifically details on-line computer response objectives.	Latest Version:	Sept. 2001
			Frequency of Reviews:	3 years
			Next Review Date:	Sept. 2005

Status/ Comments: The re-written C-17 Document had gone through an NPCC Open Process review with a comment closing date of November 24, 2006. Many comments were received which has required the CO-10 Working Group to make major changes to the document. It is expected that the revised document will be reposted for Open Process review during March 2007. Further work turned over to the CO-10 Working Group.



RELIABILITY ASSESSMENT PROGRAM

Situation Awareness and Infrastructure Security Program

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Item	Name	Assignment
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.
		Last Workshop: May 2008

Item	Name	Assignment
IST-2	TFIST Telecommunication Working Group	Provide a forum to identify, discuss and advance the technology of Telecommunications Infrastructure for the reliable operation of the NPCC Inc. Bulk Power System. The Telecommunications Working Group (IST-2) will also support TFIST in their work on issues related to Telecommunications.
	Status/ Comments:	While responding to the Inter-Control Area Restoration Working Group (CO-11), the Telecommunications Working Group (IST-2) discovered that telecommunications do not retain their priority status across the international border. IST-2 is investigating alternative shorter term solutions, and seeking assistance on longer term solutions with coordination from the TFCO and the appropriate governmental/regulatory officials. IST-2 sent TFIST its Cross Border Emergency Telecommunications report, including the TFCO's recommended justification. RCC endorsed the IST-2 recommendations at its November 2007 meeting. IST-22 is implementing the recommendations in 2008. IST-2 is working on implementing the RCC endorsed 2007 recommendations. The first annual test is scheduled for September 30.
		Completion Date: December 2008



RELIABILITY ASSESSMENT PROGRAM

Situation Awareness and Infrastructure Security Program

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Item	Name	Assignment	Completion Date:
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.	December 2008
	Status/ Comments:	The EMS-SCADA Working Group held its initial meeting. They have responded to a question from CO-11, Inter-Control Area Restoration Working Group regarding control center and telecommunication center facilities.	



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TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
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.	Completion Date:	December 2008
	Status/ Comments:	The Cyber Security Working Group is in the process of being formed. The 2007-2008 TFIST Work Plan has defined the following possible action items for this Working Group: 1) support the CO-10 Working Group on their real-time operating tools project; 2) monitor the Homeland Security Information Network (HSIN) and share information with the CO-8 Working Group; and, 3) write a Regional Risk Methodology Guide to assist in the determination of NERC CIP - 002 Requirement R1 - Critical Assets.		



RELIABILITY ASSESSMENT PROGRAM

Situation Awareness and Infrastructure Security Program TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Item	Name	Assignment	Completion Date:
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.	December 2008
	Status/ Comments:	The Physical Security Working Group is in the process of being formed. The 2007-2008 TFIST Work Plan has defined the following possible action items for this Working Group: 1) review infrastructure security & technologies and provide recommendations to the RCC to enhance physical and cyber security compliance with NERC guidelines/standards; and, 2) develop a list of concerns and issues unaddressed by existing NERC Standards and NPCC Criteria which affect infrastructure security and reliability. The May 2008 Cyber Security Workshop provided initial volunteers.	



RELIABILITY ASSESSMENT PROGRAM

Situation Awareness and Infrastructure Security Program TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Item	Name	Assignment		
TFIST	Task Force Scope	This document outlines the Task Force on Infrastructure Security and Technology scope of activities.	Latest Review	Sept. 2005
			Frequency of Reviews:	3 years
			Next Review Date:	Sept. 2008
	Status/ Comments:	Scheduled to be reviewed in September 2008.		



RELIABILITY ASSESSMENT PROGRAM

Situation Awareness and Infrastructure Security Program

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Surveys/Reviews

Item	Name	Assignment		
RAD	Review of NPCC Area disturbances	Review of infrastructure security performance during disturbances.	Latest Review	June 2008
			Frequency of Reviews:	As required
	Status/ Comments:	TFIST reviews those major system disturbances as distributed by the TFCO with respect to infrastructure security. Latest review in November 2007. Latest review in June 2008		

Item	Name	Assignment		
ROC	Review On-Line Computer System Status Reports	Review of member on-line computer system statuses and plans, as required by Document B-12.	Latest Review:	March 2004
			Frequency of Reviews:	As needed
	Status/ Comments:	The TFIST will be determining the need to review these reports. No need to review unless it affects security/reliability.		



RELIABILITY ASSESSMENT PROGRAM

Administrative Services

MEMBERS' FORUMS

Item	Name	Assignment
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 2008 General Meeting is scheduled for September 24-25, 2008 at Saratoga Springs, New York. The Agenda and registration information was distributed and posted on the NPCC web site on July 1, 2008.

Item	Name	Assignment
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 on March 4, 2008; the next meeting is scheduled for September 23, 2008, preceding the NPCC 2008 General Meeting. The Agenda for the meeting has been finalized, including a joint session with the NPCC Task Force on Coordination of Planning regarding Wind Development.

Item	Name	Assignment
PI	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:	A media teleconference was held on May 1, 2008 to present the results of the NPCC 2008 Summer Reliability Assessments and answer any questions. The Public Information Committee's "Terms of Reference" was approved by the NPCC BOD on June 24, 2008. NPCC has been participating in monthly communications coordination calls with NERC and the Regions.