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Northeast Power Coordinating Council
Reliability Assessment Program

STATUS REPORT

February 1999

Distributed to:

Members, Reliability Coordinating Committee
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 Energy Management Technology
and
Mr. Charles J. Durkin, Jr.
Mr. Robert A. Hiney
Mr. Edward A. Schwerdt
Ms. Jennifer Budd

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APPENDICES

- A) **Budget Summary**
- B) **NPCC Recommendation Tracking Database - Summary**
- C) **Goals and Responsibilities**

HIGHLIGHTS

ITEM NUMBER

Task Force on Coordination of Operation

3) **B-2 *Control Performance Guide During Normal Conditions***

At the March 2, 1999 meeting, the RCC will consider the revised *Control Performance Guide During Normal Conditions* (Document B-2).

107) **Joint Working Group on the Identification of Critical Facilities for Restoration**

The Joint Working Group on the Identification of Critical Facilities for Restoration has completed a final report that will be considered at the TFCO March 3 and 4, 1999 meeting.

Task Force on Coordination of Planning

46) **The Maritimes Area Resource Adequacy Review**

At the March 2, 1999 meeting, the RCC will consider the Maritimes Area Resource Adequacy Review as approved by the TFCP at its February 3, 1999 meeting

48) **The New England Comprehensive Area Transmission Review**

At the March 2, 1999 meeting, the RCC will consider the New England Comprehensive Area Transmission Review as approved by the TFCP at its February 3, 1999 Meeting.

Task Force on System Protection

59) **B-1 *Guide for the Application of Autoreclosing to the Bulk Power System***

At the March 2, 1999 meeting, the RCC will consider the *Guide for the Application of Autoreclosing to the Bulk Power System* (Document B-1).

61) **B-7 *Automatic Underfrequency Load Shedding Program Guideline***

At the March 2, 1999 meeting, the RCC will consider *Automatic Underfrequency Load Shedding Program Guideline* (Document B-7).

62) **B-11 *Special Protection System Guideline***

At the March 2, 1999 meeting, the RCC will consider *Special Protection System Guideline* (Document B-11).

HIGHLIGHTS - continued

Task Force on Energy Management Technology

108) Y2K Ad Hoc Working Group

A status report on the Y2K Ad Hoc Working Group activities will be presented at the March 2, 1999 RCC meeting.

NPCC Open Review Process

As of February 23, 1999 a total of 7 drafts of NPCC Documents are posted for Open Process Review on the NPCC Home Page. Only two of these documents are open for comments at the moment as shown in the *NPCC Open Process Document Status* on the Home Page <<http://www.npcc.org/scripts/OpenStat.pl>>.

NPCC Recommendation Tracking Database

The Summary of the Recommendation Tracking Database is included as Appendix B in this NPCC Reliability Assessment Program Status Report.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

1)A-3	Emergency Operation Criteria	Description: Objectives, principles and requirements are presented that govern the Areas in formulating plans and procedures to be followed in an emergency or during conditions which could lead to an emergency.	Latest Version: January 1999
			Frequency of Reviews: 3 Years
			Next Review Date: January 2002

Status/ Comments: NPCC Document A - 3, Emergency Operation Criteria, was approved by the NPCC Full Members as a criterion in January of 1999. Also reference items 10, 18, 19 and 23.

2)A-6	Operating Reserve Criteria	Description: Objectives, principles and requirements are presented that govern the amount, availability and distribution of operation reserve.	Latest Version: September 1998
			Frequency of Reviews: 3 Years
			Next Review Date: September 2001

Status/ Comments: NPCC Document A - 6, Operating Reserve Criteria, was approved by the NPCC Full Members in September of 1998. Also reference items 13, 18 and 27.

3)B-2	Control Performance Guide During Normal Conditions	Description: Standards are established with which the NPCC Areas and systems within the Areas may measure control performance.	Latest Version: May 9,1995
			Frequency of Reviews: 3 Years
			Next Review Date: March 1999

Status/ Comments: The current draft of NPCC Document B - 2, Control Performance Guide During Normal Conditions, has completed its review as directed by the NPCC Open Process. Comments received through the Open Process were reviewed by the Task Force on Coordination of Operation for consideration at its meeting of January 12 and 13, 1999, and NPCC Document B - 2 will be submitted to the RCC for approval at its meeting of March 2, 1999. Also reference items 12 and 26.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

4)B-3	Guidelines for Inter-AREA Voltage Control	Description: Procedures and principles are established for occasions where a deficiency or an excess of reactive power can affect bulk power system voltage levels in a large portion of an Area or in two adjacent Areas.	Latest Version: November 6, 1997
			Frequency of Reviews: 3 Years
			Next Review Date: November 2000

Status/ Comments: Also reference items 9 and 22 .

5)B-9	Guide for Rating Generating Capability	Description: Standards for rating and verifying net generating capability are established.	Latest Version: November 1998
			Frequency of Reviews: 3 Years
			Next Review Date: November 2001

Status/ Comments: NPCC Document B - 9, Guide for Rating Generating Capability, was approved as an NPCC Guideline by the Reliability Coordinating Committee at its meeting of November 5, 1998. Also reference items 11 and 25.

6)B-13	Guidel for Reporting System Disturbances.	Description: This document establishes requirements and guidelines for reporting the details of a system disturbance to enable assessments and reviews of those disturbances which impact a significant part of one Area or which have inter - Area implications.	Latest Version: June 25, 1997
			Frequency of Reviews: 3 Years
			Next Review Date: May 1999

Status/ Comments: NPCC Document B-13, Guide for Reporting System Disturbances, is now being reviewed to address the reporting of repetitive events stemming from a common cause, as was frequently experienced during the ice storm of 1998. It will also be reviewed to ensure consistency with newly released NERC Operating Policy 5.F and developed as an interim draft document at the May 4 and 5, 1999, meeting of the TFCO.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

8)C-3	Procedures for Communications During Emergencies	Description:	These Procedures direct NPCC 's implementation of the Eastern Interconnection Hotline. The Eastern Interconnection Hotline is an emergency telecommunications network initiated through a preset conference call that interconnects one key Regional coordination center, staffed continuously, or a major utility control center serving the role of coordinator for the Region, in each Region of the NERC Eastern Interconnection. The North Texas Security Center in ERCOT is connected to the calls as well.	Latest Version:	January 21, 1997
				Frequency of Reviews:	1 Year
				Next Review Date:	March 1999
		Status/ Comments:	The current draft of NPCC Document C - 3, Procedures for Communications During Emergencies, has completed its review as directed by the NPCC Open Process. Comments received through the Open Process will reviewed by the Task Force on Coordination of Operation at its meeting of March 3 and 4, 1999. Reference also item 16.		

9)C-4	Monitoring Procedures for Guidelines for Inter-AREA Voltage Control	Description:	Procedures are established for the Task Force on Coordination of Operation 's monitoring and reporting of conformance with NPCC 's Guidelines for Inter-AREA Voltage Control.	Latest Version:	March 25, 1998
				Frequency of Reviews:	3 Years
				Next Review Date:	March 2001
		Status/ Comments:	Also reference items 4 and 22 .		

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

10)C-5	Monitoring Procedures for Emergency Operation Criteria	Description: Procedures are established for the Task Force on Coordination of Operation 's monitoring and reporting of conformance with NPCC 's Emergency Operation Criteria.	Latest Version: May 15, 1997
			Frequency of Reviews: 3 Years
			Next Review Date: May 1999

Status/ Comments: To ensure consistency between the monitoring document C - 5 and its parent document A - 3, action on this document was deferred until the ongoing review of Document A - 3 was concluded. Document A - 3 was approved by the NPCC Full Members as a criterion in January of 1999, and the draft NPCC Document C-5 will be posted shortly for comments through the NPCC Open Process. Also reference items 1, 23 and 29.

11)C-7	Monitoring Procedures for Guide for Rating Generating Capability	Description: Procedures are established for the Task Force on Coordination of Operation 's monitoring and reporting of conformance with NPCC 's Guide for Rating Generating Capability.	Latest Version: March 25, 1998
			Frequency of Reviews: 3 Years
			Next Review Date: March 2001

Status/ Comments: Also reference items 5 and 25 .

12)C-8	Monitoring Procedures for Control Performance Guide During Normal Conditions	Description: Procedures are established for the Task Force on Coordination of Operation 's monitoring and reporting of conformance with NPCC 's Control Performance Guide During Normal Conditions.	Latest Version: May 10, 1995
			Frequency of Reviews: 3 Years
			Next Review Date: March 1999

Status/ Comments: The current draft of NPCC Document C - 8, Monitoring Procedures for Control Performance Guide During Normal Conditions, has completed its review as directed by the NPCC Open Process. Comments received through the Open Process will reviewed by the Task Force on Coordination of Operation at its meeting of March 3 and 4, 1999. Also reference items 3 and 26.

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Documents

13)C-9	Monitoring Procedures for Operating Reserve Criteria	Description: Procedures are established for the Task Force on Coordination of Operation 's monitoring and reporting of conformance with NPCC 's Operating Reserve Criteria	Latest Version: March 25, 1998 Frequency of Reviews: 3 Years Next Review Date: March 2001
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Status/ Comments: Also reference items 2 and 27 .

14)C-11	Monitoring Procedures for Interconnected System Frequency Response	Description: Procedures are established for monitoring and reporting the frequency responses to large generation losses.	Latest Version: March 25, 1998 Frequency of Reviews: 3 Years Next Review Date: March 2001
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Status/ Comments:

15)C-12	Procedure for Shared Activation of Ten Minute Reserve	Description: Procedures are established to provide for the shared activation of ten minute reserve on an Area basis.	Latest Version: March 25, 1998 Frequency of Reviews: 3 Years Next Review Date: March 2001
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Status/ Comments:

TASK FORCE ON COORDINATION OF OPERATION

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Documents

16)C-13	Operational Planning Coordination	Description: Procedures are established to coordinate the exchange of operational data, provide for the notification of planned facility outages among the Areas, and provide for formal communications among the Areas in anticipation of a period of capacity shortage or light load conditions. It also established the procedures for the routine NPCC conference call held weekly among the Areas.	Latest Version: March 15, 1997 Frequency of Reviews: 3 Years Next Review Date: March 2000
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Status/ Comments: Reference also items 8 and 28 .

17)C-15	Procedures for Solar Magnetic Disturbances on Electrical Power Systems	Description: 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 25, 1998 Frequency of Reviews: 3 Years Next Review Date: March 2001
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Status/ Comments:

18)C-19	Procedures During Shortages of Operating Reserve	Description: This Procedure establishes specific instructions for the redistribution of Operating Reserve among the Areas when one or more Areas is experiencing an Operating Reserve deficiency.	Latest Version: July 18, 1995 Frequency of Reviews: 3 Years Next Review Date: May 1999
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Status/ Comments: To ensure consistency, action on this document was deferred until the ongoing review of Document A - 3 was concluded. Document A - 3 was approved by the NPCC Full Members as a criterion in January of 1999. The draft NPCC Document C -19 has completed the NPCC Open Process Review and comments received through the Open Process will reviewed by the Task Force on Coordination of Operation at its meeting of March 3 and 4, 1999. Also reference items 1 and 2.

TASK FORCE ON COORDINATION OF OPERATION

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Documents

19)C-20	Procedures During Abnormal Operating Conditions	Description:	This Procedure complements the Emergency Operation Criteria by establishing specific instructions for the System Operator during emergency conditions in an NPCC Area or Areas.	Latest Version:	May 12, 1994
				Frequency of Reviews:	3 Years
				Next Review Date:	May 1999

Status/ Comments: To ensure consistency, action on this document was deferred until the ongoing review of Document A-3 was concluded. Document A-3 was approved by the NPCC Full Members as a criterion in January of 1999. The draft NPCC Document C-20 has completed the NPCC Open Process Review and comments received through the Open Process will reviewed by the Task Force on Coordination of Operation at its meeting of March 3 and 4, 1999. Also reference item 1.

20)C-21	Monitoring Procedures for Conformance with Normal and Emergency Transfer Limits	Description:	This Procedure establishes TFCO monitoring and reporting requirements for transfer limits during normal and emergency operations as stipulated in NPCC Document A-2, Basic Criteria for Design and Operation of Interconnected Power Systems.	Latest Version:	January 21, 1997
				Frequency of Reviews:	3 Years
				Next Review Date:	January 2000

Status/ Comments: Also reference items 24 and 38 .

21)	Task Force Scope	Description:	The overall charge to the TFCO, together with the scope of activities, is given to the Task Force through its scope.	Latest Version:	May 7, 1996
				Frequency of Reviews:	3 Years
				Next Review Date:	May 1999

Status/ Comments: At its meeting of January 12 and 13, 1999, the TFCO directed an ad hoc working group to prepare a first draft of a revised Task force scope.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Surveys/Reviews

22)	Survey on conformance with the Guidelines for Inter-AREA Voltage Control	Description: As charged in the Monitoring Procedure C-4, each Area must successfully respond to a set of directives in order to demonstrate conformance with the Guidelines for Inter-AREA Voltage Control.	Latest Version: January, 1997
			Frequency of Reviews: 3 Years
			Next Review Date: January 2000

Status/ Comments: Also reference items 4 and 9 .

23)	Survey on conformance with the Emergency Operation Criteria	Description: As charged in the Monitoring Procedure C-5, each Area must successfully respond to a set of directives in order to demonstrate conformance with the Emergency Operation Criteria.	Latest Version: November 1998
			Frequency of Reviews: 3 Years
			Next Review Date: November 2001

Status/ Comments: The 1998 survey has been concluded and was reviewed by the Task Force on Coordination of Operation at its meeting of November 3 and 4, 1998. Also reference items 1, 10 and 19.

24)	Monitoring and reporting of conformance with the provisions of operating limits as specified in the Basic Criteria for Design and Operation of Interconnected Power Systems	Description: As charged in the Monitoring Procedure C-21, each Area must demonstrate conformance to the testing criteria stated in the Basic Criteria for Design and Operation of Interconnected Power Systems.	Latest Version: November 1998
			Frequency of Reviews: 3 years
			Next Review Date: November 2001

Status/ Comments: The 1998 survey has been concluded and was reviewed by the Task Force on Coordination of Operation at its meeting of November 3 and 4, 1998. Also reference items 20 and 38.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Surveys/Reviews

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| 25) | Survey on conformance with the Guide for Rating Generating Capability | Description: As charged in the Monitoring Procedure C-7, each Area must state that it can verify the net capability of its generating capacity. | Latest Version: January 1997
Frequency of Reviews: 3 Years
Next Review Date: January 2000 |
| | Status/ Comments: Also reference items 5 and 11 . | | |
| 26) | Survey on conformance with the Control Performance Guide During Normal Conditions | Description: The Task Force on Coordination of Operation reports annually to the Reliability Coordinating Committee on the control performance of the Areas as demonstrated by conformance with the CPS1 and CPS2 standards as presented in the Monitoring Procedure C-8. | Latest Version: November 1998
Frequency of Reviews: See Status / Comments
Next Review Date: March 1999 |
| | Status/ Comments: The NPCC Areas have migrated from the A1 and A2 performance criteria to the NERC Control Performance Standard 1 (CPS-1) and Control Performance Standard 2 (CPS-2). However, the TFCO has requested the Control Performance Working Group (CO-1) to continue monitoring criteria A1 and A2 performance on a monthly basis. Also reference items 3 and 12.

At the RCC meeting of November 5, 1998, the RCC accepted the NYPP plan for return to compliance with CPS-2 and noted full compliance by NYPP since its implementation. | | |
| 27) | Survey on conformance with the Operating Reserve Criteria | Description: The Task Force on Coordination of Operation reports annually to the Reliability Coordinating Committee on the conformance of the Areas with the Operating Reserve Criteria as demonstrated by surveying the ability of the Areas to return to pre-contingency conditions within ten minutes of a defined reportable event as outlined in the Monitoring Procedure C-9. | Latest Version: June 1998
Frequency of Reviews: 1 Year
Next Review Date: June 1999 |
| | Status/ Comments: Also reference items 2 and 13 . | | |

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Surveys/Reviews

28)	Survey of NPCC Transmission Facilities List	Description:	An annual list of NPCC transmission facilities is established based on the criterion that, if removed from service, the transmission facility may directly or indirectly impact the reliability of another Area or other Areas.	Latest Version:	February 1998
				Frequency of Reviews:	1 Year
				Next Review Date:	March 1999

Status/ Comments: Also reference item 16 .

29)	Black Start Survey	Description:	This is a survey of station emergency power start-up facilities.	Latest Version:	April 1995
				Frequency of Reviews:	3 Year
				Next Review Date:	March 1999

Status/ Comments: The Task Force on Coordination of Operation maintains the survey of station emergency power start-up facilities through NPCC Document C-5, Monitoring Procedures for Emergency Operation Criteria. The TFCO and the Task Force on Energy Management Technology have established a joint working group to identify all such facilities (communications, transmission, computer control) critical to the restoration of the interconnected systems and to develop criteria through which a definitive list of such critical facilities may be established. Reference item 107.

A final report was released in December of 1998 and initially reviewed by the TFCO at its meeting of January 12 and 13, 1999; following suggested comments, the report will be returned to the TFCO for approval at its meeting of March 3 and 4, 1999. Reference also items 10 and 23.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

30)CO-1	Control Performance	Assignment:	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.	1999 Budget:	\$16,250
				Expense to Date:	\$650

Status/ Comments: The Control Performance Working Group (CO-1) has concluded the migration of the NPCC Areas from compliance with the former A1 and A2 control performance criteria to the NERC Control Performance Standard 1(CPS-1) and NERC Control Performance Standard 2 CPS-2).

The Control Performance Working Group (CO-1) has reconciled the NPCC inadvertent account as directed by the NERC Operating Committee.

31)CO-2	Dispatcher Training	Assignment:	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.	1999 Budget:	\$24,150
				Expense to Date:	\$1,850

Status/ Comments: The Task Force on Coordination of Operation proposed the coordination of the Working Groups CO - 2 and CO - 8 to better direct and enhance the program contents of the semiannual dispatcher training seminar. Revised scopes and procedures for the System Operations Managers Working Group and the Working Group on Dispatcher Training, each scope adding the respective CO - 2 and CO - 8 alignment to its charges, were approval by the Reliability Coordinating Committee at its meeting of November 5, 1998. The autumn seminar of 1998, the first such seminar reflecting this consolidation, demonstrated an improved turnout and participation.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

32)CO-7	Operation Review Team	Assignment:	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.	1999 Budget:	\$40,000
				Expense to Date:	\$1,950

Status/ Comments: Recognizing its experience in control room surveys, the CO - 7 Working Group is assisting the NERC Compliance Subcommittee in developing strategies for compliance and Operator Certification. It is also testing the possible implementation of a periodic, real time survey of reserve adequacy among the NPCC Areas and within NPCC as a whole.

33)CO-8	System Operations Managers Working Group	Assignment:	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.	1999 Budget:	\$25,000
				Expense to Date:	\$650

Status/ Comments: The Task Force on Coordination of Operation proposed the coordination of the Working Groups CO - 2 and CO - 8 to better direct and enhance the program contents of the semiannual dispatcher training seminar. Revised scopes and procedures for the System Operations Managers Working Group and the Working Group on Dispatcher Training, each scope adding the respective CO - 2 and CO - 8 alignment to its charges, were approved by the Reliability Coordinating Committee at its meeting of November 5, 1998. The autumn seminar of 1998, the first such seminar reflecting this consolidation, demonstrated an improved turnout and participation.

The System Operations Managers Working Group (CO-8) is reviewing the restoration of islands following the ice storm of 1998 and will report its conclusions to the Task Forces on Coordination of Operation.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

35)	Lake Erie Circulation Working Group (LECWG)	Assignment:	The Lake Erie Circulation 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.	1999 Budget:	\$0
				Expense to Date:	\$3,250
		Status/ Comments:	<p>Work has been completed on the development of distribution factors and internal dispatch procedures to support the transfer curtailments outlined in the Lake Erie Security Process.</p> <p>The LEER will be filed with the FERC on March 1, 1999.</p>		
36)	NPCC Ad Hoc Working Group on ATC	Assignment:	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	1999 Budget:	\$0
				Expense to Date:	\$300
		Status/ Comments:	<p>The NPCC Ad Hoc ATC Working Group was reconvened to address additional charges and coordination efforts and formulate NPCC's input to the NERC ATC Working Group. A revised ATCWG report was approved by the RCC at its June 26, 1998 meeting.</p>		

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

107)	Joint Working Group on the Identification of Critical Facilities for Restoration	Assignments: Identification of the key facilities required for system restoration purposes and development of appropriate test procedures for the key facilities and their critical components in order to ensure their suitable operation in the event of a system disturbance and possible loss of AC station service power supply.	1999 Budget: \$0 Expense to Date: \$0 Completion Date: March 1999
	Status/ Comments:	The first phase of the effort, the establishment of criteria that determine those facilities critical to system restoration, has been completed. Criteria for carrying out the testing of these critical facilities are being finalized. A final report was released in December of 1998 and initially reviewed by the TFCO at its meeting of January 12 and 13, 1999; following suggested comments, the report will be returned to the TFCO for approval at its meeting of March 3 and 4, 1999. Reference also items 10 and 23.	

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Documents

37)A-1	Criteria for Review and Approval of Documents	Description:	Criteria outlines the review and approval procedures for all NPCC and NERC documents and contains the NPCC Glossary.	Latest Version:	March 1997
				Frequency of Reviews:	4 Years
				Next Review Date:	June 1999
	Status/ Comments: The Task Force on Coordination of Planning is reviewing this document and is considering incorporating the NPCC Reliability Compliance Program (RCP) description and the NPCC Open Process description into a future version of the docment. This will be decided upon when the RCP is finalized. Further discussion will take place at upcoming TFCP meetings.				
38)A-2	Basic Criteria for Design and Operation of Interconnected Power Systems	Description:	Criteria are established for proper design and operation concerning Resource Adequacy and Transmission Capability.	Latest Version:	August 1995
				Frequency of Reviews:	4 Years
				Next Review Date:	August 1999
	Status/ Comments: TFCP has begun its review of the document. Initial TFCP comments are due by March 30, 1999. Those comments will be coordinated and distributed to TFCP in a new draft which is scheduled to be discussed at the May 12, 1999 TFCP meeting.				
39)B-8	Guidelines for Area Review of Resource Adequacy	Description:	Guidelines to help TFCP ascertain that each Area's resource plan is in accordance with the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems".	Latest Version:	February 14, 1996
				Frequency of Reviews:	3 Years
				Next Review Date:	June 1999
	Status/ Comments: The TFCP has assigned the CP-5 Working Group on Interconnection Benefits the responsibility for developing a revised draft for this document. CP-5 is scheduled to distribute a revised version of the document to the TFCP, for its review and comment, by March 1, 1999. After TFCP has reviewed the document and approved the revised version, it will be put into the NPCC Open Process for further review.				

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Documents

40)C-16	Procedure for NPCC Review of New or Modified Bulk Power System Special Protection Systems	Description: This document outlines procedures for reporting new or modified Bulk Power System Special Protection Systems.	Latest Version: September 28, 1995
			Frequency of Reviews: 3 Years
			Next Review Date: May 1999

Status/ Comments: TFCP discussed this document at the February 3, 1999 TFCP meeting. Comments are scheduled back by February 23, 1999. At that time a revised draft will be developed and posted on the NPCC Open Process for review.

41)	Task Force Scope	Description: The Task Force on Coordination of Planning scope of activities.	Latest Version: February 26, 1997
			Frequency of Reviews: 3 Years
			Next Review Date: May 1999

Status/ Comments: TFCP has been requested to review its Task Force Scope earlier than originally scheduled so as to reflect the latest changes that are occurring with the NPCC structure (e.g. implementation of the NPCC Membership Agreement). TFCP will discuss the Working Group scope at its May 12, 1999 meeting.

Surveys/Reviews

42)	Resource Adequacy — Coordination and Review of Area Studies	Description: Review of the New York Area resource adequacy study.	Latest Version: February 1996
			Frequency of Reviews: 3 Years
			Next Review Date: June 1999

Status/ Comments: The New York Power Pool requested and was granted a delay in its submission of the New York Area resource adequacy study. The report will be presented to TFCP in April, 1999.

TASK FORCE ON COORDINATION OF PLANNING

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Surveys/Reviews

43) Resource Adequacy —
Coordination and Review of
Area Studies

Description: Review of the New England Area resource
adequacy study.

Latest Version: June 1997

Frequency of Reviews: 3 Years

Next Review Date: June 2000

Status/ Comments:

44) Resource Adequacy —
Coordination and Review of
Area Studies

Description: Review of the Ontario Area resource adequacy
study.

Latest Version: June 1997

Frequency of Reviews: 3 Years

Next Review Date: June 2000

Status/ Comments:

45) Resource Adequacy —
Coordination and Review of
Area Studies

Description: Review of the Québec Area resource adequacy
study.

Latest Version: November 8, 1995

Frequency of Reviews: 3 Years

Next Review Date: June 1999

Status/ Comments:

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Surveys/Reviews

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|-----|--|---------------------|---|------------------------------|---------------|
| 46) | Resource Adequacy —
Coordination and Review of
Area Studies | Description: | Review of the Maritime Area resource adequacy
study. | Latest Version: | August 1994 |
| | | | | Frequency of Reviews: | 3 Years |
| | | | | Next Review Date: | March 1999 |
| | Status/ Comments: The Maritimes Area Resource Adequacy Review was approved by the TFCP at their February 3, 1999 meeting. It will be presented to the RCC for approval at their March 2, 1999 meeting. | | | | |
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| 47) | NPCC Area Transmission
Review | Description: | Review of the New York Area future
transmission plans (5-7 years out) | Latest Version: | February 1999 |
| | | | | Frequency of Reviews: | 1 Year |
| | | | | Next Review Date: | February 2000 |
| | Status/ Comments: The Task Force on Coordination of Planning approved the 1998 New York Area Interim Transmission Review at the February 3, 1999 TFCP meeting. It is available on the NPCC web site under TFCP. | | | | |
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| 48) | NPCC Area Transmission
Review | Description: | Review of the New England Area future
transmission plans (5-7 years out) | Latest Version: | November 1997 |
| | | | | Frequency of Reviews: | 1 Year |
| | | | | Next Review Date: | March 1999 |
| | Status/ Comments: The New England Comprehensive Area Transmission Review was approved by the TFCP at their February 3, 1999. Meeting. It will be sent to the RCC for approval at their March 2, 1999 meeting. | | | | |

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Surveys/Reviews

49)	NPCC Area Transmission Review	Description: Review of the Ontario Area future transmission plans (5-7 years out)	Latest Version: December 1998
			Frequency of Reviews: 1 Year
			Next Review Date: December 1999

Status/ Comments: The Ontario Area Transmission Review was approved by the TFCP at their December 2, 1998 meeting. It is available on the NPCC website under TFCP.

50)	NPCC Area Transmission Review	Description: Review of the Québec Area future transmission plans (5-7 years out)	Latest Version: September 1998
			Frequency of Reviews: 1 Year
			Next Review Date: September 1999

Status/ Comments:

51)	NPCC Area Transmission Review	Description: Review of the Maritime Area future transmission plans (5-7 years out)	Latest Version: June 1998
			Frequency of Reviews: 1 Year
			Next Review Date: June 1999

Status/ Comments:

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

52)CP-5	Working Group on the Review of Interconnection Assistance Benefits	Assignments: Review the overall reliability benefits of the interconnections, for each Area, within the NPCC Region	1999 Budget: \$50,000 Expense to Date: \$5,200 Completion Date: December 1999
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Status/ Comments: The CP-5 working group is scheduled to issue its final report on interconnection benefits for NPCC to the TFCP by March 1, 1999. The Working Group is also scheduled to present to the TFCP a revised version of the NPCC document, "Guidelines for Area Review of Resource Adequacy," by March 1, 1999.

53)CP-7	Working Group on the Review of NERC Planning Standards	Assignments: Review the proposed NERC Planning Standards. Recommend changes to Standards. Assess monetary impact to comply with proposed Standards. Evaluate and implement necessary revisions to existing NPCC Reliability Assessment Program to comply with NERC Planning Standards. Develop and implement an NPCC Compliance and Enforcement Process.	1999 Budget: \$35,000 Expense to Date: \$20,650 Completion Date: March 1999
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Status/ Comments: The CP-7 Working Group is awaiting reassignment having completed its initial charge. The Compliance Monitoring and Assessment Subcommittee (CMAS) has been formed and its scope of work will be presented to the RCC for approval at the March 2, 1999 meeting. This subcommittee will be responsible, among other tasks, for the managing of the 1999 NPCC Reliability Compliance Program including NPCC's compliance with the NERC Pilot Compliance Program. The CMAS has taken on several of the CP-7 Working Group's responsibilities. CMAS will report directly to the RCC.

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

54) EMWG Environmental Matters Working Group

Assignments: Serve as the primary resource to the TFCP on all environmental matters. This includes but is not limited to review of reliability implications, review of legislative and regulatory existing and emerging issues, evaluation of the effects of proposed system modifications, operating procedures or environmental equipment, identification of the need for special environmental studies, performance of assignments, etc.

1999 Budget: \$0
Expense to Date: \$0
Completion Date: Ongoing

Status/ Comments:

55) LCFWG Load, Capacity & Fuels Working Group

Assignments: General: Serve as the primary resource to the TFCP on matters relating to load, capacity energy and fuels data within NPCC.

Specific: 1) Provide load, capacity, energy, fuel and other data in electronic format through NERC to the DOE-EIA as part of the annual EIA-411 filing.

2) Prepare an NPCC load, capacity, energy, fuel and transmission data report.

1999 Budget: \$5,000
Expense to Date: \$0
Completion Date: 1) EIA data: March '99
 NERC data: April '99
 2) NPCC Report: June '99

Status/ Comments: NPCC's part of the NERC/EIA-411 1999 data collection effort was initiated in December 1998 and the Area contacts are striving to meet the new deadline of March 15, 1999 (two weeks earlier than in previous years) for submission of the Form 860 generating unit data that is supplied to the US EIA (US data only). Load/capacity and other data for the NERC Reliability Assessment Subcommittee (RAS) have been simplified, and the due date remains April 1.

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

56)JGWW	Joint Glossary Working Group	Assignments: To maintain the NPCC Glossary of Terms (Document A-7) and to expand the Glossary to include new terms as necessary.	1999 Budget: \$5,000
			Expense to Date: \$0
			Next Review Date: Ongoing

Status/ Comments: Reference Item 112 below .

Documents

112)A-7	NPCC Glossary of Terms	Description: The NPCC Glossary of Terms (the Glossary) includes terms from NPCC Criteria (A), Guideline (B) and Procedure (C) Documents, as well as the North American Electric Reliability Council (NERC) Glossary of Terms, August 1996.	Latest Version: September 1998
			Frequency of Reviews: 1 Year
			Next Review Date: September 1999

Status/ Comments: After approval at the June 1998 Reliability Coordinating Committee (RCC) meeting the NPCC Glossary of Terms (Document A-7) was approved by the NPCC Full Member Representatives in September 1998.

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Documents

57)A-4	Maintenance Criteria for Bulk Power System Protection	Description: This document establishes the maintenance intervals and practices which should result in dependable and secure protection system operation.	Latest Version: September 1998
			Frequency of Reviews: 3 years
			Next Review Date: September 2001

Status/ Comments: Also reference items 69 and 70 .

58)A-5	Bulk Power System Protection Criteria	Description: This document establishes the minimum design objectives and recommends design practices to minimize the severity and extent of system disturbances and to minimize possible damage to system equipment.	Latest Version: September 1998
			Frequency of Reviews: 3 Years
			Next Review Date: September 2001

Status/ Comments: Also reference item 69 .

59)B-1	Guide for the Application of Autoreclosing to the Bulk Power System	Description: This document establishes guidelines for automatic reclosing to facilitate restoration of the system to normal following automatic tripping of transmission facilities.	Latest Version: February 14, 1996
			Frequency of Reviews: 3 Years
			Next Review Date: March 1999

Status/ Comments: The document has completed Open Process and Concurrent Task Force Reviews. It will be submitted for approval at the March 2, 1999 RCC meeting.

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Documents

60)B-6	Automatic Load Shedding Employing Underfrequency Threshold Relays	Description: This guideline establishes characteristics for underfrequency load shedding relays which are set using discrete or threshold frequency values.	Latest Version: November 25, 1983 Frequency of Reviews: 5 Years Next Review Date: March 1999
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Status/ Comments: As part of the document review, the TFSP is merging documents B-6 and B-7 into a single guide (Document B-7) entitled Automatic Underfrequency Load Shedding Program Relaying Guideline. Reference Item 61 below.

61)B-7	Application of Underfrequency Protection New Title: Automatic Underfrequency Load Shedding Program Relaying Guideline	Description: This guideline establishes requirements for application and testing of underfrequency threshold relays that are necessary to accomplish the objectives of the NPCC automatic underfrequency load shedding program established in the Emergency Operation Criteria (Document A-3).	Latest Version: May 23, 1984 Frequency of Reviews: 5 Years Next Review Date: March 1999
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Status/ Comments: Documents B-6 and B-7 have been merged into a single guide entitled Automatic Underfrequency Load Shedding Program Relaying Guideline (Document B-7). The document has completed Open Process and Concurrent Task Force Reviews. It will be submitted for approval at the March 2, 1999 RCC meeting. Also reference items 1 and 60.

62)B-11	Special Protection System Guideline	Description: This guideline categorizes the Special Protection System (SPS) according to the Criteria fault for which it is designed and the impact its failure would have on the network. It further provides guidelines for the design, testing and operation of the SPS.	Latest Version: February 14, 1996 Frequency of Reviews: 3 Years Next Review Date: March 1999
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Status/ Comments: The document has completed Open Process and Concurrent Task Force Reviews. It will be submitted for approval at the March 2, 1999 RCC meeting.

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Documents

63)C-22	Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System Formerly Document B-5	Description: This procedure indicates how new facilities or modifications to existing facilities are to be presented to the TFSP in order to ascertain compliance with the principles of the Protection Criteria.	Latest Version: September 25, 1996 Frequency of Reviews: 3 Years Next Review Date: September 1999
	Status/ Comments: The TFSP initiated the review of this document at the January 20-21, 1999 Task Force meeting .		

64)	Task Force Scope	Description: This document outlines the Task Force on System Protection scope of activities.	Latest Version: May 1996 Frequency of Reviews: 3 Years Next Review Date: May 1999
	Status/ Comments: The TFSP initiated the review of its scope at the January 20-21, 1999 Task Force meeting .		

Surveys/Reviews

65)	Minimum Maintenance Compliance Survey	Description: This report summarizes member system compliance with the Maintenance Criteria for Bulk Power System Protection (Document A-4).	Latest Version: June 1998 Frequency of Reviews: 1 Year Next Review Date: June 1999
	Status/ Comments: The annual survey for compliance with the Maintenance Criteria for Bulk Power System Protection (Document A-4) for the period ending December 31, 1998 was initiated in January 1999.		

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Surveys/Reviews

- | | | | | | |
|-----|---|---------------------|--|------------------------------|-------------|
| 66) | Survey of Compliance with the NPCC Underfrequency Load Shedding Program | Description: | These reports summarize Area compliance with sections 4.6 and 4.9 of the "Emergency Operation Criteria" (Document A-3) | Latest Version: | April 1998 |
| | | | | Frequency of Reviews: | 1 Year |
| | | | | Next Review Date: | April 1999 |
| | Status/ Comments: The annual survey of compliance with sections 4.6 and 4.9 of the "Emergency Operation Criteria" (Document A-3) for the period ending December 31, 1998 was initiated in December 1998. | | | | |
| | | | | | |
| 67) | Special Protection System List | Description: | This document lists Special Protection Systems on the NPCC Bulk Power System. | Latest Version: | April 1998 |
| | | | | Frequency of Reviews: | 1 Year |
| | | | | Next Review Date: | April 1999 |
| | Status/ Comments: The annual update to the 1999 NPCC Special Protection System List was initiated in December 1998. | | | | |
| | | | | | |
| 68) | Review protection systems for proposed installations or existing installations undergoing substantial modifications | Description: | Review, in accordance with the Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System (Document C-22) proposed protection systems, including special protection systems, for new major installations as well as existing installations undergoing substantial modifications, before such facilities are constructed or modified and report on the findings with respect to compliance with the NPCC Bulk Power System Protection Criteria (Document A-5). | Latest Version: | Ongoing |
| | | | | Frequency of Reviews: | As Required |
| | Status/ Comments: At its recent meetings, the TFSP discussed a number of protection system changes, including SPS installations and modifications. | | | | |

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Surveys/Reviews

69)	Review protection system performance following major system events or disturbances	Description:	In conjunction with other task forces, review and analyze the detailed performance of protection systems following major power system disturbances and events and participate in the preparation of reports, which would include appropriate recommendations.	Latest Version:	Ongoing
				Frequency of Reviews:	As Required
		Status/ Comments:	The NERC/DAWG Reports on 1996 and 1997 System Disturbances have not been issued yet. At its January 1999 meeting, the TFSP discussed system disturbances that have been reported to NPCC and NERC since the previous TFSP meeting. Also reference items 57 and 58.		

Working Groups/Ad Hoc Assignments

70)	Protection System Maintenance Practices	Assignment:	Collect Bulk Power System protection system maintenance data on an annual basis to enable the TFSP to evaluate protection system maintenance costs and the impact on Bulk Power System performance due to alternative methods and intervals for protection system maintenance.	Completion Date:	Deferred
				Frequency of Reviews:	3 years
				Next Review Date:	September 2001
		Status/ Comments:	Based on a survey of a representative number of electromechanical, solid state and self-checking microprocessor based protection groups applied on the bulk power system within NPCC, the Task Force concluded at its January 20-21, 1999 meeting that it would be highly doubtful that a Markov analysis could justify an extension of the maintenance intervals specified in Table 1 of the Maintenance Criteria for Bulk Power System Protection (Document A-4). Hence, it was decided that the collection of data for the annual update of actual performance database should be deferred. The situation will again be reviewed at the next triennial review of the Maintenance Criteria (Document A-4). Also reference item 57.		

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Documents

71)B-4	Guidelines for NPCC Area Transmission Reviews	Description: Guidelines to help TFSS ascertain that each Area's transmission expansion plan, based on its pro-posed generation additions, has been developed in accordance with the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems."	Latest Version: August 7, 1996 Frequency of Reviews: 3 Years Next Review Date: August 1999
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Status/ Comments:

72)B-10	Guidelines for Requesting Exclusions to Section 5.1 (B) and 6.1 (B) of the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems"	Description: Establishes procedures for requesting exclusion from certain contingencies in the Basic Criteria. Note: Member Representatives shall be advised of approvals by the Reliability Coordinating Committee of applications for exclusions.	Latest Version: June 26, 1998 Frequency of Reviews: 3 years Next Review Date: June 2001
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Status/ Comments: The Document was approved by RCC at the June 26, 1998 meeting .

73)C-18	Procedure for Testing and Analysis of Extreme Contingencies	Description: This document establishes a procedure for the testing and analysis of Extreme Contingencies.	Latest Version: January 1999 Frequency of Reviews: 3 years Next Review Date: January 2002
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Status/ Comments: The Document was approved by TFSS at the January 28, 1999 meeting .

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Documents

74)C-25	Procedure to Collect Real Time Data for Inter-Area Dynamic Analysis	Description: This document establishes a procedure for the collection of real time data following a power system disturbance for the purpose of analyzing the dynamic performance of the NPCC bulk power system.	Latest Version: February 1, 1996 Frequency of Reviews: 3 years Next Review Date: April 1999
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Status/ Comments: A final draft of interim document C-25 that addresses NPCC Conformance with NERC Planning Standards I.F has been forwarded to CP-7 and other task forces for comments. The interim document will be field tested during the 1999 pilot program.

75)	Task Force Scope	Description: The Task Force on System Studies scope of activities.	Latest Version: February 1997 Frequency of Reviews: 3 Years Next Review Date: February 2000
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Status/ Comments:

Surveys/Reviews

76)	NPCC Area Transmission Review	Description: Review of New York Area future transmission plans (5-7 years out)	Latest Version: February 1999 Frequency of Reviews: 1 Year Next Review Date: February 2000
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Status/ Comments: The New York Area interim review was approved by TFSS at the January 28, 1999 meeting and forwarded to the Task Force on Coordination of Planning (TFCP).

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Surveys/Reviews

77)	NPCC Area Transmission Review	Description: Review of New England Area future transmission plans (5-7 years out)	Latest Version: November 1997
			Frequency of Reviews: 1 Year
			Next Review Date: March 1999

Status/ Comments: New England's comprehensive review will be presented to RCC at the March 2, 1999 meeting for approval.

78)	NPCC Area Transmission Review	Description: Review of Ontario Area future transmission plans (5-7 years out)	Latest Version: December 1998
			Frequency of Reviews: 1 Year
			Next Review Date: December 1999

Status/ Comments: Ontario Hydro's interim review was approved by TFSS at the November 19, 1998 meeting and forwarded to the Task Force on Coordination of Planning (TFCP).

79)	NPCC Area Transmission Review	Description: Review of Québec Area future transmission plans (5-7 years out)	Latest Version: September 1998
			Frequency of Reviews: 1 Year
			Next Review Date: September 1999

Status/ Comments: The Quebec Area interim review submission by Hydro Quebec was approved by the TFSS at its Sept. 23-24, 1998 meeting.

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Surveys/Reviews

80)	NPCC Area Transmission Review	Description: Review of Maritime Area (New Brunswick and Nova Scotia) future transmission plans (5-7 years out)	Latest Version: June 1998 Frequency of Reviews: 1 Year Next Review Date: June 1999
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Status/ Comments: The Maritime Area interim review submission by Nova Scotia and New Brunswick was approved by the TFSS at its June 1-2, 1998 meeting,

81)	Adequacy of Automatic Load Shedding Programs	Description: Assessment of the adequacy and suitability of existing underfrequency load shedding settings.	Latest Version: February 1998 Frequency of Reviews: 3 Years Completion Date: February 2001
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Status/ Comments: The RCC approved the above report at the February 24, 1998 meeting .

82)	Creation of Base Case Library	Description: On an annual basis, develop a library of solved load flow cases and associated dynamic data. Note: The present assessment is being conducted by the SS-37 Working Group.	Latest Version: December 1998 Frequency of Reviews: 1 Year Completion Date: November 1999
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Status/ Comments: Ten load flow models have been assembled as part of the 1998 Base Case Development effort. These cases form the basis for the ten models that have been submitted to the NERC MMWG. Also reference item 85.

A load flow base case model and associated dynamic data for December 31, 1999 has also been developed. This case will be used for simulating Y2K contingencies. This Y2K representation for NPCC has also been submitted to NERC MMWG. Also reference item 101.

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Surveys/Reviews

83)	Overall Transmission Reliability Study	Description: 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: September 1997 Frequency of Reviews: 3 Years Completion Date: September 2000
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Status/ Comments:

84)	Review of Dynamic Analysis Recording Devices	Description: This review summarizes the characteristics of recording devices used to capture power system dynamic phenomena.	Latest Version: December 8, 1995 Frequency of Reviews: 3 Years Next Review Date: June 1999
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Status/ Comments: The SS-38 Working Group has prepared a new form to survey and collect the information on recording devices used to capture power system dynamic phenomena. The survey and associated report is expected to be complete by June 1999.

Working Groups/Ad Hoc Assignments

85)SS-37	Base Case Development	Assignment: On an annual basis, develop a library of solved load flow cases and associated dynamic data.	1999 Budget: \$15,000 Expense to Date: \$0 Completion Date: Ongoing
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Status/ Comments: Dynamic data for two models years (1999 Light Load and 2003 Summer) will be submitted to the NERC SDDWG in March 1999. Ten load flow models have been assembled as part of the 1998 Base Case Development effort. Reference items 82, 101 and 105.

A load flow base case model and associated dynamic data for December 31, 1999 has also been developed. This case will be used for simulating Y2K contingencies.

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

86)SS-38	Working Group on Inter- Area Dynamic Analysis	Assignment: Assigned to analyze dynamic phenomena, which may affect interconnected system reliability, especially in the area of low frequency oscillations.	1999 Budget: \$25,000
			Expense to Date: \$0
			Completion Date: Ongoing

Status/ Comments: A final draft of interim Document C-25 that addresses NPCC Conformance with NERC Planning Standards I.F has been forwarded to CP-7 and other task forces for comments.

The working group is also addressing the Y2K related issues to analyze probable contingencies.

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

Documents

87)B-12	Guidelines for On-Line Computer System Performance During Disturbances	Description: This document establishes guidelines for the performance of NPCC Area on-line computer systems during a power system disturbance.	Latest Version: November 1998 Frequency of Reviews: 3 Years Next Review Date: November 2001
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Status/ Comments: The document was approved at the November 1998 RCC meeting. Reference also item number 88.

88)C-17	Monitoring Procedures for Guidelines for On-Line Computer System Performance During Disturbances	Description: This document establishes monitoring and reporting procedures for the B-12 Guideline, and specifically details on-line computer response objectives.	Latest Version: September 1998 Frequency of Reviews: 3 Years Next Review Date: September 2001
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Status/ Comments: This Document was reviewed in conjunction with the update of Document B-12, Guidelines for On-Line Computer System Performance During Disturbances, by the TFEMT at its September 1998 meeting. Reference also item number 87.

Surveys/Reviews

89)	Review of the NERC Disturbance Analysis Working Group's report on "1996 System Disturbance."	Description: Review of on-line computer performance during system events or disturbances including all NERC regions.	Latest Review: February 1999 Frequency of Reviews: 1 Year Next Review Date: September 1999
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Status/ Comments: The Task force is currently awaiting the completion of the 1996 and 1997 NERC Disturbance Reports by the NERC/DAWG. These reports have not been distributed by NERC yet.

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

Surveys/Reviews

90)	Review of NPCC Area disturbances	Description: Review of on-line computer system performance during disturbances, as required by Document B-12.	Latest Review	February 1999
			Frequency of Reviews:	As Required

Status/ Comments: At its February 1999 meeting, the TFEMT discussed system disturbances that have been reported to NPCC. The Task Force reported that all computer systems worked well.

91)	Review On-Line Computer System Status Reports	Description: Review of member on-line computer system statuses and plans.	Latest Review:	February 1999
			Frequency of Reviews:	As Required

Status/ Comments: Member system status reports were reviewed at the February 4-5, 1999 Task Force meeting. Such reviews include highlights of each system 's Energy Management System status and planned system enhancements. A review of the actions currently underway within each Area towards year 2000 computer system transition preparations was also conducted. The Task Force monitors progress made by the individual Areas in year 2000 reviews and periodically provides the TFCO with status reports.

Working Groups/Ad Hoc Assignments

92) EMT-1	Energy Management Technology Workshop Working Group	Assignment: Annual workshop to address timely issues and update member system personnel associated with the provision of on-line computer systems for operation of the power system.	1999 Budget:	\$0
			Expense to Date:	\$0
			Last Workshop:	May 14-15, 1998
			Next Workshop:	See comments

Status/ Comments: On May 14-15, 1998 the Task Force conducted a workshop on "Reliability Tools in a Deregulated Electricity Market." The workshop was well attended (35 people). It was decided that no workshop would be scheduled for 1999. The topic for the next workshop will be discussed at the September 1999 TFEMT meeting.

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

94)	Correspondence with other regional and national groups associated with on-line computer systems	Assignment: Exchange of meeting minutes and other correspondence with representatives from other Regions. Also monitor IEEE and CIGRÉ efforts.	Latest Review: February 1998 Frequency of Reviews: As Required
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Status/ Comments: This is an ongoing effort to facilitate communications with other groups pursuing similar interests in order to enhance the knowledge of the Task Force on Energy Management Technology regarding current technologies. The majority of efforts in this area are currently being directed at participation in the NERC Data Exchange and Telecommunications Working Group efforts.

95)	Ad Hoc Working Group on Information Exchange	Assignment: Develop a document discussing communication channels, company contacts and coordination of outages.	Latest Review: February 1999 Frequency of Reviews: As Required Next Review Date: June 1999
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Status/ Comments: The Ad Hoc Working Group on Information Exchange is currently preparing a compendium of control facilities, communication channel descriptions, and company contacts that upon completion will be available through the NPCC BBS system. Progress of this Ad Hoc Working Group was reviewed at the February 4-5, 1999 TFEMT meeting.

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

108)	Y2K Ad Hoc Working Group	Assignments: Identify Y2K initiatives within NPCC to address threats to interconnected system security. Work closely with the NERC Y2K Coordination Task Force to ensure that all NPCC responsibilities and deliverables are met. Coordinate Y2K preparation and risk assessment efforts for NPCC and provide status reports to the NPCC TFEMT and other Task Forces indicating the preparation status and lessons learned.	1999 Budget: \$21,300 Expense to Date: \$2,100 Expected Completion: Year 2000
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Status/ Comments: This Ad Hoc Working Group, which was formed in June 1998, works closely with NERC. Monthly surveys are sent through the region. Monthly status reports are generated by the working group and the most recent will be reviewed at the March 3-4, 1999 TFCO meeting. Periodic updates on the status of the Working Group's efforts are provided directly to the RCC, and a presentation will be made at the March 2, 1999 RCC meeting.

Documents

109)	Task Force Scope	Description: This document outlines the Task Force on Energy Management Technology scope of activities.	Latest Review February 1996 Frequency of Reviews: 3 Years Next Review Date: June 1999
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Status/ Comments: The TFEMT initiated the review of its scope at the February 4-5, 1999 Task Force meeting .

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

MAAC - ECAR - NPCC (MEN)

PROGRAM ITEM NUMBER

Study Committees

96) MEN SC MEN Study Committee

Assignment: The MEN Study Committee directs the activities of the MEN Operating Studies and Future Systems Working Groups and reports to the Joint Interregional Review Committee (JIRC) on study activities and other interregional matters of interest.

Completion Date: Ongoing

Status/ Comments: The studies for MEN 1999 Summer Interregional Transmission System Reliability Assessment have been initiated. In addition, the MEN groups will perform a separate study of the proposed phase shifters in the Ontario-Michigan interface after the Summer Assessment is completed. In addition, a future study of 2003 summer conditions is under consideration. Also reference item 97.

Working Groups/Ad Hoc Assignments

97) OSWG MEN Operating Studies Working Group

Assignment: 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.

1999 Budget: \$8,000

Expense to Date: \$0

Completion Date: May 1999

Status/ Comments: Three VEM/MEM 1999 summer base cases have been assembled for use in the MEN 1999 Summer Interregional Transmission System Reliability Assessment. The working group, supplemented by additional key individuals, will assist the Study Committee in a separate study of the proposed phase shifters in the Ontario-Michigan interface after the Summer Assessment is completed. Also reference item 96.

98) FSWG MEN Future Systems Working Group

Assignment: The MEN Future Systems Working Group, under the direction of the MEN Study Committee, conducts appraisals of the MAAC-ECAR-NPCC (MEN) interregional system performance for projected future conditions.

Completion Date: As assigned

Status/ Comments: A Future Systems Working Group - most likely with VACAR (VEM) participation - will be staffed to perform the future study of 2003 summer conditions that is under consideration. Also reference item 96.

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

99) RAS	Reliability Assessment Subcommittee	Assignment:	Conduct an annual review of the overall reliability of the existing and planned generation and transmission systems of the ten Regional Reliability Councils for the ten year horizon. Conduct semiannual seasonal assessments of the overall reliability of the existing generation and transmission systems of the ten Regional Reliability Councils.	Completion Date:	May 1999
Status/ Comments:		Issues are being developed for the Reliability Assessment Subcommittee 's annual overview of North American reliability, Reliability Assessment 1999-2008. The 1998/99 Winter Assessment was released in December, and the 1999 Summer Assessment is in progress.			

100) PSS	Planning Standards Subcommittee	Assignment:	The PSS, as charged by the NERC Engineering Committee, assesses and evaluates the NERC Planning Standards	Completion Date:	Ongoing
Status/ Comments:		The PSS is currently reviewing the comments received to the NERC Planning Standards and is preparing the revised Standards for submittal to the NERC Due Process.			

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

101)	MMWG Multiregional Modeling Working Group	Assignment:	Develop a library of solved load flow models for use by the Regions and their member systems in planning and evaluating future systems and current operating conditions.	1999 Budget:	\$12,000
				Expense to Date:	\$381
				Completion Date:	Ongoing

Status/ Comments: The ten load flow models that constitute the 1998 series of NERC MMWG base cases were assembled during a meeting of the MMWG at AEP's offices near Columbus, Ohio on October 26-27, 1998. NPCC's input to the MMWG effort is provided by the SS-37 Working Group on Base Case Development. Also reference item 85.

The NERC MMWG is assembling three Y2K load flow models and associated dynamics data based on four December 31, 1998/January 1, 1999 snapshots of actual operating conditions. The cases will be made available to the Regions for Y2K simulations. Also reference items 82 and 105.

102)	LFWG Load Forecasting Working Group	Assignment:	Annually develops sensitivity bandwidths about the US and Canadian forecast aggregations of peak demand and annual net energy for load.	Completion Date:	July 1999
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Status/ Comments: The LFWG meet on February 4-5, 1999 to initiate efforts in developing the 1999 report, "Peak Demand and Energy Projection Bandwidths: 1999-2008 Projections." A draft for approval will be considered by the NERC Engineering Committee in July 1999.

103)	Generating Availability Working Group	Assignment:	The Working Group provides guidance on industry issues related to generating availability and the collection of electric utility generator unit performance data for NERC's Generating Availability Data System (GADS)	Completion Date:	Ongoing
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Status/ Comments:

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

106) ATC Implementation Working Group

Assignment: 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. **Completion Date:** Ongoing

Status/ Comments: The Working Group has completed its review of the Regional ATC methodologies. It will be issuing its report to the NERC Engineering Committee at the March 1999 meeting. It has completed and posted for comment its discussion paper on TRM/CBM. This paper was presented to the TFCP at their February 3, 1999 meeting for review and comment.

110) CRWG Compliance Review Working Group

Assignments: Develop NERC compliance procedures for those Planning Standards/Measurements that are in the NERC Pilot Compliance Program. Review/develop Compliance Reports for the NERC Pilot Program as required. Apply Sanctions Matrix, for the pilot program, to those Planning Standards/Measurements that NERC has compliance monitoring and assessment responsibility. **Completion Date:** On Going

Status/ Comments: The CRWG held a meeting on February 9, 1999. Among the topics discussed were: Regional updates on plans to meet the requirements of the NERC Pilot Compliance Program; contents of Regional Compliance Reports; review of measurements for Phase II of the Pilot Program; finalization of CRWG enforcement matrix; need for the creation of NERC databases for the Planning Standards/Measurements and development of Procedures for those Standards/Measurements that NERC has compliance monitoring responsibility. The next meeting is scheduled for March 26, 1999.

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

111) CS	Compliance Subcommittee	Assignments: Develop templates for measurements contained in NERC Operating Policies; Monitor compliance to those operating measurements in the 1999 NERC Compliance Pilot Program and prepare necessary documentation of Regional compliance/non-compliance as required.	Completion Date:	On Going
	Status/ Comments:	The CS has developed draft templates for all NERC Operating Policies. These templates define the measurements which need to be monitored for compliance in the NERC pilot program. At their meeting scheduled for March 8-9, 1999 the subcommittee will present and discuss general comments to each of the Operating Policy templates which have been developed. Various subcommittee members have been assigned a policy and are currently reviewing the various templates for that policy and will present their review at this meeting.		

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

BUDGET SUMMARY

ITEM NUMBER	PROJECT DESCRIPTION	1999 BUDGET	1999 EXPENSE
30	CO-1 Control Performance Working Group	\$16,250	\$650
31	CO-2 Dispatcher Training Working Group	\$24,150	\$1,850
32	CO-7 Operational Review Working Group	\$40,000	\$1,950
33	CO-8 System Operating Managers Working Group	\$25,000	\$650
35	LECWG Lake Erie Circulation Working Group	\$0	\$3,250
36	ATC NPCC Ad Hoc WG on ATC	\$0	\$300
52	CP-5 Interconnection Assistance Benefits Working Group	\$50,000	\$5,200
53	CP-7 NERC Planning Standards Review Working Group	\$35,000	\$20,650
55	LCFWG Load, Capacity & Fuels Working Group	\$5,000	\$0
56	JGWG Joint Glossary Working Group	\$5,000	\$0
85	SS-37 Base Case Development	\$15,000	\$0
86	SS-38 Reliability Review of I	\$25,000	\$0
97	MEN MAAC-ECAR-NPCC Working Groups	\$8,000	\$0
101	MMWG Multiregional Modeling Working Group	\$12,000	\$381
105	SDDWG Dynamic Database Working Group	\$15,000	\$0
108	Y2K Year 2000 Coordination Working Group	\$21,300	\$2,100
	NERCWG NERC Subcommittees, Working Groups and Task Forces	\$40,000	\$13,495
	NERC-ISN Interregional Security Network (ISN)	\$50,000	\$8,099
	Staff	<u>\$15,000</u>	<u>\$0</u>
Totals:		\$401,700*	\$58,575

* At its November 5, 1998 meeting, the Reliability Coordinating Committee approved a recommendation that NPCC's 1999 Budget include \$300,000 in Account #800 "Project Expense" to cover the projects noted above.

Northeast Power Coordinating Council
Reliability Assessment Program

Appendix B
Recommendation Tracking Database
Summary

February 1999

**NPCC Reliability Assessment Program
Recommendation Tracking Database - Summary
Status Report**

<u>ID #</u>	<u>Recommendation Summary</u>	<u>STATUS</u>	<u>Lead Group</u>	<u>Next Tracking</u>
DOE-96-05	Define and enforce reliability standards to ensure that a continuous supply/demand balance is maintained and that transmission systems are operated within security limits.	NPCC will continue to monitor compliance to its Reliability Criteria through its Reliability Assessment Program. The updated NRAP Status report will be presented at the March 2, 1999 RCC meeting.	RCC	1999/03/02
NERC-95-01	ATC determination, IDC and TIS.	NPCC Guideline for ATC Determination and Posting was reviewed by the NERC ATC Working Group in October, 1998. A report assessing this guideline is being developed and will be finalized and submitted, along with all other regional assessments, to the NERC EC at their March, 1999 meeting. With the implementation of Phase II of OASIS, the NPCC guideline for ATC determination and posting will be incorporated into individual control area ATC processes. Implementation of IDC is expected in June, 1999. Implementation of TIS/ETAG (electronic tagging) is scheduled for May, 1999.	RCC	1999/06/29
NERC-95-02	Implement line loading relief procedure and Implement ISN primary node.	The LEER was signed by all parties as of December 22, 1998, and will be filed with the FERC by March 1, 1999. See NPCC-98-05 for ICCP/ISN implementation.	RCC	1999/03/02
NERC-96-04	Perform a complete review and evaluation of its management structure, administration processes, capabilities, membership and committee structure in light of the emerging competitive and disaggregated industry structure.	A Membership Agreement incorporating revisions to NPCC's membership, governance and funding was approved by the NPCC Full Members at the November 5, 1998 Annual Meeting.	Exec. Comm.	Complete
NERC-96-07	Form a group to define enforcement measures in lieu of mandatory compliance and review the Regional Reliability Councils ability to impose sanctions for noncompliance.	The NPCC will utilize the Compliance Monitoring and Assessment Subcommittee (CMAS) for the management of the 1999 Pilot Compliance Program. Among its responsibilities will be to develop the NPCC Enforcement Process. CMAS will be presenting to the RCC at its March 2, 1999 meeting, for approval in concept, the NPCC Reliability Compliance Program which includes a recommendation for an enforcement process and the establishment of the appropriate entities to accomplish this goal.	RCC	1999/03/02

**NPCC Reliability Assessment Program
Recommendation Tracking Database - Summary
Status Report**

<u>ID #</u>	<u>Recommendation Summary</u>	<u>STATUS</u>	<u>Lead Group</u>	<u>Next Tracking</u>
NERC-97-01	Review of NERC Planning Standards and revised Operating Policies to assess and evaluate them against the existing NPCC Reliability Assessment Program.	NPCC has formed the Compliance Monitoring and Assessments Subcommittee (CMAS). The scope of work for this group will be presented to the RCC for approval at their March 2, 1999 meeting. CMAS will be responsible for the management of the 1999 NPCC Compliance Pilot Program which includes the requirements of the NERC Pilot Compliance Program. CMAS has taken on several of the CP-7 Working Group's responsibilities.	TFCP	1999/06/29
NPCC-97-15	Review and testing of restoration plans and procedures needs to be strengthened.	Strengthening of the review and testing of restoration plans and procedures is being addressed by the Joint Task Force Working Group on Testing Requirements for System Restoration Facilities. A draft report and testing procedure was presented to the TFCO at its meeting of January 12 and 13, 1999; following suggested comments, the report will be returned to the TFCO for approval at its meeting of March 3 and 4, 1999.	TFCO	1999/03/04
NPCC-97-16	Address challenges presented by year 2000 computer problems and how they relate to system security.	An Ad Hoc working group, reporting to the TFEMT is now handling most the Y2K issues. At the joint TFEMT-TFCO meeting on September 24, an additional working group has been charged by TFCO to develop contingency plans for NPCC. The latter completed its task. The Y2K Working Group works closely with NERC. Monthly surveys are sent through the region. Monthly status reports are generated by the working group and the most recent will be reviewed at the March 3-4, 1999 TFCO meeting.	TFEMT	1999/06/10
NPCC-98-02	Clarify the legal implications and understanding of the Code of Conduct in the discussion of potentially commercial issues at various NPCC meetings.	Draft "Guidelines for Communicating Market Information at NPCC Task Force Meetings" was reviewed by the RCC at its meeting of June 26, 1998. Standards of Conduct Guidelines will be on the agenda for the May 12, 1999 Task Force on Coordination of Planning meeting, and the TFSP will make recommendations prior to the June 29, 1999 RCC meeting.	RCC	1999/06/29

**NPCC Reliability Assessment Program
Recommendation Tracking Database - Summary
Status Report**

<u>ID #</u>	<u>Recommendation Summary</u>	<u>STATUS</u>	<u>Lead Group</u>	<u>Next Tracking</u>
NPCC-98-05	TFEMT will investigate NPCC ICCP/ISN implementation feasibility for the summer of 1999.	Hydro Quebec has completed the implementation of ISN. New York Power Pool has been testing with PJM since January 1999 (testing should be completed by March). Testing with Ontario Hydro will also be completed by March, and testing with New England by April 1999. The Maritime Area is communicating through ISO-NE.	TFEMT	1999/06/10
NPCC-98-08	Streamline disturbance reporting procedures under future similar circumstances to the January 1998 Ice Storms.	NPCC Document B-13, Guide for Reporting System Disturbances, is now being reviewed to address the reporting of repetitive events stemming from a common cause, as was frequently experienced during the ice storm of 1998. It will also be reviewed to ensure consistency with newly released NERC Operating Policy 5.F and reissued as an interim draft document at the May 4 and 5, 1999, meeting of the TFCO.	TFCO	1999/05/05
NPCC-98-10	NPCC Operations Managers Working Group (CO-8), will review the restoration of islands based on the lessons learned from the January 1998 Ice Storms.	The NPCC Operations Managers Working Group (CO-8) will report on its review of restoration of islands at the TFCO meeting of March 3 and 4, 1999.	TFCO	1999/03/04

GOALS AND RESPONSIBILITIES

The Northeast Power Coordinating Council (NPCC) Membership Agreement, as amended to November 5, 1998, specifies:

"The purpose of the Council is to promote the reliable and efficient operation of the interconnected bulk power systems in Northeastern North America through the establishment of criteria, coordination of system planning, design and operations, and assessment of compliance with such criteria."

Consistent with the purpose, NPCC has established a Reliability Assessment Program. This program will bring together work done by the Council, its member systems and Areas (pools) relevant to the assessment of bulk power system reliability. Reviews and studies completed by member systems and Areas (pools) will not be duplicated by the Council, but will be referenced in appropriate NPCC reports.

The overall program includes two categories of assessment:

1. Standing Assessments
2. Ad Hoc Assessments

Standing Assessment

The Reliability Coordinating Committee has the responsibility for assessing the reliability of the present and proposed bulk power systems of the NPCC members. To this end, the Reliability Coordinating Committee has assigned duties on an ongoing basis to NPCC Staff and to the Task Forces as generally covered by their respective scopes and specifically assigned in the attached program. Included in the assignment are: system studies applicable to intra-regional reviews; the formation and review of NPCC criteria, procedures, guides, diagrams, glossaries; and coordination of generation and transmission plans among the various investigations. In addition, all NPCC documents will be regularly reviewed, and updated where required. Finally, compliance with the criteria and guides by NPCC members will be assessed on a regular basis.

Ad Hoc Assessments

Flexibility to deal with non-routine issues will be retained. To this end, the Reliability Coordinating Committee will make assignments on an ad hoc basis to Staff, Task Forces or ad hoc committees as appropriate. These assignments might include, for example, assessments of major system disturbances, whether they occur within the NPCC region or elsewhere. NPCC's participation in similar activities by NERC or governmental agencies would also be considered part of the Program.

General

The Reliability Coordinating Committee is responsible for assignment, final review and approval of all reports. Final approval of criteria documents, following approval by the Reliability Coordinating Committee, rests with the NPCC member systems.

The various Task Forces, Staff and ad hoc committees, acting individually or in concert, will be responsible for the conduct of both the standing assessment and the ad hoc assessments.

The NPCC Staff will be responsible for the overall coordination of the Program.

Since the Program is by nature ongoing and dynamic, it will be modified by the Reliability Coordinating Committee when deemed necessary.