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**RCC Meeting
November 29 - 30, 2005
Agenda Item 3.6**

November 21, 2005

Members, Reliability Coordinating Committee

Re: NPCC Reliability Assessment Program (NRAP) Summary Report

The NPCC Reliability Assessment Program Summary Report has been updated (as of October 26, 2005 - see attached) and will be presented at the November 29 – 30, 2005 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, Market Reliability Interface

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	2005 BUDGET	2005 EXPENSE
3	CO-1 Control Performance Working Group	\$25,000	\$7,654
3	CO-2 Dispatcher Training Working Group	\$15,000	\$11,600
4	CO-7 Operational Review Team Working Group	\$5,000	\$7,440
4	CO-8 System Operations Managers Working Group	\$25,000	\$8,550
5	C-15 Solar Alert Service	\$15,000	\$20,000
5	CO-10 Operational Tools Working Group	\$15,000	\$7,350
6	LESPWG Lake Erie Security Process Working Group	\$15,000	\$0
6	CO-13 Available Transfer Capability Working Group	\$8,000	\$4,850
7	DCWG Data Collection Working Group	\$5,000	\$775
7	Inter-ISO Inter-ISO Planning Working Group	\$5,000	\$0
8	IRCWG (CO-11) Inter-Control Area Restoration Coordination Working Group	\$10,000	\$9,900
8	CO-12 Operations Planning Working Group	\$15,000	\$7,300
9	CP-8 Working Group on Review of Resource and Transmission Adequacy	\$60,000	\$5,190
9	CP-2005 Summer 2005 Multi-Area Probabilistic Reliability Assessment	\$50,000	\$35,301
10	CP-TIE Review of Interconnection Assistance Reliability Benefits	\$25,000	\$13,825
10	CP-9 Review of NERC Reliability Standards Working Group	\$25,000	\$19,629
11	RPF Regional Planning Forum	\$25,000	\$0

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

Page #	PROJECT DESCRIPTION	2005 BUDGET	2005 EXPENSE
11	CP-11 <i>NPCC Basic Criteria for Design and Operation of Interconnected Power Systems Review Working Group</i>	\$10,000	\$6,150
12	CP-GLOS Update NPCC Glossary	\$5,000	\$0
12	SEDRWG (SP-6) Synchronized Event Data Reporting Working Group	\$12,000	\$1,300
13	SS-37 Base Case Development Working Group	\$10,000	\$15,450
13	SS-38 Inter-Area Dynamic Analysis Working Group	\$20,000	\$9,675
14	TRS Overall Transmission Reliability Study	\$10,000	\$0
14	MEN MAAC-ECAR-NPCC Working Group	\$10,000	\$1,550
15	MMWG Multiregional Modeling Working Group	\$5,000	\$0
15	TFIST Infrastructure Security and Technology Working Group	\$20,000	\$0
16	IST-1 Infrastructure Security and Technology Workshop	\$5,000	(\$100)
TOTAL		\$450,000¹	\$193,349

¹ At its September 14, 2004 meeting, the Executive Committee approved a recommendation that NPCC's 2005 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.

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

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.	2005 Budget:	\$25,000
			Expense to Date:	\$7,654
			Completion Date:	December 2005
	Status/ Comments:	The Working Group CO-01 is actively engaged in the following efforts: 1) the ongoing assessment of the increasing number of frequency excursions being observed on the Eastern Interconnection; 2) a technical review of the benefits of the synchronized component of ten-minute operating reserve; and, 3) the monitoring of the current field test of the NERC Balancing Standard.		
	NPCC Staff Reference:	Jerry Mosier TFCO Workplan		

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 CO-2 Working Group also evaluates and propose new techniques and training aids as they become available.	2005 Budget:	\$15,000
			Expense to Date:	\$11,600
			Next Seminar:	Spring 2005
	Status/ Comments:	The CO-2 Working Group held the 2005/06 Winter Operators/Schedulers Seminar on Nov. 2-3 in Montreal. Some of the main presentations addressed: 1) the gas supply to New England generators concerns and mitigation plans for the coming winter, 2) new wind power generation sources and their status and 3) anticipated operating conditions for 2005/06 Winter.		
	NPCC Staff Reference:	Paul Roman TFCO Workplan		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

Item	Name	Assignment		
CO-7	Operational Review Team Working Group	To enhance the relationship between the control room personnel and NPCC, and to insure a continued understanding and effective implementation of the criteria and guides.	2005 Budget:	\$5,000
			Expense to Date:	\$7,400
			Completion Date:	December 2005
	Status/ Comments:	The CO-07 Working Group has completed its charge from the Task Force on Coordination of Operation to assess the initial registration process in NPCC for the Reliability Coordinator, Balancing Authority and the Transmission Operator to ensure the continuity of compliance with the NERC "Version 0" Reliability Standards. It is completing now a final revised NPCC Reliability Plan which recognizes the Reliability Coordinator for the Maritimes Area.		
	NPCC Staff Reference:	Jim Hartwell TFCO Workplan		

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.	2005 Budget:	\$25,000
			Expense to Date:	\$8,550
			Completion Date:	December 2005
	Status/ Comments:	In response to the charge from the Task Force on Coordination of Planning in its assessment of Blackout Recommendation 8c, the Working Group CO-08 will begin an update of NPCC Document B-03, "Guidelines for Inter-AREA Voltage Control," at its meeting of December 1 and 2, 2005. It will also begin a review of NPCC Document B-13, "Guide for Reporting System Disturbances," incorporating the new requirements for the reporting of the IROL and cyber security.		
	NPCC Staff Reference:	Jerry Mosier TFCO Workplan		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

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 2005 Budget: \$15,000 Expense to Date: \$20,000 Frequency of Reviews: 3 Years Next Review Date: March 2006
	Status/ Comments:	Conversion of the RD-09 document to C-15 approved and completed.	
	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.	2005 Budget: \$15,000 Expense to Date: \$7,350 Completion Date: December 2005
	Status/ Comments:	A CO-10/Facilitated Transaction Checkout (FTC) meeting was held on June 8 and August 16-17October 20-21. Present status of activities: FTC implementation is fully or very nearly completed at TransÉnergie, ISO-NE, NYISO and IESO. Work to implement is underway at NBSO, PJM and the Midwest ISO. CO-10 has: 1) received TFCO acceptance of a list of EMS failure modes that are reportable events with estimated recovery times for each. This will be used for CO-10/TFCO review of EMS failure events and will be documented in a procedure "C" document. 2) worked to ensure that the NPCC Reliability Coordinators and Transmission Operators completed the NERC Real time Best Practices Task Force survey of operating tools on schedule; 3) initiated revisions to the B-12 and C-12 Documents and coordinating this work with TFIST (TFIST may resume primary responsibility for these documents); and 3) explored additional web services applications such as Shared Activation of Reserve.	
	NPCC Staff Reference:	Paul Roman TFCO Workplan	

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

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.	2005 Budget:	\$15,000
			Expense to Date:	\$0
			Completion Date:	December 2005
	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.	2005 Budget:	\$8,000
			Expense to Date:	\$4,850
			Completion Date:	December 2005
	Status/ Comments:	A revised CO-13 Scope was completed and approved by the TFCO. 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 is also finalizing 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. TFCO approved the new Scope for the group. 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.		
	NPCC Staff Reference:	Guy Zito TFCO Workplan		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

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.	2005 Budget:	\$5,000
			Expense to Date:	\$775
			Completion Date:	December 2005
	Status/ Comments:	The EIA instituted its Form 411 internet based data collection system. NPCC Area's reporting requirements have been submitted. Next meeting planned for December will be a joint meeting with NERC RAS. The NPCC LCEFT report for 2005 has been posted on the NPCC web site.		
	NPCC Staff:	Guy Zito		

Item	Name	Assignment		
Inter-ISO	Inter-ISO Working Group	The Inter-ISO Working Group was formed to address Inter-Regional planning and Inter-Area issues of projects that have "cross border" impacts while providing an open stakeholder forum and committee structure to allow market input.	2005 Budget:	\$5,000
			Expense to Date:	\$0
			Completion Date:	December 2005
	Status/ Comments:	The Working Group has developed a Northeastern Planning Protocol document that outlines how Inter-Regional planning will be done. All NPCC Areas and PJM are involved with the effort. NPCC has developed and is maintaining a website for the effort. NPCC also participated in the group's meeting of PJM and NPCC stakeholders (IPSAC), and presented how NPCC supports wide-Area collaborative planning.		
	NPCC Staff:	Guy Zito		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

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.	2005 Budget:	\$10,000
			Expense to Date:	\$9,900
			Completion Date:	December 2005
	Status/ Comments:	The CO-11 Working Group is currently reviewing and updating the “NPCC Inter-Area Power System Restoration” reference document into a new procedure (C-35), and a new Criterion addressing restoration requirements.		
	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.	2005 Budget:	\$15,000
			Expense to Date:	\$7,300
			Completion Date:	December 2005
	Status/ Comments:	The 2005/06 Winter Assessment has been completed and issued. The completion date had been advanced 2 weeks to ensure that gas supply to generator concerns were addressed well ahead of the winter season and to issue the report in conjunction with the NERC 2005/06 Winter Reliability Assessment Subcommittee report. CO-12 is also addressing other charges from TFCO involving: 1) development of a document for operational review of new transmission facilities; 2) confirming there is consistency of demand and resources reporting for the NPCC Areas and with NERC RAS; and, 3) document methodology for conducting seasonal assessments.		
	NPCC Staff: Reference:	Paul Roman TFCO Workplan		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

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.	2005 Budget:	\$60,000
			Expense to Date:	\$5,190
			Completion Date:	December 2005
	Status/ Comments:	Comments were provided to the TFCP for their review and update of Document B-8. The Winter 2005/06 Multi-Area Probabilistic Reliability Assessment was approved by the RCC November 15 th and was posted on the NPCC web site on November 18 th . Approval of the Scope and Schedule for the 2006 Summer NPCC Multi-Area Probabilistic Reliability Assessment, the Ontario Interim Review of Resource Adequacy, and the New England Triennial Review of Resource Adequacy is expected at the November RCC meeting.		
	NPCC Staff Reference:	Phil Fedora TFCP Workplan		

Item	Name	Assignment		
CP- 2005	Summer 2005 Multi-Area Probabilistic Reliability Assessment	Assess NPCC Area reliability for the year 2005 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.	2005 Budget:	\$50,000
			Expense to Date:	\$35,301
			Completion Date:	April 2005
	Status/ Comments:	The NPCC Multi-Area Probabilistic Reliability Assessment for Summer 2005 was completed and released April 28 th . The report was posted on the NPCC web site.		
	NPCC Staff Reference:	Phil Fedora TFCP Workplan		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

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).	2005 Budget:	\$25,000
			Expense to Date:	\$13,825
			Completion Date:	December 2005
	Status/ Comments:	At the request of New Brunswick, the TFCP asked the CP-8 Working Group to study the impact of the proposed second New England – New Brunswick Tie Line; results were approved by the RCC at their March 9, 2005 meeting. The report and NB Tie Line addendum was posted on the NPCC web site. A scope and schedule for the next update of the report will be developed 1 st Quarter 2006.		
	NPCC Staff:	Phil Fedora		
	Reference:	TFCP Workplan		

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.	2005 Budget:	\$25,000
			Expense to Date:	\$19,629
			Completion Date:	December 2005
	Status/ Comments:	The CP-9 Working Group is focusing on the review of the "Version 1" NERC Reliability Standards (as they are developed) and also the emerging translation of the Planning Standards Phase III and IV. The CP-9 WG 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.		
	NPCC Staff:	Guy Zito		
	Reference:	TFCP Workplan		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

Item	Name	Assignment		
RPF (PW)	Regional Planning Forum (PowerWorld)	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.	2005 Budget	\$25,000
			Expense to Date:	\$0
			Completion Date:	December 2005
	Status/ Comments:	No recent activity.		
	NPCC Staff:	Phil Fedora		
	Reference:	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.	2005 Budget	\$10,000
			Expense to Date:	\$6,150
			Completion Date:	December 2005
	Status/ Comments:	The RCC approved the proposed Study Evaluation Plan at its September 7, 2005 meeting. The RCC will be presented, at the November meeting, with a list of existing Bulk Power System elements by the Areas along with a schedule for the completion of the required analysis to identify all elements of an Areas Bulk Power System utilizing the proposed NPCC Document A-10, "Criteria for Determination of Bulk Power System Elements".		
	NPCC Staff:	Stan Kopman		
	Reference:	TFCP Workplan		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

Item	Name	Assignment		
CP-GLOS	Update NPCC Glossary	Maintain the NPCC Glossary of Terms (Document A-7) and to expand the Glossary to include new terms as necessary.	2005 Budget:	\$5,000
			Expense to Date:	\$0
			Next Review Date:	December 2005
	Status/ Comments:	CP-11 will continue to discuss and revise Document A-7, the NPCC Glossary of Terms, with the intention of having it ready for posting to the NPCC Open Process during the first quarter of 2006.		
	NPCC Staff Reference:	Stan Kopman TFCP Workplan		

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.	2005 Budget:	\$12,000
			Expense to Date:	\$1,300
			Completion Date:	April 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		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

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.	2005 Budget:	\$10,000
			Expense to Date:	\$15,450
			Completion Date:	December 2005
	Status/ Comments:	Year 2005 development effort is currently underway and on schedule to coordinate with MMWG.		
	NPCC Staff:	Donal Kidney		
	Reference:	TFSS Workplan		

Item	Name	Assignment		
SS-38	Inter-Area Dynamic Analysis Working Group	Assigned to analyze dynamic phenomena, which may affect interconnected system reliability, especially in the area of low frequency oscillations.	2005 Budget:	\$20,000
			Expense to Date:	\$9,675
			Completion Date:	December 2005
	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. SS-38 has conducted an assessment of the need for and value of synchronized reserve to satisfy a request made to TFSS by the TFCO. The response was forwarded to TFCO by TFSS.		
	NPCC Staff:	Donal Kidney		
	Reference:	TFSS Workplan		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

Item	Name	Assignment		
TRS	Overall Transmission Reliability Study	Evaluate the need to perform an overall assessment to evaluate the thermal, and dynamic performance of the NPCC Region. If necessary perform this assessment including the calculation of Inter-Area transfer capabilities and Extreme contingency performance.	Latest Version:	May 2002
			2005 Budget:	\$10,000
			Frequency of Reviews:	3 years
			Completion Date:	December 2005
			Expense to Date:	\$0
	Status/ Comments:	The SS-37 Working Group has been assigned to conduct the 2004 Overall Transmission Reliability Study. The Study will simulate contingencies in each of the NPCC Areas plus PJM and ECAR to determine the overall robustness of the system. The study is progressing and is on target and will be presented at the November RCC meeting.		
	NPCC Staff:	Donal Kidney		
	Reference:	TFSS Workplan		

Item	Name	Assignment		
MEN	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.	2005 Budget:	\$10,000
			Expense to Date:	\$1,550
			Completion Date:	December 2005
	Status/ Comments:	The MEN/VEM 2006 Summer base case development work will be initiated within the next month. NPCC had chairing both the MEN Study Committee and Working Groups for the last several studies and it will rotate to the other regions for 2006 Summer.		
	NPCC Staff:	Donal Kidney/Paul Roman		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

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.	2005 Budget:	\$5,000
			Expense to Date:	\$0
			Completion Date:	December 2005
	Status/ Comments:	The MMWG is assembling twelve load flow models that constitute the 2005 base case library and five dynamics library cases. Development is currently on schedule. MMWG is also reviewing the proposed contractor's budgets for 2006 for base case and dynamics development with the goal of recommending them for approval to the NERC Planning Committee. MMWG is also reviewing compliance templates MOD-11 and MOD-013 as related to the MMWG Procedural Manual. 12 loadflows completed and posted on the NERC web site. Dynamics will be completed by the end of the year.		
	NPCC Staff:	Donal Kidney		

Item	Name	Assignment		
TFIST	Task Force on Infrastructure Security and Technology	The mission of the NPCC Task Force on Infrastructure Security and Technology (TFIST) is to advance the Physical and Cyber Security of the electricity infrastructure of Northeastern North America.	2005 Budget:	\$20,000
			Expense to Date:	\$0
			Completion Date:	December 2005
	Status/ Comments:	TFIST expects the NERC permanent Cyber Security Standards first ballot review period to start in the middle of January 2006. TFIST will seek the RCC's approval of 1) its 2006 Work Plan, 2) Scope of the Telecommunications Working Group and 3) Scope of the EMS-SCADA Working Group.		
	NPCC Staff:	Brian Hogue		
	Reference:	TFIST Workplan		

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

Item	Name	Assignment		
IST-1	Infrastructure Security and Technology Working Group	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.	2005 Budget:	\$5,000
			Expense to Date:	(\$100)
			Last Workshop:	October 2004
	Status/ Comments:	TFIST plans a 2006 Workshop.		
	NPCC Staff:	Brian Hogue		
	Reference:	TFIST Workplan		