



**RCC Meeting  
May 28, 2008  
Agenda Item 10.8**

**Reliability Assessment Program  
(NRAP)  
STATUS REPORT**  
*Prepared for the  
Reliability Coordinating Committee  
May 28, 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

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

**Status/ Comments:** The Regional Standards Committee is focusing on the review of 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. RSC is participating in the NERC Reliability Standards Manual revisions 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 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.



## 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.	<b>Latest Version:</b>	<b>Aug. 31, 2004</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Sept. 2007</b>
	<b>Status/ Comments:</b>	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 on the A-12, System Restoration Criteria document so that system restoration content is always maintained in a current NPCC document. 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", will also supplant the A-12 document.		

<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.	<b>Latest Version:</b>	<b>July 17, 2007</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>July 2010</b>
	<b>Status/ Comments:</b>	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.		



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Standards Program

#### TASK FORCE ON COORDINATION OF OPERATION

##### Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
<b>C-40</b>	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.	<b>Latest Version:</b>	<b>April 26, 2007</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>April 2010</b>
	<b>Status/ Comments:</b>	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>		
<b>A-13</b>	NPCC Inc. Verification of Generator Gross and Net Real Power Capability	Standards for rating and verifying net real power generating capability are established.	<b>Latest Version:</b>	<b>July 18, 2007</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>July 2010</b>
	<b>Status/ Comments:</b>	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".		



# RELIABILITY ASSESSMENT PROGRAM

## Reliability Standards Program

### TASK FORCE ON COORDINATION OF OPERATION

#### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>B-13</b>	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.	<b>Latest Version:</b>	<b>June 25, 1997</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Sept. 2007</b>
	<b>Status/ Comments:</b>	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.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-8</b>	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.	<b>Latest Version:</b>	<b>March 3, 1999</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>January 2005</b>
	<b>Status/ Comments:</b>	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> .	<b>Latest Version:</b>	<b>Jan. 29, 2004</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>January 2007</b>
	<b>Status/ Comments:</b> 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.	<b>Latest Version:</b>	<b>March 25, 1998</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Sept. 2005</b>
	<b>Status/ Comments:</b> 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.	<b>Latest Version:</b>	<b>Jan. 29, 2004</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>March 2007</b>
	<b>Status/ Comments:</b> 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.	<b>Latest Version:</b>	<b>May 15, 1997</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Sept. 2007</b>
	<b>Status/ Comments:</b>	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.	<b>Latest Version:</b>	<b>Jan. 11, 2007</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Jan. 2010</b>
	<b>Status/ Comments:</b>	A new version of the C-15 Document was approved by the TFCO on January 11, 2007.		





## RELIABILITY ASSESSMENT PROGRAM

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#### TASK FORCE ON COORDINATION OF OPERATION

##### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-20</b>	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.	<b>Latest Version:</b>	<b>May 19, 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>June 2008</b>
	<b>Status/ Comments:</b>	No need for revisions at this time.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-36</b>	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.	<b>Latest Version:</b>	<b>Aug. 28, 2005</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Jan. 2008</b>
	<b>Status/ Comments:</b>	No need for revisions at this time.		



# RELIABILITY ASSESSMENT PROGRAM

## Reliability Standards Program

### TASK FORCE ON COORDINATION OF PLANNING

#### Documents

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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>A-2</b>	Basic Criteria for Design and Operation of Interconnected Power Systems	Criteria are established for proper design and operation concerning Resource Adequacy and Transmission Capability.	<b>Latest Version:</b>	<b>May 6, 2004</b>
			<b>Frequency of Reviews:</b>	<b>4 years</b>
			<b>Next Review Date:</b>	<b>Nov. 2007</b>
			<b>Completion Date:</b>	<b>May 2008</b>
	<b>Status/ Comments:</b> Review of this document will be initiated immediately following completion of draft revised A-10.			



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Standards Program

#### TASK FORCE ON COORDINATION OF PLANNING

##### Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
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.	<b>Latest Version:</b>	<b>Feb. 6, 2006</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Dec. 2007</b>
	<b>Status/ Comments:</b>	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.		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
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."	<b>Latest Version:</b>	<b>Nov. 29, 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>June 2008</b>
			<b>Completion Date:</b>	<b>Dec. 2008</b>
	<b>Status/ Comments:</b>	The CP-8 Working Group submitted its proposed revisions to the TFCP on May 14, 2008. Draft revised B-7 will be posted in the NPCC Open Process Review for comments.		



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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.	<b>Latest Version:</b>	<b>Aug. 10, 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Aug. 2008</b>
			<b>Completion Date:</b>	<b>Dec. 2008</b>
	<b>Status/ Comments:</b>	C-16 was incorporated in Directory #7. TFCP will consider C-16 at its May 14, 2008 meeting.		



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Standards Program

#### TASK FORCE ON SYSTEM PROTECTION

##### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>A-4</b>	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.	<b>Latest Version:</b>	<b>Aug. 2004</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Dec. 2007</b>
	<b>Status/ Comments:</b>	Revised Criteria A-4 was approved by the members and distributed in early April. Draft Directory #3 which incorporated revised A-4 and B-23 was developed and submitted in the Open Process for comments through May 19, 2008. Comments received were incorporated. Directory #3 will be submitted for RCC approval at the May 28, 2008 RCC meeting. A-4 and B-23 will be retired following approval of Directory #3.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>A-5</b>	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.	<b>Latest Version:</b>	<b>May 2007</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>May 2010</b>
	<b>Status/ Comments:</b>	This document is scheduled for development into Directory No. 4 by December 2008.		



# RELIABILITY ASSESSMENT PROGRAM

## Reliability Standards Program

### TASK FORCE ON SYSTEM PROTECTION

#### Documents

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

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
<b>A-15</b>	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.	<b>Latest Version:</b>	<b>Aug. 23, 2007</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Aug. 2010</b>
	<b>Status/ Comments:</b>	The next review is due August 2010.		



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Standards Program

#### TASK FORCE ON SYSTEM PROTECTION

##### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>B-1</b>	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.	<b>Latest Version:</b>	<b>March 9, 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Nov. 2008</b>
	<b>Status/ Comments:</b>	The next review is scheduled for 2008. TFSP initiated review of this document at the May 2008 meeting.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>B-7</b>	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).	<b>Latest Version:</b>	<b>March 9, 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Nov. 2008</b>
	<b>Status/ Comments:</b>	TFSP has completed draft revisions to B-7. Draft revised B-7 will be posted in the NPCC Open Process Review for comments.		



# RELIABILITY ASSESSMENT PROGRAM

## Reliability Standards Program

### TASK FORCE ON SYSTEM PROTECTION

#### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>B-21</b>	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.	<b>Latest Version:</b>	<b>July 14, 2004</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>July 2007</b>
	<b>Status/ Comments:</b>	B-21 is under review. TFSP has completed the review of B-21 and will be posting it in the NPCC Open Process Review for comments.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>B-23</b>	Guide for Maintenance of Microprocessor-based Protection Relays	This document provides guidance for the maintenance of microprocessor-based relays.	<b>Latest Version:</b>	<b>July 14, 2004</b>
			<b>Frequency of Reviews:</b>	<b>3 Years</b>
			<b>Next Review Date:</b>	<b>July 2007</b>
	<b>Status/ Comments:</b>	The B-23 is now a part of Directory #3 which is being submitted for approval at the RCC at the May 28 meeting.		





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## Reliability Standards Program

### TASK FORCE ON SYSTEM PROTECTION

#### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>B-24</b>	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.	<b>Latest Version:</b>	<b>July 14, 2004</b>
			<b>Frequency of Reviews:</b>	<b>3 Years</b>
			<b>Next Review Date:</b>	<b>July 2007</b>
	<b>Status/ Comments:</b>	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.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-22</b>	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.	<b>Latest Version:</b>	<b>June 28, 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 Years</b>
			<b>Next Review Date:</b>	<b>June 2008</b>
	<b>Status/ Comments:</b>	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

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### TASK FORCE ON SYSTEM PROTECTION

#### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-30</b>	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.	<b>Latest Version:</b>	<b>June 28, 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 Years</b>
			<b>Next Review Date:</b>	<b>June 2008</b>
	<b>Status/ Comments:</b> The next review is scheduled for 2008. Scheduled for review beginning with the July TFSP meeting.			

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>UVLS List</b>	Review of the UVLS Database	TFSP will annually review and update the NPCC Undervoltage Load Shedding Database	<b>Latest Version:</b>	Sept. 2007
			<b>Frequency of Reviews:</b>	Annually
			<b>Next Review Date:</b>	Sept. 2008
	<b>Status/ Comments:</b> The next review is scheduled for September 2008.			



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Standards Program TASK FORCE ON SYSTEM STUDIES

#### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>B-4</b>	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."	<b>Latest Version:</b>	<b>March 2008</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>March 2011</b>
	<b>Status/ Comments:</b>	Revised B-4 was approved at the March 2008 meeting.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>B-10</b>	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.	<b>Latest Version:</b>	<b>Sept. 30 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Nov. 2008</b>
	<b>Status/ Comments:</b>	Not due for review until 2008.		



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Standards Program TASK FORCE ON SYSTEM STUDIES

#### Documents

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

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
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.	<b>Latest Version:</b>	<b>Sept. 2007</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Sept. 2010</b>
	<b>Status/ Comments:</b>	The next review of C-25 is due September 2010.		



## RELIABILITY ASSESSMENT PROGRAM

# Compliance Enforcement and Organization Registration and Certification Program

### Compliance Committee

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CC	NPCC Compliance Committee	The NPCC Compliance Committee (CC) shall be charged with providing independent policy input for the NPCC Compliance Monitoring and Enforcement Program (CMEP). The NPCC CMEP covers compliance assessment and enforcement of NERC Reliability Standards, Regional Reliability Standards and NPCC Reliability Criteria. 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 held a conference call on March 13, 2008 and meetings on April 22-23, 2008 and May 20-21, 2008. has had monthly meeting in November, 2007; December, 2007; January 2008 and February 2008. Among the items discussed at these meetings were: a) A revised Committee Scope; b) Development Approval of an internal Compliance Procedure (CP-01) that describes the NPCC implementation of the CMEP. This document is scheduled to be approved at the February 27-28 CC meeting.; c) Review of internal Compliance Procedures related to On-Site and Off-site audits and the Spot Check Program. d) development, by the CC Registration Subcommittee, of "criteria" for the registration of generators in NPCC; e) generic discussions of Notices of Alleged Violations and Notices of Confirmed Violations; f) A-10 Criteria audits to verify use of the methodology for determining elements of the NPCC Bulk Power System and ; g) integration of Document A-8 and associated other supporting documents into the NPCC CMEP; h) Audit of Canadian Compliance Programs; and i) integration of CIP Reliability Standards into NPCC CMEP.



## RELIABILITY ASSESSMENT PROGRAM

### Compliance Enforcement and Organization Registration and Certification Program

NPCC Compliance Committee

#### Documents

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

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
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.
<b>Status/ Comments:</b> 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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	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)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
CCC	Compliance and Certification Committee	Develop positions related to the NERC Compliance program.
	<b>Status/ Comments:</b>	Meeting scheduled for March 18-20June 10-11, 2008. Items to be discussed are future implementation of organization certification, 2008 2009 CMEP Implementation Plan, conduct of Regional Entity Compliance Program audits among other items.





## 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.
	<b>Status/ Comments:</b>	The 61 <sup>st</sup> NPCC System Operator Seminar was held on April 30-May 1, 2008. Topics included: 1) NPCC –Recent changes and highlights, 2) Review of Texas wind event 2/26/08, Area Wind 3) Presentation of System Events (Ontario) UPS SCADA failure, 4) System Events (New York): 1/30- NY-Ontario Niagara Ties: 2/2 reduction of 2,300 MW of NY power imports within one hour, 5) System Events (New England) Sable Island Gas Event with loss of 1,000 MW and Phase 2 to SW Connecticut New transmission--status & expectations, 6) NYISO Control Room, 7) 3 part communication exercise.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### BLACKOUT 2003 FOLLOW-UP

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
<b>ARR</b>	Area Restoration Reviews	Document and evaluate Area restoration performance following the August 14 <sup>th</sup> Blackout, assess extent and effectiveness of regional and interregional coordination and recommend potential Area Restoration Plan and/or NPCC Criteria revisions.
	<b>Status/ Comments:</b>	The Final Report of the IRCWG (CO-11), assessing the Areas' restoration experiences following the August 14 <sup>th</sup> 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.

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
<b>BSP</b>	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.
	<b>Status/ Comments:</b>	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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>NERC-BOT</b>	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.
	<b>Status/ Comments:</b>	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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	The CO-1 Working Group is meeting 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.



## RELIABILITY ASSESSMENT PROGRAM

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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	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.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	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.
	<b>Status/ Comments:</b>	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.
	<b>Status/ Comments:</b>	The 2008 Summer NPCC Reliability Assessment report was approved and was issued on May 1, 2008. Comments on the C-43 “NPCC Operational Review for the Integration of New Facilities” document are being reviewed and a revised version of the document will be provided to the TFCO for approval at the June 2008 meeting. A C-45, “Seasonal Assessment Scope and Methodology” document was completed but revisions are still needed. CO-12 will be addressed once the C-43 document revisions are completed.

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.
	<b>Status/ Comments:</b>	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.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF OPERATION

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>LESPWG</b>	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.
	<b>Status/ Comments:</b>	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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
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.	<b>Latest Version:</b>	<b>Nov. 29, 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Nov. 2008</b>
	<b>Status/ Comments:</b>	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.	<b>Latest Version:</b>	<b>April. 2007</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Jan. 2008</b>
	<b>Status/ Comments:</b>	The annual revision will be addressed by the TFCO in early 2008.		



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF PLANNING

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	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.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	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.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF PLANNING

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	The draft scope of work for the assessment will be presented to the TFCP in August 2008, for consideration of approval at the September 2008 RCC meeting.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	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 2009.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF PLANNING

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>CP-11</b>	<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.
	<b>Status/ Comments:</b>	The CP-11 Working Group is scheduled to meet on May 29-30 and June 19, 2008 to further review draft revised A-10. Comments and concerns related to consistent application of A-10 will be considered.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>DCWG</b>	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.
	<b>Status/ Comments:</b>	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.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF PLANNING

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



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF PLANNING

##### Surveys/Reviews

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

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

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

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



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF PLANNING

##### Surveys/Reviews

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

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



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF PLANNING

##### Surveys/Reviews

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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
SPS	Special Protection System List	This document lists Special Protection Systems on the System.	<b>Latest Version:</b>	<b>Jan. 2008</b>
			<b>Frequency of Next Review Date:</b>	<b>1 year Nov. 2008</b>
	<b>Status/ Comments:</b> The 2007 SPS list was finalized and posted on the web following the January 2008 TFSS meeting.			





## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM PROTECTION

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	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.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	Disturbance Monitoring Equipment Survey scheduled in 2008 was deferred until requirements are established.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### 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.	<b>Latest Version:</b>	<b>March 9, 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 Years</b>
			<b>Next Review Date:</b>	<b>Nov. 2008</b>
	<b>Status/ Comments:</b>	The review was initiated at the March 2008 TFSP meeting.		



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM PROTECTION

##### Surveys/Reviews

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>RPS</b>	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).	<b>Latest Version:</b>	<b>Jan. 2008</b>
			<b>Frequency of Reviews:</b>	<b>3 months</b>
	<b>Status/ Comments:</b>	At each meeting, the TFSP discusses protection system changes, including SPS installations and modifications, as proposed by entities within NPCC.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>RPS</b>	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.	<b>Latest Version:</b>	<b>Jan. 2008</b>
			<b>Frequency of Reviews:</b>	<b>3 months</b>
	<b>Status/ Comments:</b>	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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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. 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.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM STUDIES

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



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM STUDIES

##### Surveys/Reviews

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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>DARD</b>	Review of Dynamic Analysis Recording Devices	This review summarizes the characteristics of recording devices used to capture power system dynamic phenomena.	<b>Latest Version:</b>	<b>June 4, 1999</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>June 2004</b>
	<b>Status/ Comments:</b>	This review has been incorporated into the development of Document A-15 and B-26 by the Task Force on System Protection. This item is no longer required and will be removed in future updates.		



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM STUDIES

##### Surveys/Reviews

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>MATR</b>	Maritimes Area Transmission Review	Review of Maritimes Area (New Brunswick and Nova Scotia) future transmission plans (4-6 years out).	<b>Latest Version:</b>	<b>Nov. 2007</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Nov. 2008</b>
	<b>Status/ Comments:</b>	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.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>NETR</b>	New England Area Transmission Review	Review of New England Area future transmission plans (4-6 years out).	<b>Latest Version:</b>	<b>Nov. 2007</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Nov. 2008</b>
	<b>Status/ Comments:</b>	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.		



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM STUDIES

##### Surveys/Reviews

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
NYTR	New York Area Transmission Review	Review of New York Area future transmission plans (4-6 years out).	<b>Latest Version:</b>	<b>Nov. 2007</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Nov. 2008</b>
	<b>Status/ Comments:</b>	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 will be submitted for RCC approval at the May 2008 Meeting. An Intermediate Review will be conducted in 2008.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
ONTR	Area Transmission Review	Review of Ontario Area future transmission plans (4-6 years out).	<b>Latest Version:</b>	<b>May 2007</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Dec. 2008</b>
	<b>Status/ Comments:</b>	Approval of the 2006 Ontario Intermediate Review was attained at the September 6, 2007 RCC meeting. The 2007 Ontario Comprehensive Area Transmission Review was approved at the March 5, 2008 RCC meeting. An Interim Review will be conducted in 2008.		





## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM STUDIES

##### Surveys/Reviews

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
QATR	Québec Area Transmission Review	Review of Québec Area future transmission plans (4-6 years out).	<b>Latest Version:</b>	<b>Nov. 2007</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Dec. 2008</b>
	<b>Status/ Comments:</b>	2006 Interim Review approved at the November 16-17, 2006 TFSS meeting. A Comprehensive review was conducted in 2007 and will be presented for approval at the May 28, 2008 RCC meeting. An Interim Review will be conducted in 2008.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
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.	<b>Latest Version:</b>	<b>Nov. 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Completion Date:</b>	<b>Nov. 2008</b>
	<b>Status/ Comments:</b>	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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>ERAG</b>	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 April 23-24, 2008. Topics addressed included the MMWG work status (2008 base case development schedule status, MMWG case quality), the status of the work by Power Technologies Labs on the steady state model data base, ERAG involvement with system event modeling and analysis, impact of future nuclear plant additions and the status of the 2008 Summer Interregional Assessments in the 3 forums.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### RFC - NPCC Working Group

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

**Status/ Comments:** The RFC-NPCC 2008 Summer Assessment is being completed and the report will be issued in mid-May. Following the issue of the 2008 Summer assessment report work will begin to plan for a 2013 RFC-NPCC system assessment.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>RAS</b>	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.
	<b>Status/ Comments:</b>	The 2008 Summer Reliability Assessment report was issued by NERC on May 14, 2008.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### OTHER

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>Inter-ISO</b>	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.
	<b>Status/ Comments:</b>	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. The last stakeholder meeting was held December 1 <sup>4</sup> 2007 at the Sheraton Bradley Airport in Windsor Locks, CT. The next meeting is scheduled for June 27, 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
	<b>Status/ Comments:</b>	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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
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.	<b>Latest Version:</b>	<b>Sept. 2001</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Sept. 2005</b>
	<b>Status/ Comments:</b>	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.
	<b>Status/ Comments:</b>	A successful Cyber Security Workshop was held in Albany, NY in May 2008, and was coordinated with the Spring 2008 Compliance Workshop.
		<b>Last Workshop:</b> 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.
	<b>Status/ Comments:</b>	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.
		<b>Completion Date:</b> December 2008





## RELIABILITY ASSESSMENT PROGRAM

### Situation Awareness and Infrastructure Security Program

#### TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Completion Date:</b>
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
	<b>Status/ Comments:</b>	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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Completion Date:</b>
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 2008
	<b>Status/ Comments:</b>	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

<u>Item</u>	<u>Name</u>	<u>Assignment</u>	
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.	<b>Completion Date:</b> December 2008
	<b>Status/ Comments:</b>	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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
TFIST	Task Force Scope	This document outlines the Task Force on Infrastructure Security and Technology scope of activities.	<b>Latest Review</b>	<b>Sept. 2005</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Sept. 2008</b>
	<b>Status/ Comments:</b>	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

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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>ROC</b>	Review On-Line Computer System Status Reports	Review of member on-line computer system statuses and plans, as required by Document B-12.	<b>Latest Review:</b>	<b>March 2004</b>
			<b>Frequency of Reviews:</b>	<b>As needed</b>
	<b>Status/ Comments:</b>	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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>General</b>	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.
	<b>Status/ Comments:</b>	The NPCC 2007 General Meeting was held September 26-27, 2007 in Toronto, Ontario. The NPCC 2008 General Meeting is scheduled for September 24-25, 2008 at Saratoga Springs, New York. A preliminary Agenda has been formulated, and invited speakers approached.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>Gov/Reg</b>	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.
	<b>Status/ Comments:</b>	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.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>PI</b>	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
	<b>Status/ Comments:</b>	A media teleconference was held on May 1, 2008 to present the results of the NPCC 2008 Summer Reliability Assessments and answer any questions. NPCC has been participating in monthly communications coordination calls with NERC and the Regions.