



**RCC Meeting
September 6, 2007
Agenda Item 9.16**

**Reliability Assessment Program
(NRAP)
STATUS REPORT**
*Prepared for the
Reliability Coordinating Committee
September 6, 2007*

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 Inc. Staff



Reliability Assessment Program STATUS REPORT

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RELIABILITY ASSESSMENT PROGRAM

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 Standards 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.

Current Status:

The Regional Standards Committee is focusing on the review of the NERC Reliability Standards (as they are developed). RSC is currently reviewing the FERC Order 693on approved Reliability Standards. The RSC is developing recommendations for the membership on ballots as they transpire. RSC has also commented on increased reporting requirements proposed by the DOE/Energy Information Administration 411 and 860 Forms. RSC also developed a process to coordinate commenting and participating in adjacent Regions' criteria 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 filed with the FERC as part of the Regional Delegation Agreement. FERC has accepted the Regional Standard Development Procedure and RSC will be involved with implementation. The Scope for the RSC has been approved by the NPCC CBRE BOD at their April 24, 2007 meeting.



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON COORDINATION OF OPERATION

Documents

Item	Name	Assignment		
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 will be delayed until approval is reached on the A-12, System Restoration Criteria document so that system restoration content is always maintained in a current NPCC "A" document. In parallel, the initial drafting of the NPCC Directory will include "Emergency Operations"; the May 23 rd RCC approved draft of Document A-03 will be used in the Directory effort.		

Item	Name	Assignment		
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.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON COORDINATION OF OPERATION

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
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.	Latest Version:	April 26, 2007
			Frequency of Reviews:	3 years
			Next Review Date:	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.			

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
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.	Latest Version:	July 18, 2007
			Frequency of Reviews:	3 years
			Next Review Date:	July 2010
	Status/ Comments: Document A-13, "Verification of Generator Gross and Net Real Power Capability Criteria" was approved received NPCC membership approval on July 18, 2007 and became the official version at that time. Upon approval by the membership, Document B-09 was retired.			



RELIABILITY ASSESSMENT PROGRAM

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 be submitted for approval to the Task Force on Coordination of Operation at its meeting of September 25 and 26, 2007.			

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.			



RELIABILITY ASSESSMENT PROGRAM

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 September 25 and 26, 2007.		

<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.		



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Reliability Standards Program

TASK FORCE ON COORDINATION OF OPERATION

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
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.			

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
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
			Frequency of Reviews:	4 years
			Next Review Date:	March 2009
	Status/ Comments:	The TFCP prepared revisions to this document in 2004, and it has received final member approval.	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
			Frequency of Reviews:	4 years
			Next Review Date:	Nov. 2007
	Status/ Comments:	NPCC will begin an early review of this document sometime in 2007.	Completion Date:	May 2008



RELIABILITY ASSESSMENT PROGRAM

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. It is expected that the revised glossary will be sent to the RCC for approval in 2007.		

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:	As a result of the TFCP's efforts to increase NPCC study efficiency, CP-8 will begin another revision of this document to address the issues once identified by the TFCP.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

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:	The TFCP has approved a revision to the document.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON SYSTEM PROTECTION

Documents

Item	Name	Assignment		
A-4	Maintenance Criteria for Bulk Power System Protection	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:	TFSP has initiated the review of A-4 in the first quarter of 2007.		

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:	TFSP has completed A-5 review separating non-criteria language from criteria language. Revised A-5 was approved by NPCC Inc members and posted on the web.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON SYSTEM PROTECTION

Documents

Item	Name	Assignment		
A-11	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:	Nov. 14, 2002
			Frequency of Reviews: Next Review Date:	3 years Nov. 2006
	Status/ Comments:	TFSP is currently reviewing Document A-11 and will propose changes similar to A-5.		

Item	Name	Assignment		
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: Next Review Date:	3 years Nov. 2008
	Status/ Comments:	The next review is scheduled for 2008.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON SYSTEM PROTECTION

Documents

Item	Name	Assignment		
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:	The next review is scheduled for 2008, but TFSP will consider initiating B-7 review at the May 30-31 TFSP meeting as per the TFCO's request.		

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:	B-21 is under review.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON SYSTEM PROTECTION

Documents

Item	Name	Assignment		
B-23	Guide for Maintenance of Microprocessor-based Protection Relays	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 Review was initiated in March 2007.		

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.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON SYSTEM PROTECTION

Documents

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.			

Item	Name	Assignment		
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.			



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:	Sept. 2005
			Frequency of Reviews:	3 years
			Next Review Date:	Sept. 2008
	Status/ Comments:	Updated document approved at the September 2005 RCC meeting. Not due for review.		

<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:	Sept. 30 2005
		Note: Member Representatives shall be advised of approvals by the Reliability Coordinating Committee of applications for exclusions.	Frequency of Reviews:	3 years
			Next Review Date:	Nov. 2008
	Status/ Comments:	Not due for review until 2008.		



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:	July 2003
			Frequency of Reviews:	3 years
			Next Review Date:	Jan. 2006
	Status/ Comments:	This document is posted in NPCC open Process until January 11, 2007. TFSS is currently addressing the comments received.		

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:	May 2002
			Frequency of Reviews:	3 years
			Next Review Date:	June 2005
	Status/ Comments:	TFSS is currently reviewing the document.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Standards Program

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
B-12	Guidelines for On-Line Computer System Performance During Disturbances	This document establishes guidelines for the performance of NPCC Area on-line computer systems during a power system disturbance.	Latest Version:	Nov. 2001
			Frequency of Reviews:	3 years
			Next Review Date:	Sept. 2005
	Status/ Comments:	This document is being eliminated with the content becoming part of a re-written C-17 document. This work is being done by the CO-10 Working Group and is being coordinated with the TFIST (see C-17 status below).		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
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.		



RELIABILITY ASSESSMENT PROGRAM

Compliance Enforcement and Organization Registration and Certification Program

NPCC Compliance Committee

Item	Name	Assignment
NCC	NPCC Compliance Committee	The NPCC Compliance Committee, a committee of the NPCC Board of Directors, will provide policy input and final approval of compliance assessments, including sanction recommendations, for the NPCC Compliance Monitoring and Enforcement Program (CMEP). The CMEP will be used to monitor, assess and enforce mandatory compliance, by entities contained in the Compliance Registry, with NERC and Regional Reliability Standards consistent with the Regional Delegation Agreement and agreements backstopped by the appropriate Canadian Provincial regulatory and/or governmental authorities.

Current Status: The NPCC Compliance Committee has been formed and is reviewing compliance on both pre June 18th and post June 18th compliance submittals.



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.
	Current Status:	This document has been posted for member approval but a sufficient vote for approval has not yet been achieved.

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.
	Current Status:	B-22 was approved by the RCC at their May 23, 2007 meeting.



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.
	Current Status:	C-32 has been posted on the NPCC website.



RELIABILITY ASSESSMENT PROGRAM

Compliance Enforcement and Organization Registration and Certification Program

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

Item	Name	Assignment
CCC	Compliance and Certification Committee	Develop positions related to the NERC Compliance program.
	Current Status:	Receiving proposed ERO sanction Guidelines. Discussing the role of CCC in the NERC transition to the ERO and beyond.



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 dispatcher training relating to NPCC Inc. inter-Area matters, Working Group criteria, terminology, policies and operating instructions. It prepares and presents material at dispatcher training sessions, exchanges information on internal dispatcher training methods. The CO-2 Working Group also evaluates and propose new techniques and training aids as they become available.
	Current Status:	<p>The CO-2 Working Group continues to coordinate the development of operator training programs among the NPCC Inc. Areas to ensure that the programs will meet the new NERC Program requirements for operator certification and re-certification. With the new program operator re-certification will come only through attainment of Continuing Education Hours (CEHs) and not through testing. CO-2 Working Group is also trying to maximize the benefits that can be obtained from shared training among NPCC Inc. Areas; opportunities are currently being identified and considered.</p> <p>The next CO-2 Working Group will be on August 29 and 30, 2007. That meeting will include a joint meeting with the CO-8 Working Group to plan the content of the semiannual Fall NPCC Inc. Operators Seminar, to be held on November 7-8, 2007 in Holyoke, MA.</p>



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.
	Current Status:	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.
	Current Status:	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 (to be presented at the May 23, 2007 RCC meeting).



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.
	Current Status:	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	<p>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.</p>
	Current Status:	<p>The proposed draft of NPCC Document A-06, "Operating Reserve Criteria," incorporating the concepts of load as synchronized operating reserve, was approved by the NPCC Membership on July 17, 2007.</p> <p>The CO-1 is reviewing NPCC Document C-12, "Procedures for Shared Activation of Ten Minute Reserve," and the Working Group will consider assigning the DCS penalty to the contributing area instead of the receiving area. The CO-01 is also reviewing the requirement to automate the Shared Activation of Ten Minute Reserve (SAR) process to allow better visibility of SAR events by the Areas. The CO-01 will provide information on SAR implementation issues to allow the benefits to be evaluated.</p> <p>Following an initial assessment, the Working Group will assess the implications of the August 4th frequency excursion and generator governor response during this event.</p> <p>Working Group will present its white paper providing a summary of the issues to address in bringing inter-Area reserve into NPCC procedures and criteria at the September RCC meeting. Further direction will be sought at that time.</p>



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 Inc. Regional Reliability Plan and the Registration and Certification of entities to achieve conformance with NPCC Inc. criteria and NERC Standards.
	Current Status:	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.
	Current Status:	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.
	Current Status:	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.
	Current Status:	CO-12 has developed a draft C-45 document."CO-12 Seasonal Methodology" that documents the methodology used in conducting the assessments. The C-43 document for review of operational readiness for the new facilities being added still needs TFCO input before moving forward. The 2007/08 winter assessment is underway.

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.
	Current Status:	The CO-13 Working Group has developed a draft "C" document (C-44) from its white paper, "Whitepaper on Regional Methodology and Guidelines for Forecasting TTC and ATC," which satisfies the NERC requirement for a methodology document. Following its addressing of public comments received through its posting via the NPCC Open Process, the Working Group will present the document to the Task Force on Coordination of Operation for approval at its meeting of June 14 and 15, 2007.



RELIABILITY ASSESSMENT PROGRAM

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF OPERATION

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
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.
	Current Status:	The group has been dormant and presently has no Chairman. Retirement of the existing LEER process is being considered.



RELIABILITY ASSESSMENT PROGRAM

Reliability Assessment and Performance Analysis Program

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.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Assessment and Performance Analysis Program

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 was done by the TFCO in April.		



RELIABILITY ASSESSMENT PROGRAM

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.
	Current Status:	The Quebec Interim Review of Resource Adequacy and the Maritimes Area Interim Review of Resource Adequacy were approved by the TFCP in February 2007, and approved at the March 2007 RCC meeting.

Item	Name	Assignment
CP- 2007S	Summer 2007 Multi-Area Probabilistic Reliability Assessment	Assess NPCC Inc. Area reliability for the year 2007 by estimating the annual Loss of Load Expectation (LOLE) and projected use of Area Operating Procedures designed to mitigate resource shortages for the summer (May through September) period.
	Current Status:	<p>A presentation of the preliminary results was given at the March 14, 2007 RCC meeting. The report was finalized by the TFCP on April 20, 2007. A summary of the results was given at the April 24, 2007 NPCC CBRE BOD meeting, and presented at the May 4, 2007 Media event.</p> <p>At the request of the NPCC, Inc. BOD, additional cases were run for the summer period, reflecting the delay of Ontario's Goreway plant, the unavailability of the Pickering Nuclear Generating Station A, and the retirement of New England's New Boston unit No. 1. These changes did not materially change the original results.</p> <p>A summary of the actual use of Operating Procedures for the 2007 summer period is being prepared for presentation at the September TFCP meeting.</p>



RELIABILITY ASSESSMENT PROGRAM

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TASK FORCE ON COORDINATION OF PLANNING

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CP- 2007W	Winter 2007-08 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 2007 through March 2008) period.
	Current Status:	The TFCP approved the scope and schedule for the Winter 2007-08 Multi-Area Probabilistic Reliability Assessment at its August 22 meeting; approval will be sought at the September 6, 2007 RCC meeting.

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
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.
	Current Status:	Work began on the Review of Interconnection Assistance Reliability Benefits study in May 2007. A status report with the preliminary results for 2007 will be presented at the September 6, 2007 RCC meeting. The CP-8 Working Group will be updating the assumptions to be consistent with the OPA Integrated Power System Plan (filed August 29 by OPA with the OEB), the New York Comprehensive Reliability Plan 2007 (presented at the August 29 th New York ISO Management Committee meeting), ISO-New England's Regional System Plan 07 (to be presented at the September 7 th NEPOOL Participants Committee meeting), and the most recent PJM 15-year Expansion Plans. A Final Report covering the 2007 to 2011 period is planned to be submitted for approval at the November RCC meeting.



RELIABILITY ASSESSMENT PROGRAM

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TASK FORCE ON COORDINATION OF PLANNING

Item	Name	Assignment
CP-11	<i>NPCC Inc. 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.
	Current Status:	The CP-11 Working Group met on February 12, 2007 to review the comments received during the last posting and to develop a final draft of the A-10 Criteria Classification of Bulk Power System Elements. The CP-11 Working Group finalized a revised draft incorporating the comments and submitting it to the Task Forces for their final review and approval. The CP-11 Working Group has received RCC approval by email ballot on April 25, 2007 and Full Member Rep. Committee Approval on April 27, 2007. CP11 will be reposting the A-10 Criteria for some minor refinements and also be working on the A-2 and A-7 documents over the coming months

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:	The EIA instituted its Form 411 internet based data collection system. NPCC Area's reporting requirements are being collected, due March 30, 2007 to NERC. The TFCP, at its February 21, 2007 meeting, agreed to a recommendation from its CP-8 Working Group that this activity be coordinated through CP-8. All NPCC Area's (New York, New England, Ontario, Quebec, New Brunswick, Nova Scotia, and Prince Edward Island) have completed and submitted the necessary data request for the EIA 411 effort. The data was reviewed by NPCC to ensure completeness before it was forwarded to NERC. All the submissions were made on or before the March 30 due date. NPCC will have to respond to any issues discovered after the data is the put through NERC's error checking program.



RELIABILITY ASSESSMENT PROGRAM

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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 RCC approved a new scope in September 2005.		



RELIABILITY ASSESSMENT PROGRAM

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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. 2004
			Frequency of Next Review Date:	3 years 2007
	Status/ Comments: The 2004 Maritimes Area Triennial Review of Resource Adequacy was approved at the March 2005 RCC meeting. The Maritimes 2006 Interim Review of Resource Adequacy was approved at the March 14, 2007 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: New England's 2005 Triennial Resource Adequacy was approved at the November 29-30, 2005 RCC meeting. The New England 2006 Interim Review of Resource Adequacy was approved at the November 2006 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:	As requested by the RCC, an updated New York 2006 Comprehensive Resource Adequacy Review was presented and approved at the November 2006 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 2006 Interim Review of Resource Adequacy was approval at the March 14, 2007 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:	Ontario's 2006 Comprehensive Resource Adequacy Review was presented and approved at the November 2006 RCC meeting.		

Item	Name	Assignment		
SPS	Special Protection System List	This document lists Special Protection Systems on the System.	Latest Version:	Nov. 2006
			Frequency of Next Review Date:	1 year June 2007
	Status/ Comments:	The SPS list was presented to the RCC at its November 2006 meeting.		



RELIABILITY ASSESSMENT PROGRAM

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.

Current Status: The TFSP will initiate when conditions warrant.

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.

Current Status: NPCC Guide to Time Synchronization of Substation Equipment was approved at the November 2006 RCC meeting SEDRWG has developed the requirements in the proposed new NPCC Inc. Disturbance Monitoring Equipment Criteria, Document A-15 that addresses the NERC Standard PRC-002. New Document A-15 was approved at the May 23, 2007 RCC meeting, and by the membership on August 23, 2007. SP-6 is also planning to conduct another Disturbance Monitoring Equipment Survey in 2007.



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TASK FORCE ON SYSTEM PROTECTION

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
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 next review is scheduled for 2008.		



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Reliability Assessment and Performance Analysis Program

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:	March 2007
			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:	March 2007
			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.		



RELIABILITY ASSESSMENT PROGRAM

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.

Current Status: Year 2007 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.

Current Status: Work on the TFSS Blackout 2003 Study is on-going. The UFLS Final Report was approved at the May 23, 2007 RCC meeting. SS-38 will continue with follow-up work related to the UFLS conclusions/recommendations. A status report will be provided to the RCC at its September 6, 2007 meeting. Work on NPCC Blackout Recommendation Task 5 is anticipated to start in 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:	TFSS Scope was approved at the March 14, 2007 RCC meeting.		



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TASK FORCE ON SYSTEM STUDIES

Surveys/Reviews

Item	Name	Assignment		
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 expected to continue through 2007.		

Item	Name	Assignment		
DARD	Review of Dynamic Analysis Recording Devices	This review summarizes the characteristics of recording devices used to capture power system dynamic phenomena.	Latest Version:	June 4, 1999
			Frequency of Reviews:	3 years
			Next Review Date:	June 2004
	Status/ Comments:	The SS-38 Working Group is currently conducting the Survey.		



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Reliability Assessment and Performance Analysis Program

TASK FORCE ON SYSTEM STUDIES

Surveys/Reviews

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
MATR	Maritimes Area Transmission Review	Review of Maritimes Area (New Brunswick and Nova Scotia) future transmission plans (4-6 years out).	Latest Version:	Nov. 2005
			Frequency of Reviews:	1 year
			Next Review Date:	Nov. 2006
	Status/ Comments:	2005 Interim Review approved at the November 29-30, 2005 RCC meeting. The 2006 comprehensive review is planned for presentation and approval at the May 23, 2007 RCC meeting. An Interim Review will be conducted in 2007.		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
NETR	New England Area Transmission Review	Review of New England Area future transmission plans (4-6 years out).	Latest Version:	Nov. 2006
			Frequency of Reviews:	1 year
			Next Review Date:	Nov. 2007
	Status/ Comments:	2006 Interim Review approved by the TFSS at its November 16-17, 2006 meeting. An Interim review will be conducted in 2007.		



RELIABILITY ASSESSMENT PROGRAM

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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. 2006
			Frequency of Reviews:	1 year
			Next Review Date:	Nov. 2007
	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 will be conducted in 2007		

<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 2006
			Frequency of Reviews:	1 year
			Next Review Date:	Dec. 2007
	Status/ Comments:	Approval of the 2006 Ontario Intermediate Review will be sought at the September 6, 2007 RCC meeting.		



RELIABILITY ASSESSMENT PROGRAM

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. 2006
			Frequency of Reviews:	1 year
			Next Review Date:	Dec. 2007
	Status/ Comments:	2006 Interim Review approved at the November 16-17, 2006 TFSS meeting. A Comprehensive review will be conducted in 2007.		

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. The next study is due in 2008.		



RELIABILITY ASSESSMENT PROGRAM

Reliability Assessment and Performance Analysis Program

Eastern Interconnection Reliability Assessment Group

Study Committees

Item	Name	Assignment
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 met on August 9-10. At the meeting the ERAG MC approved the purchase of a database program from Powertech Labs for use in MMWG case development work, discussed changes to several MMWG processes, provided input to each interregional forum on their plans for the 2007/08 winter seasonal assessments and future year assessments, completed an ERAG MC handbook, reviewed the direction of TPL standard development plans and determined an interregional short circuit database is not necessary and discussed ways to provide sufficient region to region coordination.



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.
	Current Status:	The RFC-NPCC 2007/08 winter assessment is underway. Necessary outage, transfer and dispatch files are being prepared.



RELIABILITY ASSESSMENT PROGRAM

Reliability Assessment and Performance Analysis Program

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (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 Councils for the ten year horizon. Conduct semiannual seasonal assessments of the overall reliability of the existing generation and transmission systems of the ten Regional Reliability Councils.
	Current Status:	The “2007 Long-Term Reliability Assessment,” looking at the reliability of the North American bulk power system for the next ten-year period, is in its final draft and will be released on October 15, 2007. The NERC 2007-2008 Winter Reliability Assessment is in progress.



RELIABILITY ASSESSMENT PROGRAM

Reliability Assessment and Performance Analysis Program

OTHER

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
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.
	Current Status:	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 has developed and is maintaining a website for the effort. NPCC also participated in the group’s meeting of PJM and NPCC stakeholders (IPSAC), and presented how NPCC supports wide-Area collaborative planning. A stakeholder meeting was held March 23, 2007.



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. 2007
	Status/ Comments:	NPCC Document C-17, "Procedures for Monitoring and Reporting Critical Operating Tool Failures," document was posted for public comment through the NPCC Open Process through August 5 and received one comment. The comment is being addressed and when any outstanding issues are resolved the document will be posted as a current NPCC document. The next CO-10 meeting is Sept. 12-13, 2007.	



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:	TFIST held a Cyber Security Workshop on June 7-8 2006 in Toronto. The focus was the NERC Cyber Security Standards.
		Last Workshop: June 2006

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. IST2 preparing a document for TFIST to review at its September meeting.
		Completion Date: December 2007



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 2007
	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.	



RELIABILITY ASSESSMENT PROGRAM

Situation Awareness and Infrastructure Security Program

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Item	Name	Assignment	Completion Date:
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.	December 2007
	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 CIP0002 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 2007
	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 Inc. Criteria which affect infrastructure security and reliability.	



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



RELIABILITY ASSESSMENT PROGRAM

Situation Awareness and Infrastructure Security Program

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Surveys/Reviews

Item	Name	Assignment	Latest Review	Frequency of Reviews:
RAD	Review of NPCC Area disturbances	Review of infrastructure security performance during disturbances.	Sept. 2006	As required
Status/ Comments: TFIST reviews those major system disturbances as distributed by the TFCO with respect to infrastructure security.				

Item	Name	Assignment	Latest Review:	Frequency of Reviews:
ROC	Review On-Line Computer System Status Reports	Review of member on-line computer system statuses and plans, as required by Document B-12.	March 2004	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:	Notice of the NPCC 2007 General Meeting, to be held September 26-27, 2007 in Toronto, Ontario has been posted on the NPCC web site and distributed to the membership.

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 next meeting of the NPCC Governmental/Regulatory Affairs Advisory Group will be held on September 25, preceding the NPCC 2007 general Meeting.

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 4, 2007 to present the results of the NPCC 2007 Summer Reliability Assessments and answer any questions.