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**RCC Meeting  
March 18, 2004  
Agenda Item 17.0**

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

**STATUS REPORT**

*Prepared for the  
Reliability Coordinating Committee  
March 18, 2004*

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

## Contents

<b>Blackout 2003 Follow-Up</b>	<b>1</b>
Working Groups/Ad Hoc Assignments	1
<b>Compliance Monitoring and Assessment Subcommittee</b>	<b>4</b>
Documents	4
<b>Task Force on Coordination of Operation</b>	<b>5</b>
Working Groups/Ad Hoc Assignments	5
Documents	10
Surveys/Reviews	15
<b>Task Force on Coordination of Planning</b>	<b>16</b>
Working Groups/Ad Hoc Assignments	16
Documents	20
Surveys/Reviews	22
<b>Task Force on Infrastructure Security and Technology</b>	<b>24</b>
Working Groups/Ad Hoc Assignments	24
Documents	25
Surveys/Reviews	26
<b>Task Force on System Protection</b>	<b>27</b>
Working Groups/Ad Hoc Assignments	27
Documents	28
Surveys/Reviews	31
<b>Task Force on System Studies</b>	<b>32</b>
Working Groups/Ad Hoc Assignments	32
Documents	33
Surveys/Reviews	35
<b>MAAC - ECAR - NPCC (MEN)</b>	<b>38</b>
Study Committees	38
Working Groups/Ad Hoc Assignments	39
<b>North American Electric Reliability Council (NERC)</b>	<b>40</b>
Working Groups/Ad Hoc Assignments	40
<b>Other</b>	<b>43</b>
Working Groups/Ad Hoc Assignments	43

# 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 <sup>th</sup> Blackout, assess extent and effectiveness of regional and interregional coordination and recommend potential Area Restoration Plan and/or NPCC Criteria revisions.	November 2004
	<b>Status/ Comments:</b>	Preliminary draft report to be finalized March 12, will be discussed at the March RCC meeting.	
	<b>NPCC Contact:</b>	Jerry Mosier	

Item	Name	Assignment	Completion Date:
BIT	Blackout Investigative Team	Develop NPCC Blackout Investigation Team Regional Report to assess overall system design, evaluate system and equipment (including SPSs) performance during islanding, analyze post-islanding performance, investigate possible mitigation measures and identify next steps.	December 2004
	<b>Status/ Comments:</b>	NPCC provides a coordinated approach to the on-going Blackout 2003 analyses via frequent teleconferences of the Blackout Investigative Team (BIT). The BIT consists of representatives from each of the NPCC affected Control Areas, the Chairs of NPCC Committees and Task Forces, and regulatory representatives. Status and assignment of related NPCC Blackout 2003 analyses to be discussed and finalized at the March RCC meeting.	
	<b>NPCC Contact:</b>	Ed Schwerdt	

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## BLACKOUT 2003 FOLLOW-UP

### Working Groups/Ad Hoc Assignments

Item	Name	Assignment	Completion Date(s):
<b>BSP</b>	Blackout Study Plan	Building on the Event Replication Study, perform additional analysis to evaluate possible risks for other system operating conditions, planned system changes, and possible system design changes.	<b>Task 1 May 2004 Task 2 July 2004 Task 3 December 2004 Task 4 April 2005 Task 5 August 2005 Task 6 November 2005</b>
	<b>Status/ Comments:</b>	The TFSS has submitted a multi-tasked draft scope of work for RCC review and approval at their March meeting. Task 1 – Initial Compilation of Data; Task 2 – Dynamic Replication of Events; Task 3 – Evaluation of Post-Islanding Performance; Task 4 – Evaluation of System and Equipment Performance During Island Formation; Task 5 – Evaluation of Overall System Design; and Task 6- Final Report.	
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>	

Item	Name	Assignment	Completion Date:
<b>MSDTF</b>	Major System Disturbance Task Force	NPCC formed the MSDTF following the August 14th Blackout, supplementing NPCC's SS-38 Working Group with representatives from ECAR, the MISO, PJM and SERC to conduct dynamic simulation analyses of the events.	<b>December 2004</b>
	<b>Status/ Comments:</b>	The MSDTF held a working meeting at the NPCC offices in New York City March 1-2 to continue the power flow testing and benchmarking of the blackout sequence of events.	
	<b>NPCC Contact:</b>	<b>Paul Roman</b>	

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## BLACKOUT 2003 FOLLOW-UP

### Working Groups/Ad Hoc Assignments

Item	Name	Assignment	Completion Date:	
<b>NERC-BOT</b>	NERC Board Of Trustees Recommendations	Evaluate recommendations included in the report “August 14, 2003 Blackout: NERC Actions to Prevent and Mitigate the Impacts of Future Cascading Blackouts” for applicability within NPCC.	<b>December 2004</b>	
	<b>Status/Comments:</b>	The TFCO’s proposed NPCC Task Force assignment of follow-up analyses responsive to the NERC Board of Trustees’ recommendations to be reviewed and approved at the March RCC meeting.		
	<b>NPCC Contact:</b>	<b>Stan Kopman</b>		

Item	Name	Assignment	Latest Version:	
<b>RSPPWG</b>	Regional Security Process Plan Working Group	Update the Regional Security Process Plan for complying with NERC established objectives for “coordinating interconnected power system operational security”.	<b>June 29, 2000</b>	
	<b>Status/ Comments:</b>	The RSPPWG will update the Regional Security Process Plan to reflect the “lessons learned” as a result of the August 1003 Blackout and the revised NERC Policies 5, 6, and 9.		
	<b>NPCC Contact:</b>	<b>James Hartwell</b>		
			<b>Frequency of Reviews:</b>	<b>As Required</b>
			<b>Next Review Date:</b>	<b>February 2004</b>
			<b>Completion Date:</b>	<b>December 2004</b>

# 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.		November 2001
			Frequency of Reviews: Next Review Date:	1 year November 2004
	<b>Status/ Comments:</b>	Comments from the third round of the NPCC Open Process review are being addressed by CMAS. This document will be submitted for approval at the March RCC meeting.		
	<b>NPCC Contact:</b>	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.		November 9, 2000
			Frequency of Reviews: Next Review Date:	1 year November 2004
	<b>Status/ Comments:</b>	This document will be submitted for approval at the March RCC meeting.		
	<b>NPCC Contact:</b>	Quoc Le		

Item	Name	Assignment	Latest Version:	
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.		June 23, 2000
			Frequency of Reviews: Next Review Date:	3 years November 2003
	<b>Status/ Comments:</b>	The CMAS will review a final draft at its next meeting on February 26-27, 2004. This document will be submitted for Open Process Review following the meeting.		
	<b>NPCC Contact:</b>	Quoc Le		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF OPERATION

### Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
ATCWG	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>2004 Budget:</b>	<b>\$5,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The group has submitted a remediation plan to NERC in response to a level 1 non-compliance assessment in the pilot Phase II B Compliance Program and has developed the NPCC Regional Data Posting System which is a web page initially containing TTC-ATC Area information. The group has also drafted a set of comments to Phase IIB of the NERC Compliance Program. The group is also coordinating with the Mid-West System Operator to pull in TCC-ATC information to the NPCC web-site.		
	<b>NPCC Contact:</b>	<b>Guy Zito</b>		

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.	<b>2004 Budget:</b>	<b>\$25,000</b>
			<b>Expense to Date:</b>	<b>\$1,900</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The Control Performance Working Group is currently 1) reviewing the merged draft of former NPCC Documents C-19 and C-20, developing the reserve product naming convention; 2) updating its operating reserve statistics to support or refute the adoption of NPCC reserve sharing, including the establishment of an audit reserve monitoring process (subject to TFCO endorsement); 3) monitoring the implementation of the NERC ACE Diversity Interchange process, reviewing the effectiveness of the NERC Disturbance Control Standard; 4) reviewing appropriate NERC Standard Authorization Requests; and, 5) resolving NPCC inadvertent exchange.		
	<b>NPCC Contact:</b>	<b>Jerry Mosier</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF OPERATION

### Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
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.	<b>2004 Budget:</b>	<b>\$30,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Next Seminar:</b>	<b>May 2004</b>
	<b>Status/ Comments:</b>	The next Dispatcher Training Seminar will be held on May 5-6 2004 in Toronto. A draft Agenda has been completed; this seminar will begin to discuss the lessons learned during restoration following August 14 <sup>th</sup> .		
	<b>NPCC Contact:</b>	<b>Jerry Mosier</b>		

Item	Name	Assignment		
CO-7	Operation Review 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.	<b>2004 Budget:</b>	<b>\$5,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The need for a reformulated Working Group is being reconsidered in light of the NERC Blackout 2003 recommendations.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		



# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF OPERATION

### Working Groups/Ad Hoc Assignments

Item	Name	Assignment	2004 Budget:	
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.		\$25,000
			Expense to Date:	\$0
			Completion Date:	December 2004
	<b>Status/ Comments:</b>	The CO-8 Working Group is currently pursuing: 1) the development of operator tutorial tapes for all NPCC Areas to ensure that each Area operator has a wide-area perspective of the bulk electric system and a basic level of understanding of neighboring Areas; 2) closely following the development and implementation of the NERC Functional Model; 3) overseeing the development of the NPCC OSS facilitated Transaction Checkout process; and, 4) discussing the proper implementation of the NERC Energy Emergency Alert.		
	<b>NPCC Contact:</b>	Jerry Mosier		

Item	Name	Assignment	2004 Budget:	
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. CO-10 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.		\$15,000
			Expense to Date:	\$0
			Completion Date:	December 2004
	<b>Status/ Comments:</b>	CO-10 has coordinated development of OSS Facilitated Transaction Checkout among NPCC Areas and PJM. Meetings were held to further this process during November and on February 18-19, 2004. Testing by ISO-NE is targeted for April with implementation targeted for summer 2004.		
	<b>NPCC Contact:</b>	Paul Roman		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF OPERATION

### Working Groups/Ad Hoc Assignments

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CO-12</b>	Summer Security Assessment Working Group	Review the overall reliability of the generation and transmission system in the NPCC Region for 2004 Summer.	<b>2004 Budget:</b>	<b>\$15,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Completion Date:</b>	<b>May 2004</b>
	<b>Status/ Comments:</b>	The Summer Security Assessment Working Group has become a permanent Working Group, named CO-12. Work started in late January on the 2004 Summer Assessment Study. The 2004 Summer Assessment will include a section on how the blackout recommendations are being addressed. A presentation on the preliminary results will be provided to the RCC on March 18 <sup>th</sup> .		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		
<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>IRCWG</b>	Inter-Control Area Restoration Coordination Working Group	IRCWG addresses the issue of ensuring appropriate operation of key system restoration facilities and their critical components.	<b>2004 Budget:</b>	<b>\$10,000</b>
			<b>Expense to Date:</b>	<b>\$1,300</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The IRCWG is assisting CMAS in assessing the results of the 2003 trial program for compliance to the restoration provisions of the newly revised NPCC Document A-03. Also developing a report summarizing the restoration experiences following the power system collapse August 14 <sup>th</sup> together with lessons learned and recommendations for follow-up.		
	<b>NPCC Contact:</b>	<b>Jerry Mosier</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF OPERATION

### Working Groups/Ad Hoc Assignments

<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>2004 Budget:</b>	<b>\$15,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	LESPWG has curtailed activities during 2003 and has disbanded. Can be reassembled if new conditions warrant.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

# 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.	<b>Latest Version:</b>	<b>November 14, 2002</b>
			<b>Frequency of Reviews:</b> <b>Next Review Date:</b>	<b>3 years</b> <b>November 2005</b>
	<b>Status/ Comments:</b>	The revised NPCC Document A - 03, "Emergency Operation Criteria," is being reviewed currently by the TFCO to incorporate the recommendations of the SS-38 Working Group to strengthen the language governing the testing of critical components associated with Key Facilities for restoration.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

Item	Name	Assignment		
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>November 14, 2002</b>
			<b>Frequency of Reviews:</b> <b>Next Review Date:</b>	<b>3 years</b> <b>November 2005</b>
	<b>Status/ Comments:</b>	The document was approved by the NPCC membership in November 2002.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

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.	<b>Latest Version:</b>	<b>November 6, 1997</b>
			<b>Frequency of Reviews:</b> <b>Next Review Date:</b>	<b>3 years</b> <b>June 2004</b>
	<b>Status/ Comments:</b>	The requirements of NPCC Document B-03 are being transferred to NPCC Document A-02 by NPCC Working Group CP-11, "Working Group on Review of the NPCC Basic Criteria." The remaining language is being established in a new Reference Document.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF OPERATION

### Documents

Item	Name	Assignment		
<b>B-9</b>	Guide for Rating Generating Capability	Standards for rating and verifying net generating capability are established.	<b>Latest Version:</b>	<b>November 1998</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>June 2004</b>
	<b>Status/ Comments:</b>	The requirements of NPCC Document B-09 are being transferred to NPCC Document A-02 by NPCC Working Group CP-11, "Working Group on Review of the NPCC Basic Criteria." The remaining language is being established in a new Reference Document.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

Item	Name	Assignment		
<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>June 2004</b>
	<b>Status/ Comments:</b>	Document B-13 will be posted for a second round of comments through the NPCC Open Process review.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

Item	Name	Assignment		
<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>	NPCC Document Reference Document 04 was created for the implementation of ACE Diversity Interchange.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF OPERATION

### Documents

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> .		<b>January 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>			
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

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.		<b>March 25, 1998</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>September 2003</b>
	<b>Status/ Comments:</b> NPCC Document Reference Document 10 was created for the assessment of large system frequency excursions.			
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

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.		<b>January 15, 2002</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>September 2005</b>
	<b>Status/ Comments:</b> NPCC Document Reference Document 07 will be created for the shared activation of ten-minute reserve.			
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF OPERATION

### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-13</b>	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>March 15, 1997</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>June 2004</b>
	<b>Status/ Comments:</b>	The requirements of C-13 are being redirected to NPCC Document A-03, and the details of reporting are being redrafted as a Reference Document 11.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		
<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-15</b>	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>March 2003</b>
			<b>2004 Budget:</b>	<b>\$15,000</b>
			<b>Expense to Date:</b>	<b>\$15,000</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>March 2006</b>
	<b>Status/ Comments:</b>	The NPCC Area control rooms have implemented the software package incorporating the Solar Terrestrial Dispatch notification/alert process.		
	<b>NPCC Contact:</b>	<b>Jerry Mosier</b>		
<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-19</b>	Procedures During Shortages of Operating Reserve	This Procedure establishes specific instructions for the redistribution of Operating Reserve among the Areas when one or more Areas is experiencing an Operating Reserve deficiency.	<b>Latest Version:</b>	<b>January 18, 2000</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>September 2003</b>
	<b>Status/ Comments:</b>	A combined C-19 and C-20 Document has been approved for posting to receive comments through the NPCC Open Process review.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF OPERATION

### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-20</b>	Procedures During Abnormal Operating Conditions	This Procedure complements the Emergency Operation Criteria by establishing specific instructions for the System Operator during emergency conditions in an NPCC Area or Areas.	<b>Latest Version:</b>	<b>March 1999</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>September 2003</b>
	<b>Status/ Comments:</b>	A combined C-19 and C-20 Document has been approved for posting to receive comments through the NPCC Open Process review.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>RD-03</b>	Procedures for Communications During Emergencies	These Procedures direct NPCC's implementation of the NERC Interregional Emergency Telephone Network. The NERC Interregional Emergency Telephone Network is utilized to convey to other reliability authorities in North America system conditions that could threaten the reliability of the interconnected bulk power supply system or the imminent shedding of firm load.	<b>Latest Version:</b>	<b>January 28, 2004</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>January 2005</b>
	<b>Status/ Comments:</b>	TFCO approved the updated document at its January meeting.		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

<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>November 14, 2002</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>November 2005</b>
	<b>Status/ Comments:</b>	The revised Scope of the TFCO, together with a newly developed Terms of Reference was approved by the TFCO at its November 2002 meeting.		
	<b>NPCC Contact:</b>	<b>Jerry Mosier</b>		



# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF OPERATION

### Surveys/Reviews

<u>Item</u>	<u>Name</u>	<u>Assignment</u>		
<b>FNL</b>	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>January 2004</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>January 2005</b>
	<b>Status/ Comments:</b>	The TFCO finalized the 2004 document at its meeting of January 2004		
	<b>NPCC Contact:</b>	<b>Paul Roman</b>		

# 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.	<b>2004 Budget:</b>	<b>\$60,000</b>
			<b>Expense to Date:</b>	<b>\$3,500</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The Working Group is in the process of completing the Summer 2004 Multi-Area Probabilistic Reliability Assessment and the Tie Benefits Study. Interim Reviews of Resource Adequacy have been completed for the Maritimes, New York, and Quebec Areas, and have been submitted for approval at the March RCC meeting.		
	<b>NPCC Contact:</b>	<b>Phil Fedora</b>		

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.	<b>2004 Budget:</b>	<b>\$25,000</b>
			<b>Expense to Date:</b>	<b>\$1,550</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	CP-9 is focusing on the review of NERC Planning Standards and new NERC Reliability Standards (as they are developed) and is developing recommendations for the membership on ballots as they transpire.		
	<b>NPCC Contact:</b>	<b>Guy Zito</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF PLANNING

### Working Groups/Ad Hoc Assignments

Item	Name	Assignment	2004 Budget:	\$10,000
CP-10	Collaborative Planning Initiative	The CP10 Working Group is tasked with determination of the effects of proposed new generation and transmission in the year 2006. The group will initially be studying the effects the additions have on existing bottlenecks as well as any new ones. The study will then focus on various scenarios as defined by working group members to determine the impacts on those bottlenecks identified. Possible future study this group will undertake could involve proposing solutions to the problem bottlenecks.	Expense to Date:	\$0
			Completion Date:	December 2004
	<b>Status/ Comments:</b>	Phase 1 of the study was approved by the RCC in March identifying approximately 50 transmission bottlenecks for a 2006 study year. Phase 2 of the study is currently underway which will prioritize those bottlenecks found in Phase 1 and is scheduled to be completed by December 2004.		
	<b>NPCC Contact:</b>	Guy Zito		

Item	Name	Assignment	2004 Budget	\$10,000
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. The review is currently underway and scheduled for submittal to the RCC for approval at their November 2003 meeting.	Expense to Date:	\$450
			Completion Date:	December 2004
	<b>Status/ Comments:</b>	The revised A-2 criteria was posted for the first time in 2003 and comments considered. The document was posted for a second open comment period through March 10, 2003 and was discussed at the July RCC meeting. The document is scheduled for approval at the March 2004 RCC meeting.		
	<b>NPCC Contact:</b>	Stan Kopman		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF PLANNING

### Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
CP- 2004	Summer 2004 Multi-Area Probabilistic Reliability Assessment	Assess NPCC Area reliability for the year 2004 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.	<b>2004 Budget:</b>	<b>\$55,000</b>
			<b>Expense to Date:</b>	<b>\$5,175</b>
			<b>Completion Date:</b>	<b>May 2004</b>
	<b>Status/ Comments:</b>	The scope and schedule for the Summer 2004 Multi-Area Probabilistic Reliability Assessment was approved at the November RCC meeting. Study by the CP-8 Working Group is underway. presentation on the preliminary results will be provided to the RCC on March 18 <sup>th</sup> .		
	<b>NPCC Contact:</b>	<b>Phil Fedora</b>		

Item	Name	Assignment		
CP- TIE	Review of Interconnection Assistance Reliability Benefits	On a consistent basis, estimate the amount of interconnection assistance available to the NPCC Areas for today's system and for the near term (2006).	<b>2004 Budget:</b>	<b>\$25,000</b>
			<b>Expense to Date:</b>	<b>\$17,540</b>
			<b>Completion Date:</b>	<b>June 2004</b>
	<b>Status/ Comments:</b>	Preliminary results discussed at the December TFCP meeting. Draft report and scenarios needed to complete the study were discussed at the January and February TFCP meetings. The study is being conducted by the CP-8 Working Group and is on schedule.		
	<b>NPCC Contact:</b>	<b>Phil Fedora</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF PLANNING

### Working Groups/Ad Hoc Assignments

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>JGWG</b>	Joint Glossary Working Group	Maintain the NPCC Glossary of Terms (Document A-7) and to expand the Glossary to include new terms as necessary.	<b>2004 Budget:</b>	<b>\$5,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Next Review Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The CP-11 Working Group is currently revising the document and will be posting it in the NPCC Open Process for review by year's end.		
	<b>NPCC Contact:</b>	<b>Guy Zito</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>RPF</b>	Regional Planning Forum	The objective of the RPF is to explore innovative approaches to enhancing the capabilities of the transmission grid from a Wide-Area, trans-regional outlook.	<b>2004 Budget</b>	<b>\$50,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	A presentation illustrating the voltage profile resulting from the publicly available Blackout 2003 sequence of events was presented at the NPCC Executive Committee September meeting.		
	<b>NPCC Contact:</b>	<b>Phil Fedora</b>		

# 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 and NERC documents and contains the NPCC Glossary.	<b>Latest Version:</b>	<b>March 1997</b>
			<b>Frequency of Reviews:</b>	<b>4 years</b>
			<b>Next Review Date:</b>	<b>November 2004</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The TFCP is will be preparing revisions to this document in 2004.		
	<b>NPCC Contact:</b>	<b>Guy Zito</b>		
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.	<b>Latest Version:</b>	<b>August 1995</b>
			<b>Frequency of Reviews:</b>	<b>4 years</b>
			<b>Next Review Date:</b>	<b>November 2003</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The TFCP has formed the CP-11 Working group to conduct the review of the Basic Criteria for Design and Operation of Interconnected Power Systems (A-2). Expected completion and approval of revised document to be in the second half of 2004.		
	<b>NPCC Contact:</b>	<b>Stan Kopman</b>		
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.	<b>Latest Version:</b>	<b>September 1998</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	This document is currently being reviewed concurrently with the A-2 Basic Design Criteria Document by the CP-11 Working Group.		
	<b>NPCC Contact:</b>	<b>Guy Zito</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF PLANNING

### Documents

<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>June 28, 2001</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>June 2004</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The TFCP is will be reviewing the need to revise this document in 2004.		
	<b>NPCC Contact:</b>	<b>Guy Zito</b>		
<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>September 28, 1995</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>December 2003</b>
			<b>Completion Date:</b>	<b>July 2004</b>
	<b>Status/ Comments:</b>	The TFCP is currently reviewing the comments from the NPCC Open process review which closed on November 21, 2003.		
	<b>NPCC Contact:</b>	<b>Guy Zito</b>		
<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>TFCP</b>	Task Force Scope	The Task Force on Coordination of Planning scope of activities.	<b>Latest Version:</b>	<b>February 26, 1997</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The TFCP is currently reviewing the need to revise this document in 2004.		
	<b>NPCC Contact:</b>	<b>Guy Zito</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## 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>December 2001</b>
			<b>Frequency of Next Review Date:</b>	<b>3 years 2004</b>
	<b>Status/ Comments:</b>	The Maritimes Area Triennial Review of Resource Adequacy was approved at the March 2002 RCC meeting. Maritimes' Interim Resource Adequacy Review expected to be presented at the March RCC meeting.		
	<b>NPCC Contact:</b>	<b>Phil Fedora</b>		

<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>October 2002</b>
			<b>Frequency of Reviews: Next Review Date:</b>	<b>3 years 2005</b>
	<b>Status/ Comments:</b>	The New England Triennial Review of Resource Adequacy was approved at the November 2002 RCC meeting. New England's Interim Resource Adequacy Review was approved at the November RCC meeting.		
	<b>NPCC Contact:</b>	<b>Phil Fedora</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>NYRA</b>	Resource Adequacy — Coordination and Review of Area Studies	Review of the New York Area resource adequacy study.	<b>Latest Version:</b>	<b>July 2002</b>
			<b>Frequency of Reviews: Next Review Date:</b>	<b>3 years 2005</b>
	<b>Status/ Comments:</b>	New York Triennial Review of Resource Adequacy was approved at the July 2002 RCC meeting. New York's Interim Resource Adequacy Review to be presented at the March RCC meeting.		
	<b>NPCC Contact:</b>	<b>Phil Fedora</b>		



# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON COORDINATION OF PLANNING

### Surveys/Reviews

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>QARA</b>	Resource Adequacy — Coordination and Review of Area Studies	Review of the Québec Area resource adequacy study.	<b>Latest Version:</b> <b>Frequency of reviews:</b> <b>Next Review Date:</b>	<b>October 2002</b> <b>3 years</b> <b>2005</b>
	<b>Status/ Comments:</b>	The Québec Triennial Review of Resource Adequacy was approved at the November 2002 RCC meeting. Québec's Interim Resource Adequacy Review expected to be presented at the March RCC meeting.		
	<b>NPCC Contact:</b>	<b>Phil Fedora</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>SPS</b>	Special Protection System List	This document lists Special Protection Systems on the System.	<b>Latest Version:</b> <b>Frequency of</b> <b>Next Review Date:</b>	<b>June 2001</b> <b>1 year</b> <b>June 2002</b>
	<b>Status/ Comments:</b>	The revised SPS List has been approved by the TFCP and will be presented to the RCC as an informational item at their November meeting.		
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

### Working Groups/Ad Hoc Assignments

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CIPC</b>	Correspondence national groups associated with infrastructure security	Monitor NERC CIPC efforts.	<b>Latest Review:</b>	<b>November 2003</b>
			<b>Frequency of Reviews:</b>	<b>As needed</b>
	<b>Status/ Comments:</b>	The majority of efforts in this area are currently being directed at participation in the NERC Critical Infrastructure Protection Committee (CIPC) efforts.		
	<b>NPCC Contact:</b>	<b>Frantz Roc</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>ISTWG</b>	Infrastructure Security and Technology Working Group	Periodic workshop to address timely issues and update member personnel associated with infrastructure security and technology.	<b>2004 Budget:</b>	<b>\$5,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Last Workshop:</b>	<b>May 16, 2002</b>
	<b>Status/ Comments:</b>	The TFIST is currently reviewing the need for a workshop this year.		
	<b>NPCC Contact:</b>	<b>Frantz Roc</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>B-12</b>	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.	<b>Latest Version:</b>	<b>November 2001</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>November 2004</b>

**Status/ Comments:** This document is currently being reviewed by TFIST.

**NPCC Contact:** Frantz Roc

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-17</b>	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>September 2001</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>November 2004</b>

**Status/ Comments:** This document is currently being reviewed by TFIST.

**NPCC Contact:** Frantz Roc

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>TFIST</b>	Task Force Scope	This document outlines the Task Force on Infrastructure Security and Technology scope of activities.	<b>Latest Review</b>	<b>March 2003</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>March 2006</b>

**Status/ Comments:** Scope of Work for the Task Force on Infrastructure Security and Technology was reviewed and approved at the March 2003 RCC meeting.

**NPCC Contact:** Frantz Roc

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

### Surveys/Reviews

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Latest Review</b>	<b>Frequency of Reviews:</b>
<b>RAD</b>	Review of NPCC Area disturbances	Review of on-line computer system performance during disturbances, as required by Document B-12.	<b>January 2003</b>	<b>1 year</b>
	<b>Status/ Comments:</b>	The C-17 guidelines were used to gather information following the August 14 <sup>th</sup> Blackout, a report was presented to the RCC at their November meeting. Another draft report will be presented at the March 2004 RCC meeting.		
	<b>NPCC Contact:</b>	<b>Frantz Roc</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Latest Review:</b>	<b>Frequency of Reviews:</b>
<b>ROC</b>	Review On-Line Computer System Status Reports	Review of member on-line computer system statuses and plans.	<b>January 2003</b>	<b>As needed</b>
	<b>Status/ Comments:</b>	The TFIST will be determining the need to review these reports.		
	<b>NPCC Contact:</b>	<b>Frantz Roc</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON SYSTEM PROTECTION

### Working Groups/Ad Hoc Assignments

<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>Latest Version:</b>	<b>January 2004</b>
			<b>Frequency of Reviews:</b>	<b>3 months</b>
	<b>Status/ Comments:</b>	The TFSP will discuss this topic with the WECC Relay Working Group at the next meeting on March 30, 2004.		
	<b>NPCC Contact:</b>	<b>Quoc Le</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON SYSTEM PROTECTION

### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>A-4</b>	Maintenance Criteria for Bulk Power System Protection	This document establishes the maintenance interval and practices which should result in dependable and secure protection system operation.	<b>Latest Version:</b>	<b>December 2000</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>December 2003</b>
	<b>Status/ Comments:</b>	This document has been submitted for Open Process Review.		
	<b>NPCC Contact:</b>	<b>Quoc Le</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>A-5</b>	Bulk Power System Protection Criteria	This document establishes the minimum design objectives and recommends design practices to minimize the severity and extent of system disturbances and to minimize possible damage to system equipment.	<b>Latest Version:</b>	<b>November 14, 2002</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>November 2005</b>
	<b>Status/ Comments:</b>	At is November 2002 meeting, the TFSP agreed, for the next review A-5, to incorporate the frame ground relay and breaker failure relay, to clarify that they both cannot be disabled by a single event.		
	<b>NPCC Contact:</b>	<b>Quoc Le</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>A-11</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>November 14, 2002</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>November 2005</b>
	<b>Status/ Comments:</b>	This document was approval by the RCC at their November 2002 meeting, and is the replacement for the previous "B-11" Special Protection System Guideline.		
	<b>NPCC Contact:</b>	<b>Quoc Le</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON SYSTEM PROTECTION

### Documents

Item	Name	Assignment	Latest Version:	
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>November 14, 2002</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>November 2005</b>
	<b>Status/ Comments:</b>	This document was approved by the RCC at their November 2002 meeting.		
	<b>NPCC Contact:</b>	<b>Quoc Le</b>		

Item	Name	Assignment	Latest Version:	
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>November 14, 2002</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>November 2005</b>
	<b>Status/ Comments:</b>	This document was approved by the RCC at their November 2002 meeting.		
	<b>NPCC Contact:</b>	<b>Quoc Le</b>		

Item	Name	Assignment	Latest Version:	
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.	<b>Latest Version:</b>	<b>March 2001</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>March 2004</b>
	<b>Status/ Comments:</b>	This document has been submitted for Open Process Review.		
	<b>NPCC Contact:</b>	<b>Quoc Le</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON SYSTEM PROTECTION

### Documents

Item	Name	Assignment	Latest Version:	
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.	<b>Latest Version:</b>	<b>November 14, 2002</b>
			<b>Frequency of Reviews:</b>	<b>3 Years</b>
			<b>Next Review Date:</b>	<b>November 2005</b>
	<b>Status/ Comments:</b>	This document was approved by the RCC at their November 2002 meeting.		
	<b>NPCC Contact:</b>	<b>Quoc Le</b>		

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.	<b>Latest Version:</b>	<b>November 14, 2002</b>
			<b>Frequency of Reviews:</b>	<b>3 Years</b>
			<b>Next Review Date:</b>	<b>November 2005</b>
	<b>Status/ Comments:</b>	This document was approved by the RCC at their November 2002 meeting.		
	<b>NPCC Contact:</b>	<b>Quoc Le</b>		

Item	Name	Assignment	Latest Version:	
TFSP	Task Force Scope	This document outlines the Task Force on System Protection scope of activities.	<b>Latest Version:</b>	<b>November 14, 2002</b>
			<b>Frequency of Reviews:</b>	<b>3 Years</b>
			<b>Next Review Date:</b>	<b>November 2005</b>
	<b>Status/ Comments:</b>	This document was approved by the RCC at their November 2002 meeting.		
	<b>NPCC Contact:</b>	<b>Quoc Le</b>		



# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON SYSTEM PROTECTION

### Surveys/Reviews

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Latest Version:</b>	<b>Frequency of Reviews:</b>
<b>RPS</b>	Review protection systems for proposed installations or existing installations undergoing substantial modifications	Review, in accordance with the Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System (Document C-22) proposed protection systems, including special protection systems, for new major installations as well as existing installations undergoing substantial modifications, before such facilities are constructed or modified and report on the findings with respect to compliance with the NPCC Bulk Power System Protection Criteria (Document A-5) and Special Protection System Criteria (Document A-11).	<b>January 2004</b>	<b>3 months</b>
<b>Status/ Comments:</b>		At each meeting, the TFSP discusses protection system changes, including SPS installations and modifications, as proposed by entities within NPCC.		
<b>NPCC Contact:</b>		<b>Quoc Le</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Latest Version:</b>	<b>Frequency of Reviews:</b>
<b>RPSP</b>	Review protection system performance following major system events or disturbances	In conjunction with other task forces, review and analyze the detailed performance of protection systems following major power system disturbances and events and participate in the preparation of reports, which would include appropriate recommendations.	<b>January 2004</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.		
<b>NPCC Contact:</b>		<b>Quoc Le</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON SYSTEM STUDIES

### Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
<b>SS-37</b>	Base Case Development Working Group	On an annual basis, develop a library of solved load flow cases and associated dynamic data.	<b>2004 Budget:</b>	<b>\$10,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	Year 2003 Base Case Development effort is complete and Year 2004 development is currently underway.		
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

Item	Name	Assignment		
<b>SS-38</b>	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.	<b>2004 Budget:</b>	<b>\$20,000</b>
			<b>Expense to Date:</b>	<b>\$5,200</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	A final UFLS report was completed and was presented to the RCC for approval in March 2003. The implementation of the recommendations from the report will be coordinated by the TFCP; a status report was given at the July RCC meeting.		
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## 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>November 7, 2001</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>November 2004</b>
	<b>Status/ Comments:</b>	TFSS to review need to update document in 2004.		
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

<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>November 2002</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>November 2005</b>
	<b>Status/ Comments:</b>	The document has completed the NPCC Open Process review and was approved at the November 2002 RCC meeting.		
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-18</b>	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>January 1999</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>January 2004</b>
	<b>Status/ Comments:</b>	This document is currently under review.		
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON SYSTEM STUDIES

### Documents

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-25</b>	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>May 5, 2001</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>June 2004</b>
	<b>Status/ Comments:</b>	TFSS to review need to update document in 2004.		
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>TFSS</b>	Task Force Scope	The Task Force on System Studies scope of activities.	<b>Latest Version:</b>	<b>February 2003</b>
			<b>Frequency of</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>January 2006</b>
	<b>Status/ Comments:</b>	Revised TFSS Scope was approved at the March 2003 RCC meeting.		
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## 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>March 2003</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Completion Date:</b>	<b>March 2006</b>
			<b>Status/ Comments:</b>	A final UFLS report was completed and was approved at the RCC in March 2003. The implementation of the recommendations from the report will be coordinated by the TFCP; a status report will be given at the March 2004 RCC meeting.
<b>NPCC Contact:</b>	<b>Donal Kidney</b>			
<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 is currently conducting the Survey.
<b>NPCC Contact:</b>	<b>Donal Kidney</b>			
<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>March 2003</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>November 2004</b>
			<b>Status/ Comments:</b>	Currently under review by the TFSS. Review was presented to the RCC in November 2003.
<b>NPCC Contact:</b>	<b>Donal Kidney</b>			

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## TASK FORCE ON SYSTEM STUDIES

### Surveys/Reviews

<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>September 2002</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>September 2004</b>
			<b>Status/ Comments:</b>	An interim review is currently underway.
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		
<b>NYTR</b>	New York Area Transmission Review	Review of New York Area future transmission plans (4-6 years out).	<b>Latest Version:</b>	<b>March 2003</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>March 2004</b>
			<b>Status/ Comments:</b>	An interim review will be presented at the July 2004 RCC meeting.
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		
<b>ONTR</b>	Area Transmission Review	Review of Ontario Area future transmission plans (4-6 years out).	<b>Latest Version:</b>	<b>December 2002</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>December 2004</b>
			<b>Status/ Comments:</b>	An interim review will be presented at the March 2004 RCC meeting.
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

# 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).	<b>Latest Version:</b>	<b>November 2002</b>
			<b>Frequency of Reviews:</b>	<b>1 year</b>
			<b>Next Review Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	An interim review will be presented at the March 2004 RCC meeting.		
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

Item	Name	Assignment		
TRS	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>May 2002</b>
			<b>2004 Budget:</b>	<b>\$50,000</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Completion Date:</b>	<b>May 2005</b>
			<b>Expense to Date:</b>	<b>\$0</b>
	<b>Status/ Comments:</b>	The SS-38 Working Group has conducted the 2001 Overall Transmission Reliability Study. The Study simulates contingencies in each of the NPCC Areas plus PJM to determine the overall robustness of the system. The report was approved by the RCC at their July 2002 Meeting		
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## MACC - ECAR - NPCC (MEN)

### Study Committees

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Completion Date:</b>
<b>MEN SC</b>	MEN Study Committee	The MEN Study Committee directs the activities of the MEN 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.	<b>December 2003</b>

**Status/ Comments:** The MEN Working Group and Study Committees had been fully devoted to conduct the steady state analysis portion of the August 14 disturbance investigation for NERC and the US-Canada Investigation Team. This included the development of a base case replicating conditions on August 14 representing conditions just before the first major circuit outage. In addition, each significant outage throughout the disturbance was simulated and benchmarked and various “What If” scenarios were studied. As a result, the issuance of the 2003/04 Winter MEN Inter-regional Assessment Study Report had been delayed from the normal completion time and was issued later than in previous years. However, the transfer capability results and comparison to previous years has been completed on time.

**NPCC Contact:** **Paul Roman**



# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## MACC - ECAR - NPCC (MEN)

### Working Groups/Ad Hoc Assignments

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>MEN</b>	MAAC-ECAR-NPCC Working Group	The MEN Operating Studies Working Group, under the direction of the MEN Study Committee, conducts appraisals of the MAAC-ECAR-NPCC (MEN) interconnected systems for expected summer and winter periods.	<b>2004 Budget:</b>	<b>\$10,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The MEN/VEM base case had been finalized during early February. This case is being used for several other inter-regional studies (VEM, ECAR, 2004 MISO Coordinated Assessment, etc.) The outage, monitored lines and transfer participation files have been assembled. NPCC is conducting the testing for 2004 Summer.		
	<b>NPCC Contact:</b>	<b>Donal Kidney/Paul Roman</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

### Working Groups/Ad Hoc Assignments

<u>Item</u>	<u>Name</u>	<u>Assignment</u>	<u>Completion Date:</u>
<b>CRS</b>	Compliance Review Subcommittee	Develop NERC compliance procedures for those Planning Standards/Measurements that are in the NERC 2003 Compliance Program. Review/ develop Compliance Reports for the NERC 2003 Program as required.	<b>December 2004</b>
	<b>Status/ Comments:</b>	CRS to be replaced by a new NERC Committee, the Compliance and Certification Committee (CCC). The CCC Scope approved by the NERC Board of Trustees on June 10, 2003. This stakeholder group reports directly to the NERC BOT and will be responsible for approving policies and processes used by the NERC Compliance Enforcement and Organization Certification Programs.	
	<b>NPCC Contact:</b>	<b>Stan Kopman</b>	

<u>Item</u>	<u>Name</u>	<u>Assignment</u>	<u>Completion Date:</u>
<b>GAS</b>	Gas/Electric Interdependency Task Force	Determine the interdependency between gas pipeline operation and planning to future electric system operation and planning reliability over the next ten years.	<b>June 2004</b>
	<b>Status/Comments:</b>	Status report given at the February NERC BOT meeting; the Task Force expects to present its recommendations and report to the NERC PC in March, and to the NERC BOT in June.	
	<b>NPCC Contact:</b>	<b>Phil Fedora</b>	

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

### Working Groups/Ad Hoc Assignments

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.	<b>2004 Budget:</b>	<b>\$5,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The MMWG was directed to review and update the existing data release policies for power flow and dynamic data and models. In 2004, MMWG will assemble twelve load flow models that constitute the 2005 base case library and five dynamics library cases. The NPCC SS-37 Working Group on Base Case development is currently on schedule. All work is currently on schedule.		
	<b>NPCC Contact:</b>	<b>Donal Kidney</b>		

Item	Name	Assignment		
NERC-ISN	Interregional Security Network (ISN)	The ISN allows for the exchange of security data between Security Coordination Centers.	<b>2004 Budget:</b>	<b>\$120,000</b>
			<b>Expense to Date:</b>	<b>\$17,807</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	Expense represents monthly NERC network charge to provide ISN services for ISO New England, the New York ISO, the IMO and TransÉnergie.		
	<b>NPCC Contact:</b>	<b>Frantz Roc</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

### Working Groups/Ad Hoc Assignments

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>RAS</b>	Reliability Assessment Subcommittee (RAS)	Conduct an annual review of the overall reliability of the existing and planned generation and transmission systems of the ten 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.	<b>Latest Version:</b>	<b>December 2003</b>
			<b>Frequency of Reviews:</b>	<b>six months</b>
			<b>Completion Date:</b>	<b>June 2004</b>
	<b>Status/ Comments:</b>	The winter 2003 Assessment was released on November, 2003. The 2003/2012 long-term assessment was released in December 2003. The summer 2004 and the 2004/2013 long-term assessments are in progress and will be released mid-spring 2004.		
	<b>NPCC Contact:</b>	<b>Jerry Mosier</b>		

# NPCC RELIABILITY ASSESSMENT PROGRAM STATUS REPORT

## OTHER

### Working Groups/Ad Hoc Assignments

Item	Name	Assignment		
<b>DCWG</b>	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.	<b>2004 Budget:</b>	<b>\$5,000</b>
			<b>Expense to Date:</b>	<b>\$3,025</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	A first quarter 2004 meeting will be held in April 2004 in Washington DC to finalize the 2004 data submission for 2003 and discuss the 2004 data collection efforts. An EIA-IDC (Internet Data Collection) system is in place to collect Form 860 generator data. Currently under development is an EIA Form 411 data collection system that will also be internet based.		
	<b>NPCC Contact:</b>	<b>Guy Zito</b>		

Item	Name	Assignment		
<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>2004 Budget:</b>	<b>\$5,000</b>
			<b>Expense to Date:</b>	<b>\$0</b>
			<b>Completion Date:</b>	<b>December 2004</b>
	<b>Status/ Comments:</b>	The Working Group has developed a Northeastern Planning Protocol document that outlines how Inter-Regional planning will be done. All NPCC Areas and PJM are involved with the effort. The document is currently in its final stage of review and will be presented to the Area's stakeholders for final input before formal execution. NPCC has developed and is maintaining a website for the effort.		
	<b>NPCC Contact:</b>	<b>Guy Zito</b>		