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Northeast Power Coordinating Council
Reliability Assessment Program

STATUS REPORT

November 1998

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. John E. Deegan
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

1) **A-3** *Emergency Operating Criteria*

At the November 5, 1998 meeting, the RCC will consider the revised *Emergency Operating Criteria* (Document A-3).

2) **A-6** *Operating Reserve Criteria*

The *Operating Reserve Criteria* (Document A-6) was approved by the NPCC Full Members in September 1998.

5) **B-9** *Guide for Rating Generating Capability*

At the November 5, 1998 meeting, the RCC will consider the revised *Guide for Rating Generating Capability* (Document B-9).

Task Force on Coordination of Planning

56) **A-7** *NPCC Glossary of Terms (Document A-7)*

The *NPCC Glossary of Terms* (Document A-7) was approved by the NPCC Full Members in September 1998.

Task Force on System Protection

57) **A-4** *Maintenance Criteria for Bulk Power System Protection*

The *Maintenance Criteria for Bulk Power System Protection* (Document A-4) was approved by the NPCC Full Members in September 1998.

58) **A-5** *Bulk Power System Protection Criteria*

The *Bulk Power System Protection Criteria* (Document A-5) was approved by the NPCC Full Members in September 1998.

Task Force on Energy Management Technology

72) **B-12** *Guidelines for On-Line Computer System Performance During Disturbances*

At the November 5, 1998 meeting, the RCC will consider the revised *Guidelines for On-Line Computer System Performance During Disturbances* (Document B-12).

HIGHLIGHTS - continued

NPCC Open Review Process

As of **October 29, 1998** a total of 18 drafts of NPCC Documents are posted under Open Review on the NPCC WWW BBS. The distributed and status of the documents are:

Membership Agreement: Closed, to be presented at the RCC November meeting.

Criteria: Open for comments: None
 Closed - to be presented at the RCC November meeting: One (A-3)
 Closed - to be removed from list after November RCC meeting: Four (A-4, A-5, A-6 and A7)

Guidelines: Open for comments: Three (B-1, B-2 and B-11)
 Closed - to be presented at the RCC November meeting: Two (B-9 and B-12)
 Withdrawn - to be re-posted (awaiting approval of Documents A-3): One (B-7)

Procedures: Open for comments: Three (C-3, C-8 and C-26)
 Closed - awaiting approval of other documents: Three (C-5, C-19 and C-20)

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: October, 1997
			Frequency of Reviews: 3 Years
			Next Review Date: November, 1998

Status/ Comments: The current draft of NPCC Document A - 3, Emergency Operation Criteria, has completed its review as directed by the NPCC Open Process and will be submitted to the Reliability Coordinating Committee for approval at its meeting of November 5, 1998. Also reference items 10, 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: January, 1999

Status/ Comments: The current draft of NPCC Document B - 2, Control Performance Guide During Normal Conditions, is posted for its review as directed by the NPCC Open Process. The comments received through the Open Process will be submitted to the Task Force on Coordination of Operation for consideration at its meeting of January 12 and 13, 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: December 13, 1994
			Frequency of Reviews: 3 Years
			Next Review Date: November, 1998

Status/ Comments: The current draft of NPCC Document B - 9, Guide for Rating Generating Capability, has completed its review as directed by the NPCC Open Process and will be submitted to the Reliability Coordinating Committee for approval 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: January, 1999

Status/ Comments: NPCC Document B-13, Guidel 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.

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: January, 1999

Status/ Comments: The current draft of NPCC Document C - 3, Procedures for Communications During Emergencies, is posted for its review as directed by the NPCC Open Process. The comments received through the Open Process will be submitted to the Task Force on Coordination of Operation for consideration at its meeting of January 12 and 13, 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: November 12, 1997
Frequency of Reviews: 3 Years
Next Review Date: November, 2000

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: January, 1999

Status/ Comments: To ensure consistency between the monitoring document C - 5 and its parent document A - 3, further action on this document has been deferred until the ongoing review of Document A - 3 has been concluded. Document A - 3 will be submitted to the Reliability Coordinating Committee for approval at its meeting of November 5, 1998. 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: January, 1999

Status/ Comments: The current draft of NPCC Document C - 8, Monitoring Procedures for Control Performance Guide During Normal Conditions, is posted for its review as directed by the NPCC Open Process. The comments received through the Open Process will be submitted to the Task Force on Coordination of Operation for consideration at its meeting of January 12 and 13, 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

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

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

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: January, 1999
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Status/ Comments: The current draft of NPCC Document C - 19, Procedures During Shortages of Operating Reserve, is posted for its review as directed by the NPCC Open Process. The comments received through the Open Process will be submitted to the Task Force on Coordination of Operation for consideration at its meeting of January 12 and 13, 1999. Also reference item 2.

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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: January, 1999
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Status/ Comments: The current draft of NPCC Document C - 20, Procedures During Abnormal Operating Conditions, is posted for its review as directed by the NPCC Open Process. The comments received through the Open Process will be submitted to the Task Force on Coordination of Operation for consideration at its meeting of January 12 and 13, 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
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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
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Status/ Comments:

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Surveys/Reviews

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|-----|--|--|---|
| 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: July 18, 1995
Frequency of Reviews: 3 Years
Next Review Date: November 3 and 4, 1998 |
| | Status/ Comments: The 1998 survey has been concluded and will be 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: July 18, 1995
Frequency of Reviews: 3 years
Next Review Date: November 3 and 4, 1998 |
| | Status/ Comments: The 1998 survey has been concluded and will be 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: September, 1998
Frequency of Reviews: See Status / Comments
Next Review Date: November, 1998 |
| | Status/ Comments: The NPCC Areas has 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 TFCO will discuss compliance diffulcities with the CPS - 2 Standard. | | |

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Surveys/Reviews

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|-----|---|---------------------|--|------------------------------|----------------|
| 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: The annual report of conformance by the Areas for the calendar year 1997 was submitted to the RCC at its June 26, 1998, meeting by the Task Force on Coordination of Operation. Also reference items 2 and 13. | | | | |
| 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: | February, 1999 |
| | Status/ Comments: The annual review of the transmission facilities list was reviewed and approved by the Task Force on Coordination of Operation at its meeting of February 3 and 4, 1998. Also reference item 16. | | | | |

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Surveys/Reviews

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: December, 1998

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 is to be released in December of 1998. Reference also items 10 and 23.

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.	1998 Budget: \$16,250
			Expense to Date: \$9,600

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.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

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.	1998 Budget:	\$21,250
				Expense to Date:	\$8,125

Status/ Comments: The Task Force on Coordination of Operation has 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, will be submitted for approval to the Reliability Coordinating Committee at its meeting of November 5, 1998.

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.	1998 Budget:	\$25,000
				Expense to Date:	\$2,850

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.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

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.	1998 Budget:	\$20,000
				Expense to Date:	\$5,575

Status/ Comments: The Task Force on Coordination of Operation has 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, will be submitted for approval to the Reliability Coordinating Committee at its meeting of November 5, 1998.

The System Operations Managers Working Group (CO-8) has reviewed the restoration of islands following the ice storm of 1998 and will report its conclusions to the Task Forces on Coordination of Operation at its meeting of November 3 and 4, 1998.

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.	1998 Budget:	\$6,000
				Expense to Date:	\$0.00

Status/ Comments: 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.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

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	1998 Budget:	\$15,000
				Expense to Date:	\$3,875
		Status/ Comments:	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.		
107)	Joint Working Group on the Identification of Critical Facilities for Restoration		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.	1998 Budget:	\$28, 400.00
				Expense to Date:	\$5,400
				Completion Date:	January 12 and 13, 1998
		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 and, together with its final report, will be submitted to the Task Force on Coordination of Operation at its meeting of January 12 and 13, 1998.		

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: December 1998

Status/ Comments: The Task Force on Coordination of Planning is reviewing this document and is considering incorporating the enhanced NPCC Reliability Assessment Program (ENRAP) description and the NPCC Open Process description. This will be decided upon when the ENRAP is finalized. Further discussion will take place at the December 2-3, 1998 TFCP meeting.

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 delayed the process for reviewing this document until the first quarter of 1999 or until a final format for future NPCC documentation is agreed upon.

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: February 1999

Status/ Comments: TFCP discussed at its last meeting the need to review and possible revise this Guideline in light of the activities occurring related to the NERC and NPCC Compliance Programs. This will be discussed further at the December 2-3, 1998 TFCP meeting.

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: February 1999

Status/ Comments:

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: February 2000

Status/ Comments:

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: February 1999

Status/ Comments:

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

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: December 1998

Status/ Comments:

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Surveys/Reviews

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: December 1998

Status/ Comments: The Maritimes presented a status report at the September TFCP meeting. Final report to be issued shortly.

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

Status/ Comments: The Task Force on Coordination of Planning approved the 1997 New York Area Interim Transmission Review at the February 18, 1998 TFCP meeting.

48)	NPCC Area Transmission Review	Description: Review of the New England Area future transmission plans (5-7 years out)	Latest Version: June 1997
			Frequency of Reviews: 1 Year
			Next Review Date: December 1998

Status/ Comments:

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: November 1997
			Frequency of Reviews: 1 Year
			Next Review Date: December 1998

Status/ Comments:

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	Assignment	Review the overall reliability benefits of the interconnections, for each Area, within the NPCC Region	1998 Budget:	\$8,000
				Expense to Date:	\$33,047
				Completion Date:	December 1998

Status/ Comments: The data collection for the MARS database is complete. The working group will discuss the results of the studies along with a draft report at the October 29, 1998 meeting. A final report is expected to be complete by December 1998.

53)CP-7	Working Group on the Review of NERC Planning Standards	Assignment	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.	1998 Budget:	\$25,000
				Expense to Date:	\$53,100
				Completion Date:	June 1999

Status/ Comments: The Working group is finalizing the 1999 NPCC Pilot Reliability Compliance Program requirements and reviewing the interim NPCC documents which are to be used in the Program . NPCC Reliability Compliance Workshop announcement was distributed on October 27, 1998. Preparation of NPCC Compliance Templates has begun. These templates will be used during the program.

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

54)EMWG Environmental Matters Working Group

Assignment 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.

1998 Budget: \$2,000
Expense to Date: \$0
Completion Date: Ongoing

Status/ Comments:

55)LCFWG Load, Capacity & Fuels Working Group

Assignment 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.

1998 Budget: \$12,000
Expense to Date: \$0
Completion Date: 1) EIA data: March '99
 NERC data: April '99
 2) NPCC Report: June '99

Status/ Comments: The NERC/EIA-411 1999 data collection effort was initiated with a joint EIA and NERC Data Coordination Working Group meeting in Princeton, NJ on September 10-11, 1998. It was agreed that data used by EIA will be submitted by March 15, 1999 (two weeks earlier than in previous years). On the other hand, NERC RAS has deleted a requirement for fuel data supplied in previous years.

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

56)JGWG	Joint Glossary Working Group	Assignment	To maintain the NPCC Glossary of Terms (Document A-7) and to expand the Glossary to include new terms as necessary.	1998 Budget:	\$8,000
				Expense to Date:	\$0
				Next Review Date:	June 1999

Status/ Comments: After approval at the June 1998 Reliability Coordinating Committee (RCC) meeting the NPCC Glossary of Terms (Document A-7) was distributed to NPCC Member Representatives and final approval was obtained in September 1998.

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Documents

57)A-4	Maintenance Criteria for Bulk Power System Protection	Description: 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: After approval at the June 1998 Reliability Coordinating Committee (RCC) meeting the Document was distributed to NPCC Member Representatives and final approval was obtained in September 1998. 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: After approval at the June 1998 Reliability Coordinating Committee (RCC) meeting the Document was distributed to NPCC Member Representatives and final approval was obtained in September 1998. 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: February 1999

Status/ Comments: The TFSP initiated is review of the Document at its July 21-22, 1998 meeting, provided comments by e-mail and agreed on final revisions during the September 22-24, 1998 meeting. The document was posted for Open Review on October 16, 1998

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: January 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. Also reference Item 61 below.

61)B-7	Application of Underfrequency Protection New Title: Automatic Underfrequency Load Shedding Program Relaying Guideline	Description: Guidelines for underfrequency limits for load shedding, selection and setting of underfrequency devices, and underfrequency operation of power generation equipment are established.	Latest Version: May 23, 1984 Frequency of Reviews: 5 Years Next Review Date: January 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 entitled Automatic Underfrequency Load Shedding Program Relaying Guideline (Document B-7). In order to incorporate a clarification recommended by the TFSS, the Document was re-submitted to the "NPCC Open Process Review" and to the TFCO, TFCP and TFSS for concurrent review. Based on discussions with the TFCO at the May 20-21, 1998 TFCO meeting, the Document was withdrawn from the concurrent review process until the TFCO has made related revisions to the Emergency Operation Criteria (Document A-3). Also reference items 1 and 60.

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Documents

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:	February 1999
		Status/ Comments:	The TFSP initiated is review of the Document at its July 21-22, 1998 meeting, provided comments by e-mail and agreed on final revisions during the September 22-24, 1998 meeting. The document was posted for Open Review on October 16, 1998.		
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 conformance with the principles of the Protection Criteria.	Latest Version:	September 25, 1996
				Frequency of Reviews:	3 Years
				Next Review Date:	September 1999
		Status/ Comments:			
64)	Task Force Scope	Description:	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:			

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Surveys/Reviews

65)	Minimum Maintenance Conformance Survey	Description: Report on member system conformance 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 report on the annual survey for conformance with the Maintenance Criteria for Bulk Power System Protection (Document A-4) for the period ending December 31, 1997 was accepted by the RCC at the June 26, 1998 meeting. A copy of the report is in the TFSP folder on the WWW NPCC Bulletin Board System (NBBS).

66)	Survey of Conformance to the NPCC Underfrequency Load Shedding Program	Description: Report on Area conformance 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 conformance with sections 4.6 and 4.9 of the "Emergency Operation Criteria" (Document A-3) for the period ending December 31, 1997 was accepted by the RCC at the June 26, 1998 meeting. A copy of the report is in the TFSP folder on the WWW NPCC Bulletin Board System (NBBS).

67)	Special Protection System List	Description: A listing of 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 updated 1998 NPCC Special Protection System List was approved at the April 21-22, 1998 TFSP meeting. The list was distributed for information to the RCC and other interested parties in May 1998. At the same time, the report was placed in the TFSP folder on the WWW NBBS.

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Surveys/Reviews

- | | | | | | |
|-----|---|--------------------------|---|------------------------------|-------------|
| 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 conformance 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. Specifically, at its September 22-24, 1998 meeting, the Task Force reviewed modifications to New England Power Co. Millbury #2 115 kV Switching Station. | | |
| | | | | | |
| 69) | Review protection systems 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. Also reference items 57 and 58. | | |

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

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: Ongoing Frequency of Reviews: 3 years Next Review Date: January 1999
	Status/ Comments:	The data collection effort previously performed by TFSP Working Group SP-5 will be continued yearly on a voluntary basis. At its September 22-24, 1998 meeting the TFSP reviewed preliminary results of a survey to determine the number of electromechanical, solid state and self-checking microprocessor based protection groups applied on the bulk power system within NPCC. Additional data will be collected and the topic will be discussed again at the January 1999 TFSP meeting. 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 proposed 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

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

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 1995
			Frequency of Reviews: 3 years
			Expected Completion: December 1998

Status/ Comments: The TFSS approved revisions to the document at the September 23-24, 1998 meeting. The document has been posted for Open Process Review.

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: February 1999

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. Final approval is expected by the end of 1998.

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

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 1998
			Frequency of Reviews: 1 Year
			Next Review Date: November 1998

Status/ Comments:

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: June 1997
			Frequency of Reviews: 1 Year
			Next Review Date: November 1998

Status/ Comments: New England's comprehensive review is under way.

78)	NPCC Area Transmission Review	Description: Review of Ontario Area future transmission plans (5-7 years out)	Latest Version: November 1997
			Frequency of Reviews: 1 Year
			Completion Date: November 1998

Status/ Comments: Ontario Hydro's interim review is under way.

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 |
| | 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 |
| | 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. | Latest Version: | December 1997 |
| | | | Note: The present assessment is being conducted by the SS-37 Working Group. | Frequency of Reviews: | 1 Year |
| | | | | Completion Date: | November 1998 |
| | Status/ Comments: For a current status, please see SS-37 Working Group, Item Number 85. | | | | |

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: December 1998
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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. A survey is expected to be completed by December 1998.

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.	1998 Budget: \$15,000 Expense to Date: \$5,058 Completion Date: Ongoing
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Status/ Comments: Dynamic data for two models years (1999 Summer and 2002 Winter) were submitted to the NERC SDDWG in March 1998. Eight load flow models have been assembled as part of the 1998 Base Case Development effort and tuning is in progress. These cases form the basis for the ten models that have been submitted to the NERC MMWG. Reference items 82, 101 and 105.

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.	1998 Budget: \$25,000 Expense to Date: \$18,585 Completion Date: December 1998
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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. Final approval is expected by the end of 1998.

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: August 1996
			Frequency of Reviews: 3 Years
			Next Review Date: November 1998

Status/ Comments: The RCC charged the Security Process Working Group with ensuring that the NPCC Criteria, Guides and Procedures continue to be applicable and current in both the competitive marketplace and the mandatory environment. The Security Process Working Group has completed its review of NPCC Document B-12, Guidelines for On-Line Computer System Performance During Disturbances, from the above perspectives. A revised draft has been posted on the NPCC Web Site for open review. The draft document was reviewed and updated at the June 18-19, 1998 TFEMT meeting. The document will be submitted to the RCC for approval at the November 1998 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: July 1996
			Frequency of Reviews: 3 Years
			Next Review Date: February 1999

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 June 18-19, 1998 meeting. Further review is in progress. 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: September 1996
			Frequency of Reviews: 1 Year
			Next Review Date: February 1999

Status/ Comments: The Task force is currently awaiting the completion of the 1996 and 1997 NERC Disturbance Reports by the NERC/DAWG.

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 1998
			Frequency of Reviews:	As Required

Status/ Comments: The Task Force on Energy Management Technology reviewed the events of the December 4 and 7, 1997 Hydro Quebec disturbances that caused initiation of the Churchill Falls Type 1 SPS and the events of the January 1998 Ice Storm from an EMS and computer systems performance viewpoint at its February 1998 meeting. 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:	September 1998
			Frequency of Reviews:	As Required

Status/ Comments: Member system status reports will be reviewed at the February 3-4, 1999 Task Force meeting. This review will 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 will also be conducted. The Task Force monitors progress made by the individual Areas in year 2000 reviews and periodically provides the TFCO with status reports.

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

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.

1998 Budget: \$5,000
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.

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

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: September 1998
Frequency of Reviews: As Required
Next Review Date: February 1999

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 September 23-24, 1998 TFEMT meeting.

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

108)	Y2K Ad Hoc Working Group	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.	Expense to Date:	\$1,400
			Expected Completion	Year 2000

Status/ Comments: This Ad Hoc Working Group was formed in June 1998. It has been fulfilling these vital roles since its inception.

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 MEN 1998/99 Winter Interregional Transmission System Reliability Assessment is nearing completion. A final draft will be presented to the Joint Interregional Review Committee (JIRC) on November 10, 1998. An appraisal of the dynamic performance of the interconnected systems within the MAAC, ECAR and NPCC regions during 1998 Summer peak load conditions has also been completed and will be presented to the JIRCs at the same time. 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.	1998 Budget: \$10,000	Expense to Date: \$5,607	Completion Date: May 1999
	Status/ Comments: The MEN OSWG performed the studies on which MEN 1998/99 Winter Interregional Transmission System Reliability Assessment was based. The Assessment Report will be submitted through the MEN Study Committee to the Joint Interregional Review Committee for approval at the November 10, 1998 JIRC meeting. Work on the VEM/MEM 1999 summer base case has been initiated. It is expected that the studies leading to the MEN 1999 Summer Assessment will be completed in May 1999. 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 preliminary scope for a possible future MEN study was discussed at the October 7, 1998 meeting of the MEN Study Committee.	

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:	November 1998
Status/ Comments:		The Reliability Assessment Subcommittee's annual overview of North American reliability, Reliability Assessment 1998-2007 was approved by the NERC Board of Trustees subsequent to its September, 1998, meeting, and is now being published. The report is available on the NERC Home Page. The 1998/99 Winter Assessment is in draft form and will be released in November.			

100)PSS	Planning Standards Subcommittee	Assignment:	The PSS, as charged by the NERC Engineering Committee, assesses and evaluates the NERC Planning Standards	Completion Date:	on going
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.			

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.	1998 Budget:	\$12,000
				Expense to Date:	\$995
				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.			

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

- 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
- Status/ Comments:** The LFWG will meet 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
- Status/ Comments:**
- 104) DOE/EIA Data Coordination Working Group
- Assignment:** Serve as the electric utility industry's coordinator with the Department of Energy (DOE) and the Energy Information Administration (EIA) in negotiating the requirements for data submission to the DOE and EIA.
- Completion Date:** April 1999
- Status/ Comments:** The NERC/EIA-411 1999 data collection effort was initiated with a joint EIA and NERC Data Coordination Working Group meeting in Princeton, NJ on September 10-11, 1998. It was agreed that data used by EIA will be submitted by March 15, 1999 (two weeks earlier than in previous years). On the other hand, NERC RAS has deleted a requirement for fuel consumption data supplied in previous years.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

105)	SDDWG System Dynamics Database Working Group	Assignment: Develop a library of dynamic simulation models for use by the Regions and their member systems in planning and evaluating future systems and current operating conditions.	1998 Budget: \$15,000 Expense to Date: \$6,188 Completion Date: Ongoing
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Status/ Comments: Ontario Hydro, acting as a contractor for the SDDWG, is assembling dynamic data for 1999 Summer and 2002 Winter peak conditions. The NPCC SS-37 working group on Base Case Development provided the NPCC data to the SDDWG in March 1998. The two dynamic models will be released by NERC in the fall of 1998. Also reference item 85.

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
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Status/ Comments: The Working Group has begun the review of Regional ATC Methodologies and Practices. SPP was reviewed in September, NPCC, MAAC and MAIN were reviewed in October. Reports on their evaluation are being drafted. All regions are to be reviewed by the end of the year with a final report being submitted to the NERC EC in March, 1999. The Working Group is also developing a TRM/CBM white paper and will be presenting a revised ATC Indices methodology report, which calls for the implementation of a pilot program to calculate a set of defined ATC viability indices, to the EC in November, 1998.

NPCC RELIABILITY ASSESSMENT PROGRAM

STATUS REPORT

BUDGET SUMMARY

ITEM NUMBER	PROJECT DESCRIPTION		1998 BUDGET	1998 EXPENSE
30	CO-1	Control Performance	\$16,250	\$9,600.00
31	CO-2	Dispatcher Training	\$21,250	\$8,125.00
32	CO-7	Operation Review Teams	\$25,000	\$2,850.00
33	CO-8	System Operations Managers Working Group	\$20,000	\$5,575.00
34	SPWG	Security Process Working Group	\$25,000	\$1,850.00
35	LECWG	Lake Erie Circulation Working Group	\$6,000	\$0
36	ATC	NPCC Ad Hoc Working Group on ATC	\$15,000	\$3,875.00
52	CP-5	Working Group on the Review of Interconnection Assistance Benefits	\$8,000	\$33,047.33
53	CP-7	Working Group on the Review of NERC Planning Standards	\$25,000	\$53,100.00
54	EMWG	Environmental Matters Working Group	\$2,000	\$0
55	LCFWG	Load, Capacity & Fuels Working Group	\$12,000	\$0
56	JGWG	Joint Glossary Working Group	\$8,000	\$0
85	SS-37	Base Case Development	\$15,000	\$5,057.79
86	SS-38	Inter-Area Dynamic Analysis	\$25,000	\$18,585.27
92	EMT-1	Energy Management Technology Workshop Working Group	\$5,000	\$0
97	MEN	MAAC-ECAR-NPCC Activities - OSWG	\$10,000	\$5,607.43
101	MMWG	NERC Multiregional Modeling Working Group	\$12,000	\$994.94
105	SDDWG	Dynamic Database Working Group	\$15,000	\$6,187.50
107	CFRWG	Jt. W. G. on the Identification of Critical Facilities	\$28,400	\$5,400.00
	OPWG	Ad Hoc Operations Planning Working Group	\$0	\$950.00
	NERC	NERC Subcommittees, Working Groups and Task Forces	\$40,000	\$15,500.00
	NERC	Interregional Security Network (ISN)	\$50,000	\$24,072.56
	STAFF		\$15,000	\$0
		Y2K Working Group	\$0	1,400.00
TOTAL			\$398,900*	\$201,777.82

* The Account #800 "Project Expense" budget was adjusted to \$220,000 based on the midyear budget review process.

**Northeast Power Coordinating Council
Reliability Assessment Program**

**Appendix B
Recommendation Tracking Database
Summary**

November 1998

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

<u>ID #</u>	<u>Recommendation Summar</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 November 5, 1998 RCC meeting.	RCC	1998/11/05
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. Incorporate the NPCC guideline for ATC determination and posting into individual control area ATC processes with implementation of Phase II of OASIS (1999). Implement IDC and Tagging System when developed. TMS developments, including the IDC and TIS will be discussed at the November 5, 1998 RCC meeting.	RCC	1998/11/05
NERC-95-02	Implement line loading relief procedure and Implement ISN primary node.	Work continues on the development of distribution factors and internal dispatch procedures to support the transfer curtailments outlined in the Lake Erie Security Process. New York and New England anticipate that they will have ICCP/ISN capability by the fall of 1998, inclusive of send/receive capability external to NPCC.	RCC	1998/11/05
NERC-96-03	Develop certification policies, processes, practices and/or programs for use by the industry.	TFCO reviewed and approved the revised CO-2 and CO-8 scopes to promote greater operator attendance and emphasize a more participatory method of conducting operator training at the September, 1998 meeting. TFCO approved the System Operators November 17-18, 1998 workshop agenda. NPCC will continue to monitor NERC certification/accreditation programs through its CO-2 and CO-7 working groups.	TFCO	Complete
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 draft Memorandum of Agreement incorporating revisions to NPCC's membership, governance and funding has been distributed for Member System consideration at the November 5, 1998 Annual Meeting.	Exec. Comm.	1998/11/05

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

<u>ID #</u>	<u>Recommendation Summar</u>	<u>STATUS</u>	<u>Lead Group</u>	<u>Next Tracking</u>
NERC-96-05	Review of committee structure to promote timely implementation of reliability protocols.	As a means of enhancing opportunities for involvement in the criteria process by all users NPCC established an Open Review Process for the development of reliability policies, utilizing the NPCC Web Site. The first criteria documents to have completed this process were approved at the June 26, 1998 RCC meeting.	RCC	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.	NPCC has formed a Compliance Enforcement Working Group reporting to the RCC. The scope for the working group was approved by the RCC at its June, 1998 meeting. The group will develop the principles necessary to implemnt enforcement to NPCC and NERC Rules and Standards. An enforcement plan should be in place by June 1999 with implementation awaiting final legislative mandate. The topic will be discussed further at the Nobember 5, 1998 RCC meeting.	RCC	1998/11/05
NERC-96-09	The industry should endorse functional separation of reliability management and commercial functions.	NPCC areas are moving forward with the implementation of functional separation of their Operations and Marketing functions. Ontario Hydro formed its CMO in March, 1997, Hydro Quebec announced separation of its Operations and Marketing functions in May, 1997, the ISO-NE was formed in July, 1997, NYPP received FERC approval to proceed with the ISO formation on June 24, 1998, and New Brunswick has opened its system to through and out transfers.	TFCO	Complete
NERC-96-10	Review of NERC/DAWG Report on 1995 System Disturbances	The Task Force on System Protection (TFSP) made changes to the Bulk Power System Protection Criteria (Document A-5) and the Maintenance Criteria for Bulk Power System Protection (Document A-4) that address all concerns emanating from the TFSP's review of the NERC/DAWG Report on 1995 System Disturbances. After approval at the June 1998 RCC meeting, the Documents were distributed to NPCC Member Representatives and final approval was obtained in September 1998.	TFSP	Complete

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

<u>ID #</u>	<u>Recommendation Summar</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 completed its review of the NERC planning Standards and assessed them against the NPCC Criteria. NPCC submitted its self assessment to NERC in March, 1998. NPCC will continue to review the NERC Standards as they proceed through the NERC Due Process. The topic will be discussed at the November 5, 1998 RCC meeting.	TFCP	1998/11/05
NPCC-97-04	Report compliance with NPCC Emergency Operation Criteria (Document A-3) with respect to underfrequency tripping of generators.	The annual update of the survey regarding MW Load Shed due to Underfrequency Tripping of Generators (conformance with §4.9 of the Emergency Operation Criteria (Document A-3)) was issued on May 15, 1998 together with the Survey of Conformance to the NPCC Underfrequency Load Shedding Program at December 31, 1997 (conformance with §4.6 of Document A-3). At its September 22-24, 1998 meeting, the TFSP agreed that this item is completed, since both annual surveys now are part of the main NRAP report.	TFSP	Complete
NPCC-97-05	Utilities should have a plan for initial and continuing training of those responsible for operating and maintaining electricity systems.	The CO-2 working group presented an action plan to the TFCO at its May, 1998 meeting to enhance seminar involvement. TFCO accepted the revised the costing and participation methodologies at the July, 1998 TFCO meeting. TFCO approved the revised WG scopes at its September, 1998 meeting. TFCO also approved the proposed System Operators November 17-18, 1998 workshop agenda.	TFCO	Complete

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

<u>ID #</u>	<u>Recommendation Summar</u>	<u>STATUS</u>	<u>Lead Group</u>	<u>Next Tracking</u>
NPCC-97-10	NPCC area to adhere to revised NERC Transaction Information System tagging implementation dates.	NPCC is continuing to support the NERC TIS tagging concept. All NPCC Areas have reported to the NERC Operating Committee the status of their compliance with NERC Operating Policy 3 defining tagging requirements. All NPCC Areas are currently accepting and/or generating tags for all transactions required under NERC Operating Policy 3, Interchange. The TFCO reviewed the NPCC Control Area's status toward implementing electronic tagging. All areas reported that they are involved in either evaluating and/or testing electronic tagging options or have arrived at alternative methods to meet their tagging obligations. All areas noted that they will be prepared to comply with the May 1, 1999, date to begin full implementation of CPM, with electronic tags required for all Interchange Transactions provided the necessary tools are available.	TFCO	Complete
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. The WG provides periodic status reports to the TFCO. A draft report and testing procedure will be discussed at the November 3-4, 1998 TFCO meeting. The final report is due in December 1998.	TFCO	1998/11/04
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 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 November 3-4, 1998 TFCO meeting.	TFEMT	1998/11/04

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

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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.	RCC	1999/02
NPCC-98-03	RCC constitute a group from all NPCC Task Forces to develop an NPCC compliance structure.	The proposed scope of the NPCC Compliance Enforcement Working Group was approved by the RCC at its meeting of June 26, 1998. (The NPCC Compliance Assessment Process will be discussed at the November 5, 1998 RCC meeting.)	RCC	Complete
NPCC-98-05	TFEMT will investigate NPCC ICCP/ISN implementation feasibility for the summer of 1998.	<p>At the joint TFEMT-TFCO meeting on September 24, 1998 Mr. Carson distributed two options of the ISN Implementation Plan for review by TFCO. Mr. Carson reported that the PJM IDEC link decommissioning is scheduled for December, 1998 (firm). The Focus of the ISN Implementation Plan will be on the replacement of IDEC. ISN/IDEC conversion is anticipated to begin within NPCC during the first quarter of 1999. Mr. Carson reported that the NPCC portion of the NERC ISN will not be fully ready (outside exchange) until the 3rd quarter of 1999. In the interim, security data exchange will continue over IDEC.</p> <p>Ontario Hydro has decided to convert to ICCP, however OH still needs to determine the optimal mode of connection. Mr. Carson presented three designs with which Ontario Hydro can be connected to the ISN and discussed the advantages and disadvantages of each. The TFEMT recommended alternative 2, Ontario Hydro as ISN node.</p>	TFEMT	1999/02/03
NPCC-98-06	Initiate coordination and review of the Year 2000 plans recognizing the necessity for sharing of information and data at the corporate level.	Formation of the Y2K working group was agreed upon by the RCC at its June 26, 1998 meeting. Y2K activities are tracked under NPCC-97-16.	TFEMT	Complete
NPCC-98-07	LESP revision for 1998 and consideration of redispctch options.	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.	TFCO	Complete

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

<u>ID #</u>	<u>Recommendation Summar</u>	<u>STATUS</u>	<u>Lead Group</u>	<u>Next Tracking</u>
NPCC-98-08	Streamline disturbance reporting procedures under future similar circumstances to the January 1998 Ice Storms.	Action will be taken to streamline NPCC document B-13, Guide for Reporting System Disturbances based on the events of the January 1998 Ice Storms. Additionally, NPCC will work to introduce language streamlining NERC Policy 5F, Reporting of Disturbances.	TFCO	1998/11/04
NPCC-98-09	An Ad hoc Working Group will conduct studies using "black Friday", January 9th, 1998 as the test case to verify that the bulk electric system was in a secure state during the Ice Storm.	Status of the Black Friday study was reviewed at September TFCO meeting. Both TransEnergie and Ontario Hydro reported that they have system studies on file. NYPP reported that it has studies on file. Mr. Li will compile the results from all areas and records will be retained at the NPCC offices.	TFCO	Complete
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.	TFCO recommended a further review, by the NPCC Operations Managers Working Group (CO-8), of the restoration of islands.	TFCO	1998/11/04
NPCC-98-12	In the January 1998 Ice Storm Report, the TFCO recommended that the Task Forces on System Protection review the performance of facilities in the electrical islands.	At the September 22-24, 1998 meeting the TFSP reviewed all known misoperations that occurred during the January 1998 Ice Storm. Members from the affected companies reported that in general, the protection systems performed as designed, and the Task Force concluded that no additional follow-up actions are required. Four occurrences, all predictable, were discussed at the meeting (see minutes of TFSP meeting #200 - TFSP folder in the NPCC WWW BBS).	TFSP	Complete

GOALS AND RESPONSIBILITIES

The Memorandum of Agreement of the Northeast Power Coordinating Council (NPCC) specifies:

“The purpose of the Council is to promote reliability and efficiency of electric service on the bulk power systems of the members of the Council by extending the coordination of their system design and operations in a manner consistent with the foregoing preambles [see Memorandum of Agreement, as amended to November 6, 1996].”

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, conformance 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.