

**NPCC RELIABILITY ASSESSMENT PROGRAM  
SUMMARY REPORT**

<b>Page #</b>	<b>PROJECT DESCRIPTION</b>	<b>2006 BUDGET</b>	<b>2006 EXPENSE</b>
3	<b>CO-1</b> Control Performance Working Group	\$25,000	\$950
4	<b>CO-2</b> Dispatcher Training Working Group	\$17,500	\$0
4	<b>CO-7</b> Operational Review Working Group	\$15,000	\$0
5	<b>CO-8</b> System Operations Managers Working Group	\$25,000	\$0
6	<b>C-15</b> Solar Alert Service	\$20,000	\$0
6	<b>CO-10</b> Operational Tools Working Group	\$15,000	\$0
7	<b>LESPWG</b> Lake Erie Security Process Working Group	\$5,000	\$0
7	<b>CO-13</b> Available Transfer Capability Working Group	\$5,000	\$0
8	<b>DCWG</b> Data Collection Working Group	\$10,000	\$1,325
8	<b>IRCWG (CO-11)</b> Inter-Control Area Restoration Coordination Working Group	\$15,000	\$3,250
9	<b>CO-12</b> Operations Planning Working Group	\$15,000	\$0
9	<b>CP-8</b> Working Group on Review of Resource and Transmission Adequacy	\$65,000	\$2,900
10	<b>CP-2006S</b> Summer 2006 Multi-Area Probabilistic Reliability Assessment	\$76,000	\$12,600
10	<b>CP-2006W</b> Winter 2006-07 Multi-Area Probabilistic Reliability Assessment	\$50,000	\$0
11	<b>CP-TIE</b> Review of Interconnection Assistance Reliability Benefits	\$60,000	\$0
11	<b>CP-9</b> Review of NERC Reliability Standards Working Group	\$30,000	\$5,654
12	<b>CP-11</b> <i>NPCC Basic Criteria for Design and Operation of Interconnected Power Systems Review Working Group</i>	\$10,000	\$0

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Page #	PROJECT DESCRIPTION	2006 BUDGET	2006 EXPENSE
12	<b>SEDRWG (SP-6)</b> Synchronized Event Data Reporting Working Group	\$6,000	\$0
13	<b>SS-37</b> Base Case Development Working Group	\$10,000	\$950
13	<b>SS-38</b> Inter-Area Dynamic Analysis Working Group	\$20,000	\$0
14	<b>MEN</b> MAAC-ECAR-NPCC Working Group	\$10,000	\$0
14	<b>MMWG</b> Multiregional Modeling Working Group	\$5,000	\$0
15	<b>IST-1</b> Infrastructure Security and Technology Workshop	\$5,000	\$0
15	<b>IST-2</b> TFIST Telecommunication Working Group	\$5,000	\$0
16	<b>IST-3</b> TFIST EMS-SCADA Working Group	\$5,000	\$0
16	<b>IST-4</b> TFIST Cyber Security Working Group	\$5,000	\$0
17	<b>IST-5</b> TFIST Physical Security Working Group	\$5,000	\$0
<b>TOTAL</b>		<b>\$534,500<sup>1</sup></b>	<b>\$27,629</b>

<sup>1</sup> 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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<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CO-1</b>	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.	<b>2006 Budget:</b>	\$25,000
			<b>Expense to Date:</b>	\$950
			<b>Completion Date:</b>	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) continues to work with the Task Force on System Studies to identify the technical benefits of the synchronized component of ten-minute operating reserve; 2) is working with the CO-8 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”); 3) has completed a Dynamic Transfer Catalog for NPCC and submitted it to the NERC; 4) is developing parameters to establish a mechanism for securing external reserve; and, 5) continues to monitor the ongoing field test of the NERC Balancing Standard. The new balancing standard is scheduled to be presented for a vote of acceptance by the industry in the spring of 2006.

**NPCC Staff:** Jerry Mosier  
**Reference:** TFCO Workplan

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<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CO-2</b>	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.	<b>2005 Budget:</b>	\$17,500
			<b>Expense to Date:</b>	\$0
			<b>Next Seminar:</b>	Spring 2006
	<b>Status/ Comments:</b>	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.		
	<b>NPCC Staff Reference:</b>	<b>Paul Roman TFCO Workplan</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CO-7</b>	Operational Review 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.	<b>2006 Budget:</b>	\$15,000
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	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.		
	<b>NPCC Staff Reference:</b>	<b>Jim Hartwell TFCO Workplan</b>		

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<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CO-8</b>	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.	<b>2006 Budget:</b>	\$25,000
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	<p>In response to the charge from the Task Force on Coordination of Planning in its assessment of Blackout Recommendation 8c, the CO-8 Working Group currently reviewing and updating NPCC Document B-03, "Guidelines for Inter-AREA Voltage Control" It will finalize a draft to post for public comment through the NPCC Open Process at its meeting of March 28 and 29, 2006.</p> <p>The working group: 1) is developing draft revisions of NPCC Document B-13, "Guide for Reporting System Disturbances," incorporating the new requirements for the reporting of the IROL and cyber security, and C-13, "Operational Planning Coordination." The Working Group will finalize drafts of these documents to post for public comment through the NPCC Open Process at its meeting of March 28 and 29, 2006; 2) is working with the CO-1 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) will conduct the triennial review of NPCC Document C-15, "Procedures for Solar Magnetic Disturbances on Electric Power Systems," at its meeting of March 28 and 29, 2006.</p>		
	<b>NPCC Staff:</b>	<b>Jerry Mosier</b>		
	<b>Reference:</b>	<b>TFCO Workplan</b>		

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<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>C-15</b>	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.	<b>Latest Version:</b>	March 2003
			<b>2006 Budget:</b>	\$20,000
			<b>Expense to Date:</b>	\$0
			<b>Frequency of Reviews:</b>	3 Years
			<b>Next Review Date:</b>	March 2006
	<b>Status/ Comments:</b>	The CO-08 Working Group will conduct the triennial review of NPCC Document C-15, "Procedures for Solar Magnetic Disturbances on Electric Power Systems," at its meeting of March 28 and 29, 2006.		
	<b>NPCC Staff Reference:</b>	<b>Jerry Mosier TFCO Workplan</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CO-10</b>	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.	<b>2006 Budget:</b>	\$15,000
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	A CO-10/Facilitated Transaction Checkout (FTC) meeting was held on January 18-19, 2006. Present status of activities: FTC implementation is in use at TransÉnergie, ISO-NE, NYISO and IESO. Work to implement is underway at NBSO, PJM and the Midwest ISO with target completion dates of April 1, 2006 for NBSO and Nov. 1, 2006 for both PJM and Midwest ISO. CO-10: 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) continuing with work of development a document(s) to replace the existing B-12 and C-12 Documents; and, 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.		
	<b>NPCC Staff Reference:</b>	<b>Paul Roman TFCO Workplan</b>		

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<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>LESPWG</b>	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.	<b>2006 Budget:</b>	\$5,000
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	No recent activity.		
	<b>NPCC Staff Reference:</b>	<b>Paul Roman TFCO Workplan</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CO-13</b>	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.	<b>2006 Budget:</b>	\$5,000
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	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 will also be reviewing further enhancements to the website to incorporate Ontario data and meet any arising needs from the NERC Version 1 standards as they are developed.		
	<b>NPCC Staff Reference:</b>	<b>Guy Zito TFCO Workplan</b>		

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<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>DCWG</b>	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.	<b>2006 Budget:</b>	\$10,000
			<b>Expense to Date:</b>	\$1,325
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	The EIA instituted its Form 411 internet based data collection system. NPCC Area's reporting requirements are being collected. The next meeting, planned for Spring 2006, will be a joint meeting with NERC and DOE.		
	<b>NPCC Staff:</b>	Guy Zito		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>IRCWG (CO-11)</b>	Inter-Control Area Restoration Coordination Working Group	IRCWG addresses the issue of ensuring appropriate operation of key system restoration facilities and their critical components.	<b>2006 Budget:</b>	\$15,000
			<b>Expense to Date:</b>	\$3,250
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	<p>The CO-11 Working Group has completed a new Type C Procedure, NPCC Document C-35, "NPCC Inter-Control Area Power System Restoration Reference Document." Document C-35 is now posted for public comment through the NPCC Open Process through March 13, 2006. The new NPCC Document C-35 updates the existing Reference Document, "NPCC Inter-Control Area Power System Restoration Reference Document."</p> <p>The Working Group has begun drafting 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.</p>		
	<b>NPCC Staff:</b>	Jerry Mosier		
	<b>Reference:</b>	TFCO Workplan		



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<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CO-12</b>	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.	<b>2006 Budget:</b>	\$15,000
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	The 2006 Summer Assessment is underway with data assembly and report preparation on schedule. Presentations of initial results are planned for TFCO on March 3 and RCC on March 8. 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 will resume following completion of 2006 Summer Assessment work.		
	<b>NPCC Staff Reference:</b>	<b>Paul Roman TFCO Workplan</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CP- 8</b>	Working Group on Review of Resource and Transmission Adequacy	Review the overall reliability of the NPCC Areas and perform pre-seasonal resource adequacy assessments.	<b>2006 Budget:</b>	\$65,000
			<b>Expense to Date:</b>	\$2,900
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	The RCC approved 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 at its November 2005 meeting. The Maritimes Area Interim Triennial Review of Resource Adequacy, and the Quebec Triennial Review of Resource Adequacy , and the New York Triennial Review of Resource Adequacy is expected to be presented for approval at the March 2006 RCC meeting. Preliminary results from the 2006 Summer Multi-Area Probabilistic Assessment will also be presented at the March 2006 RCC meeting.		
	<b>NPCC Staff Reference:</b>	<b>Phil Fedora TFCP Workplan</b>		

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Item	Name	Assignment		
<b>CP- 2006S</b>	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.	<b>2006 Budget:</b>	\$76,000
			<b>Expense to Date:</b>	\$12,600
			<b>Completion Date:</b>	April 2006
	<b>Status/ Comments:</b>	The RCC approved the Scope and Schedule for the 2006 Summer NPCC Multi-Area Probabilistic Reliability Assessment, at its November 2005 meeting. Preliminary results from the 2006 Summer Multi-Area Probabilistic Assessment will be presented at the March 2006 RCC meeting.		
	<b>NPCC Staff Reference:</b>	<b>Phil Fedora TFCP Workplan</b>		

Item	Name	Assignment		
<b>CP- 2006W</b>	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.	<b>2006 Budget:</b>	\$50,000
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	Nov. 2006
	<b>Status/ Comments:</b>	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 begins in September 2006.		
	<b>NPCC Staff Reference:</b>	<b>Phil Fedora TFCP Workplan</b>		

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<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CP - TIE</b>	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.	<b>2006 Budget:</b>	\$60,000
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	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 2 <sup>nd</sup> Quarter 2006.		
	<b>NPCC Staff Reference:</b>	<b>Phil Fedora TFCP Workplan</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>CP-9</b>	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.	<b>2006 Budget:</b>	\$30,000
			<b>Expense to Date:</b>	\$5,654
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	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, as well as the Permanent Cyber Security Standards. 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.		
	<b>NPCC Staff:</b>	<b>Guy Zito</b>		

## NPCC RELIABILITY ASSESSMENT PROGRAM SUMMARY REPORT

**Reference:** TFCP Workplan

Item	Name	Assignment	2006 Budget	
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.	\$10,000	
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	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 that the Maritimes (NB and NS) will complete their testing during March 2006 and along with NYISO and ISO-NE and will present a status report at the March 2006 RCC meeting on their testing efforts.

**NPCC Staff:** Stan Kopman  
**Reference:** TFCP Workplan

Item	Name	Assignment	2006 Budget:	
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.	\$6,000	
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	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:** Quoc Le  
**Reference:** TFSP Workplan

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<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>SS-37</b>	Base Case Development Working Group	On an annual basis, develop a library of solved load flow cases and associated dynamic data.	<b>2006 Budget:</b>	\$10,000
			<b>Expense to Date:</b>	\$950
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	Year 2006 development effort is currently underway and on schedule to coordinate with MMWG.		
	<b>NPCC Staff Reference:</b>	<b>Donal Kidney TFSS Workplan</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>SS-38</b>	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.	<b>2006 Budget:</b>	\$20,000
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	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.		
	<b>NPCC Staff Reference:</b>	<b>Donal Kidney TFSS Workplan</b>		

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<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>MEN</b>	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.	<b>2006 Budget:</b>	\$10,000
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	The MEN/VEM 2006 Summer base case development work has been completed and transfer limit assessment studies are underway. Transition to a study with ReliabilityFirst rather than ECAR and MAAC will occur during 2006. In the 2006 Summer Study transfers similar recent MEN Studies are being simulated but the report will introduce changes as a result of the formation of ReliabilityFirst on Jan. 1, 2006.		
	<b>NPCC Staff:</b>	Donal Kidney/Paul Roman		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>MMWG</b>	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.	<b>2006 Budget:</b>	\$5,000
			<b>Expense to Date:</b>	\$0
			<b>Completion Date:</b>	December 2006
	<b>Status/ Comments:</b>	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.		

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**NPCC Staff:** Donal Kidney

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>IST-1</b>	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.	<b>2006 Budget:</b>	\$5,000
			<b>Expense to Date:</b>	\$0
			<b>Last Workshop:</b>	October 2004
	<b>Status/ Comments:</b>	TFIST plans a Cyber Security Workshop in June 2006 in Toronto. The focus will be NERC Cyber Security Standards.		
	<b>NPCC Staff:</b>	<b>Brian Hogue</b>		
	<b>Reference:</b>	<b>TFIST Workplan</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>IST-2</b>	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.	<b>2006 Budget:</b>	\$5,000
			<b>Expense to Date:</b>	\$0
	<b>Status/ Comments:</b>	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.		
	<b>NPCC Staff:</b>	<b>Brian Hogue</b>		
	<b>Reference:</b>	<b>TFIST Workplan</b>		

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<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>IST-3</b>	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.	<b>2006 Budget:</b>	\$5,000
			<b>Expense to Date:</b>	\$0
	<b>Status/ Comments:</b>	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.		
	<b>NPCC Staff Reference:</b>	<b>Brian Hogue TFIST Workplan</b>		

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>IST-4</b>	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.	<b>2006 Budget:</b>	\$5,000
			<b>Expense to Date:</b>	\$0
	<b>Status/ Comments:</b>	The Cyber Security Working Group is in the process of being formed.		
	<b>NPCC Staff Reference:</b>	<b>Brian Hogue TFIST Workplan</b>		



**NPCC RELIABILITY ASSESSMENT PROGRAM  
SUMMARY REPORT**

<b>Item</b>	<b>Name</b>	<b>Assignment</b>		
<b>IST-5</b>	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.	<b>2006 Budget:</b>	\$5,000
			<b>Expense to Date:</b>	\$0
	<b>Status/ Comments:</b>	The Physical Security Working Group is in the process of being formed.		
	<b>NPCC Staff:</b>	<b>Brian Hogue</b>		
	<b>Reference:</b>	<b>TFIST Workplan</b>		