

**NPCC RELIABILITY ASSESSMENT PROGRAM
SUMMARY REPORT**

Page #	PROJECT DESCRIPTION	2003 BUDGET	2003 EXPENSE
3	CO-1 Control Performance Working Group	\$25,000	\$5,700
3	CO-2 Dispatcher Training Working Group	\$15,000	\$3,800
4	CO-7 Operational Review Working Group	\$5,000	\$0
4	CO-8 System Operations Managers Working Group	\$25,000	\$8,200
5	C-15 o Solar Alert Service	\$15,000	\$15,000
5	CO-10 Operational Tools Working Group	\$15,000	\$1,950
6	LESPWG Lake Erie Security Process Working Group	\$15,000	\$0
6	ATCWG Available Transfer Capability Working Group	\$5,000	\$0
7	IRCWG Inter-Control Area Restoration Coordination Working Group	\$10,000	\$2,550
7	CO-2003 TFCO Summer 2003 Security Assessment Working Group	\$15,000	\$3,300
7	CP-8 Working Group on Review of Resource and Transmission Adequacy	\$60,000	\$17,548
7	CP-2003 o Summer 2003 Probabilistic Assessment	\$65,000	\$30,869
7	CP-TIE o Interconnection Reliability Analysis	\$50,000	\$12,029
8	CP-9 Review of NERC Reliability Standards Working Group	\$20,000	\$15,150
8	CP-10 Collaborative Planning Initiative	\$40,000	\$650
9	RPF Regional Planning Forum	\$50,000	\$26,962

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Page #	PROJECT DESCRIPTION	2003 BUDGET	2003 EXPENSE
9	CP-11 <i>NPCC Basic Criteria for Design and Operation of Interconnected Power Systems Review Working Group</i>	\$10,000	\$8,450
9	JGWG Joint Glossary Working Group	\$5,000	\$0
10	SS-37 Base Case Development Working Group	\$10,000	\$4,900
10	SS-38 Inter-Area Dynamic Analysis Working Group	\$20,000	\$5,900
10	ISTWG Infrastructure Security and Technology Working Group	\$5,000	\$0
11	MEN MAAC-ECAR-NPCC Working Group	\$10,000	\$1,500
11	MMWG Multiregional Modeling Working Group	\$5,000	\$0
11	NERC-ISN Interregional Security Network (ISN)	\$120,000	\$85,231
12	NPCC GAS Multi-Regional Gas Assessment	\$50,000	\$0
TOTAL		\$665,000¹	\$249,689

¹ At its September 10, 2002 meeting, the Executive Committee approved a recommendation that NPCC's 2003 Regional Budget include \$550,000 in Account #800 "Project Expense. Subsequently, the amount was adjusted to \$500,000.

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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, it conducts investigations of control performance problems.	2003 Budget:	\$25,000
			Expense to Date:	\$5,700
			Completion Date:	December 2003
PAR	Status/ Comments:	Following the events of August 14 th , the Working Group has focused on generator governor response during the disturbance as well as further analysis of operating reserve sharing.		

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 Working Group CO-2 also evaluates and propose new techniques and training aids as they become available.	2003 Budget:	\$15,000
			Expense to Date:	\$3,800
			Next Seminar:	November 2003
PAR	Status/ Comments:	CO-2 Working Group met jointly with CO-8 in September and finalized the agenda for the Fall Dispatcher Training Seminar to be held on November 5-6, 2003 in Halifax, Nova Scotia.		

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Item	Name	Assignment		
CO-7	Operation 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.	2003 Budget:	\$5,000
			Expense to Date:	\$0
			Completion Date:	December 2003
PAR	Status/ Comments:	The Working Group is assisting the CMAS in its control Area reviews.		

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	2003 Budget:	\$25,000
			Expense to Date:	\$8,200
			Completion Date:	
December 2003		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.		
PAR	Status/ Comments:	The CO-8 Working Group has recently focused reviewing the NERC Functional Model and has provided input through representation on the NERC RCWG/ORS and the NERC Operating Committee.		

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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
			2003 Budget:	\$15,000
			Expense to Date:	\$15,000
			Frequency of Reviews:	3 Years
			Next Review Date:	March 2006
PAR	Status/ Comments:	The NPCC Area control rooms have implemented the software package incorporating the Solar Terrestrial Dispatch notification/alert process.		

Item	Name	Assignment		
CO-10	Operational Tools Working Group	The system 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 System 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.	2003 Budget:	\$15,000
			Expense to Date:	\$1,950
			Completion Date:	December 2003
PAR	Status/ Comments:	The facilitated Check Out process, being designed and developed by the New York ISO, is being coordinated through the CO-10 Working Group. The facilitated Check Out tool provides direct data exchange between ISOs to greatly streamline and speed up the transaction check out process. Meetings were held on July 8 th and September 9 th . The July meeting included OATI and addressed related OATI tools; the September meeting included the Mid-West ISO. The next meeting will be held on November 6-7.		

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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 Hydro, the New York Power Pool, the Pennsylvania-New Jersey-Maryland Interconnection Association and the Michigan Electric Coordinated Systems.	2003 Budget:	\$15,000
			Expense to Date:	\$0
			Completion Date:	December 2003
PAR	Status/ Comments:	LESPWG has curtailed activities for the last few months.		

Item	Name	Assignment		
ATCWG	Available Transfer Capability Working Group	Formulate NPCC's responses to the updated charges from the NERC Engineering Committee (EC) to the NERC ATC Implementation Working Group. These include: the development of an ATC compliance review schedule; the coordination of intra-/inter-regional ATC postings; the development of data exchange guidelines; the assessment of the commercial viability of ATC calculations; and the continued review of the TRM/CBM parameters.	2003 Budget:	\$5,000
			Expense to Date:	\$0
			Completion Date:	December 2003
GVZ	Status/ Comments:	Comments from the Working Group to the NERC ATC Working Group on the treatment of TTC, ATC, TRM and CBM in Standard Market Design were finalized and were issued on October 16, 2002. The Working Group has picked up on past work on the NPCC ATC Methodology and will be revising the draft to finalize the document by the end of the year.		

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Item	Name	Assignment		
IRCWG	Inter-Control Area Restoration Coordination Working Group	IRCWG addresses the issue of ensuring appropriate operation of key system restoration facilities and their critical components.	2003 Budget:	\$10,000
			Expense to Date:	\$2,550
			Completion Date:	January 2004
PAR	Status/ Comments:	The IRCWG is developing an overall report on the NPCC restoration experience following the August 14 th Blackout. The report is scheduled for January 2004.		

Item	Name	Assignment		
CO - 2003	TFCO Summer 2003 Security Assessment Working Group	Review the overall reliability of the generation and transmission system in the NPCC Region for the 2003 Summer.	2003 Budget:	\$15,000
			Expense to Date:	\$3,300
			Completion Date:	May 2003
PAR	Status/ Comments:	The 2003 Summer Assessment report was completed May 2003. Work on the 2004 Summer Assessment will begin in January.		

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.	2003 Budget:	\$60,000
			Expense to Date:	\$17,548
			Completion Date:	December 2003
CP - 2003	Status/ Comments:	Summer 2003 Multi-Area Probabilistic Reliability Assessment was completed in May 2003.	2003 Budget:	\$65,000
			Expense to Date:	\$30,869
			Completion Date:	May 2003
CP - TIE	Status/ Comments:	Review of Interconnection Benefits scope and methodology approved at the June 18 th TFCP meeting . Study underway -	2003 Budget:	\$50,000
	\$12,029		Expense to Date:	
PAF		preliminary results for 2003 presented at the September December 2003 TFCP meeting.	Completion Date:	

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Item	Name	Assignment		
CP-9	Review of NERC Reliability Standards Working Group	Initially review the Phase I NERC Planning Standards that have been placed into final NERC due process. Recommend changes to those NERC Planning Standards that are scheduled for implementation in latter phases of the NERC Compliance Program. Review the Standards Authorization Requests and Reliability Standards as well as participate in the NERC process. Educate and inform the membership of developments.	2003 Budget:	\$20,000
			Expense to Date:	\$15,150
			Completion Date:	December 2003
GVZ	Status/ Comments:	CP-9 will focus on the review of NERC Planning Standards and new NERC Reliability Standards (as they are developed) and is developing recommendations for the membership on ballots as they transpire. To date recommendations on the cyber security ballots have been made as well as suggestions to the NERC functional model.		

Item	Name	Assignment		
CP-10	Collaborative Planning Initiative	The CP10 Working Group is tasked with determination of the effects of proposed new generation and transmission in the year 2006. The group will initially be studying the effects the additions have on existing bottlenecks as well as any new ones. The study will then focus on various scenarios as defined by working group members to determine the impacts on those bottlenecks identified. Possible future study this group will undertake could involve proposing solutions to the problem bottlenecks.	2003 Budget:	\$40,000
			Expense to Date:	\$650
			Completion Date:	December 2003
GVZ	Status/ Comments:	Phase 1 of the study was approved by the RCC in March identifying approximately 50 transmission bottlenecks for a 2006 study year. Phase 2 of the study is currently underway which will prioritize those bottlenecks found in Phase 1 and is scheduled to be completed by December 2003.		

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Item	Name	Assignment		
RPF	Regional Planning Forum	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.	2003 Budget	\$50,000
			Expense to Date:	\$26,962
			Completion Date:	December 2003
PAF	Status/ Comments:	A presentation illustrating the voltage profile resulting from the publicly available Blackout 2003 sequence of events was presented at the NPCC Executive Committee September meeting.		

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. The review is currently underway and scheduled for submittal to the RCC for approval at their November 2003 meeting.	2003 Budget	\$10,000
			Expense to Date:	\$8,450
			Completion Date:	December 2003
SEK	Status/ Comments:	The revised A-2 criteria was posted for the first time and comments considered. The document is currently posted for a third open comment period through November 7, 2003. An update will be provided to the RCC at their November meeting.		

Item	Name	Assignment		
JGWWG	Joint Glossary Working Group	Maintain the NPCC Glossary of Terms (Document A-7) and to expand the Glossary to include new terms as necessary.	2003 Budget:	\$5,000
			Expense to Date:	\$0
			Next Review Date:	December 2003
GVZ	Status/ Comments:	The CP-11 Working Group is currently revising the document and will be posting it in the NPCC Open Process for review by year's end.		

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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.	2003 Budget:	\$10,000
			Expense to Date:	\$4,900
			Completion Date:	December 2003
DJK	Status/ Comments:	Year 2003 Base Case Development effort is underway and scheduled for completion by the end of the year.		

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.	2003 Budget:	\$20,000
			Expense to Date:	\$5,900
			Completion Date:	December 2003
DJK	Status/ Comments:	A final UFLS report was completed and was presented to the RCC in March 2003. The implementation of the recommendations from the report will be coordinated by the TFCP; a status report will be given at the November RCC meeting.		

Item	Name	Assignment		
ISTWG	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.	2003 Budget:	\$5,000
			Expense to Date:	\$0
			Last Workshop:	May 16, 2002
FR	Status/ Comments:	The TFIST is currently reviewing the need for a workshop this year.		

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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.	2003 Budget:	\$10,000
			Expense to Date:	\$1,500
			Completion Date:	December 2003
DJK	Status/ Comments:	The Working Group completed the MEN 2003 Summer Study and Report in April 2003. The JIRC has approved an abbreviated MEN Winter 03/04 study and report due to the work currently underway on the August 14 th events. A draft report will be presented to the JIRC at their November meeting.		

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.	2003 Budget:	\$5,000
			Expense to Date:	\$0
			Completion Date:	December 2003
DJK	Status/ Comments:	The MMWG was directed to review and update the existing data release policies for power flow and dynamic data and models. In 2003, MMWG will assemble twelve load flow models that constitute the 2004 base case library and five dynamics library cases. The NPCC SS-37 Working Group on Base Case development is currently on schedule. All work is currently on schedule.		

Item	Name	Assignment		
NERC-ISN	Interregional Security Network (ISN)	The ISN allows for the exchange of security data between Security Coordination Centers.	2003 Budget:	\$120,000
			Expense to Date:	\$85,231
			Completion Date:	December 2003
FR	Status/ Comments:	Expense represents monthly NERC network charge to provide ISN services for ISO New England, the New York ISO, the IMO and TransEnergie.		

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Item	Name	Assignment		
NPCC-GAS	Multi-Regional Gas Assessment	Multi-Regional Assessment of the Adequacy of the Northeast Natural Gas Infrastructure to serve the Electric Power Generating Sector.	2003 Budget:	\$50,000
			Expense to Date:	\$0
			Completion Date:	December 2003
PAF	Status/ Comments:	This project is managed by the IMO with direction from a Steering Committee of Study Participants. NPCC share of the study cost will be billed only if the appropriate confidentiality agreements are executed. Phase I report expected in late June. Phase II contingency analysis an a redacted public summary report expected by the end of the year. by the end of the year.		