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**RCC Meeting
May 31, 2006
Agenda Item x.x**

May 15, 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 May 15th - see attached) and will be presented at the May 31st 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 can be found at:

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

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	\$2,850
4	CO-2 Dispatcher Training Working Group	\$17,500	\$1,900
5	CO-7 Operational Review Working Group	\$15,000	\$4,100
6	CO-8 System Operations Managers Working Group	\$25,000	\$4,750
6	C-15 Solar Alert Service	\$20,000	\$20,000
7	CO-10 Operational Tools Working Group	\$15,000	\$4,250
8	LESPWG Lake Erie Security Process Working Group	\$5,000	\$0
8	CO-13 Available Transfer Capability Working Group	\$5,000	\$650
9	DCWG Data Collection Working Group	\$10,000	\$1,325
10	IRCWG (CO-11) Inter-Control Area Restoration Coordination Working Group	\$15,000	\$8,950
10	CO-12 Operations Planning Working Group	\$15,000	\$450
11	CP-8 Working Group on Review of Resource and Transmission Adequacy	\$65,000	\$6,600
11	CP-2006S Summer 2006 Multi-Area Probabilistic Reliability Assessment	\$76,000	\$48,804
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	\$0
13	CP-9 Review of NERC Reliability Standards Working Group	\$30,000	\$13,904
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	\$2,200
15	SS-38 Inter-Area Dynamic Analysis Working Group	\$20,000	\$2,500
15	MEN MEN Working Group	\$10,000	\$2,700
16	MMWG Multiregional Modeling Working Group	\$5,000	\$0
16	IST-1 Infrastructure Security and Technology Workshop	\$5,000	\$0
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	\$125,933

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.

**NPCC RELIABILITY ASSESSMENT PROGRAM
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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:	\$2,850
			Completion Date:	December 2006

Status/ Comments: 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.

The working group: 1) is coordinating with Working Group CO-10 to identify the requirements to permit the automation of shared activation of reserve; 2) is developing parameters to establish a mechanism for securing external reserve; and 3) continues to work with the Task Force on System Studies to identify the technical benefits of the synchronized component of ten-minute operating reserve.

NPCC Staff: Jerry Mosier
Reference: TFCO Workplan

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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:	\$17,500
			Expense to Date:	\$1,900
			Next Seminar:	Spring 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. The 2006 Spring Operators Seminar was held on May 3-4 at Fredericton, NB. Main presentation topics were on: 1) the new NERC operator certification requirements, 2) NPCC Area training program changes and 3) wind power application concerns and update.		
	NPCC Staff Reference:	Paul Roman 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:	\$4,100
			Completion Date:	December 2006

Status/ Comments: CO-07 has begun to provide the TFCO with a summary of recommendations as they relate to change of NPCC Document B-09 "Guide for Rating Generating Capability" to an NPCC "A" document or an NPCC regional standard to address gaps with NERC standards. If it is determined appropriate to develop a regional standard then CO-7 will develop the NPCC regional standards to address the content of 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, which have been in effect since April 1, 2006. CO-7 should acquire additional expertise, 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.

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:	\$4,750
			Completion Date:	December 2006
	Status/ Comments:	The working group: 1) will finalize draft revisions of NPCC Documents B-03, "Guidelines for Inter-AREA Voltage Control," B-13, "Guide for Reporting System Disturbances," C-13, "Operational Planning Coordination," and C-15, "Procedures for Solar Magnetic Disturbances on Electric Power Systems," at its meeting of June 6 and 7, 2006; 2) is working 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) is coordinating with the Working Group CO-02 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 Reference:	Jerry Mosier TFCO Workplan		

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 conducted the triennial review of NPCC Document C-15, "Procedures for Solar Magnetic Disturbances on Electric Power Systems." The Working Group will finalize its draft at the CO-08 meeting of June 6 and 7, 2006.		
	NPCC Staff Reference:	Jerry Mosier TFCO Workplan		

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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:	\$4,250
			Completion Date:	December 2006
	Status/ Comments:	The CO-10 Working Group: 1) is investigating web services applications with CO-1 to Shared Activation of Reserve, inadvertent checkout and ACE Diversity Interchange; 2) is participating in the analysis of the NERC Real time Best Practices Task Force survey of operating tools data; 3) has completed a re-written C-17 document which will be posted for NPCC Open Process review, which replaces the existing B-12 and C-17 Documents; 4) investigating Day Ahead application of Facilitated Transaction Checkout and coordinating the development of FTC Service Level Agreements at each level where FTC is being used; and, 5) following developments regarding phasor measurement application tools. The last CO-10 meeting was held on March 30-31.		
	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:	\$650
			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.		

**NPCC RELIABILITY ASSESSMENT PROGRAM
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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:	\$650
			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

**NPCC RELIABILITY ASSESSMENT PROGRAM
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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:	\$8,950
			Completion Date:	December 2006

Status/ Comments: 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.

The Working Group its work on a new NPCC Type A Criterion (NPCC Document A-12) to address the fundamental requirements of restoration. As part of this effort, the Working Group will establish a common Area methodology to be used in identifying key facilities and their critical components required for the energization of the basic minimum power system. The draft is to be presented to the Reliability Coordinating Committee at its meeting in November, 2006.

**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:	\$450
			Completion Date:	December 2006

Status/ Comments: The 2006 Summer Assessment Report was completed and issued with the April 26, 2006 media teleconference. The media teleconference went well with many good questions. CO-12 is also addressing other charges from TFCO involving: 1) development of a document for operational review of new transmission facilities; and, 2) document methodology for conducting seasonal assessments. Work on these other items is now underway since the group’s efforts had recently been fully devoted to completion of the 2006 Summer Assessment.

**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:	\$6,600
			Completion Date:	December 2006
	Status/ Comments:	The Maritimes Area Interim Triennial Review of Resource Adequacy, the Quebec Triennial Review of Resource Adequacy , and the New York Triennial Review of Resource Adequacy was approved at the March 2006 RCC meeting. Preliminary results from the 2006 Summer Multi-Area Probabilistic Assessment was also presented at the March 2006 RCC meeting.		
	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:	\$48,804
			Completion Date:	April 2006
	Status/ Comments:	Comments received by the NPCC Committee review of the 2006 Summer Multi-Area Probabilistic Reliability Assessment were included in the Final Assessment report submitted to the NPCC EC on April 20, 2006. A summary report and press release was also prepared to support the April 26, 2006 Media Conference call. The assessment was been posted on the NPCC web site.		
	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 2005-06 was completed and released November 18, 2005. The report was posted on the NPCC web site. Work on the Winter 2006-07 assessment begins in September 2006.		
	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:	\$0
			Completion Date:	December 2006
	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 of work for the next update of the report was approved by the TFCP on May 9, 2006, will be submitted for review/approval at the May 31, 2006 RCC meeting.		
	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:	\$13,904
			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) 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. The working group is also completing a "mapping" project involving listing all NERC reliability standards requirements and mapping them into corresponding NPCC documentation.		
	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:	At the November 2006 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 also 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.		
	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:	\$2,200
			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:	\$2,500
			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. 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		

Item	Name	Assignment		
MEN	MEN Working Group	The MEN Working Group, under the direction of the MEN Study Committee, conducts appraisals of the NPCC-RFC interconnected systems for expected summer and winter periods.	2006 Budget:	\$10,000
			Expense to Date:	\$2,700
			Completion Date:	December 2006
	Status/ Comments:	Effective January 1, 2006 the MAAC, most of ECAR and most of MAIN was combined into the new Reliability <i>First</i> region. As a result of the changes this is now referred to as RFC-NPCC Assessment. The completed 2006 Summer Assessment report was approved by the JIRC at their May 9 meeting and was issued. 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. This provides a framework for all of the interregional studies, has been prepared and refined and will be provided to the Regional Managers for approval. The NPCC-RFC (formerly MEN) and SERC-RFC (formerly VEM) Assessments will be guided by the Agreement.		
	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:	\$0
			Last Workshop:	October 2004
	Status/ Comments:	TFIST plans a Cyber Security Workshop in June 2006 in Toronto. The focus will be 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.		
	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 is being formed. 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		