



1515 BROADWAY, NEW YORK, NY 10036-8901 TELEPHONE: (212) 840-1070 FAX: (212) 302-2782

**RCC Meeting
November 28-29, 2006
Agenda Item 3.9**

November 14, 2006

Members, Reliability Coordinating Committee

Re: NPCC Reliability Assessment Program (NRAP) Summary Report

The NPCC Reliability Assessment Program Summary Report has been updated (as of November 14th - see attached) and will be presented at the November 28-29 Reliability Coordinating Committee meeting. The full updated NRAP Status Report will be posted in Adobe format in the Current Year NRAP folder on the NPCC Home Page. The URL to the folder is:

<http://www.npcc.org/NRAP.asp?Folder=CurrentYear>

Please note that the full report is only “distributed” with this reference.

Sincerely,

Phil Fedora

Philip A. Fedora
Director
Regulatory Affairs, Market Reliability

cc: 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
NPCC Working Group Chairs
NPCC Staff

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

Page #	PROJECT DESCRIPTION	2006 BUDGET	2006 EXPENSE
3	CO-1 Control Performance Working Group	\$25,000	\$9,200
4	CO-2 Dispatcher Training Working Group	\$17,500	\$24,922
5	CO-7 Operational Review Working Group	\$15,000	\$13,700
6	CO-8 System Operations Managers Working Group	\$25,000	\$11,050
7	C-15 Solar Alert Service	\$20,000	\$20,000
7	CO-10 Operational Tools Working Group	\$15,000	\$19,600
8	LESPWG Lake Erie Security Process Working Group	\$5,000	\$0
8	CO-13 Available Transfer Capability Working Group	\$5,000	\$5,450
9	DCWG Data Collection Working Group	\$10,000	\$1,325
10	IRCWG (CO-11) Inter-Control Area Restoration Coordination Working Group	\$15,000	\$15,600
10	CO-12 Operations Planning Working Group	\$15,000	\$3,450
11	CP-8 Working Group on Review of Resource and Transmission Adequacy	\$65,000	\$16,722
11	CP-2006S Summer 2006 Multi-Area Probabilistic Reliability Assessment	\$76,000	\$59,908
12	CP-2006W Winter 2006-07 Multi-Area Probabilistic Reliability Assessment	\$50,000	\$0
12	CP-TIE Review of Interconnection Assistance Reliability Benefits	\$60,000	\$23,026
13	CP-9 Review of NERC Reliability Standards Working Group	\$30,000	\$37,954
13	CP-11 <i>NPCC Basic Criteria for Design and Operation of Interconnected Power Systems Review Working Group</i>	\$10,000	\$0

**NPCC RELIABILITY ASSESSMENT PROGRAM
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Page #	PROJECT DESCRIPTION	2006 BUDGET	2006 EXPENSE
14	SEDRWG (SP-6) Synchronized Event Data Reporting Working Group	\$6,000	\$0
14	SS-37 Base Case Development Working Group	\$10,000	\$12,050
15	SS-38 Inter-Area Dynamic Analysis Working Group	\$20,000	\$8,700
15	RFC-NPCC RFC-NPCC Working Group (f/n/a MEN)	\$10,000	\$3,600
16	MMWG Multiregional Modeling Working Group	\$5,000	\$0
16	IST-1 Infrastructure Security and Technology Workshop	\$5,000	\$100
17	IST-2 TFIST Telecommunication Working Group	\$5,000	\$0
17	IST-3 TFIST EMS-SCADA Working Group	\$5,000	\$0
18	IST-4 TFIST Cyber Security Working Group	\$5,000	\$0
18	IST-5 TFIST Physical Security Working Group	\$5,000	\$0
TOTAL		\$534,500¹	\$286,357

¹ At its September 8, 2005 meeting, the Executive Committee approved a recommendation that NPCC's 2006 Regional Budget include \$327,600 in Account #800 "Project Expense". Historically, total expenses have generally ranged from approximately 60 to 80 percent of the annual budget estimate.

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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 (TFCO), it conducts investigations of control performance problems.	2006 Budget:	\$25,000
			Expense to Date:	\$9,200
			Completion Date:	December 2006

Status/ Comments: A proposed draft of NPCC Document A-06, "Operating Reserve Criteria," incorporating the concepts of load as synchronized operating reserve, was presented by the Working Group to the Task Force on Coordination of Operation at the TFCO meeting of November 8 and 9, 2006. This revision to NPCC Document A-06, together with a new definition of synchronized reserve proposed for NPCC Document A-07, "NPCC Glossary of Terms," will be further considered by the TFCO at its meeting of January 11 and 12, 2006.

Following the implementation of Regional Reserve Sharing by the NPCC Areas, the CO-1 Working Group has assessed its effectiveness over the course of the year and has prepared a summary report for presentation to the NPCC Reliability Coordinating Committee at its meeting of November 28 and 29, 2006..

The CO-1 presented its white paper on the implications of inter-area operating reserve to the TFCO at the Task Force meeting of November 8 and 9, 2006, including several recommendations for implementation. These will be discussed further at the January 11 and 12, 2007, meeting of the TFCO.

**NPCC Staff:
Reference:**

**Jerry Mosier
TFCO Workplan**

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Item	Name	Assignment		
CO-2	System Operator 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 CO-2 Working Group also evaluates and propose new techniques and training aids as they become available.	2005 Budget:	\$17,500
			Expense to Date:	\$24,922
			Next Seminar:	Fall 2006

Status/ Comments: The CO-2 Working Group continues to coordinate 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.

The CO-2 Working Group has completed its 2006 Fall Operators Seminar, held on October 26 and 27, 2006.

NPCC Staff: Paul Roman
Reference: TFCO Workplan

NPCC RELIABILITY ASSESSMENT PROGRAM SUMMARY REPORT

Item	Name	Assignment		
CO-7	Operational Review Working Group	To assess, coordinate and evaluate regional operational issues and reliability concerns as directed by the TFCO. Periodically review NPCC's Regional Reliability Plan and the Registration and Certification of entities to achieve conformance with NPCC criteria and NERC Standards.	2006 Budget:	\$15,000
			Expense to Date:	\$13,700
			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," with a new NPCC Type "A" criterion, NPCC Document A-13. Subsequently the new A-13 will be converted into a Regional Standard. The objective is to address the content of both the NERC Standards MOD-024-1, "Verification of Generator Gross and Net Real Power Capability," and MOD-025-1, "Verification of Generator Gross and Net Reactive Power Capability. The first draft of NPCC Document A-13 is currently posted for public comment through the NPCC Open Process; comments will have been received through November 27, 2006.

The 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 documentation addresses all of the requirements of the evolving NERC Reliability Standards. This work is currently in progress.

NPCC Staff: Jim Hartwell
Reference: TFCO Workplan

**NPCC RELIABILITY ASSESSMENT PROGRAM
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Item	Name	Assignment		
CO-8	System Operations Managers Working Group	Provide a forum for the Managers of the NPCC control centers to identify and discuss security concerns in the operation of the interconnected bulk power supply system, and specific concerns related to the integration of operation between and among the evolving ISOs. The System Operations Managers Working Group will also assist the Task Force on Coordination of Operation in their work on issues related to system security and the operation of the ISOs, and provide advice to the TFCO, as requested.	2006 Budget:	\$25,000
			Expense to Date:	\$11,050
			Completion Date:	December 2006
	Status/ Comments:	The Working Group is in the process of converting two NPCC Type B Guides to Procedures. NPCC Document B-13, "Guide for Reporting System Disturbances," will become C-42, "Procedures for Reporting and Reviewing System Disturbances," and NPCC Document B-03, "Guidelines for Inter-AREA Voltage Control," will be converted to NPCC Document C-40, "Procedures for Inter-AREA Voltage Control." The two documents will be presented to the Task Force on Coordination of Operation for approval at the TFCO meeting of January 11 and 12, 2007. The Working Group is addressing the need to exchange necessary generator outage information within NPCC Document C-13, "Operational Planning Coordination."		
		The CO-8 work plan will be modified to charge the working group to provide the Task Force on Coordination of Operation with a written summary of all disturbance reviews submitted to it. This expanded process is intended to assist the TFCO in conducting disturbance reviews by providing a summary of outstanding issues, lessons learned and proposed mitigation plans.		
	NPCC Staff:	Jerry Mosier		
	Reference:	TFCO Workplan		

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Item	Name	Assignment		
C-15	Solar Alert Service	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:	March 2003
			2006 Budget:	\$20,000
			Expense to Date:	\$20,000
			Frequency of Reviews:	3 Years
			Next Review Date:	June 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." Following its review by the Task Force on Coordination of Operation, the revised draft was posted for public comment through the NPCC Open Process through September 16, 2006. Based on a comment received, the TFCO has petitioned the Task Force on System Protection to for a technical opinion at its meeting of November 14 and 15, 2006. Following a resolution of the question, the NPCC Document C-15 will be released.		
	NPCC Staff Reference:	Jerry Mosier TFCO Workplan		

Item	Name	Assignment		
CO-10	Operational Tools Working Group	The Operational Tools Working Group (CO-10) is responsible for taking a lead role in the development of NPCC and NERC operational tools (e.g. electronic tagging, the NERC Interchange Distribution Calculator and electronic scheduling), including hardware, software and integrated systems. The Operational Tools Working Group will define the need for operational tools, evaluate the cost benefits of operational tools, coordinate their implementation within NPCC and coordinate common training in the use of operational tools.	2006 Budget:	\$15,000
			Expense to Date:	\$19,600
			Completion Date:	December 2006
	Status/ Comments:	Newly developed NPCC Document C-17, "Procedures for Monitoring and Reporting Critical Operating Tool Failures," is currently posted for public comment through the NPCC Open Process; comments will have been received through November 24, 2006.		
		The CO-10 Working Group also continues to pursue: 1) potential web services applications; 2) the progress and recommendations of the NERC Real time Best Practices Task Force; 3) the use of Facilitated Transaction Checkout in all NPCC Areas, PJM and Midwest ISO; and, 4) the progress of the Eastern Interconnect Phasor Project (EIPP).		
	NPCC Staff Reference:	Paul Roman TFCO Workplan		

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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, the New York ISO, 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:	At its meeting of January 11 and 12, 2007, the Task Force on Coordination of Operation will reconsider the need for the Working Group.		
	NPCC Staff Reference:	Paul Roman TFCO Workplan		

Item	Name	Assignment		
CO-13	Available Transfer Capability Working Group	Review the procedures developed by the Regions (or sub-regions) for determining ATC to ensure that the procedures are in concert with the ATC Principles in NERC's June 1996 Available Transfer Capability Definitions and Determination report.	2006 Budget:	\$5,000
			Expense to Date:	\$5,450
			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 and those changes have been completed. The Working Group has also completed enhancements to the NPCC ATC/TTC webpage to conform with 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.		

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Item	Name	Assignment (continued)		
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:	\$5,450
			Completion Date:	December 2006

The CO-13 Working Group is working to ensure that all applicable NERC M001-09 standard requirements are conveyed in the appropriate NPCC document; modifications to NPCC Document A-02 will be proposed to the Task Force on Coordination of Operation to incorporate these requirements. The CO-13 will work with the Compliance Monitoring and Assessment Subcommittee and TFCO to ensure that its white paper, "Whitepaper on Regional Methodology and Guidelines for Forecasting TTC and ATC," satisfies the NERC requirement for a methodology document.

NPCC Staff: Guy Zito
Reference: TFCO Workplan

Item	Name	Assignment		
DCWG	Data Collection Working Group	Serve as the electric utility industry's coordinator with the Department of Energy (DOE) and the Energy Information Administration (EIA) in submitting yearly data and in negotiating the requirements for data submission to the EIA.	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 December 2006, will be a joint meeting with NERC and RAS.

NPCC Staff: Reza Rizvi

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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:	\$15,600
			Completion Date:	December 2006
	Status/ Comments:	Following its approval by the Task Force on Coordination of Operation, the new NPCC Type A Criterion, NPCC Document A-12, "System Restoration Criteria," addressing the fundamental requirements of restoration, was posted for public comment through the NPCC Open Process; comments will have been received through November 27, 2006. At its meeting of November 15 and 16, 2006, the Working Group will address comments received to date on A-12 as well as the need for additional Type C Procedures to complement NPCC Criteria addressing restoration.		
	NPCC Staff: Reference:	Jerry Mosier TFCO Workplan		

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:	\$3,450
			Completion Date:	December 2006
	Status/ Comments:	The 2006/07 Winter Assessment will be initiated presented for approval to the NPCC Reliability Coordinating Committee at its meeting of November 28 and 29, 2006. The Working Group has also completed an analysis of the NPCC system wide conditions on the coincident peak day for the summer of 2006 (August 1, 2006) and a comparison of these actual conditions with those forecast in the CO-12 assessment for the 2006 summer operating period.		
	NPCC Staff: Reference:	Paul Roman TFCO Workplan		

**NPCC RELIABILITY ASSESSMENT PROGRAM
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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:	\$16,722
			Completion Date:	December 2006
	Status/ Comments:	The scope of work and schedule for the NPCC 2007 Summer Multi-Area Probabilistic Assessment was approved by the TFCP and will be sent to the RCC for their review/approval at their November 2006 meeting. Also included for approval at the November 2006 RCC are the New York Comprehensive Review of Resource Adequacy, the Ontario Comprehensive Review of Resource Adequacy, the New England Interim Review of Resource Adequacy, the NPCC Interregional Long Range Adequacy Overview, and the NPCC Multi-Area Probabilistic Reliability Assessment for Winter 2006/07.		
	NPCC Staff Reference:	Phil Fedora TFCP Workplan		

Item	Name	Assignment		
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.	2006 Budget:	\$76,000
			Expense to Date:	\$59,908
			Completion Date:	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 Reference:	Phil Fedora TFCP Workplan		

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Item	Name	Assignment		
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:	Nov. 2006
	Status/ Comments:	The NPCC Multi-Area Probabilistic Reliability Assessment for Winter 2006/07 was approved by the TFCP and will be presented for review/approval at the November 2006 RCC meeting.		
	NPCC Staff Reference:	Phil Fedora TFCP Workplan		

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 Budget:	\$60,000
			Expense to Date:	\$23,026
			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 Reference:	Phil Fedora TFCP Workplan		

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Item	Name	Assignment		
CP-9	Review of NERC Reliability Standards Working Group	Review the Standards Authorization Requests and Reliability Standards as well as participate in the NERC process. Educate and inform NPCC Membership of developments, Develop ballot recommendations. Develop Regional Standards Process.	2006 Budget:	\$30,000
			Expense to Date:	\$37,954
			Completion Date:	December 2006
	Status/ Comments:	The CP-9 Working Group is focusing on the review of the Version 1 NERC Reliability Standards (as they are developed). CP-9 is currently reviewing the FERC NOPR on Mandatory Reliability Standards and is developing comments. 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.		
	NPCC Staff Reference:	Guy Zito TFCP Workplan		

Item	Name	Assignment		
CP-11	<i>NPCC Basic Criteria For Design and Operation Of Interconnected Power Systems Review Working Group</i>	This Working Group is charged with the revision of the NPCC Basic Design Criteria Document A-02 and the NPCC Glossary of Terms Document A-07.	2006 Budget	\$10,000
			Expense to Date:	\$0
			Completion Date:	December 2006
	Status/ Comments:	CP-11 met on October 26, 2006 to review the TFSS proposed changes to Document A-10, Classification of Bulk Power System Elements, and the TFSS final report on the results of each Area's testing of the proposed methodology contained in A-10. CP-11 finalized a revised draft incorporating the TFSS comments at the meeting and distributed it to CMAS and the Task Forces on October 30, 2006 for review and approval. The revised draft is to be posted in the NPCC Open Process immediately after the close of the November 13, 2006 deadline for comments and review of those comments. CP-11 will also be providing comments to the definition of bulk power system contained in the recently issued FERC NOPR on Reliability Standards.		
	NPCC Staff Reference:	Stan Kopman TFCP Workplan		

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

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:	\$12,050
			Completion Date:	December 2006
	Status/ Comments:	Year 2006 development effort is currently underway and on schedule to coordinate with MMWG.		
	NPCC Staff: Reference:	Donal Kidney TFSS Workplan		

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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:	\$8,700
			Completion Date:	December 2006
	Status/ Comments:	SS-38 is currently conducting an UFLS study paying close attention to the occurrences of the August 14 blackout. 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		

Item	Name	Assignment		
RFC-NPCC	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 expected summer and winter periods.	2006 Budget:	\$10,000
			Expense to Date:	\$3,600
			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. The Winter 2006/07 study has been completed and a final report issued for approval at JIRC.		
	NPCC Staff:	Donal Kidney/Paul Roman		

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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		

Item	Name	Assignment		
IST-1	Infrastructure Security and Technology Workshop	Periodic workshops to address timely issues and update member system personnel associated with the provision of on-line computer systems for operation of the power system.	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		

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Item	Name	Assignment		
IST-2	TFIST Telecommunication Working Group	Provide a forum to identify, discuss and advance the technology of Telecommunications Infrastructure for the reliable operation of the NPCC 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 responded 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. COM001 and COM002 were reviewed for TFIST and the CP-9 WG. IST-2 is reviewing COM001 and COM002 again.		
	NPCC Staff Reference:	Brian Hogue TFIST Workplan		

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 have responded 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		

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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. The 2007-2008 TFIST Work Plan has defined action items for this Working Group.		
	NPCC Staff Reference:	Brian Hogue TFIST Workplan		

Item	Name	Assignment		
IST-5	TFIST Physical Security Working Group	Provide a forum to identify, discuss and advance the use of Physical Security for the reliable operation of the NPCC Bulk Power System. The Physical Security Working Group (IST-5) will also support TFIST in their work on issues related to Physical Security.	2006 Budget:	\$5,000
			Expense to Date:	\$0
	Status/ Comments:	The Physical Security Working Group is in the process of being formed. The 2007-2008 TFIST Work Plan has defined action items for this Working Group.		
	NPCC Staff Reference:	Brian Hogue TFIST Workplan		