



**RCC Meeting  
March 5, 2008  
Agenda Item 9.11**

**Reliability Assessment Program  
(NRAP)  
STATUS REPORT**  
*Prepared for the  
Reliability Coordinating Committee  
March 5, 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.

**Current Status:**

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. 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 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 original Regional Standard Development Procedure and RSC will be involved with implementation. Recently, due to the merger of NPCC and CBRE into NPCC Inc. the delegation agreement and RSC revised Regional Standards Development Procedure were refilled with the FERC to reflect the new organizational structure. The revised Scope for the RSC has been approved by the NPCC BOD at their September 19, 2007 meeting to reflect additional duties from the CP9 working group.



## 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 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 <sup>rd</sup> RCC approved draft of Document A-03 will be used in the Directory effort. There has been no recent action on A-03 since the A-12 document is still being developed.		

<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.		



## 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 will go to the RCC for technical approval at the March 5, 2008 meeting.		



# 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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-9</b>	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.			

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-11</b>	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.			

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-12</b>	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.			



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### 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 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.	<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

### 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.	<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.		

<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.	<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>	The TFCP prepared revisions to this document in 2004, and it has received final member approval.		

<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>	NPCC will begin an early review of this document sometime in 2008.		



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Standards Program

#### TASK FORCE ON COORDINATION OF PLANNING

##### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>A-7</b>	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. It is expected that the revised glossary will be sent to the RCC for approval in 2008.		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>B-8</b>	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>	As a result of the TFCP's efforts to increase NPCC study efficiency, CP-8 will begin another revision of this document in 2008 to address the issues once identified by the TFCP and RCC.		



# RELIABILITY ASSESSMENT PROGRAM

## Reliability Standards Program

### TASK FORCE ON COORDINATION OF PLANNING

#### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-16</b>	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>	The TFCP has approved a revision to the document.		



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Standards Program

#### TASK FORCE ON SYSTEM PROTECTION

##### Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
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.	<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>	TFSP has completed the review of A-4. Draft revised A-4 was submitted to the RCC for review at its meeting on November 27-28, 2007. Open Process Review of A-4 was completed. All comments received have been addressed. Revised A-4 is being submitted to the RCC for approval. This document will be incorporated Directory No. 3, scheduled to be developed by July 2008.		

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

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

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

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
B-1	Guide for the Application of Autoreclosing to the Bulk Power System	This document establishes guidelines for automatic reclosing to facilitate restoration of the system to normal following automatic tripping of transmission facilities.	<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.		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
B-7	Automatic Underfrequency Load Shedding Program Relaying Guideline	This guideline establishes requirements for application and testing of underfrequency threshold relays that are necessary to accomplish the objectives of the NPCC automatic underfrequency load shedding program established in the Emergency Operation Criteria (Document A-3).	<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 is presently conducting the B-7 review. TFSP will consider posting draft revised B-7 in the NPCC Open Process Review following its meeting in March 2008.		



## 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>	<b>Guide for Maintenance of</b> 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 Review was initiated in March 2007. If draft revised A-4 is approved with the new requirements for microprocessor-based protection maintenance, TFSP will develop guidance on continuous monitoring for microprocessor-based relays.		





## RELIABILITY ASSESSMENT PROGRAM

### 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

## Reliability Standards Program

### 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.			

<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>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>	Draft revised B-4 was posted in Open Process Review for comments. All comments received have been addressed. TFSS will seek approval of draft revised B-4 at 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.  Note: Member Representatives shall be advised of approvals by the Reliability Coordinating Committee of applications for exclusions.	<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

### Reliability Standards Program

#### TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

#### Documents

<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.	<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

# Compliance Enforcement and Organization Registration and Certification Program

### Compliance Committee

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

**Current Status:**

The NPCC Compliance Committee 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 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) development, by the CC Registration Subcommittee, of "criteria" for the registration of generators in NPCC; d) generic discussions of Notices of Alleged Violations and Notices of Confirmed Violations and e) integration of Document A-8 and associated other supporting documents into the NPCC CMEP.



## RELIABILITY ASSESSMENT PROGRAM

# Compliance Enforcement and Organization Registration and Certification Program

NPCC Compliance Committee

### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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>Current Status:</b>	Document under review-to be integrated into overall NPCC Compliance Program

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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>Current Status:</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>Current Status:</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>Current Status:</b>	Meeting scheduled for March 18-20, 2008. Items to be discussed are future implementation of organization certification, 2008 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 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.
	<b>Current Status:</b>	The following are two work plan items for CO-2 in 2008 and 2009: 1) In cooperation with NERC, establish any necessary training requirements resulting from entity certification. 2) Review opportunities to share training among the NPCC Reliability Coordinator areas. This includes opportunities to share training material and training sessions. CO-2 will meet in late March 2008.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### BLACKOUT 2003 FOLLOW-UP

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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<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>Current Status:</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 (to be presented at the March 5, 2008 RCC meeting).



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

#### BLACKOUT 2003 FOLLOW-UP

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

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CO-1	Control Performance	The Working Group insures coordination between adjacent control areas in establishing interchange schedules, Working Group reviews time error correction procedures, and monitors the conformance of the Areas with NPCC Control Performance Criteria and Operating Reserve Criteria. At the request of the Task Force on Coordination of Operation (TFCO), it conducts investigations of control performance problems.

**Current Status:** The CO-1 Working Group 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.

The Working Group is assessing the implications of the August 4th frequency excursion and generator governor response during this event.



## 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 Inc. Regional Reliability Plan and the Registration and Certification of entities to achieve conformance with NPCC Inc. criteria and NERC Standards.
	<b>Current Status:</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>Current Status:</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

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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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>Current Status:</b>	The C-43 document “NPCC Operational Review for the Integration of New Facilities” for review of operational readiness for the new facilities was posted in NPCC Open Process with a comment ending date of March 13, 2008. No comments have been received yet. The 2008 Summer NPCC Reliability Assessment work is underway. Load and Capacity Projections are being developed by each NPCC Area.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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>Current Status:</b>	The C-44 Document, “NPCC, Inc. 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>Current Status:</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>		
<b>TFCO</b>	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>Current Status:</b>	The New York Interim Review of Resource Adequacy and the Ontario Interim Review of Resource Adequacy were approved at the November 2007 RCC meeting. The 2007 New England Interim Review of Resource Adequacy and the 2007 Quebec review of Resource Adequacy were approved by the TFCP and have been submitted for approval at the March 5, 2008 RCC meeting. The 2007 Maritimes Comprehensive Review of Resource Adequacy was approved by the TFCP and has been submitted to for approval at the March 5, 2008 RCC meeting. The TFCP approved the CP-8 2008 Work Plan at its February 2008 meeting.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
CP- 2008S	Summer 2008 Multi-Area Probabilistic Reliability Assessment	Assess NPCC Inc. 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>Current Status:</b>	The Scope and Schedule for the 2008 Summer Multi-Area Probabilistic Reliability Assessment was approved at the November 2007 TFCP meeting and has been submitted for approval at the November 2007 RCC meeting. Preliminary results will be presented at the March 5, 2008 RCC meeting.



## 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- 2007W</b>	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.
	<b>Current Status:</b>	The TFCP approved the Scope and Schedule for the Winter 2007-08 Multi-Area Probabilistic Reliability Assessment at its August 22, 2007 meeting; a draft report has been prepared including comments received from the TFCP and the RCC review; the TFCP is expected to approve the report on November 21, 2007. Presentation of the results given at the November RCC meeting. The report was approved and has been posted on the NPCC web site.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>CP - TIE</b>	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>Current Status:</b>	A Final Report covering the 2007 to 2009 period was approved at the November 2007 RCC meeting. A status report for the 2010 – 2011 period was also presented, showing the impact that a proposed change in methodology proposed by ISO-NE has on the results. In December, 2007, the CP-8 Working Group further reviewed the 2010 – 2011 results, and concluded that the proposed methodology change did not materially change the results. The CP-8 Working Group agreed to review the methodology in 2008, prior to the start of the next Tie Benefits study scheduled to begin in 2009. The results for the 2010 -2011 period was posted on the NPCC web site as an addendum to the 2007 – 2009 report.



## 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 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.
	<b>Current Status:</b>	The CP-11 Working Group will finalize the response to those comments received in the Open Process Review of A-10 at its meeting on February 26, 2008. CP-11 is also working on revising Documents A-2, A-10 and A-7.

<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>	DOE's EIA instituted its Form 411 internet based data collection system. 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. A meeting by DOE is planned in early December 2007 to outline 2008 reporting requirements. The EIA finalized its 2008 Form 411 reporting requirements in February, 2008. Response to the data request is due March 31, 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>		
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. 2004</b>
			<b>Frequency of Next Review Date:</b>	<b>3 years 2007</b>
	<b>Status/ Comments:</b> The 2007 Maritimes Comprehensive Review of Resource Adequacy was approved by the TFCP and has been submitted to for approval 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>
	<b>Status/ Comments:</b> Approval of the New England 2007 Interim Review of Resource Adequacy will be sought 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 TFCP and 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 will be submitted for approval 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 TFCP and 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>
<b>PSMP</b>	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>Current Status:</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>
<b>SEDRWG (SP-6)</b>	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>Current Status:</b>	SP-6 will conduct another Disturbance Monitoring Equipment Survey in 2008.



## 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 next review is scheduled for 2008.		



## RELIABILITY ASSESSMENT PROGRAM

### 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).	<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.		

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.	<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.

**Current Status:** 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.

**Current Status:** 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 will be presented at the March 2008 RCC Meeting. SS-38 is also completing development of a whitepaper on governor modeling. The paper will be presented for approval at the May 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>	TFSS Scope was approved at the March 14, 2007 RCC meeting.		



## 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. Modifications to the NPCC UFLS Program are expected.		

<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>	The SS-38 Working Group will be asked to assist the SP-6 Working Group in conducting the Survey 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>		
<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. 2006</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Nov. 2007</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.		

<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.		





## 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. 2006</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Nov. 2007</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.		

<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 2006</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Dec. 2007</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 will be presented for approval at the March 5, 2008 RCC meeting.		



## 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. 2006</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>Dec. 2007</b>
	<b>Status/ Comments:</b>	2006 Interim Review approved at the November 16-17, 2006 TFSS meeting. A Comprehensive review was conducted in 2007. Preliminary result was presented at the January 2008 TFSS meeting.		

<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.
	<b>Status/ Comments:</b>	The ERAG Management Committee's next meeting was held on February 26-27, 2008. Topics addressed included the MMWG work status, the status of the work by Power Technologies Labs on the steady state model data base, billing of ERAG items to the Regions, 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.
	<b>Current Status:</b>	The RFC-NPCC 2008 Summer Assessment is underway. Transfer simulation cases and contingency files are being set up.



## RELIABILITY ASSESSMENT PROGRAM

### Reliability Assessment and Performance Analysis Program

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
RAS	Reliability Assessment Subcommittee (RAS)	Conduct an annual review of the overall reliability of the existing and planned generation and transmission systems of the eight Regional Reliability Entities for the ten year horizon. Conduct semiannual seasonal assessments of the overall reliability of the existing generation and transmission systems of the eight Regional Reliability Entities.
	<b>Current Status:</b>	The 2008 Summer Reliability Assessment is underway. The request to the NPCC Areas was made in mid-January and the information and draft assessment is due to RAS in late March.



## 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>Current Status:</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.



## 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
	<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 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>	The next TFIST workshop is planned for May 2008, covering the topics of Cyber security (CIP-003 – CIP – 009) and the proposed Regional Risk methodology Guideline. TFIST coordinating this workshop with the first 2008 Compliance workshop.
		<b>Last Workshop:</b> 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.
	<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.
		<b>Completion Date:</b> December 2007





## 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

Item	Name	Assignment	Completion Date:
IST-5	TFIST Physical Security Working Group	Provide a forum to identify, discuss and advance the use of Physical Security for the reliable operation of the NPCC Bulk Power System. The Physical Security Working Group (IST-5) will also support TFIST in their work on issues related to Physical Security.	December 2008
	<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.	



## 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 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>Nov. 2007</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.

<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 September 25, preceding the NPCC 2007 General Meeting. The next meeting is scheduled for March 4, 2008.

<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 4, 2007 to present the results of the NPCC 2007 Summer Reliability Assessments and answer any questions. NPCC has been participating in monthly communications coordination calls with NERC and the Regions.