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**RCC Meeting
June 1, 2005
Agenda Item 3.9**

May 25, 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 May 25th - see attached) and will be presented at the June 1st 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.

In addition, the latest status of NPCC assignments in response to the NERC Board of Trustees Blackout 2003 Recommendations and US/Canadian Outage Task Force Recommendations can be found at:

<https://www.npcc.org/member/blackoutRecommendations.asp?Folder=CurrentYear>

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	\$1,900
3	CO-2 Dispatcher Training Working Group	\$15,000	\$5,800
4	CO-7 Operational Review Team Working Group	\$5,000	\$2,550
4	CO-8 System Operations Managers Working Group	\$25,000	\$5,350
5	C-15 Solar Alert Service	\$15,000	\$0
5	CO-10 Operational Tools Working Group	\$15,000	\$2,850
6	LESPWG Lake Erie Security Process Working Group	\$15,000	\$0
6	CO-13 Available Transfer Capability Working Group	\$8,000	\$1,950
7	DCWG Data Collection Working Group	\$5,000	\$0
7	Inter-ISO Inter-ISO Planning Working Group	\$5,000	\$0
8	IRCWG (CO-11) Inter-Control Area Restoration Coordination Working Group	\$10,000	\$7,050
8	CO-12 Operations Planning Working Group	\$15,000	\$7,000
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	\$11,900
10	CP-9 Review of NERC Reliability Standards Working Group	\$25,000	\$11,829
11	RPF Regional Planning Forum	\$25,000	\$0

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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	\$4,850
12	CP-GLOS Update NPCC Glossary	\$5,000	\$0
12	SEDRWG (SP-6) Synchronized Event Data Reporting Working Group	\$12,000	\$1,600
12	SS-37 Base Case Development Working Group	\$10,000	\$10,000
13	SS-38 Inter-Area Dynamic Analysis Working Group	\$20,000	\$2,525
13	TRS Overall Transmission Reliability Study	\$10,000	\$0
14	MEN MAAC-ECAR-NPCC Working Group	\$10,000	\$300
14	MMWG Multiregional Modeling Working Group	\$5,000	\$0
15	TFIST Infrastructure Security and Technology Working Group	\$20,000	\$0
15	IST-1 Infrastructure Security and Technology Workshop	\$5,000	\$0
TOTAL		\$450,000¹	\$117,945

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.

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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.	2005 Budget:	\$25,000
			Expense to Date:	\$1,900
			Completion Date:	December 2005
	Status/ Comments:	The Working Group CO-01 is actively engaged in the following efforts: 1) the conclusion of the development and analysis of a proposed program to permit the sharing of up to 100 MW of ten-minute operating reserve among the NPCC Areas. 2) the assessment of the increasing number of frequency excursions being observed on the Eastern Interconnection. 3) a technical review of the benefits of the synchronized component of ten-minute operating reserve.		
	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:	\$5,800
			Next Seminar:	May 2005
	Status/ Comments:	The Working Group CO-02 conducted its spring training seminar for system operators and dispatchers on May 4 and 5, 2005. Topics included: A round table exercise on a coordinated response to a region-wide terrorist threat, Wind Power Generation, CO-11 System Restoration Planned Activities, NPCC Regional Reserve Sharing, Facilitated Transaction Checkout, etc.		
	NPCC Staff Reference:	Jerry Mosier TFCO Workplan		

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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:	\$2,550
			Completion Date:	December 2005
Status/ Comments:		The Working Group CO-07 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.		
	NPCC Staff Reference:	Paul Roman 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:	\$5,350
			Completion Date:	December 2005
Status/ Comments:		The Working Group is testing for the summer of 2005 an inter-Area NPCC morning call. The call will be conducted on a daily basis among the Area control rooms to quickly assess potential operating conditions for the day, and the conference call will be linked through a conference bridge.		
	NPCC Staff Reference:	Jerry Mosier 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 2005 Budget: \$15,000 Expense to Date: \$0 Frequency of Reviews: 3 Years Next Review Date: March 2006
	Status/ Comments:	The Document had been converted to Reference Document RD-09, but is being re-converted to C-15 without any significant content changes.	
	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: \$2,850 Completion Date: December 2005
	Status/ Comments:	A CO-10/Facilitated Transaction Checkout (FTC) meeting was held on April 21-22, 2005. Another meeting is being held at the Midwest ISO on June 8 as MISO is very interested in making use of FTC. Present status: 1) FTC is fully implemented in the ISO-NE control room, available for checkout with the NYISO; 2) FTC deployment at NYISO had been delayed because of SMD2 implementation work; 3) in Quebec, FTC is near control room implementation for transactions with ISO-NE 4) in Ontario, FTC is available for Quebec and NY checkout. CO-10 is also 1) participating in the NERC Real time Best Practices Task Force with the survey of operating tools throughout NERC ready for issue; 2) Re-working the B-12 and C-12 Documents and coordinating this work with TFIST; and 3) addressing E-Tag security certification and protocol issues.	
	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.	2005 Budget:	\$15,000
			Expense to Date:	\$0
			Completion Date:	December 2005
	Status/ Comments:	Work will continue in analyzing system flow and transaction info to identify the root causes of Lake Erie flow volatility. Recently progress on this has slowed.		
	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:	\$1,950
			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.		
	NPCC Staff Reference:	Guy Zito TFCO Workplan		

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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:	\$0
			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 Fall 2005 to kick-off next year's effort.		
	NPCC Staff:	Godfrey Chibulunje		

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 is also participating in the group's meeting of PJM and NPCC stakeholders.		
	NPCC Staff:	Guy Zito		

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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.	2005 Budget:	\$10,000
			Expense to Date:	\$7,050
			Completion Date:	December 2005
	Status/ Comments:	The report of the Inter-Control Area Restoration Coordination Working Group (CO-11), "Restoration of the NPCC Areas Following the Power System Collapse of August 14, 2003," was approved for release by the RCC at its meeting of July 14, 2004. The IRCWG is currently assisting the NPCC Compliance Monitoring and Assessment Subcommittee in its evaluation of the 2003 trial program of compliance with Section 4.10 of A-03, "Emergency Operation Criteria," which defines the testing requirements for key facilities and critical components associated with restoration. The IRCWG is also working jointly with the CMAS to develop expanded compliance templates to ultimately incorporate these same testing requirements into NPCC Document A-08, "NPCC Reliability Compliance and Enforcement Program."		
	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:	\$7,000
			Completion Date:	December 2005
	Status/ Comments:	The 2005 Summer Assessment was completed with presentation provided to TFCO, RCC and the NPCC Executive Committee. An additional presentation of the Assessment methodology and results will be provided to the NERC Reliability Assessment Subcommittee on June 20 as part of the RAS interview of NPCC to assess monitoring of resource adequacy and transmission security. CO-12 will also address other charges from TFCO involving: 1) Process/document for operational review of new transmission facilities, 2) enhanced transfer capability reporting, 3) new "C" document to provide consistency of demand and resources reporting and 4) document methodology for conducting seasonal assessments.		
	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.	2005 Budget:	\$60,000
			Expense to Date:	\$5,190
			Completion Date:	December 2005
	Status/ Comments:	The New England 2004 Interim Review of Resource Adequacy, the New York 2004 Interim Review of Resource Adequacy, the Quebec 2004 Interim Review of Resource Adequacy, and the New Brunswick 2004 Review of Resource Adequacy were approved by the RCC on March 9, 2005, and were posted on the NPCC web site... 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. Comments were provided to the TFCP for their review and update of Document B-8.		
	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		

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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:	\$11,900
			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.

NPCC Staff Reference: **Phil Fedora
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.	2005 Budget:	\$25,000
			Expense to Date:	\$11,829
			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 will also be developing processes to coordinate commenting and participating in adjacent Regions' criteria development, as well as promoting NPCC criteria in adjacent regions.

NPCC Staff Reference: **Guy Zito
TFCP Workplan**

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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:	PowerWorld Corp. conducted a training session for Simulator version 10 on July 7-8 at NPCC. New York ISO, ISO New England and NPCC staff attended. Simulator SCOPF, ATC PVQV Version 11 was received and was successfully installed.		
	NPCC Staff Reference:	Phil Fedora 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:	\$4,850
			Completion Date:	December 2005
	Status/ Comments:	Review and approval of the Evaluation Study Plan for the proposed NPCC Document A-10, "Criteria for the Determination of Bulk Power System Elements" is scheduled for the June 1, 2005 RCC meeting.		
	NPCC Staff Reference:	Stan Kopman TFCP Workplan		

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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:	This activity has been taken over the by CP-11 Working Group. 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 second quarter of 2005.		
	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:	\$1,600
			Completion Date:	April 2005
	Status/ Comments:	The SEDRWG has completed the major objective of this work. A report and implementation plan will be submitted for approval at the June 1, 2005 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.	2005 Budget:	\$10,000
			Expense to Date:	\$10,000
			Completion Date:	December 2005
	Status/ Comments:	Year 2004 Base Case Development is complete and Year 2005 development effort is currently underway.		
	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.	2005 Budget:	\$20,000
			Expense to Date:	\$2,525
			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 Reference:	Donal Kidney TFSS Workplan		

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:	May 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.		
	NPCC Staff Reference:	Donal Kidney TFSS Workplan		

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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:	\$300
			Completion Date:	December 2005
	Status/ Comments:	The 2005 Summer study has been completed and the MEN report was approved by the JIRC at their last meeting. The schedule for the 2005/06 winter study has been issued. MEN/VEM base case development work will be initiated. NPCC is chairing both the MEN Study Committee and Working Groups.		
	NPCC Staff:	Donal Kidney/Paul Roman		

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 was directed to review and update the existing data release policies for power flow and dynamic data and models. This was completed and submitted to the NERC Planning Committee. 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 contractors budgets for 2006 for base case and dynamics development with the goal of recommending them for approval to the NERC Planning Committee.		
	NPCC Staff:	Donal Kidney		

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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:	The TFIST “NPCC Security Considerations for the Bulk Power System Whitepaper” has been sent to the RCC for review and approval at their June 1, 2005 meeting. The Telecommunication Working Group (IST-02) is preparing a report in response to the TFCO’s August 2004 request regarding improved voice communications during emergencies. The IST-02 WG is also working on a CO-8 Working Group request for a proposed daily morning inter-Area operations conference call.		
	NPCC Staff Reference:	Brian Hogue TFIST Workplan		

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:	\$0
			Last Workshop:	October 2004
	Status/ Comments:	A well-received and attended Workshop was held on October 26-27, 2004 in Boston, MA. TFIST has not held detailed discussions for this year’s Workshop.		
	NPCC Staff Reference:	Brian Hogue TFIST Workplan		