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**Northeast Power Coordinating Council
Reliability Assessment Program**

STATUS REPORT

June 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

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

At the June 26, 1998 meeting, the RCC will consider the revised *Operating Reserve Criteria* (Document A-6).

27) **Annual Summary of Compliance with Operating Reserve**

At the June 26, 1998 meeting, the RCC will consider the annual survey for conformance of the Areas with the *Operating Reserve Criteria* (Document A-6).

108) **NPCC Reliability Assessment for Summer 1998**

The *NPCC Reliability Assessment for Summer 1998*, prepared by the Ad Hoc Operations Planning Working Group, has been distributed to the RCC and other interested parties for information.

Task Force on Coordination of Planning

53) **CP-7 Working Group on the Review of NERC Planning Standards**

A presentation on status of the Working Group's efforts will be made at the June 26, 1998 RCC meeting by Mr. A. Adamson, TFCP Chairman.

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

At the June 26, 1998 meeting, the RCC will consider the *NPCC Glossary of Terms* (Document A-7). The glossary, that previously was Appendix A to the *Criteria for Review and Approval of Documents* (Document A-1), has been expanded by the Joint Glossary Working Group under the auspices of the Task Force on Coordination of Planning.

Task Force on System Protection

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

At the June 26, 1998 meeting, the RCC will consider the revised *Maintenance Criteria for Bulk Power System Protection* (Document A-4).

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

At the June 26, 1998 meeting, the RCC will consider a revised *Bulk Power System Protection Criteria* (Document A-5). Most changes were made to address concerns emanating from the TFSP's review of the NERC/DAWG Report on 1995 System Disturbances.

HIGHLIGHTS - continued

Task Force on System Protection - continued

65) System Protection – Minimum Maintenance Conformance Survey

At the June 26, 1998 meeting, the RCC will consider the annual survey for conformance with the *Maintenance Criteria for Bulk Power System Protection* (Document A-4). The exceptions comprise few outstanding items.

66) Survey of Conformance to the NPCC Underfrequency Load Shedding Program

The annual survey for conformance to the underfrequency load shedding requirements of §4.6 and §4.9 of the *Emergency Operation Criteria* (Document A-3) at December 31, 1997 was submitted to the RCC for information on May 15, 1998

67) Special Protection System List

The updated NPCC Special Protection System List was distributed to the RCC and other interested parties for information on May 8, 1998.

Task Force on System Studies

72) B-10 Guidelines for Requesting Exclusion to Section 5.1 (B) and 6.1 (B) of the NPCC Basic Criteria for Design and Operation of Interconnected Power Systems

At the June 26, 1998 meeting, the RCC will consider the revised *Guidelines for Requesting Exclusion to Section 5.1 (B) and 6.1 (B) of the NPCC Basic Criteria for Design and Operation of Interconnected Power Systems* (Document B-10).

NPCC Open Review Process

As of June 17, 1998 a total of eleven drafts of NPCC Documents are under Open Review, distributed as follows:

- Criteria: Five (A-3, A-4, A-5, A-6 and A7)
- Guidelines: Two (B-7 and B-12)
- Procedures: Four (C-3, 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: Based on discussions with the TFSP Chairman Charles Moser at the May 20-21, 1998 TFCO meeting, it was agreed that clarifications were required in Document A-3 regarding 1) shedding of load to compensate for generators that trip above the curve in Figure 1 in Document A-3, and 2) the use of rate of change underfrequency load shedding relays. A revised draft of Document A-3 will be resubmitted to the NPCC Open Review Process. 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: February 14, 1996
			Frequency of Reviews: 3 Years
			Next Review Date: June 1998

Status/ Comments: Following the response of the FERC to the definitions of ancillary services proposed by the Interconnected Operations Services Working Group, the NPCC Control Performance Working Group has revised Document A-6 to reflect the manner in which reserve will be handled in an unbundled environment. In accordance with NPCC Document A-1, Criteria For Review and Approval of Documents, Document A-6 has been submitted for concurrent review to the Task Forces on Coordination of Planning and System Studies and approved by both Task Forces. The Document has also been posted for Open Process Review and it will be submitted for approval at the June 26, 1998 RCC meeting. Also reference items 13, 18 and 27.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

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: July 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 SPWG recognized that significant changes to Document B-2, Control Performance Guide During Normal Conditions, is being developed by the Control Performance Working Group to administer the NERC Control Performance Standard 1 (CPS-1) and the NERC Control Performance Standard 2 (CPS-2). A revised draft will be discussed at the July 8-9, 1998 TFCO meeting. Also reference items 12 and 26.

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, 1997
			Frequency of Reviews: 3 Years
			Next Review Date: November 2000

Status/ Comments: Document B-3 was approved by the RCC at its November, 1997 meeting. The parallel procedural document, C-4, Monitoring Procedures for Guidelines for Inter-AREA Voltage Control, was reviewed at the same time as B-3 to insure consistency between the guide and its procedure. Also reference items 9 and 22.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

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 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 SPWG has completed its review and recommended no changes to Document B-9, Guide for Rating Generating Capability. The TFCO accepted this recommendation at its March 25-26, 1998 meeting. The Document will now be posted for Open Review and submitted to the TFCP for concurrent review. Also reference items 11 and 25.

6)B-13	Guideline 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 affect a significant part of one Area or which have inter-Area implications.	Latest Version: June 1997
			Frequency of Reviews: 3 Years
			Next Review Date: November 1998

Status/ Comments: Former Procedure C-2 was presented to the Reliability Coordinating Committee at the June 1997 RCC meeting and approved as new Guide B-13, Guideline for Reporting System Disturbances. It is now being further reviewed to address the reporting of repetitive events stemming from a common cause, such as the ice storm of 1998, and to ensure consistency with newly released NERC Operating Policy 5.F.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

7)C-1	Glossary of Standard Operating Terms	Description:	Standards for common terminology for voice communications between operators are established.	Latest Version:	see Status / Comments below
				Next Review Date:	June 1998 (Glossary - Document A-7)

Status/ Comments: The former document C-1 has been merged into the draft of the NPCC Glossary of Terms by the Joint Glossary Working Group, under the auspices of the Task Force on Coordination of Planning. Also reference items 37 and 56.

8)C-3	Procedures for Communications During Emergencies	Description:	These Procedures direct NPCC's implementation of the NERC Interregional Emergency Telephone Networks (NERC Hot Line). To permit Regional discussions of an emergency condition, the NERC Hot Line immediately connects all Regional nodes on the Interregional Emergency Telephone Networks. The NERC Hot Line employs the Preset Conference Call, an automated conference call procedure, which requires a secure access code for participation.	Latest Version:	January 1997
				Frequency of Reviews:	1 Year
				Next Review Date:	July 1998

Status/ Comments: The Security Process Working Group has completed its review of NPCC Document C-3, Procedures for Communications During Emergencies to ensure its applicability in the competitive market place and mandatory environment. A revised draft was posted for Open Review; at the March 25-26 meeting, the TFCO recommended additional minor changes. A final draft of the document will be considered at the July TFCO meeting. Reference also item 16.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

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, 1997 Frequency of Reviews: 3 Years Next Review Date: November 2000
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Status/ Comments: Also reference items 4 and 22.

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: November 1998
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Status/ Comments: The RCC charged the Security Process Working Group (SPWG) 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 SPWG has completed its review of Document C-5, Monitoring Procedures for Emergency Operation Criteria, and recommended changes were approved by the TFCO at its March 25-26, 1998 meeting. However, further action on this document has been deferred until Document A-3 has been approved. Also reference items 1, 23 and 29.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

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: November 7, 1994 Frequency of Reviews: 3 Years Next Review Date: November 1998
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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 SPWG has completed its review and recommended no changes to Document C-7, Monitoring Procedures for Guide for Rating Generating Capability. The TFCO accepted this recommendation at its March 25-26, 1998 meeting. The reviewed document will be re-issued together with Document B-9, Guide for Rating Generating Capability. 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: July 1998
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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 SPWG recognized that significant changes to Document C-8, Monitoring Procedures for Control Performance Guide During Normal Conditions, is being developed by the Control Performance Working Group (CO-1) to administer the NERC Control Performance Standard 1 (CPS-1) and the NERC Control Performance Standard 2 (CPS-2). A revised draft will be discussed at the July 8-9, 1998 TFCO meeting. Also reference items 3 and 26.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

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: July 18, 1995 Frequency of Reviews: 3 Years Next Review Date: November 1998
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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 SPWG has completed its review and recommended no changes to Document C-9, Monitoring Procedures for Operating Reserve Criteria. The TFCO accepted this recommendation at its March 25-26, 1998 meeting. However, further action on this document has been deferred until Document A-6 has been approved. 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: May 10, 1995 Frequency of Reviews: 3 Years Next Review Date: July 1998
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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 SPWG has completed its review and recommended no changes to Document C-11, Monitoring Procedures for Interconnected System Frequency Response. The TFCO accepted this recommendation at its March 25-26, 1998 meeting. The reviewed Document will be re-issued after the July 8-9, 1998 TFCO meeting.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

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: May 8, 1996
			Frequency of Reviews: 3 Years
			Next Review Date: May 1999

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 SPWG has completed its review and recommended that minor changes be made to Document C-12, Procedure for Shared Activation of Ten Minute Reserve, during the next scheduled review of this document. The TFCO accepted this recommendation at its March 25-26, 1998 meeting.

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

Status/ Comments: Reference also items 8 and 28.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

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:	January 1997
				Frequency of Reviews:	3 Years
				Next Review Date:	January 2000

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 SPWG has completed its review and recommended no changes to Document C-15, Procedures for Solar Magnetic Disturbances on Electrical Power Systems. The TFCO accepted this recommendation at its March 25-26, 1998 meeting.

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:	November 1998

Status/ Comments: The Security Process Working Group has completed its review of NPCC Document C-19, Procedures During Shortages of Operating Reserve, to ensure its applicability in the competitive market place and mandatory environment. A revised draft has been posted for Open Review, and the changes recommended by the SPWG were accepted by the TFCO at its March 25-26, 1998 meeting, However, further action on this document has been deferred until Document A-6 has been approved. Also reference item 2.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

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: July 1998

Status/ Comments: The Security Process Working Group has completed its review of NPCC Document C-20, Procedures During Abnormal Operating Conditions, to ensure its applicability in the competitive market place and mandatory environment. A revised draft has been posted for open review, and the changes recommended by the SPWG were accepted with a clarification by the TFCO at its March 25-26, 1998 meeting. However, further action on this document has been deferred until Document A-6 has been approved. Also reference item 2.

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 1997
			Frequency of Reviews: 3 Years
			Next Review Date: January 2000

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 SPWG has completed its review and recommended no changes to Document C-21, Monitoring Procedures for Conformance with Normal and Emergency Transfer Limits. The TFCO accepted this recommendation at its March 25-26, 1998 meeting.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

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: The Task Force on Coordination of Operation reviewed a revised scope and procedure of its activities at its meeting of March 5 and 6, 1996. The updated scope was approved by the Reliability Coordinating Committee at its meeting of May 7, 1996.

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
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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: July 1998
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Status/ Comments: Also reference items 1, 10 and 19.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Surveys/Reviews

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|-----|---|---------------------|--|------------------------------|-----------------------|
| 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: | This Procedure provides for each Area to 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: | July 1998 |
| | Status/ Comments: Also reference item 20. | | | | |
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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. | | | | |
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| 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 A1 and A2 standards as presented in the Monitoring Procedure C-8. | Latest Version: | November 1997 |
| | | | | Frequency of Reviews: | See Status / Comments |
| | | | | Next Review Date: | July 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. | | | | |

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Surveys/Reviews

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

Status/ Comments: The annual report of conformance by the Areas for the calendar year 1997 will be submitted to the RCC at its June 26, 1998 meeting by the NPCC Control Performance Working Group (CO-1) through the TFCO. 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:	1999/02

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: July 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, 23, and 93.

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: \$8,350

Status/ Comments: The Control Performance Working Group (CO-1) administered the migration of the NPCC Areas from compliance with the old A1 and A2 control performance criteria to the NERC Control Performance Standard 1(CPS-1) and NERC Control Performance Standard 2 CPS-2). The NPCC inadvertent account for the year 1997 has been reconciled.

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:	\$5,575

Status/ Comments: The Working Group on Dispatcher Training (CO-2) presented an agenda for the next dispatcher training session at the March 25-26, 1998 TFCO meeting. The agenda was accepted as revised. The TFCO recommended additional coordination between WG CO-2 and WG CO-8 (System Operations Managers Working Group), which will be discussed further at the July 8-9, 1998 TFCO meeting.

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:	\$2,550

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 ISO security 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:	\$2,375

Status/ Comments: The Working Group CO-8 has coordinated the implementation of the NERC Transmission Loading Relief Procedure and the Lake Erie Security Process among the NPCC Areas.

34)	Security Process Working Group	Assignment:	To develop and document the NPCC implementation of those recommendations emanating from the Security Process Task Force Report to the NERC Operating Committee and the NERC Engineering Committee.	1998 Budget:	\$25,000
				Expense to Date:	\$1,250

Status/ Comments: The Working Group is reassessing the NPCC security plan relative to the proper numbers of Security Coordinators to coordinate the security processes among the NPCC Areas. The SPWG reviewed many NPCC Criteria, Guides and Procedures to ensure their continued applicability in both the competitive marketplace and the mandatory environment. Recommendations made to the TFCO were generally accepted at the March 25-26, 1998 meeting as noted elsewhere in this report.

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.	1998 Budget:	\$6,000
				Expense to Date:	\$0.00
		Status/ Comments:	Work continues on the development of distribution factors and internal dispatch procedures to support the transfer curtailments outlined in the Lake Erie Security Process.		

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	1997 Budget:	\$15,000
				Expense to Date:	\$9,250
				Completion Date	1998/07
		Status/ Comments:	The NPCC Ad Hoc ATC Working Group has been reconvened to address additional charges and coordination efforts and formulate NPCC's input to the NERC ATC Working Group. Also reference item 106.		

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

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: \$2,800 Completion Date: December 1998
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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 testing of critical facilities are being developed.

108)	Ad Hoc Operations Planning Working Group	Review the overall reliability of the generation and transmission systems in the NPCC for the 1998 Summer period considering forecast system conditions in neighboring Regions. Review the operational readiness of the NPCC and recommend possible actions to mitigate any potential problems.	1998 Budget: \$0 Expense to Date: \$950
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Status/ Comments: The Working Group has developed NPCC Reliability Assessment for Summer 1998 report, which was approved by the TFCO. The report has been distributed to the RCC for information and posted on the NPCC WWW NBBS. The report was completed in March 1998 as scheduled.

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: Document A-1 - November 1998 Glossary - June 1998

Status/ Comments: The Task Force on Coordination of Planning is reviewingf this document. A draft was presented at the February 18, 1998 TFCP meeting. The document is being revised to incorporate the NPCC Open Process for the Review of Criteria, Guides, and Procedures and any other possible changes to the NPCC Reliability Assessment Program that TFCP (CP-7) is considering. The Glossary, previously included as an appendix to A-1, will become a stand alone Document (A-7). This document will be submitted to the RCC for consideration at the June 26, 1998 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:

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:

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: September 1998

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
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Status/ Comments: The Review was approved at the June 25, 1997 RCC 1997 meeting.

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
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Status/ Comments: The Review was approved at the June 25, 1997 RCC meeting.

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: November 1998
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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: November 1998
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Status/ Comments:

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
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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: November 1998
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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: November 1998

Status/ Comments:

50)	NPCC Area Transmission Review	Description: Review of the Québec Area future transmission plans (5-7 years out)	Latest Version: September 1997
			Frequency of Reviews: 1 Year
			Next Review Date: September 1998

Status/ Comments:

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

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:	\$13,947
				Completion Date:	December 1998

Status/ Comments: General Electric had been engaged to provide enhancements to the Multi-Area Reliability Simulation (MARS) program. As discussed at the working group meeting on May 6, 1998 efforts are underway to collect data for the MARS database to conduct studies. A 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:	\$31,900
				Completion Date:	June 1999

Status/ Comments: The Working Group submitted a status report on the Enhanced NPCC Reliability Assessment Program (ENRAP) to the NERC Standards and Compliance Task Force on June 1, 1998. The working group supplied additional comments to the NERC Planning Standards and the Compliance Templates. CP7 is monitoring the development of interim NPCC documentation and will review the revised documents. These documents are due from the Task Forces by July 1, 1998.

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-411 data: April 1999
2) NPCC Report: June 1999

Status/ Comments: 1) The NPCC data that is part of NERC's 1998 EIA-411 filing with DOE has been submitted to and accepted by NERC. Also reference item 104. 2) The NPCC Load, Capacity, Energy Fuels and Transmission report will distributed within NPCC and to other interested parties starting mid June, 1998. A draft of a new NPCC Procedure that will correspond to Section II.D in the NERC Planning Standards is under review by the LCFWG.

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

56)JGWG	Joint Glossary Working Group	Assignment	To maintain the Glossary in the Criteria for Review and Approval of Documents (Document A-1) and to expand the Glossary to include new terms as necessary.	1998 Budget:	\$8,000
				Expense to Date:	\$0
				Completion Date:	June 1998 (Phase I)

Status/ Comments: A final draft of the combined Glossary has been approved by all NPCC task forces in an iterative process. The draft has been submitted as a freestanding Criteria - Document A-7 - for approval at the June 1998 RCC meeting. Also reference items 7 and 37.

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: November 8, 1995
			Frequency of Reviews: 3 years
			Next Review Date: June 1998

Status/ Comments: Following a final review at the April 21-22, 1998 TFSP meeting, the Document was re-submitted to the "NPCC Open Process Review" and to the Task Forces on Coordination of Operation (TFCO) and on System Studies (TFSS) for concurrent review. The Document was approved by the TFCO and TFSS and to date, only the concurrent review comments have been received. It will be submitted to the RCC for approval at the June 1998 Reliability Coordinating Committee (RCC) meeting. 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: August 9, 1995
			Frequency of Reviews: 3 Years
			Next Review Date: June 1998

Status/ Comments: Following a final review at the April 21-22, 1998 TFSP meeting, a draft of the Bulk Power System Protection Criteria (Document A-5) was included in the "NPCC Open Process Review" and submitted to the Task Force on Coordination of Planning (TFCP), TFCO and TFSS for concurrent review. The draft has been approved by the other Task Forces with minor clarifications acceptable to the TFSP, and the Document will be submitted for approval at the June 26, 1998 RCC meeting. 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:

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: November 1998
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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: November 1998
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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.

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
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Status/ Comments:

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 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:		

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: May 1997 Frequency of Reviews: 1 Year Next Review Date: June 1998
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Status/ Comments: The annual survey for conformance with the Maintenance Criteria for Bulk Power System Protection (Document A-4) for the period ending December 31, 1997 has been completed. A report has been submitted to the RCC for consideration at the June 26, 1998 meeting. The report has also been placed in the TFSP folder on the WWW NPCC Bulletin Board System (NBBS).

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Surveys/Reviews

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 approved at the April 21-22, 1998 TFSP meeting. A report was distributed for information to the RCC and TFCO prior to the May 20-21, 1998 TFCO meeting. At the same time, the report was placed in the TFSP folder on the WWW 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. | | | | |
| | | | | | |
| 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 TFSP is strengthening the language in several NPCC documents based on its review of the NERC/DAWG Report on 1995 System Disturbances. The NERC/DAWG Report on 1996 System Disturbances has 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: September 1998
	Status/ Comments:	The data collection effort previously performed by TFSP Working Group SP-5 will be continued yearly on a voluntary basis. TFSP members are evaluating the protection system performance data received for the years 1994, 1995 and 1996. The data collection process will be re-evaluated at the September 1998 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 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: February 8, 1994 Frequency of Reviews: 3 years Exp. Completion: June 1998
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Status/ Comments: A revised version of the Document was sent to the TFCO and TFCP for concurrent review, and both Task Forces approved the revisions. The Document will be submitted to the RCC for final approval 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: February 13, 1998 Frequency of Reviews: 3 years Next Review Date: February 2001
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Status/ Comments: The TFSS reviewed the document at its February 12-13, 1998 meeting. The consensus was that the Document as written meets the new NERC Planning Standards.

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
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Status/ Comments: The draft changes to Document C-25 are nearly in final form to address NPCC Conformance with NERC Planning Standards I.F. 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
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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: November 1997 Frequency of Reviews: 1 Year Next Review Date: November 1999
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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:

79)	NPCC Area Transmission Review	Description: Review of Québec Area future transmission plans (5-7 years out)	Latest Version: September 1997
			Frequency of Reviews: 1 Year
			Next Review Date: September 1998

Status/ Comments:

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: \$3,108 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. Work has been initiated on the eight load flow models that will be assembled as part of the 1998 Base Case Development effort. These cases will form the basis for the ten models that will be 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: \$15,735 Completion Date: December 1998
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Status/ Comments: Draft changes to the SS38-6 report and the Procedure to Collect Real-Time Data for Inter-Area Dynamic Analysis (Document C-25) were presented to the TFSS at its June 1-2, 1998 meeting. The changes were made in order for NPCC to comply with NERC Planning Standard I.F. A final draft of Interim Document C-25 will be sent to the CP-7 and other working groups by June 30, 1998.

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: September 1998

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. The review will be finalized at the same time as Document B-12. Reference also item number 87.

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

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: September 1998
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Status/ Comments: The Task force is currently awaiting the completion of the 1996 NERC Disturbance Report by the NERC/DAWG.

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
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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: February 1998 Frequency of Reviews: As Required
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Status/ Comments: Member system status reports will be reviewed at the June 18-19, 1998 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). The topic for the next workshop will be discussed at the September 1998 TFEMT meeting. | | | | |
| | | | | | |
| 93) EMT-2 | Energy Management Technology Survey Working Group | Assignment: | Perform the biennial survey of NPCC member's Energy Management systems. This Survey contains data concerning hardware, functions and performance objectives. The Group then produces the Energy Management Technology Survey Report. | Latest Version: | February 1998 |
| | | | | Completion Date: | See comments. |
| | Status/ Comments: At the February 11-12, 1998 meeting the TFEMT reviewed the NRAP and agreed to eliminate the EMT Survey Working Group (EMT2). NPCC will retain the working group records. For the time being the TFEMT is collecting the required information. Also reference item 29 and 107. | | | | |
| | | | | | |
| 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. | | | | |

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

95)	Ad Hoc Working Group on Information Exchange	Assignment: Develop a document discussing communication channels, company contacts and coordination of outages.	Latest Review: June 1998
			Frequency of Reviews: As Required
			Next Review Date: September 1998

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 June 18-19, 1998 TFEMT 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 MEN 1998 Summer Interregional Transmission System Reliability Assessment was distributed in electronic form to the RCC and other interested parties on June 12, 1998. A parallel analysis to appraise the dynamic performance of the interconnected systems within the MAAC, ECAR and NPCC regions is underway, and a report will be issued when all dynamic testing is completed. 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: \$2,750

Completion Date: November 1998

Status/ Comments: The MEN OSWG performed the studies on which MEN 1998 Summer Interregional Transmission System Reliability Assessment was based. The Assessment Report was submitted through the MEN Study Committee to the Joint Interregional Review Committee and approved at the May 1998 JIRC meeting. Work on the VEM/MEM 1998/99 winter base case has been initiated. It is expected that the studies leading to the MEN 1998/99 Winter Assessment will be completed in November 1998. 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:

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: September 1998

Status/ Comments: The Reliability Assessment Subcommittee's annual overview of North American reliability, Reliability Assessment 1998-2007 is in progress. A first draft of the assessment was discussed at the June 17-18, 1998 RAS meeting. The 1998 Summer Assessment was released in May 1998. The report is available on the NERC Home Page.

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, formerly, known as the Reliability Assessment Subcommittee - RCS, issued its latest draft of the NERC compliance templates on May 28, 1998. These templates will be submitted to the NERC EC for approval at the July meeting. The PSS is also reviewing proposed changes to the Standards as supplied by the Regions.

**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.	1998 Budget:	\$12,000
				Expense to Date:	\$0
				Completion Date:	Ongoing

Status/ Comments: Work is under way on the ten load flow models that constitute the 1998 series of NERC MMWG base cases. NPCC's input to the MMWG effort is provided by the SS-37 Working Group on Base Case Development. Also reference item 85.

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 1998
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Status/ Comments: Work is under way on the LFWG's 1998 report, Peak Demand and Energy Projection Bandwidths: 1998-2007 Projections. The report will be submitted to the NERC Engineering Committee for approval before it is made available on the NERC Home Page.

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:

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

104)	DOE/EIA Data Coordination Task Force	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
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Status/ Comments: The DOE/EIA Data Coordination Task Force met in April 1998 with representatives from the DOE Energy Information Administration (EIA) to discuss progress in the 1998 data collection effort. The NPCC 1998 data was submitted to NERC in April 1998, and NERC has forwarded the data for the US Areas to EIA. Indications are that fewer problems were encountered in the 1998 effort than in last year's. Also reference item 55.

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

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.

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 is reviewing Regional inter and intra ATC coordination and will report its finding to the EC at the July meeting. The ATCWG has received reports from MAAC and FRCC on the use of commercial viability indices. The group is to finalize its TRM/CBM matrix at its upcoming July meeting. A Regional Implementation Assessment Framework has been developed and is to be used to form the basis for Regional assessments for ATC implementation. These assessments are to begin in September, 1998. NPCC is scheduled to be reviewed in October, 1998.

NPCC RELIABILITY ASSESSMENT PROGRAM

STATUS REPORT

BUDGET SUMMARY

ITEM NUMBER	PROJECT DESCRIPTION	1998 BUDGET	1998 EXPENSE
30	CO-1 Control Performance	\$16,250	\$8,350.00
31	CO-2 Dispatcher Training	\$21,250	\$5,575.00
32	CO-7 Operation Review Teams	\$25,000	\$2,550.00
33	CO-8 System Operations Managers Working Group	\$20,000	\$2,375.00
34	SPWG Security Process Working Group	\$25,000	\$1,250.00
35	LECWG Lake Erie Circulation Working Group	\$6,000	\$0
36	ATC NPCC Ad Hoc Working Group on ATC	\$15,000	\$3,250.00
52	CP-5 Working Group on the Review of Interconnection Assistance Benefits	\$8,000	\$13,947.33
53	CP-7 Working Group on the Review of NERC Planning Standards	\$25,000	\$31,900.00
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	\$3,107.79
86	SS-38 Inter-Area Dynamic Analysis	\$25,000	\$15,735.27
92	EMT-1 Energy Management Technology Workshop Working Group	\$5,000	\$0
97	MEN MAAC-ECAR-NPCC Activities - OSWG	\$10,000	\$2,750.00
101	MMWG NERC Multiregional Modeling Working Group	\$12,000	\$0
105	SDDWG Dynamic Database Working Group	\$15,000	\$6,187.50
107	CFRWG Jt. W. G. on the Identification of Critical Facilities	\$28,400	\$2,800.00
108	OPWG Ad Hoc Operations Planning Working Group	\$0	\$950.00
	NERC NERC Working Groups	\$40,000	\$8,400.00
	NERC Interregional Security Network (ISN)	\$50,000	\$17,403.89
	STAFF	\$15,000	\$0
TOTAL		\$398,900*	\$126,531.78

* At their November 6, 1997 meeting, the Reliability Coordinating Committee recommended that NPCC's 1998 Budget include \$200,000 in Account #800 "Project Expense" to cover the projects noted above.

Appendix A

June 22, 1998

Northeast Power Coordinating Council
Reliability Assessment Program

Appendix B
Recommendation Tracking Database
Summary

June 1998

**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-96-03	Regional reliability councils to cooperate with NERC to improve understanding of the causes of voltage collapse.	The SS-38 Working Group completed a comprehensive report on Analysis and Control Practices for Voltage Collapse Phenomenon in NPCC and Neighboring Regions.	TFSS	Complete
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 June 26, 1998 RCC meeting.	RCC	1998/06/26
NERC-95-01	ATC determination, IDC and TIS.	A revised report entitled "NPCC Methodology and Procedure for Determining ATC" was approved by the TFCO on June 9, 1998. The report will be presented to the RCC at the June 26, 1998 meeting. The TFCO continues to support tagging. A business plan be developed to address a comprehensive Transaction Management System to encompass the needs of both tagging and a fully functional IDC is under development by NERC.	RCC	1998/06/26
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	1998/11/5
NERC-95-03	Assure that NPCC documents conform to revised NERC documents.	NPCC documents are reviewed periodically -- as specified in the NPCC Reliability Assessment Program -- to ensure they are clearly defined, uniform and specific. The NPCC SPWG has reviewed NPCC documents related to operational issues to ensure that they are consistent with NERC Standards and Operating Policies. The CP-7 Working Group has completed its assessment of the NERC Planning Standards against the existing NPCC Reliability Assessment Program. The follow-up of this activity is tracked under item NERC-97-01.	RCC	Complete

**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-96-02	Enforcement of requirements through contractual agreements between industry participants.	Compliance with the NPCC Criteria, Guidelines and Procedures was made mandatory with the November 6, 1996 NPCC Memorandum of Agreement.	RCC	Complete
NERC-96-03	Develop certification policies, processes, practices and/or programs for use by the industry.	NPCC continues to participate in the NERC effort through Working Group CO-7, "Operation Review Team." The TFCO continues to participated in the development of the NERC certification and accreditation programs through the efforts of it's CO-2 working group.	TFCO	1998/07/09
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.	The NPCC Executive Committee at its May 12, 1998 meeting considered recommended revisions to NPCC's membership, governance and funding. A draft Memorandum of Agreement is being developed incorporating these recommendations for Member System consideration at the November 1998 Annual Meeting.	Exec. Comm.	1998/11/05
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 will be considered for approval at the June 26, 1998 RCC meeting.	RCC	1998/06/26
NERC-96-06	Perform a comprehensive review of the existing policies, standards, and criteria to ensure they are specific, measurable, adequate and appropriate for the new industry environment.	The NPCC SPWG has reviewed all NPCC documents in light of industry changes; the TFCO accepted the SPWG's recommendations at the March 25-26, 1998 TFCO meeting with minor modifications and is acting on them as the status of the individual documents dictate. The follow-up of this activity is tracked under item NERC-97-01.	TFCO	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 CP-7 Working Group is developing an Enhanced NPCC Reliability Assessment Program (ENRAP) to address compliance. A proposed scope for the NPCC Compliance Enforcement Working Group will be presented at the June 26, 1998 RCC meeting.	RCC	1998/06/26

**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-96-08	A group should be formed to review and improve the existing dispute resolution process.	The NPCC Executive Committee approved a revised Alternative Dispute Resolution Policy for NPCC at its December 11, 1997 meeting.	Exec. Comm.	Complete
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 is still awaiting FERC's ruling on its ISO filing, and New Brunswick has opened its system to through and out transfers.	TFCO	1998/07/09
NERC-96-10	Review of NERC/DAWG Report on 1995 System Disturbances	The Task Force on System Protection (TFSP) has recommended 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. The Drafts have undergone concurrent task force review as well as "NPCC Open Process Review." They are being submitted to the RCC for approval at the June 26, 1998 meeting.	TFSP	1998/06/26
NERC-97-01	Review of NERC Planning Standards and revised Operating Policies to assess and evaluate them against the existing NPCC Reliability Assessment Program.	The CP-7 Working Group has completed its evaluation of the NPCC Criteria, Guides and Procedures vis a vis the new NERC Planning Standards and revised NERC Operating Policies. New or revised NPCC Documents are being developed to insure consistency between the NERC and NPCC Documents. A presentation on the status of the Working Group's efforts will be presented at the June 26, 1998 RCC meeting.	TFCP	1998/06/26
NPCC-96-04	Status of Hydro Quebec System Enhancements.	The Hydro-Québec plan to ensure full compliance with NPCC Criteria was approved by the NPCC Executive Committee on November 6, 1997. The plan has been implemented and as of May 1, 1998, HQ is in full compliance with all NPCC Criteria.	TFCO	Complete

**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-97-02	TFCO requests that the Control Performance Working Group (CO-1) investigate each Area's preparedness towards implementing CPS1 and CPS2 and its monitoring on the EMS system, and report this status back to TFCO at it's July 17-18, 1997, meeting.	Monitoring of CPS1 and CPS2 was implemented by all Areas as of March 1998.	TFCO	Complete
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). Next year's survey will be discussed at the September 1998 TFSP meeting.	TFSP	1998/09/23
NPCC-97-05	Utilities should have a plan for initial and continuing training of those responsible for operating and maintaining electricity systems.	At the TFCO meeting of March 25 and 26, 1998, the Working Group on Dispatcher Training (CO - 2) presented a CO-2 training seminar agenda, which was accepted by the TFCO with minor modifications. The CO-2 working group presented an action plan to the TFCO at its May, 1998 meeting to enhance seminar involvement. TFCO accepted the plan's direction and requested the working group to further develop the costing and participation methodologies that would be reviewed at the July, 1998 TFCO meeting.	TFCO	1998/07/09
NPCC-97-07	System planners and operators need to work together during the design of new facilities and modification of existing facilities.	Members of SS-38 discussed attending all CO-2 seminars at the March 2-3, 1998 meeting. It was the consensus of the group that SS-38 representative will attend CO-2 seminars as required.	TFSS	Complete
NPCC-97-09	Number and identity of Security Coordinators needed within NPCC.	Based on the SPWG's recommendation to the TFCO it has been decided that NPCC will have four Security Coordinators: Hydro-Quebec, ISO New England, New York Power Pool (to become NY ISO), and Ontario Hydro.	TFCO	Complete

**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-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.	TFCO	1998/07/09
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 TFCCO. A final report and testing procedure is due in December, 1998.	TFCCO	1998/07/09
NPCC-97-16	Address challenges presented by year 2000 computer problems and how they relate to system security.	The TFEMT, at its May, 1998 meeting, reviewed progress made by the individual Areas in their year 2000 reviews. The TFEMT informed TFCCO of any lessons learned from anticipated or unexpected problems encountered that may have an inter-area impact (SPS, HVdc Controls, Protection Systems). An Area review status report was delivered by TFEMT to TFCCO in May of 1998. Y2K is to be discussed by the RCC at its meeting of June 26, 1998.	TFEMT	1998/06/26
NPCC-98-01	1998 Ice Storm Report	A final coordinated Area report on the NPCC ice storm of January 1998, will be presented to the RCC at its meeting of June 26, 1998.	TFCCO	1998/06/26
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" will be reviewed by the RCC at its meeting of June 26, 1998.	RCC	1998/06/26
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 will be reviewed by the RCC at its meeting of June 26, 1998.	RCC	1998/06/26

**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-98-04	Recommend to the TFCO several cost sharing methodologies on how the ISN may be funded on the NERC level and within NPCC.	The TFEMT submitted an ISN estimated annual cost to the TFCO prior to the May TFCO meeting. Also, he TFCO accepted the TFEMT's recommendation that the ISN be paid out of the NPCC budget.	TFEMT	Complete
NPCC-98-05	TFEMT will investigate NPCC ICCP/ISN implementation feasibility for the summer of 1998.	TFEMT discussed NPCC ICCP/ISN implementation feasibility for the summer of 1998 at its February, 1998 meeting and adopted a two stage approach. OH and NYPP will work to implement data sharing with Michigan in stage one and complete the remaining data sharing implementations in stage two. At its May 20-21, 1998 meeting the TFCO requested the TFEMT to develop an IDEC to ICCP migration plan.	TFEMT	1998/09/24
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.	Y2K is to be discussed by the RCC at its meeting of June 26, 1998.	TFEMT	1998/06/26

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.