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**RCC Meeting
September 6, 2006
Agenda Item 3.12**

August 15, 2006

Members, Reliability Coordinating Committee
NPCC Officers

Re: NPCC Reliability Assessment Program (NRAP) Summary Report

The NPCC Reliability Assessment Program Summary Report has been updated (as of August 15, 2006 - see attached) and will be presented at the September 6, 2006 Reliability Coordinating Committee meeting.

The full updated NRAP 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	\$7,600
4	CO-2 Dispatcher Training Working Group	\$17,500	\$17,022
5	CO-7 Operational Review Working Group	\$15,000	\$12,450
6	CO-8 System Operations Managers Working Group	\$25,000	\$9,150
7	C-15 Solar Alert Service	\$20,000	\$20,000
7	CO-10 Operational Tools Working Group	\$15,000	\$9,550
8	LESPWG Lake Erie Security Process Working Group	\$5,000	\$0
8	CO-13 Available Transfer Capability Working Group	\$5,000	\$1,300
9	DCWG Data Collection Working Group	\$10,000	\$1,325
10	IRCWG (CO-11) Inter-Control Area Restoration Coordination Working Group	\$15,000	\$11,800
10	CO-12 Operations Planning Working Group	\$15,000	\$2,400
11	CP-8 Working Group on Review of Resource and Transmission Adequacy	\$65,000	\$13,172
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	\$21,225
13	CP-9 Review of NERC Reliability Standards Working Group	\$30,000	\$31,354
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	\$7,300
15	SS-38 Inter-Area Dynamic Analysis Working Group	\$20,000	\$6,950
15	RFC-NPCC RFC-NPCC Working Group (f/n/a MEN)	\$10,000	\$2,700
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	\$235,306

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:	\$7,600
			Completion Date:	December 2006

Status/ Comments: The Working Group CO-01 has completed its assessment of the technical feasibility of incorporating dispatchable load as part of synchronized operating reserve. The conclusions of the Working Group will be included in a white paper being developed by the Task Force on Coordination of Operation for submission to the Reliability Coordinating Committee.

Following the implementation of Regional Reserve Sharing by the NPCC Areas, the CO-1 Working Group is assessing the effectiveness of the program over the course of the year and will prepare a summary report for the Task Force on Coordination of Operation at the end of the calendar year 2006.

NPCC Staff: Jerry Mosier
Reference: 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:	\$17,022
			Next Seminar:	Fall 2006

Status/ Comments: The CO-2 Working Group is coordinating the development of operator training programs among the NPCC Areas to ensure that the programs will meet the new NERC Program requirements for operator certification and re-certification. With the new program operator re-certification will come only through attainment of Continuing Education Hours (CEHs) and not through testing. Re-certification will be required every 3 years versus the present 5 years. The NPCC training programs will need to provide enough opportunities for operators to get sufficient CEHs. CO-2 is meeting jointly with CO-8 on Aug. 29-30, 2006 to review the status of training programs in each NPCC Area. CO-2 is beginning preparation for the 2006 Fall Operators Seminar that will be held on October 26-27, 2006 at Niagara Falls, Ontario.

NPCC 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:	\$12,450
			Completion Date:	December 2006

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

NPCC Staff: Jim Hartwell
Reference: TFCO Workplan

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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:	\$9,150
			Completion Date:	December 2006
	Status/ Comments:	The CO-08 Working Group has posted for public comment through the NPCC Open Process a revised NPCC Document C-15, "Procedures for Solar Magnetic Disturbances on Electric Power Systems." The new document is scheduled for release in September of 2006.		
		The CO-08 Working Group continues to: 1) develop draft revisions of NPCC Documents B-03, "Guidelines for Inter-AREA Voltage Control," B-13, "Guide for Reporting System Disturbances," and C-13, "Operational Planning Coordination"; 2) work with the CO-01 Working Group to identify the information and data exchange necessary among the Areas to realize counter-flow SAR shares in the NPCC program of Shared Activation of Reserve ("negative SAR"); and, 3) to coordinate with the CO-02 Working Group to ensure that each NPCC Area is integrating the necessary training to permit the transition to the accumulation of continuing education hours for the renewal of NERC operator certification.		
	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." The revised draft is presently posted for public comment through the NPCC Open Process; comments will be received through September 16, 2006.		
	NPCC Staff Reference:	Jerry Mosier TFCO Workplan		

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:	\$9,550
			Completion Date:	December 2006
	Status/ Comments:	The CO-10 Working Group: 1) is investigating potential web services applications; 2) is participating in the analysis of the NERC Real time Best Practices Task Force survey of operating tools data; 3) has made additional revisions as suggested by TFCO to the re-written C-17 document which will be posted for NPCC Open Process review; 4) is continuing work to establish use of Facilitated Transaction Checkout in all NPCC Areas, PJM and Midwest ISO; and, 5) is following developments regarding phasor measurement application tools. The next CO-10 meeting is scheduled for Sept. 12-13, 2006.		
	NPCC Staff 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:	No recent activity.		
	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:	\$1,300
			Completion Date:	December 2006
	Status/ Comments:	The CO-13 Working Group has coordinated with the Mid-West System Operator to pull in TCC-ATC information to the NPCC web-site, and also track and participate in the NERC Long-Term ATC/AFC Task Force proceedings. The Working Group has also finalized the Regional ATC/TTC Methodology, a document required for compliance with NERC "Version 0" Reliability Standards. A letter from the TFCO to the CO-13 Working Group was issued specifying ATC-TCC web changes to meet OASIS and NERC Version "0" compliance. The Working Group has also completed enhancements to the NPCC ATC/TTC webpage to conform 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:	\$1,300
			Completion Date:	December 2006

The CO-13 Working Group is working to ensure that all applicable NERC 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 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 Fall 2006, will be a joint meeting with NERC and DOE.

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:	\$11,800
			Completion Date:	December 2006
	Status/ Comments:	<p>The Working Group has submitted to the TFCO a new NPCC Type A Criterion, NPCC Document A-12, "System Restoration Criteria," to address the fundamental requirements of restoration. The draft is currently scheduled to be presented to the Reliability Coordinating Committee at its meeting of November 28 and 29, 2006.</p> <p>The CO-11 Working Group completed the new Type C Procedure, NPCC Document C-35, and "NPCC Inter-Control Area Power System Restoration Reference Document." Document C-35 was approved by the NPCC Task Force on Coordination of Operation as an NPCC Type C Procedure on March 14, 2006.</p>		
	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:	\$2,400
			Completion Date:	December 2006
	Status/ Comments:	The 2006/07 Winter Assessment will be initiated in late August.		
	NPCC Staff: Reference:	Paul Roman TFCO Workplan		

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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:	\$13,172
			Completion Date:	December 2006
	Status/ Comments:	The scope of work and schedule for the NPCC Interregional Long-Range Adequacy Overview, and the Review of Interconnection Assistance reliability Benefits objective and scope of work was approved at the May 2006 RCC meeting.		
	NPCC Staff:	Phil Fedora		
	Reference:	TFCP Workplan		

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:	Phil Fedora		
	Reference:	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 scope and schedule for the proposed NPCC Multi-Area Probabilistic Reliability Assessment for Winter 2006-07 was approved by the TFCP at their August 9, 2006 meeting, and will be submitted for RCC approval at their September 2006 meeting.		
	NPCC Staff 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:	\$21,225
			Completion Date:	December 2006
	Status/ Comments:	The objective and scope of work for the next update of the study was approved by the RCC at their May 31, 2006, meeting. Initial Base Case development is underway, which will also be the basis for the NPCC Interregional Long-Range Adequacy Overview.		
	NPCC Staff Reference:	Phil Fedora TFCP Workplan		

NPCC RELIABILITY ASSESSMENT PROGRAM SUMMARY REPORT

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:	\$31,354
			Completion Date:	December 2006
	Status/ Comments:	<p>The CP-9 Working Group is focusing on the review of the Version 1 NERC Reliability Standards (as they are developed) and also the remaining emerging translation of the Planning Standards Phase III and IV. The CP-9 Working Group is developing recommendations for the membership on ballots as they transpire. CP-9 has also commented on increased reporting requirements proposed by the DOE/Energy Information Administration 411 and 860 Forms. CP-9 also developed a process to coordinate commenting and participating in adjacent Regions' criteria development, as well as promoting NPCC criteria in adjacent regions. The working group has completed a "mapping" project involving listing all NERC reliability standards requirements and mapping them into corresponding NPCC documentation. The responsibility for the document and its further updates have been assumed by the CMAS. In addition the CP9 has developed a CBRE Regional Reliability Standards Development Process which has been posted, revised and is now posted for a second open process review. The CP9 is planning to have the final draft document ready for RCC approval in November 2006.</p>		
	NPCC Staff Reference:	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:	<p>At the November 2005 RCC meeting, each NPCC Area presented its listing of existing Bulk Power System Elements. In addition it was reported that IESO and Hydro-Quebec had completed their testing of the proposed A-10 methodology for determining elements of the NPCC Bulk Power System. It was reported at the March 2006 meeting that the Maritimes (NB and NS) will complete their testing during September 2006 and along with NYISO and ISO-NE and will present a status report at the September 2006 RCC meeting on their testing efforts. TFSS will be drafting a report summarizing the results of each Area's testing, observations and possible recommendations for changes to the A-10 document and will present it to the RCC at its September 6, 2006 meeting.</p>		
	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 is addressing the recommendations made in the final report submitted at the June 1, 2005 RCC meeting. SP-6 is developing two new guidelines 1) NPCC Guide to Time Synchronization of Substation Equipment and 2) Guide for Application of Disturbance Recording Equipment – by December 2006.		
	NPCC Staff: 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:	\$7,300
			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:	\$6,950
			Completion Date:	December 2006

Status/ Comments: The implementation of the UFLS Report recommendations are being coordinated by the TFCP. Work on the TFSS Blackout 2003 Study is on-going. SS-38 is conducting a governor response survey.

NPCC Staff: Donal Kidney
Reference: TFSS Workplan

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:	\$2,700
			Completion Date:	December 2006

Status/ Comments: The existing NPCC-MAAC and NPCC-ECAR agreements will no longer be in effect and so a single Eastern Interconnection Interregional Assessment agreement has been developed and signed by all Eastern Interconnection Regional Reliability Organizations. This will eventually help provide a framework for all of the interregional studies. The NPCC-RFC (formerly MEN) and SERC-RFC (formerly VEM) Assessments will be guided by the Committees named in the Agreement. There will be differences between the Winter 2006/07 Winter RFC-NPCC Assessment and past MEN Assessments but the extent and type of changes have not yet been resolved. A conference call is scheduled to initiate the Winter Study.

NPCC Staff: Donal Kidney/Paul Roman

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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 is responding to three questions from CO-11, Inter-Control Area Restoration Working Group regarding: 1) operator telecommunications systems, 2) enhancing reliable voice communications, and 3) maintaining telecommunication documentation in NPCC documents. Preliminary answers were provided to CO-11 WG in May. COM001 and COM002 were reviewed for TFIST and the CP-9 WG. IST-2 is reviewing COM001 and COM002 again.		
	NPCC Staff 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 will respond to a question from CO-11, Inter-Control Area Restoration Working Group regarding control center and telecommunication center facilities.		
	NPCC Staff Reference:	Brian Hogue TFIST Workplan		

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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.		
	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.		
	NPCC Staff Reference:	Brian Hogue TFIST Workplan		