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**RCC Meeting
September 6, 2006
Agenda Item 3.14**

**Northeast Power Coordinating Council
NPCC Reliability Assessment Program
(NRAP)
STATUS REPORT**

*Prepared for the
Reliability Coordinating Committee
September 6, 2006*

Distributed to:

Members, Reliability Coordinating Committee
Members, Compliance Monitoring and Assessment Subcommittee
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, NPCC Working Groups
and
NPCC Staff

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NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

BLACKOUT 2003 FOLLOW-UP

Working Groups/Ad Hoc Assignments

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

Item	Name	Assignment	Completion Date(s):
BSP	Blackout Study Plan	Building on the Event Replication Study, perform additional analysis to evaluate possible risks for other rerating conditions, planned system changes, and possible system design changes.	Task 1 Completed Task 2 Completed Task 3 Completed Task 4 Completed Task 5 On-Going Task 6 On-Going
Status/ Comments:		Tasks 1 and 2 completed. Extensive work was done through sensitivity testing to establish proper pre-islanding conditions (load power factor, load dynamic and proper reactive control action) that match the actual conditions. Sequence of events times have been corrected based on simulations. Tasks 1-4 (all events leading up to an including the separation of the system into islands, and analysis of islanding behavior) has been summarized in the draft report, "NPCC August 14, 2003 Northeast Blackout Study" and was approved at the November 2005 RCC meeting. The Blackout Study Recommendations Working Group's report and action plan was presented and approved at the March 2006 RCC meeting.	
NPCC Contact:		Donal Kidney	

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

BLACKOUT 2003 FOLLOW-UP

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
NERC-BOT	NERC Board Of Trustees Recommendations	Evaluate recommendations included in the report “August 14, 2003 Blackout: NERC Actions to Prevent and Mitigate the Impacts of Future Cascading Blackouts” for applicability within NPCC.	Completion Date:	December 2006
	Status/Comments:	Recommendation matrix updated and status report reviewed by Task Force Chairs meetings. Quarterly summary status reports posted on NPCC public web site; detailed status reports posted on the NPCC members’ web site. NPCC’s BSRWG recommendations approved by the RCC in March 2006 have been included in the status reports for tracking follow-up and completion.		
	NPCC Contact:	Phil Fedora		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

COMPLIANCE MONITORING AND ASSESSMENT SUBCOMMITTEE

Documents

Item	Name	Assignment	Latest Version:	
A-8	Reliability Compliance and Enforcement Program	The process and requirements are defined for compliance assessment and enforcement of selected reliability criteria and standards.	January 30, 2006	1 year November 2006
Status/ Comments:		The next review date is November 2006.		
NPCC Contact:		Quoc Le		

Item	Name	Assignment	Latest Version:	
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.	June 1, 2005	1 year November 2006
Status/ Comments:		The next review date is November 2006.		
NPCC Contact:		Quoc Le		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

COMPLIANCE MONITORING AND ASSESSMENT SUBCOMMITTEE

Documents

Item	Name	Assignment		
C-32	Review Process for NPCC Reliability Compliance Program	This Procedure establishes the process CMAS uses to verify Area compliance to the standards that comprise the NPCC Reliability Compliance Program (RCP) or its successor program.	Latest Version:	November 19, 2004
			Frequency of Reviews:	3 years
			Next Review Date:	November 2007
	Status/ Comments:	The next review date is November 2007.		
	NPCC Contact:	Quoc Le		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Working Groups/Ad Hoc Assignments

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
CO-13	Available Transfer Capability Working Group	Review the procedures developed by the Regions (or sub-regions) for determining ATC to ensure that the procedures are in concert with the ATC Principles in NERC's June 1996 Available Transfer Capability Definitions and Determination report.	2006 Budget:	\$5,000
			Expense to Date:	\$1,300
			Completion Date:	December 2006
	Status/ Comments:	The CO-13 Working Group has coordinated with the Mid-West System Operator to pull in TCC-ATC information to the NPCC web-site, and also track and participate in the NERC Long-Term ATC/AFC Task Force proceedings. The Working Group has also finalized the Regional ATC/TTC Methodology, a document required for compliance with NERC "Version 0" Reliability Standards. A letter from the TFCO to the CO-13 Working Group was issued specifying ATC-TCC web changes to meet OASIS and NERC Version "0" compliance. The Working Group has also completed enhancements to the NPCC ATC/TTC webpage to conform to the new NERC Reliability Standards, FERC Orders, and also to meet member needs. CO-13 is also reviewing and commenting on developing NERC ATC/TTC/TRM/CBM Standards as they develop. The group is conducting further enhancements to the website to incorporate Ontario data and meet any arising needs from the NERC Version 1 standards as they are developed.		
	NPCC Staff Reference:	Guy Zito TFCO Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
CO-1	Control Performance Working Group	The Working Group insures coordination between adjacent control areas in establishing interchange schedules, 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, it conducts investigations of control performance problems.	2006 Budget:	\$25,000
			Expense to Date:	\$7,600
			Completion Date:	December 2006
	Status/ Comments:	<p>The Working Group CO-01 has completed its assessment of the technical feasibility of incorporating dispatchable load as part of synchronized operating reserve. The conclusions of the Working Group will be included in a white paper being developed by the Task Force on Coordination of Operation for submission to the Reliability Coordinating Committee.</p> <p>Following the implementation of Regional Reserve Sharing by the NPCC Areas, the CO-1 Working Group is assessing the effectiveness of the program over the course of the year and will prepare a summary report for the Task Force on Coordination of Operation at the end of the calendar year 2006.</p>		
	NPCC Contact:	Jerry Mosier		
	Reference:	TFCO Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Working Groups/Ad Hoc Assignments

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
CO-2	Dispatcher Training Working Group	The Working Group establishes a program for system dispatcher training relating to NPCC inter-Area matters, criteria, terminology, policies and operating instructions. It prepares and presents material at dispatcher training sessions, exchanges information on internal dispatcher training methods. The Working Group CO-2 also evaluates and propose new techniques and training aids as they become available.	2006 Budget:	\$17,500
			Expense to Date:	\$17,022
			Next Seminar:	Fall 2006
	Status/ Comments:	The CO-2 Working Group is coordinating the development of operator training programs among the NPCC Areas to ensure that the programs will meet the new NERC Program requirements for operator certification and re-certification. With the new program operator re-certification will come only through attainment of Continuing Education Hours (CEHs) and not through testing. Re-certification will be required every 3 years versus the present 5 years. The NPCC training programs will need to provide enough opportunities for operators to get sufficient CEHs. CO-2 is meeting jointly with CO-8 on Aug. 29-30, 2006 to review the status of training programs in each NPCC Area. CO-2 is beginning preparation for the 2006 Fall Operators Seminar that will be held on October 26-27, 2006 at Niagara Falls, Ontario.		
	NPCC Contact:	Paul Roman		
	Reference:	TFCO Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Working Groups/Ad Hoc Assignments

Item	Name	Assignment	2006 Budget:	
CO-7	Operational Review Team Working Group	To enhance the relationship between the control room personnel and NPCC, and to insure a continued understanding and effective implementation of the criteria and guides.		\$15,000
			Expense to Date:	\$12,450
			Completion Date:	December 2006

Status/ Comments: CO-07, at the direction of the TFCO, is in the process of replacing the NPCC Document B-09 “Guide for Rating Generating Capability” to an NPCC “A” criteria document (A-13) and that will subsequently become a Regional Standard. The objective is to address the content of both the NERC standards MOD24 “Verification of Generator Gross and Net Real Power Capability” and MOD25 “Verification of Reactive Power Capability” as soon as possible. The priority is to cover requirements R1 and R2 of MOD-024, which have been in effect since April 1, 2006. CO-7 has acquired additional expertise from its generator members as necessary, to address generator representation. CO-7 was also directed to provide the TFCO with a summary of the comments provided in the most recent version of the “mapping document” that pertains to TFCO as the responsible entity for ensuring that NPCC’s documentation addresses all of the requirements of the NERC Reliability Standards. This work is currently in progress.

NPCC Contact: Jim Hartwell
Reference: TFCO Workplan

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Working Groups/Ad Hoc Assignments

Item	Name	Assignment	2006 Budget:	\$25,000
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 TFCO in their work on issues related to system security and the operation of the ISOs, and provide advice to the TFCO, as requested.	Expense to Date: Completion Date:	\$9,150 December 2006
	Status/ Comments:	<p>The CO-08 Working Group has posted for public comment through the NPCC Open Process a revised NPCC Document C-15, "Procedures for Solar Magnetic Disturbances on Electric Power Systems." The new document is scheduled for release in September of 2006.</p> <p>The CO-08 Working Group continues to: 1) develop draft revisions of NPCC Documents B-03, "Guidelines for Inter-AREA Voltage Control," B-13, "Guide for Reporting System Disturbances," and C-13, "Operational Planning Coordination"; 2) work with the CO-01 Working Group to identify the information and data exchange necessary among the Areas to realize counter-flow SAR shares in the NPCC program of Shared Activation of Reserve ("negative SAR"); and, 3) to coordinate with the CO-02 Working Group to ensure that each NPCC Area is integrating the necessary training to permit the transition to the accumulation of continuing education hours for the renewal of NERC operator certification.</p>		
	NPCC Staff Reference:	Jerry Mosier TFCO Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
CO-10	Operational Tools Working Group	The Operational Tools Working Group 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.	2006 Budget:	\$15,000
			Expense to Date:	\$9,550
			Completion Date:	December 2006

Status/ Comments: The CO-10 Working Group: 1) is investigating potential web services applications; 2) is participating in the analysis of the NERC Real time Best Practices Task Force survey of operating tools data; 3) has made additional revisions as suggested by TFCO to the re-written C-17 document which will be posted for NPCC Open Process review; 4) is continuing work to establish use of Facilitated Transaction Checkout in all NPCC Areas, PJM and Midwest ISO; and, 5) is following developments regarding phasor measurement application tools. The next CO-10 meeting is scheduled for Sept. 12-13, 2006.

NPCC Staff: Paul Roman
Reference: TFCO Workplan

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION Working Groups/Ad Hoc Assignments

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.	2006 Budget:	\$15,000
			Expense to Date:	\$2,400
			Completion Date:	December 2006
Status/ Comments:		The 2006/07 Winter Assessment will be initiated in late August.		
NPCC Staff:		Paul Roman		
Reference:		TFCO Workplan		

Item	Name	Assignment		
IRCWG (CO-11)	Inter-Control Area Restoration Coordination Working Group	IRCWG addresses the issue of ensuring appropriate operation of key system restoration facilities and their critical components.	2006 Budget:	\$15,000
			Expense to Date:	\$11,800
			Completion Date:	December 2006
Status/ Comments:		The Working Group has submitted to the TFCO a new NPCC Type A Criterion, NPCC Document A-12, "System Restoration Criteria," to address the fundamental requirements of restoration. The draft is currently scheduled to be presented to the Reliability Coordinating Committee at its meeting of November 28 and 29, 2006.		
		The CO-11 Working Group completed the new Type C Procedure, NPCC Document C-35, and "NPCC Inter-Control Area Power System Restoration Reference Document." Document C-35 was approved by the NPCC Task Force on Coordination of Operation as an NPCC Type C Procedure on March 14, 2006.		
NPCC Staff:		Jerry Mosier		
Reference:		TFCO Workplan		

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TASK FORCE ON COORDINATION OF OPERATION

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
LESPWG	Lake Erie Security Process Working Group	The Lake Erie Security Process Working Group was formed to address the charge stemming from the Northeast Power Coordinating Council Security Process Plan. The Lake Erie Security Process has established Lake Erie line loading relief procedures developed by representatives from Ontario Hydro, the New York Power Pool, the Pennsylvania-New Jersey-Maryland Interconnection Association and the Michigan Electric Coordinated Systems.	2006 Budget:	\$5,000
			Expense to Date:	\$0
			Completion Date:	December 2006
	Status/ Comments:	No recent activity.		
	NPCC Staff Reference:	Paul Roman TFCO Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Documents

Item	Name	Assignment		
A-3	Emergency Operation Criteria	Objectives, principles and requirements are presented that govern the Areas in formulating plans and procedures to be followed in an emergency or during conditions which could lead to an emergency.	Latest Version:	November 14, 2002
			Frequency of Reviews: Next Review Date:	3 years August 2007
	Status/ Comments:	The emphasis of the A-03 changes has shifted to obtain consensus on items considered without significant dissent, as directed by the RCC. The earlier changes were included in a version of A-03 that was issued for Open Process review on July 18. The deadline for comments is Sept. 1, 2006.		
	NPCC Contact:	Paul Roman		

Item	Name	Assignment		
A-6	Operating Reserve Criteria	Objectives, principles and requirements are presented that governs the amount, availability and distribution of operation reserve.	Latest Version:	February 6, 2006
			Frequency of Reviews: Next Review Date:	3 years November 2008
	Status/ Comments:	TFCO is continuing to examine whether changes need to be made to the requirements for synchronized reserve. The CO-1 Working Group has done research on this issue and a technical paper outlining synchronized reserve characteristics has been developed to assist in the examination.		
	NPCC Contact:	Paul Roman		

Item	Name	Assignment		
B-3	Guidelines for Inter-Area Voltage Control	Procedures and principles are established for occasions where a deficiency or an excess of reactive power can affect bulk power system voltage levels in a large portion of an Area or in two adjacent Areas.	Latest Version:	November 6, 1997
			Frequency of Reviews: Next Review Date:	3 years June 2005
	Status/ Comments:	The CO-08 Working Group has reviewed the document, and a revised draft will be submitted for approval at the TFCO's September 2006 meeting.		
	NPCC Contact:	Paul Roman		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Documents

Item	Name	Assignment		
B-9	Guide for Rating Generating Capability	Standards for rating and verifying net generating capability are established.	Latest Version:	November 1998
			Frequency of Reviews:	3 years
			Next Review Date:	June 2005
	Status/ Comments: The Working Group CO-07 is reviewing the subject draft, particularly focusing on addressing the requirements directed through 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."			
	NPCC Contact:	Jim Hartwell		

Item	Name	Assignment		
B-13	Guide for Reporting System Disturbances.	This document establishes requirements and guidelines for reporting the details of a system disturbance to enable assessments and reviews of those disturbances which impact a significant part of one Area or which have inter-Area implications.	Latest Version:	June 25, 1997
			Frequency of Reviews:	3 years
			Next Review Date:	June 2005
	Status/ Comments: NPCC Document B-13, "Guide for Reporting System Disturbances," is being revised by the Working Group CO-08 to incorporate the new reporting of IROL and cyber security violations. The B-13 Document will be finalized by the CO-08 Working Group and be submitted for approval at the TFCO's November 8-9, 2006 meeting.			
	NPCC Contact:	Paul Roman		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Documents

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

Item	Name	Assignment	Latest Version:	
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> .	January 29, 2004	
			Frequency of Reviews:	3 years
			Next Review Date:	January 2007
	Status/ Comments:	No need for any revisions at this time.		
	NPCC Contact:	Paul Roman		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Documents

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

Item	Name	Assignment	Latest Version:	
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.	January 29, 2004	
			Frequency of Reviews:	3 years
			Next Review Date:	March 2007
	Status/ Comments:	No need for any revisions at this time.		
	NPCC Contact:	Paul Roman		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Documents

Item	Name	Assignment		
C-13	Operational Planning Coordination	Procedures are established to coordinate the exchange of operational data, provide for the notification of planned facility outages among the Areas, and provide for formal communications among the Areas in anticipation of a period of capacity shortage or light load conditions. The document also defines the procedures for the routine NPCC conference call held weekly among the Areas.	Latest Version: Frequency of Reviews: Next Review Date:	March 15, 1997 3 years June 2005
	Status/ Comments:	The Working Groups CO-08 and CO-12 have reviewed the document, and a revised draft will be submitted for approval at the TFCO's September 2006 meeting. The Procedure has been updated to incorporate the new daily morning conference call among the NPCC Areas, and it has streamlined the Weekly Conference Call.		
	NPCC Contact:	Paul Roman		
Item	Name	Assignment		
C-15	Procedures for Solar Magnetic Disturbances on Electrical Power Systems	Procedures are established providing for the reporting channels and information available to the operator during solar alerts and suggesting measures that may be taken to mitigate the impact of a solar magnetic disturbance.	Latest Version: 2005 Budget: Expense to Date: Frequency of Reviews: Next Review Date:	March 2003 \$20,000 \$20,000 3 years March 2006
	Status/ Comments:	The CO-08 Working Group has concluded the triennial review of NPCC Document C-15, "Procedures for Solar Magnetic Disturbances on Electric Power Systems." The revised draft is presently posted for public comment through the NPCC Open Process; comments will be received through September 16, 2006.		
	NPCC Staff Reference:	Jerry Mosier TFCO Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Documents

Item	Name	Assignment		
C-20	Procedures During Abnormal Operating Conditions	This Procedure complements the Emergency Operation Criteria by establishing specific instructions for the System Operator during emergency conditions in a NPCC Area or Areas.	Latest Version:	March 1999
			Frequency of Reviews:	3 years
			Next Review Date:	June 2008
	Status/ Comments:	No need for revisions at this time.		
	NPCC Contact:	Paul Roman		

Item	Name	Assignment		
C-36	Procedures for Communications During Emergencies	These Procedures direct NPCC's implementation of the NERC Interregional Emergency Telephone Network. The NERC Interregional Emergency Telephone Network is utilized to convey to other reliability authorities in North America system conditions that could threaten the reliability of the interconnected bulk power supply system or the imminent shedding of firm load.	Latest Version:	January 28, 2004
			Frequency of Reviews:	1 year
			Next Review Date:	January 2008
	Status/ Comments:	No need for revisions at this time.		
	NPCC Contact:	Paul Roman		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Documents

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

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF OPERATION

Surveys/Reviews

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
FNL	Survey of NPCC Facilities Notification List	An annual list of NPCC transmission facilities is established based on the criterion that, if removed from service, the transmission facility may directly or indirectly impact the reliability of another Area or other Areas.	Latest Version:	September 2005
			Frequency of Reviews:	1 year
			Next Review Date:	January 2006
	Status/ Comments:	The annual revision was completed by TFCO in April.		
	NPCC Contact:	Paul Roman		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF PLANNING

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
CP-8	Working Group on Review of Resource and Transmission Adequacy	Review the overall reliability of the NPCC Areas and perform pre-seasonal resource adequacy assessments.	2006 Budget:	\$65,000
			Expense to Date:	\$13,172
			Completion Date:	December 2006
	Status/ Comments:	The scope of work and schedule for the NPCC Interregional Long-Range Adequacy Overview, and the Review of Interconnection Assistance Reliability Benefits objective and scope of work was approved at the May 2006 RCC meeting.		
	NPCC Staff:	Phil Fedora		
	Reference:	TFCP Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF PLANNING

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
CP-9	Review of NERC Planning Standards Working Group	Review the Phase I NERC Planning Standards that have been placed into final NERC due process. Recommend changes to those NERC Planning Standards that are scheduled for implementation in latter phases of the NERC Compliance Program. Review the Standards Authorization Requests and Reliability Standards as well as participate in the NERC process. Educate and inform NPCC membership of developments.	2006 Budget:	\$30,000
			Expense to Date:	\$31,354
			Completion Date:	December 2006
	Status/ Comments:	<p>The CP-9 Working Group is focusing on the review of the Version 1 NERC Reliability Standards (as they are developed) and also the remaining emerging translation of the Planning Standards Phase III and IV. The CP-9 Working Group is developing recommendations for the membership on ballots as they transpire. CP-9 has also commented on increased reporting requirements proposed by the DOE/Energy Information Administration 411 and 860 Forms. CP-9 also developed a process to coordinate commenting and participating in adjacent Regions' criteria development, as well as promoting NPCC criteria in adjacent regions. The working group has completed a "mapping" project involving listing all NERC reliability standards requirements and mapping them into corresponding NPCC documentation. The responsibility for the document and its further updates have been assumed by the CMAS. In addition the CP9 has developed a CBRE Regional Reliability Standards Development Process which has been posted, revised and is now posted for a second open process review. The CP9 is planning to have the final draft document ready for RCC approval in November 2006.</p>		
	NPCC Staff Reference:	<p>Guy Zito TFCP Workplan</p>		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF PLANNING

Working Groups/Ad Hoc Assignments

Item	Name	Assignment	2006 Budget	Expense to Date:	Completion Date:
CP-11	Review of A-2 Criteria Working Group	This Working Group is charged with the revision of the NPCC Basic Design Criteria Document A-02 and the NPCC Glossary of Terms Document A-07.	\$10,000	\$0	December 2006
Status/ Comments: At the November 2005 RCC meeting, each NPCC Area presented its listing of existing Bulk Power System Elements. In addition it was reported that IESO and Hydro-Quebec had completed their testing of the proposed A-10 methodology for determining elements of the NPCC Bulk Power System. It was reported at the March 2006 meeting that the Maritimes (NB and NS) will complete their testing during September 2006 and along with NYISO and ISO-NE and will present a status report at the September 2006 RCC meeting on their testing efforts. TFSS will be drafting a report summarizing the results of each Area's testing, observations and possible recommendations for changes to the A-10 document and will present it to the RCC at its September 6, 2006 meeting.					
NPCC Staff:		Stan Kopman			
Reference:		TFCP Workplan			

Item	Name	Assignment	2005 Budget:	Expense to Date::	Completion Date:
CP- 2006S	Summer 2006 Multi-Area Probabilistic Reliability Assessment	Assess NPCC Area reliability for the year 2006 by estimating the annual Loss of Load Expectation (LOLE) and projected use of Area Operating Procedures designed to mitigate resource shortages for the summer (May through September) period.	\$76,000	\$59,908	April 2006
Status/ Comments: The Summer 2006 Multi-Area Probabilistic Reliability Assessment assumptions were updated, reflecting changes in the system since the issuance of the report; the revised results were presented to the NPCC EC at their July 25, 2006 meeting, and the TFCP at their August 9, 2006 meeting.					
NPCC Staff:		Phil Fedora			
Reference:		TFCP Workplan			

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF PLANNING

Working Groups/Ad Hoc Assignments

Item	Name	Assignment	2006 Budget:	
CP- 2006W	Winter 2006-07 Multi-Area Probabilistic Reliability Assessment	Assess NPCC Area reliability for the year 2006 by estimating projected use of Area Operating Procedures designed to mitigate resource shortages for the winter (November 2006 through March 2007) period.	2006 Budget:	\$50,000
			Expense to Date:	\$0
			Completion Date:	November 2006

Status/ Comments: The scope and schedule for the proposed NPCC Multi-Area Probabilistic Reliability Assessment for Winter 2006-07 was approved by the TFCP at their August 9, 2006 meeting, and will be submitted for RCC approval at their September 2006 meeting.

NPCC Staff: Phil Fedora
Reference: TFCP Workplan

Item	Name	Assignment	2006 Budget:	
CP- TIE	Review of Interconnection Assistance Reliability Benefits	On a consistent basis, estimate the amount of interconnection assistance available to the NPCC Areas for today's system and for the near term (2006).	2006 Budget:	\$60,000
			Expense to Date:	\$21,225
			Completion Date:	December 2006

Status/ Comments: The objective and scope of work for the next update of the study was approved by the RCC at their May 31, 2006, meeting. Initial Base Case development is underway, which will also be the basis for the NPCC Interregional Long-Range Adequacy Overview.

NPCC Staff: Phil Fedora
Reference: TFCP Workplan

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF PLANNING

Documents

Item	Name	Assignment		
A-1	Criteria for Review and Approval of Documents	Criteria outlines the review and approval procedures for all NPCC documents.	Latest Version:	March 2005
			Frequency of Reviews:	4 years
			Next Review Date:	March 2009
			Completion Date:	December 2009
	Status/ Comments:	The TFCP prepared revisions to this document in 2004, and it has received final member approval.		
	NPCC Contact:	Guy Zito		

Item	Name	Assignment		
A-2	Basic Criteria for Design and Operation of Interconnected Power Systems	Criteria are established for proper design and operation concerning Resource Adequacy and Transmission Capability.	Latest Version:	May 6, 2004
			Frequency of Reviews:	4 years
			Next Review Date:	November 2007
			Completion Date:	May 2008
	Status/ Comments:	NPCC will begin an early review of this document sometime in 2006.		
	NPCC Contact:	Stan Kopman		

Item	Name	Assignment		
A-7	NPCC Glossary of Terms	The NPCC Glossary of Terms (the Glossary) includes terms from NPCC Criteria (A), Guideline (B) and Procedure (C) Documents, as well as the North American Electric Reliability Council (NERC) Glossary of Terms, August 1996.	Latest Version:	September 1998
			Frequency of Reviews:	1 year
			Next Review Date:	December 2005
	Status/ Comments:	This document is currently being reviewed by the CP-11 Working Group. It is expected that the revised glossary will be sent to the RCC for approval in November, 2006.		
	NPCC Contact:	Stan Kopman		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF PLANNING

Documents

Item	Name	Assignment		
B-8	Guidelines for Area Review of Resource Adequacy	Guidelines to help TFCP ascertain that each Area's resource plan is in accordance with the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems."	Latest Version:	November 29, 2005
			Frequency of Reviews:	3 years
			Next Review Date:	June 2008
			Completion Date:	December 2008
	Status/ Comments: The TFCP has developed a new draft B-8 Document, based on comments received from the NPCC Open Process review. Review and approval of the revised B-8 Document occurred at the November 29-30 2005 RCC meeting.			
	NPCC Contact: Guy Zito			

Item	Name	Assignment		
C-16	Procedure for NPCC Review of New or Modified Bulk Power System Special Protection Systems	This document outlines procedures for reporting new or modified Bulk Power System Special Protection Systems.	Latest Version:	August 2005
			Frequency of Reviews:	3 years
			Next Review Date:	August 2008
			Completion Date:	December 2008
	Status/ Comments: The TFCP has recently reviewed and approved a revision to the document.			
	NPCC Contact: Guy Zito			

Item	Name	Assignment		
TFCP	Task Force Scope	The Task Force on Coordination of Planning scope of activities.	Latest Version:	September 7, 2005
			Frequency of Reviews:	3 years
			Next Review Date:	August 2008
	Status/ Comments: The TFCP has recently revised the document; the RCC approved it in September 2005.			
	NPCC Contact: Guy Zito			

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF PLANNING

Surveys/Reviews

Item	Name	Assignment		
MARA	Resource Adequacy — Coordination and Review of Area Studies	Review of the Maritime Area resource adequacy study.	Latest Version:	December 2004
			Frequency of Next Review Date:	3 years 2007
	Status/ Comments:	The 2004 Maritimes Area Triennial Review of Resource Adequacy was approved at the March 2005 RCC meeting. The Maritimes 2005 Interim Review of Resource Adequacy was approved at the March 2006 RCC meeting.		
	NPCC Contact:	Phil Fedora		

Item	Name	Assignment		
NERA	Resource Adequacy — Coordination and Review of Area Studies	Review of the New England Area resource adequacy study.	Latest Version:	November 2005
			Frequency of Reviews: Next Review Date:	3 years 2008
	Status/ Comments:	New England's 2005 Triennial Resource Adequacy has been approved by the TFCP and was approved at the November 29-30, 2005 RCC meeting.		
	NPCC Contact:	Phil Fedora		

Item	Name	Assignment		
NYRA	Resource Adequacy — Coordination and Review of Area Studies	Review of the New York Area resource adequacy study.	Latest Version:	Dec 2005
			Frequency of Reviews: Next Review Date:	3 years 2005
	Status/ Comments:	New York's 2004 Interim Resource Adequacy Review was approved at the March, 2005 RCC meeting. New York's 2005 Resource Adequacy Review was conditionally approved at the March 2006 RCC meeting, subject to additional information being supplied to the TFCP. The RCC also directed the New York ISO to provide an updated comprehensive Resource Adequacy Review for RCC review and approval by the end of the year.		
	NPCC Contact:	Phil Fedora		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON COORDINATION OF PLANNING

Surveys/Reviews

Item	Name	Assignment		
QARA	Resource Adequacy — Coordination and Review of Area Studies	Review of the Québec Area resource adequacy study.	Latest Version:	Dec 2005
			Frequency of reviews:	3 years
			Next Review Date:	2005
	Status/ Comments:	Québec's 2004 Interim Resource Adequacy Review was approved at the March, 2005 RCC meeting. Quebec's 2005 Review of Resource Adequacy was approved at the March 2006 RCC meeting.		
	NPCC Contact:	Phil Fedora		

Item	Name	Assignment		
ONRA	Resource Adequacy — Coordination and Review of Area Studies	Review of the Ontario Area resource adequacy study.	Latest Version:	July 2003
			Frequency of	3 years
			Next Review Date:	2006
	Status/ Comments:	Ontario's 2005 Interim Resource Adequacy Review was approved by the TFCP in September 2005, and was approved at the November 29-30, 2005 RCC meeting.		
	NPCC Contact:	Phil Fedora		

Item	Name	Assignment		
SPS	Special Protection System List	This document lists Special Protection Systems on the System.	Latest Version:	November 2005
			Frequency of	1 year
			Next Review Date:	June 2006
	Status/ Comments:	The SPS was presented to the RCC at its November 29-30, 2005 meeting.		
	NPCC Contact:	Donal Kidney		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Working Groups/Ad Hoc Assignments

Item	Name	Assignment	2006 Budget:	
IST-1	Infrastructure Security and Technology Working Group	Periodic workshop to address timely issues and update member personnel associated with infrastructure security and technology.	2006 Budget:	\$5,000
			Expense to Date:	\$100
			Last Workshop:	June 2006
Status/ Comments: TFIST held a Cyber Security Workshop on June 7-8 2006 in Toronto. The focus was the NERC Cyber Security Standards.				
NPCC Staff: Brian Hogue				
Reference: TFIST Workplan				

Item	Name	Assignment	2006 Budget:	
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 Bulk Power System. The Telecommunications Working Group (IST-2) will Also support TFIST in their work on issues related to Telecommunications.	2006 Budget:	\$5,000
			Expense to Date:	\$0
Status/ Comments: The Telecommunications Working Group is responding to three questions from CO-11, Inter-Control Area Restoration Working Group regarding: 1) operator telecommunications systems, 2) enhancing reliable voice communications, and 3) maintaining telecommunication documentation in NPCC documents. Preliminary answers were provided to CO-11 WG in May. COM001 and COM002 were reviewed for TFIST and the CP-9 WG. IST-2 is reviewing COM001 and COM002 again				
NPCC Staff: Brian Hogue				
Reference: TFIST Workplan				

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
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.	2006 Budget:	\$5,000
			Expense to Date:	\$0
Status/ Comments:		The EMS-SCADA Working Group held its initial meeting. They will respond to a question from CO-11, Inter-Control Area Restoration Working Group regarding control center and telecommunication center facilities.		
NPCC Staff Reference:		Brian Hogue TFIST Workplan		

Item	Name	Assignment		
IST-4	TFIST Cyber Security Working Group	Provide a forum to identify, discuss and advance the technology of Cyber Security for the reliable operation of the NPCC Bulk Power System. The Cyber Security Working Group (IST-4) will also support TFIST in their work on issues related to Cyber Security.	2006 Budget:	\$5,000
			Expense to Date:	\$0
Status/ Comments:		The Cyber Security Working Group is in the process of being formed.		
NPCC Staff Reference:		Brian Hogue TFIST Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Working Groups/Ad Hoc Assignments

<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 technology 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.	2006 Budget:	\$5,000
			Expense to Date:	\$0
	Status/ Comments:	The Physical Security Working Group is in the process of being formed.		
	NPCC Staff:	Brian Hogue		
	Reference:	TFIST Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Documents

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

Item	Name	Assignment		
C-17	Monitoring Procedures for Guidelines for On-Line Computer System performance during disturbances	This document establishes monitoring and reporting procedures for the B-12 Guideline, and specifically details on-line computer response objectives.	Latest Version:	September 2001
			Frequency of Reviews:	3 years
			Next Review Date:	September 2005
	Status/ Comments:	A written version was completed by CO-10, which includes a new event reporting form. C-17 will be posted for NPCC Open Process once it receives TFCO approval.		
	NPCC Contact:	Paul Roman		

Item	Name	Assignment		
TFIST	Task Force Scope	This document outlines the Task Force on Infrastructure Security and Technology scope of activities.	Latest Review	September 2005
			Frequency of Reviews:	3 years
			Next Review Date:	September 2008
	Status/ Comments:	An updated TFIST Scope was approved at the September 2005 RCC meeting.		
	NPCC Contact:	Brian Hogue		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

Surveys/Reviews

Item	Name	Assignment		
RAD	Review of NPCC Area disturbances	Review of on-line computer system performance during disturbances, as required by Document B-12.	Latest Review	March 2004
			Frequency of Reviews:	As needed
	Status/ Comments:	The C-17 guidelines were used to gather information following the August 14 th Blackout, a report was presented to the RCC at their November meeting. No need to review unless it affects security/reliability.		
	NPCC Contact:	Brian Hogue		

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

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON SYSTEM PROTECTION

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
PSMP	Protection System Maintenance Practices	As required to support analysis, collect Bulk Power system protection system maintenance data to evaluate protection system maintenance costs and the impact on Bulk Power System performance due to alternative methods and intervals for protection system maintenance.	Latest Version:	January 2006
			Frequency of Reviews:	3 months
	Status/ Comments:	The TFSP will initiate when conditions warrant.		
	NPCC Contact:	Quoc Le		

Item	Name	Assignment		
SEDRWG (SP-6)	Synchronized Event Data Reporting Working Group	Investigate the area of synchronized event reporting and make recommendations for improvements to NPCC criteria and other NPCC documents so that NPCC might be able to quickly establish the sequence of events after any future wide-Area disturbance.	2006 Budget:	\$6,000
			Expense to Date:	\$0
	Status/ Comments:	The SEDRWG is addressing the recommendations made in the final report submitted at the June 1, 2005 RCC meeting. SP-6 is developing two new guidelines 1) NPCC Guide to Time Synchronization of Substation Equipment and 2) Guide for Application of Disturbance Recording Equipment – by December 2006.		
	NPCC Staff:	Quoc Le		
	Reference:	TFSP Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

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.	Latest Version:	August 2004
			Frequency of Reviews:	3 years
			Next Review Date:	December 2007
	Status/ Comments:	The next review of A-4 will be initiated in the fourth quarter of 2006.		
	NPCC Contact:	Quoc Le		

<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.	Latest Version:	January 30, 2006
			Frequency of Reviews:	3 years
			Next Review Date:	November 2006
	Status/ Comments:	TFSP will review A-5 again this year with the intention of separating non-criteria language from criteria language.		
	NPCC Contact:	Quoc Le		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
A-11	Special Protection System Criteria	This document establishes the protection criteria, and recommends minimum design objectives and practices for Special Protection Systems (SPSs). The SPS is categorized according to the Criteria fault for which it is designed and the impact its failure would have on the network.	Latest Version:	November 14, 2002
			Frequency of Reviews:	3 years
			Next Review Date:	November 2006
	Status/ Comments:	TFSP plans revisions to Document A-11 in parallel with Document A-5.		
	NPCC Contact:	Quoc Le		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON SYSTEM PROTECTION

Documents

Item	Name	Assignment		
B-1	Guide for the Application of Autoreclosing to the Bulk Power System	This document establishes guidelines for automatic reclosing to facilitate restoration of the system to normal following automatic tripping of transmission facilities.	Latest Version:	March 9, 2005
			Frequency of Reviews:	3 years
			Next Review Date:	November 2008
	Status/ Comments:	The next review is scheduled for 2008.		
	NPCC Contact:	Quoc Le		

Item	Name	Assignment		
B-7	Automatic Underfrequency Load Shedding Program Relaying Guideline	This guideline establishes requirements for application and testing of underfrequency threshold relays that are necessary to accomplish the objectives of the NPCC automatic underfrequency load shedding program established in the Emergency Operation Criteria (Document A-3).	Latest Version:	March 9, 2005
			Frequency of Reviews:	3 years
			Next Review Date:	November 2008
	Status/ Comments:	The next review is scheduled for 2008.		
	NPCC Contact:	Quoc Le		

Item	Name	Assignment		
B-21	Guide for Analysis and Reporting of Protection System Misoperations	This document defines the analysis and reporting requirements for misoperations of protection systems and special protection systems on the bulk power systems within each of the NPCC Areas.	Latest Version:	July 14, 2004
			Frequency of Reviews:	3 years
			Next Review Date:	July 2007
	Status/ Comments:	Review will be completed in 2006 as part of the SP-6 recommendations and will be updated to NERC Version 1 Standard.		
	NPCC Contact:	Quoc Le		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON SYSTEM PROTECTION

Documents

Item	Name	Assignment		
B-23	Guide for Maintenance of Microprocessor-based Protection Relays	This document provides guidance for the maintenance of microprocessor-based relays.	Latest Version:	July 14, 2002
			Frequency of Reviews:	3 Years
			Next Review Date:	July 2007
	Status/ Comments:	The next B-23 Review will be initiated in September 2006.		
	NPCC Contact:	Quoc Le		

Item	Name	Assignment		
B-24	Security Guidelines for Protection Systems IEDS	This document provides guidance for member systems in designing and applying remote access for protective relays And associated equipment that have remote access capability.	Latest Version:	July 14, 2002
			Frequency of Reviews:	3 Years
			Next Review Date:	July 2007
	Status/ Comments:	The next B-24 Review will be initiated in September 2006.		
	NPCC Contact:	Quoc Le		

Item	Name	Assignment		
C-22	Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System	This procedure indicates how new facilities or modifications to existing facilities are to be presented to the TFSP in order to ascertain compliance with the principles of the Protection Criteria.	Latest Version:	November 14, 2002
			Frequency of Reviews:	3 Years
			Next Review Date:	June 2008
	Status/ Comments:	Revised C-22 Forms were updated and posted on the NPCC website.		
	NPCC Contact:	Quoc Le		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON SYSTEM PROTECTION

Documents

Item	Name	Assignment	Latest Version:	
C-30	Procedure for Task Force on System Protection Review of Disturbances	This document outlines the process the TFSP follows to review and analyze the performance of protection systems following selected major power system events, inside as well as outside NPCC.		November 14, 2002
	Status/ Comments:	The next review is scheduled for 2008.	Frequency of Reviews:	3 Years
	NPCC Contact:	Quoc Le	Next Review Date:	June 2008

Item	Name	Assignment	Latest Version:	
TFSP	Task Force Scope	This document outlines the Task Force on System Protection scope of activities.		March 9, 2005
	Status/ Comments:	The next review is scheduled for 2008.	Frequency of Reviews:	3 Years
	NPCC Contact:	Quoc Le	Next Review Date:	November 2008

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON SYSTEM PROTECTION

Surveys/Reviews

Item	Name	Assignment	Latest Version:	Frequency of Reviews:
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).	January 2006	3 months
	Status/ Comments:	At each meeting, the TFSP discusses protection system changes, including SPS installations and modifications, as proposed by entities within NPCC.		
	NPCC Contact:	Quoc Le		

Item	Name	Assignment	Latest Version:	Frequency of Reviews:
RPSP	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.	January 2006	3 months
	Status/ Comments:	At each meeting, TFSP discusses system disturbances that have been reported to NPCC and/or NERC, and disturbances reported directly by the member systems to determine if any changes are necessary in the NPCC protection criteria.		
	NPCC Contact:	Quoc Le		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON SYSTEM STUDIES

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
SS-37	Base Case Development Working Group	On an annual basis, develop a library of solved load flow cases and associated dynamic data.	2006 Budget:	\$10,000
			Expense to Date:	\$7,300
			Completion Date:	December 2006
	Status/ Comments:	Year 2006 development effort is currently underway and on schedule to coordinate with MMWG.		
	NPCC Staff:	Donal Kidney		
	Reference:	TFSS Workplan		

Item	Name	Assignment		
SS-38	Inter- Area Dynamic Analysis Working Group	Assigned to analyze dynamic phenomena, which may affect interconnected system reliability, especially in the area of low frequency oscillations.	2006 Budget:	\$20,000
			Expense to Date:	\$6,950
			Completion Date:	December 2006
	Status/ Comments:	The implementation of the UFLS Report recommendations are being coordinated by the TFCP. Work on the TFSS Blackout 2003 Study is on-going. SS-38 is conducting a governor response survey.		
	NPCC Staff:	Donal Kidney		
	Reference:	TFSS Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON SYSTEM STUDIES

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
B-4	Guidelines for NPCC Area Transmission Reviews	Guidelines to help TFSS ascertain that each Area's transmission expansion plan, based on its proposed generation additions, has been developed in accordance with the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems."	Latest Version:	September 2005
			Frequency of Reviews:	3 years
			Next Review Date:	September 2008
	Status/ Comments:	Updated document approved at the September 2005 RCC meeting.		
	NPCC Contact:	Donal Kidney		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
B-10	Guidelines for Requesting Exclusions to Section 5.1 (B) and 6.1 (B) of the NPCC "Basic Criteria for Design and Operations of Interconnected Power Systems"	Establishes procedures for requesting exclusion from certain contingencies in the Basic Criteria. Note: Member Representatives shall be advised of approvals by the Reliability Coordinating Committee of applications for exclusions.	Latest Version:	November 2002
			Frequency of Reviews:	3 years
			Next Review Date:	November 2005
	Status/ Comments:	Posted for comment in NPCC Open Process until December 15, 2005.		
	NPCC Contact:	Donal Kidney		

<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.	Latest Version:	January 1999
			Frequency of Reviews:	3 years
			Next Review Date:	January 2004
	Status/ Comments:	This document is currently under review.		
	NPCC Contact:	Donal Kidney		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON SYSTEM STUDIES

Documents

<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.	Latest Version:	May 5, 2001
			Frequency of Reviews:	3 years
			Next Review Date:	June 2004
	Status/ Comments:	TFSS is currently reviewing the document.		
	NPCC Contact:	Donal Kidney		

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
TFSS	Task Force Scope	The Task Force on System Studies scope of activities.	Latest Version:	March 2003
			Frequency of	3 years
			Next Review Date:	January 2006
	Status/ Comments:	The TFSS is on schedule with all elements of the TFSS scope.		
	NPCC Contact:	Donal Kidney		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON SYSTEM STUDIES

Surveys/Reviews

Item	Name	Assignment		
ALSP	Adequacy of Automatic Load Shedding Programs	Assessment of the adequacy and suitability of existing underfrequency load shedding settings.	Latest Version:	August 31, 2004
			Frequency of Reviews:	3 years
			Completion Date:	March 2007
	Status/ Comments:	The UVLS report was approved by the RCC at their November 29-30, 2005 meeting.		
	NPCC Contact:	Donal Kidney		

Item	Name	Assignment		
DARD	Review of Dynamic Analysis Recording Devices	This review summarizes the characteristics of recording devices used to capture power system dynamic phenomena.	Latest Version:	June 4, 1999
			Frequency of Reviews:	3 years
			Next Review Date:	June 2004
	Status/ Comments:	The SS-38 Working Group is currently conducting the Survey. On hold pending Blackout 2003 study.		
	NPCC Contact:	Donal Kidney		

Item	Name	Assignment		
MATR	Maritimes Area Transmission Review	Review of Maritimes Area (New Brunswick and Nova Scotia) future transmission plans (4-6 years out).	Latest Version:	November 2005
			Frequency of Reviews:	1 year
			Next Review Date:	November 2006
	Status/ Comments:	Interim Review approved at the November 29-30, 2005 RCC meeting. A comprehensive review is scheduled for 2006.		
	NPCC Contact:	Donal Kidney		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON SYSTEM STUDIES

Surveys/Reviews

Item	Name	Assignment		
NETR	New England Area Transmission Review	Review of New England Area future transmission plans (4-6 years out).	Latest Version:	November 2005
			Frequency of Reviews:	1 year
			Next Review Date:	November 2006
	Status/ Comments:	Interim Review approved at the November 29-30, 2005 RCC meeting.		
	NPCC Contact:	Donal Kidney		

Item	Name	Assignment		
NYTR	New York Area Transmission Review	Review of New York Area future transmission plans (4-6 years out).	Latest Version:	March 2005
			Frequency of Reviews:	1 year
			Next Review Date:	March 2006
	Status/ Comments:	An Comprehensive Review is currently underway.		
	NPCC Contact:	Donal Kidney		

Item	Name	Assignment		
ONTR	Area Transmission Review	Review of Ontario Area future transmission plans (4-6 years out).	Latest Version:	December 2004
			Frequency of Reviews:	1 year
			Next Review Date:	December 2005
	Status/ Comments:	An Intermediate Review submitted for RCC review and approval at their May 2006 meeting.		
	NPCC Contact:	Donal Kidney		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

TASK FORCE ON SYSTEM STUDIES

Surveys/Reviews

Item	Name	Assignment		
QATR	Québec Area Transmission Review	Review of Québec Area future transmission plans (4-6 years out).	Latest Version:	November 2005
			Frequency of Reviews:	1 year
			Next Review Date:	December 2006
	Status/ Comments:	Interim Review approved at the November 29-30, 2005 RCC meeting.		
	NPCC Contact:	Donal Kidney		

Item	Name	Assignment		
TRS	Overall Transmission Reliability Study	Evaluate the need to perform an overall assessment to evaluate the thermal, and dynamic performance of the NPCC Region. If necessary perform this assessment including the calculation of Inter-Area transfer capabilities and Extreme contingency performance.	Latest Version:	November 2005
			Frequency of Reviews:	3 years
			Completion Date:	November 2008
	Status/ Comments:	The Overall Transmission Reliability Study was approved at the November 29-30, 2005 RCC meeting.		
	NPCC Staff:	Donal Kidney		
	Reference:	TFSS Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

RFC - NPCC

Study Committees

Item	Name	Assignment	Completion Date:
RFC-NPCC SC	RFC-NPCC Study Committee	The RFC - NPCC Study Committee directs the activities of its Operating Studies and Future Systems Working Groups and reports to the Joint Interregional Review Committee (JIRC) on study activities and other interregional matters of interest.	December 2006
Status/ Comments:		The existing NPCC-MAAC and NPCC-ECAR agreements will no longer be in effect and so a single Eastern Interconnection Interregional Assessment agreement has been developed and signed by all Eastern Interconnection Regional Reliability Organizations. This will eventually help provide a framework for all of the interregional studies. The NPCC-RFC (formerly MEN) and SERC-RFC (formerly VEM) Assessments will be guided by the Committees named in the Agreement. There will be differences between the Winter 2006/07 Winter RFC-NPCC Assessment and past MEN Assessments but the extent and type of changes have not yet been resolved. A conference call is scheduled to initiate the Winter Study.	
NPCC Contact:		Paul Roman	

NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

RFC - NPCC

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
RFC-NPCC WG	RFC-NPCC Working Group	The RFC-NPCC Operating Studies Working Group, under the direction of the RFC-NPCC Study Committee, conducts appraisals of the RFC-NPCC interconnected systems for the summer and winter periods.	2006 Budget:	\$10,000
			Expense to Date:	\$2,700
			Completion Date:	December 2006
	Status/ Comments:	The existing NPCC-MAAC and NPCC-ECAR agreements will no longer be in effect and so a single Eastern Interconnection Interregional Assessment agreement has been developed and signed by all Eastern Interconnection Regional Reliability Organizations. This will eventually help provide a framework for all of the interregional studies. The NPCC-RFC (formerly MEN) and SERC-RFC (formerly VEM) Assessments will be guided by the Committees named in the Agreement. There will be differences between the Winter 2006/07 Winter RFC-NPCC Assessment and past MEN Assessments but the extent and type of changes have not yet been resolved. A conference call is scheduled to initiate the Winter Study.		
	NPCC Staff:	Donal Kidney/Paul Roman		

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NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
CCC	Compliance and Certification Committee	Develop positions related to the NERC Compliance program.	Completion Date:	On-going
	Status/ Comments:	Receiving proposed ERO sanction Guidelines. Discussing the role of CCC in the NERC transition to the ERO and beyond.		
	NPCC Contact:	Stan Kopman		
Item	Name	Assignment		
MMWG	Multiregional Modeling Working Group	Develop a library of solved load flow and dynamic simulation models for use by the Regions and their member systems in planning and evaluating future systems and current operating conditions.	2006 Budget:	\$5,000
			Expense to Date:	\$0
			Completion Date:	December 2006
	Status/ Comments:	The MMWG is assembling the load flow models that constitute the 2006 base case library and the dynamics library cases. Development is currently on schedule.		
	NPCC Staff:	Donal Kidney		

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NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
RAS	Reliability Assessment Subcommittee (RAS)	Conduct an annual review of the overall reliability of the existing and planned generation and transmission systems of the eight Regional Reliability Councils for the ten year horizon. Conduct semiannual seasonal assessments of the overall reliability of the existing generation and transmission systems of the ten Regional Reliability Councils.	Latest Version:	November 2005
			Frequency of Reviews:	six months
			Completion Date:	December 2006
	Status/ Comments:	<p>A final draft of the “2006 Long-Term Reliability Assessment,” looking at the reliability of the North American bulk power system for the next ten year period, will be presented to the NERC BOT for approval in October. The NERC 2006/07 Winter Reliability Assessment was initiated on August 8 , 2006. The report is scheduled to be released on November 15, 2006.</p> <p>The NERC 2006 Summer Reliability Assessment was released through a media conference call on May 15, 2006</p>		
	NPCC Contact:	Jerry Mosier		

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OTHER

Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
DCWG	Data Coordination 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.	2006 Budget:	\$10,000
			Expense to Date:	\$1,325
			Completion Date:	December 2006
	Status/ Comments:	The EIA instituted its Form 411 internet based data collection system. NPCC Area's reporting requirements are being collected. The next meeting, planned for Fall 2006, will be a joint meeting with NERC and DOE.		
	NPCC Staff:	Reza Rizvi		

Item	Name	Assignment		
Inter-ISO	Inter-ISO Working Group	The Inter-ISO Working Group was formed to address Inter-Regional planning and Inter-Area issues of projects that have "cross border" impacts while providing an open stakeholder forum and committee structure to allow market input.	Completion Date:	December 2006
	Status/ Comments:	The Working Group has developed a Northeastern Planning Protocol document that outlines how Inter-Regional planning will be done. All NPCC Areas and PJM are involved with the effort. NPCC has developed and is maintaining a website for the effort. NPCC also participated in the group's meeting of PJM and NPCC stakeholders (IPSAC), and presented how NPCC supports wide-Area collaborative planning. A stakeholder meeting was held in April 2006; the next meeting is scheduled for Fall 2006.		
	NPCC Staff:	Guy Zito		