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**RCC Meeting  
June 29, 1999  
Agenda Item 8.2**

June 21, 1999

Members, Reliability Coordinating Committee  
And  
Messrs.: Charles J. Durkin, Jr.  
Robert A. Hiney  
Edward A. Schwerdt

**Re: NPCC Reliability Assessment Program Status Report - June 99**

Members:

Attached for your information is the June 1999 NPCC Reliability Assessment Program (NRAP) Status Report.

Very truly yours,

*Jorn C. Haahr*

Jorn C. Haahr  
Senior Engineer



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**RCC Meeting  
June 29, 1999  
Agenda Item 8.2**

**Northeast Power Coordinating Council  
Reliability Assessment Program**

**STATUS REPORT**

**June 1999**

Distributed to:

Members, Reliability Coordinating Committee  
Members, Compliance Monitoring and Assessment Subcommittee  
Members, Task Force on System Studies  
Members, Task Force on System Protection  
Members, Task Force on Coordination of Planning  
Members, Task Force on Coordination of Operation  
Members, Task Force on Energy Management Technology  
and  
Mr. Charles J. Durkin, Jr.  
Mr. Robert A. Hiney  
Mr. Edward A. Schwerdt  
Ms. Jennifer Budd



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## **APPENDICES**

- A) Budget Summary**
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- C) Goals and Responsibilities**

## HIGHLIGHTS

### ITEM NUMBER

#### Task Force on Coordination of Operation

##### **1-20)     *Restructuring of NPCC Documents Related to System Operation***

The restructuring of NPCC Documents related to System Operation currently underway will be considered at the June 23-23, 1999 TFCO meeting and the June 29, 1999 RCC meeting.

#### Task Force on Coordination of Planning

##### **42)        The New York Area Resource Adequacy Review**

At the June 29, 1999 meeting, the RCC will consider the New York Area Resource Adequacy Review, which was presented to the TFCP at its May 12, 1999 meeting, and subsequently approved by electronic mail.

##### **42)        The Hydro-Québec Area Resource Adequacy Review**

At the June 29, 1999 meeting, the RCC will consider the Hydro-Québec Area Resource Adequacy Review, which was presented and approved by the TFCP at its May 12, 1999 meeting.

#### Task Force on System Protection

##### **65)        System Protection – Minimum Maintenance Compliance Survey**

The annual survey for compliance with the *Maintenance Criteria for Bulk Power System Protection* (Document A-4) has been submitted through CMAS to the RCC for consideration at the June 29, 1999 meeting.

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

The annual survey for compliance with the underfrequency load shedding requirements of §4.6 of the *Emergency Operation Criteria* (Document A-3) as of December 31, 1998 has been submitted through CMAS to the RCC for consideration at the June 29, 1999 meeting.

##### **67)        Special Protection System List**

The 1999 NPCC Special Protection System List has been submitted through CMAS to the RCC for consideration at the June 29, 1999 meeting.

## HIGHLIGHTS - continued

### Task Force on System Studies

#### 84) Review of Dynamic Analyses Recording Devices

Surveys of recording devices used to capture power system dynamic phenomena as well as fault recording and sequence of event recording capabilities (performed by the TFSP) have been summarized in a report by the SS-38 Working Group. The report was approved by the TFSS at the June 3-4, 1999 meeting.

#### 86) Working Group on Inter-Area Dynamic Analysis

The SS-38 Working Group has completed the Y2K studies and a report, which was approved by the TFSS at the June 3-4, 1999 meeting.

### Task Force on Energy Management Technology

#### 108) Y2K Ad Hoc Working Group

A status report on the Y2K Ad Hoc Working Group activities will be presented at the June 29, 1999 RCC meeting.

### **NPCC Open Review Process**

As of June 21, 1999 a total of 8 drafts of NPCC Documents are posted for Open Process Review on the NPCC Home Page. Only two of these documents are open for comments at the moment as shown in the *NPCC Open Process Document Status* on the Home Page <<http://www.npcc.org/scripts/OpenStat.pl>>.

### **NPCC Recommendation Tracking Database**

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

**NPCC RELIABILITY ASSESSMENT PROGRAM  
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**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Documents**

1)A-3	Emergency Operation Criteria	<b>Description:</b> 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.	<b>Latest Version:</b> January 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> January 2002
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**Status/ Comments:** NPCC Document A - 3, Emergency Operation Criteria, was approved by the NPCC Full Members as a criterion in January of 1999. Also reference items 10, 18, 19 and 23.

2)A-6	Operating Reserve Criteria	<b>Description:</b> Objectives, principles and requirements are presented that govern the amount, availability and distribution of operation reserve.	<b>Latest Version:</b> September 1998 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> September 2001
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**Status/ Comments:** NPCC Document A - 6, Operating Reserve Criteria, was approved by the NPCC Full Members in September of 1998. Also reference items 13, 18 and 27.

3)B-2	Control Performance Guide During Normal Conditions	<b>Description:</b> Standards are established with which the NPCC Areas and systems within the Areas may measure control performance.	<b>Latest Version:</b> March 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> March 2002
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**Status/ Comments:** NPCC Document B - 2, Control Performance Guide During Normal Conditions, was approved by the RCC meeting of March 2, 1999. Also reference items 12 and 26.

**NPCC RELIABILITY ASSESSMENT PROGRAM  
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**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Documents**

4)B-3	Guidelines for Inter-AREA Voltage Control	<b>Description:</b> 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.	<b>Latest Version:</b> November 6, 1997 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> November 2000
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**Status/ Comments:** Also reference items 9 and 22.

5)B-9	Guide for Rating Generating Capability	<b>Description:</b> Standards for rating and verifying net generating capability are established.	<b>Latest Version:</b> November 1998 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> November 2001
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**Status/ Comments:** NPCC Document B - 9, Guide for Rating Generating Capability, was approved as an NPCC Guideline by the Reliability Coordinating Committee at its meeting of November 5, 1998. Also reference items 11 and 25.

6)B-13	Guidel for Reporting System Disturbances.	<b>Description:</b> This document establishes requirements and guidelines for reporting the details of a system disturbance to enable assessments and reviews of those disturbances which impact a significant part of one Area or which have inter - Area implications.	<b>Latest Version:</b> June 25, 1997 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> July 1999
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**Status/ Comments:** NPCC Document B-13, Guide for Reporting System Disturbances, has been submitted to the NPCC Open Process. Comments are being received through July 1, 1999.



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**Documents**

- |   |   |  |  |
|---|---|--|--|
| 8)C-3   | Procedures for Communications During Emergencies                    | <b>Description:</b> These Procedures direct NPCC's implementation of the Eastern Interconnection Hotline. The Eastern Interconnection Hotline is an emergency telecommunications network initiated through a preset conference call that interconnects one key Regional coordination center, staffed continuously, or a major utility control center serving the role of coordinator for the Region, in each Region of the NERC Eastern Interconnection. The North Texas Security Center in ERCOT is connected to the calls as well. | <b>Latest Version:</b> March 1999<br><b>Frequency of Reviews:</b> 1 Year<br><b>Next Review Date:</b> March 2000      |
| <b>Status/ Comments:</b> NPCC Document C - 3, Procedures for Communications During Emergencies, following its Open Process review, was approved by the Task Force on Coordination of Operation at its meeting of March 3 and 4, 1999. Reference also item 16. |   |  |  |
| 9)C-4   | Monitoring Procedures for Guidelines for Inter-AREA Voltage Control | <b>Description:</b> 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.  | <b>Latest Version:</b> March 25, 1998<br><b>Frequency of Reviews:</b> 3 Years<br><b>Next Review Date:</b> March 2001 |
| <b>Status/ Comments:</b> Also reference items 4 and 22.   |   |  |  |
| 10)C-5  | Monitoring Procedures for Emergency Operation Criteria              | <b>Description:</b> Procedures are established for the Task Force on Coordination of Operation's monitoring and reporting of conformance with NPCC's Emergency Operation Criteria.   | <b>Latest Version:</b> May 15, 1997<br><b>Frequency of Reviews:</b> 3 Years<br><b>Next Review Date:</b> January 2002 |
| <b>Status/ Comments:</b> Also reference items 1, 23 and 29.   |   |  |  |

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**Documents**

11)C-7	Monitoring Procedures for Guide for Rating Generating Capability	<b>Description:</b> 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.	<b>Latest Version:</b> March 25, 1998 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> March 2001
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**Status/ Comments:** Also reference items 5 and 25.

12)C-8	Monitoring Procedures for Control Performance Guide During Normal Conditions	<b>Description:</b> 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.	<b>Latest Version:</b> March 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> January 2002
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**Status/ Comments:** Also reference items 3 and 26.

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

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**Documents**

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

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

16)C-13	Operational Planning Coordination	<b>Description:</b> 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.	<b>Latest Version:</b> March 15, 1997 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> March 2000
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**Status/ Comments:** Reference also items 8 and 28.

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**Documents**

17)C-15	Procedures for Solar Magnetic Disturbances on Electrical Power Systems	<b>Description:</b> Procedures are established providing for the reporting channels and information available to the operator during solar alerts and suggesting measures that may be taken to mitigate the impact of a solar magnetic disturbance.	<b>Latest Version:</b> March 25, 1998 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> March 2001
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**Status/ Comments:**

18)C-19	Procedures During Shortages of Operating Reserve	<b>Description:</b> 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.	<b>Latest Version:</b> July 18, 1995 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> June 22-23, 1999
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**Status/ Comments:** The TFCO directed the Working Group CO-8 to further review a revised draft of C-19 for its meeting of June 22 and 23, 1999. Also reference items 1 and 2.

19)C-20	Procedures During Abnormal Operating Conditions	<b>Description:</b> This Procedure complements the Emergency Operation Criteria by establishing specific instructions for the System Operator during emergency conditions in an NPCC Area or Areas.	<b>Latest Version:</b> March 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> March 2002
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**Status/ Comments:** Also reference item 1.

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**Documents**

20)C-21	Monitoring Procedures for Conformance with Normal and Emergency Transfer Limits	<b>Description:</b> 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.	<b>Latest Version:</b> January 21, 1997 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> January 2000
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**Status/ Comments:** Also reference items 24 and 38.

21)	Task Force Scope	<b>Description:</b> The overall charge to the TFCO, together with the scope of activities, is given to the Task Force through its scope.	<b>Latest Version:</b> May 7, 1996 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> June 29, 1999
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**Status/ Comments:** The TFCO submitted its proposed draft scope for consideration by the RCC at its meeting of June 29, 1999.

**Surveys/Reviews**

22)	Survey on conformance with the Guidelines for Inter-AREA Voltage Control	<b>Description:</b> 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.	<b>Latest Version:</b> January 1997 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> January 2000
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**Status/ Comments:** Also reference items 4 and 9.

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**Surveys/Reviews**

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

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

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

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

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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**Surveys/Reviews**

26) Survey on conformance with the Control Performance Guide During Normal Conditions      **Description:** The Task Force on Coordination of Operation reports annually to the Reliability Coordinating Committee on the control performance of the Areas as demonstrated by conformance with the CPS1 and CPS2 standards as presented in the Monitoring Procedure C-8.      **Latest Version:** March 1999      **Frequency of Reviews:** See Status / Comments      **Next Review Date:** June 22-23, 1999

**Status/ Comments:** The NPCC Areas have migrated from the A1 and A2 performance criteria to the NERC Control Performance Standard 1 (CPS-1) and Control Performance Standard 2 (CPS-2). However, the TFCO has requested the Control Performance Working Group (CO-1) to continue monitoring criteria A1 and A2 performance on a monthly basis. Also reference items 3 and 12.

At the RCC meeting of November 5, 1998, the RCC accepted the NYPP plan for return to compliance with CPS-2 and noted full compliance by NYPP since its implementation. The current status will be reviewed at the June 22-23, 1999 TFCO meeting.

27) Survey on conformance with the Operating Reserve Criteria      **Description:** The Task Force on Coordination of Operation reports annually to the Reliability Coordinating Committee on the conformance of the Areas with the Operating Reserve Criteria as demonstrated by surveying the ability of the Areas to return to pre-contingency conditions within ten minutes of a defined reportable event as outlined in the Monitoring Procedure C-9.      **Latest Version:** June 1998      **Frequency of Reviews:** 1 Year      **Next Review Date:** June 22-23, 1999

**Status/ Comments:** The current status will be reviewed at the June 22-23, 1999 TFCO meeting. 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:** June 22-23, 1999

**Status/ Comments:** The current status will be reviewed at the June 22-23, 1999 TFCO meeting. Also reference item 16.

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**Surveys/Reviews**

29)	Black Start Survey	<b>Description:</b> This is a survey of station emergency power start-up facilities.	<b>Latest Version:</b> April 1995 <b>Frequency of Reviews:</b> 3 Year <b>Next Review Date:</b> June 22-23, 1999
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**Status/ Comments:** The Task Force on Coordination of Operation maintains the survey of station emergency power start-up facilities through NPCC Document C-5, Monitoring Procedures for Emergency Operation Criteria. The TFCO and the Task Force on Energy Management Technology have established a joint working group to identify all such facilities (communications, transmission, computer control) critical to the restoration of the interconnected systems and to develop criteria through which a definitive list of such critical facilities may be established. Reference item 107.

A final report was released in December of 1998 and initially reviewed by the TFCO at its meeting of January 12 and 13, 1999; following suggested comments, the report was returned to the TFCO for approval at its meeting of March 3 and 4, 1999. The current status will be reviewed at the June 22-23, 1999 TFCO meeting. Reference also items 10 and 23.

**Working Groups/Ad Hoc Assignments**

30)CO-1	Control Performance	<b>Assignment:</b> 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.	<b>1999 Budget:</b> \$16,250 <b>Expense to Date:</b> \$650
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**Status/ Comments:** The Control Performance Working Group (CO-1) has concluded the migration of the NPCC Areas from compliance with the former A1 and A2 control performance criteria to the NERC Control Performance Standard 1(CPS-1) and NERC Control Performance Standard 2 CPS-2).

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



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**Working Groups/Ad Hoc Assignments**

31) CO-2	Dispatcher Training	<b>Assignment:</b> 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.	<b>1999 Budget:</b>	\$24,150
			<b>Expense to Date:</b>	\$4,910

**Status/ Comments:** The Task Force on Coordination of Operation proposed the coordination of the Working Groups CO - 2 and CO - 8 to better direct and enhance the program contents of the semiannual dispatcher training seminar. Revised scopes and procedures for the System Operations Managers Working Group and the Working Group on Dispatcher Training, each scope adding the respective CO - 2 and CO - 8 alignment to its charges, were approved by the Reliability Coordinating Committee at its meeting of November 5, 1998. The seminar conducted in May 1999 continued to demonstrate improved attendance and participation.

32) CO-7	Operation Review Team	<b>Assignment:</b> To enhance the relationship between the control room personnel and NPCC, and to insure a continued understanding and effective implementation of the criteria and guides.	<b>1999 Budget:</b>	\$40,000
			<b>Expense to Date:</b>	\$1,950

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

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**Working Groups/Ad Hoc Assignments**

33) CO-8	System Operations Managers Working Group	<b>Assignment:</b> Provide a forum for the Managers of the NPCC control centers to identify and discuss security concerns in the operation of the interconnected bulk power supply system, and specific concerns related to the integration of operation between and among the evolving ISOs. The System Operations Managers Working Group will also assist the Task Force on Coordination of Operation in their work on issues related to system security and the operation of the ISOs, and provide advice to the TFCO, as requested.	<b>1999 Budget:</b> \$25,000 <b>Expense to Date:</b> \$3,000
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**Status/ Comments:** The Task Force on Coordination of Operation proposed the coordination of the Working Groups CO - 2 and CO - 8 to better direct and enhance the program contents of the semiannual dispatcher training seminar. Revised scopes and procedures for the System Operations Managers Working Group and the Working Group on Dispatcher Training, each scope adding the respective CO - 2 and CO - 8 alignment to its charges, were approved by the Reliability Coordinating Committee at its meeting of November 5, 1998. The autumn seminar of 1998, the first such seminar reflecting this consolidation, demonstrated an improved turnout and participation, and the seminar of May 1999 demonstrated further improvement.

The Working Group CO-8 is coordinating the review of the California disturbance of December 1998.

35)	Lake Erie Circulation Working Group (LECWG)	<b>Assignment:</b> 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.	<b>1999 Budget:</b> \$0 <b>Expense to Date:</b> \$3,250
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**Status/ Comments:** Work has been completed on the development of distribution factors and internal dispatch procedures to support the transfer curtailments outlined in the Lake Erie Security Process.

The LEER was filed with the FERC on March 1, 1999, and conditionally approved on May 12, pending further clarification that was filed June 1, 1999.

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**Working Groups/Ad Hoc Assignments**

36) NPCC Ad Hoc Working Group on ATC      **Assignment:** Formulate NPCC's responses to the updated charges from the NERC Engineering Committee (EC) to the NERC ATC Implementation Working Group. These include: the development of an ATC compliance review schedule; the coordination of intra-/inter-regional ATC postings; the development of data exchange guidelines; the assessment of the commercial viability of ATC calculations; and the continued review of the TRM/CBM parameters

**1999 Budget:**                    \$0  
**Expense to Date:**                \$300

**Status/ Comments:** The NPCC Ad Hoc ATC Working Group is addressing ATC issues related to NPCC and will report its activities to TFCO.

107) Joint Working Group on the Identification of Critical Facilities for Restoration      **Assignment** Identification of the key facilities required for system restoration purposes and development of appropriate test procedures for the key facilities and their critical components in order to ensure their suitable operation in the event of a system disturbance and possible loss of AC station service power supply.

**1999 Budget:**                    \$0  
**Expense to Date:**                \$0  
**Completion Date:**              June 22-23, 1999

**Status/ Comments:** The first phase of the effort, the establishment of criteria that determine those facilities critical to system restoration, has been completed. Criteria for carrying out the testing of these critical facilities are being finalized. A final report was released in December of 1998 and initially reviewed by the TFCO at its meeting of January 12 and 13, 1999; following suggested comments, the report was returned to the TFCO for approval at its meeting of March 3 and 4, 1999. The current status will be reviewed at the June 22-23, 1999 TFCO meeting. Reference also items 10 and 23.

**NPCC RELIABILITY ASSESSMENT PROGRAM  
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**TASK FORCE ON COORDINATION OF PLANNING**

**PROGRAM ITEM NUMBER**

**Documents**

37)A-1	Criteria for Review and Approval of Documents	<b>Description:</b> Criteria outlines the review and approval procedures for all NPCC and NERC documents and contains the NPCC Glossary.	<b>Latest Version:</b> March 1997 <b>Frequency of Reviews:</b> 4 Years <b>Next Review Date:</b> August 1999
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**Status/ Comments:** The Task Force on Coordination of Planning is reviewing this document and is considering incorporating the NPCC Reliability Compliance Program (RCP) description and the NPCC Open Process description into a future version of the document. This will be decided upon when the RCP is finalized. Further discussion will take place at upcoming TFCP meetings.

38)A-2	Basic Criteria for Design and Operation of Interconnected Power Systems	<b>Description:</b> Criteria are established for proper design and operation concerning Resource Adequacy and Transmission Capability.	<b>Latest Version:</b> August 1995 <b>Frequency of Reviews:</b> 4 Years <b>Next Review Date:</b> August 1999
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**Status/ Comments:** TFCP has deferred discussion of this document until the completion of the efforts underway to reformat NPCC Criteria documentation to incorporate the NERC Planning and Operating Standards.

39)B-8	Guidelines for Area Review of Resource Adequacy	<b>Description:</b> 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".	<b>Latest Version:</b> February 14, 1996 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> August 1999
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**Status/ Comments:** The TFCP was presented a revised version of the document at its May 12, 1999 meeting. Final comments were due to be made to the revised document and template by May 28, 1999. Once all comments have been received a draft version of the document will be submitted to the NPCC Open Process. Also being developed, concurrently with the revised document, is a compliance template to be used in future Area reviews. This template will also be posted to the NPCC Open Process when finalized by TFCP.

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**Documents**

40)C-16	Procedure for NPCC Review of New or Modified Bulk Power System Special Protection Systems	<b>Description:</b> This document outlines procedures for reporting new or modified Bulk Power System Special Protection Systems.	<b>Latest Version:</b> September 28, 1995 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> August 1999
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**Status/ Comments:** The document was posted to the NPCC Open Process on June 21, 1999.

41)	Task Force Scope	<b>Description:</b> The Task Force on Coordination of Planning scope of activities.	<b>Latest Version:</b> February 26, 1997 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> August 1999
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**Status/ Comments:** TFCP deferred discussion of its Task Force Scope until its next meeting. This will allow the Task Force to revise its scope in accordance with the developments of NPCC RCP program.

**Surveys/Reviews**

42)	Resource Adequacy — Coordination and Review of Area Studies	<b>Description:</b> Review of the New York Area resource adequacy study.	<b>Latest Version:</b> February 1996 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> June 29, 1999
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**Status/ Comments:** The New York Area Resource Adequacy Study was presented to the TFCP at their May 12, 1999 meeting. Additional comments were requested by June 11, 1999. Comments were received and incorporated and the review will be presented for approval at the June 29, 1999 RCC meeting.

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**Surveys/Reviews**

43)	Resource Adequacy — Coordination and Review of Area Studies	<b>Description:</b> Review of the New England Area resource adequacy study.	<b>Latest Version:</b> June 1997 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> June 2000
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**Status/ Comments:**

44)	Resource Adequacy — Coordination and Review of Area Studies	<b>Description:</b> Review of the Ontario Area resource adequacy study.	<b>Latest Version:</b> June 1997 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> June 2000
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**Status/ Comments:**

45)	Resource Adequacy — Coordination and Review of Area Studies	<b>Description:</b> Review of the Québec Area resource adequacy study.	<b>Latest Version:</b> November 8, 1995 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> June 29, 1999
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**Status/ Comments:** The Hydro Quebec Area Review of Resource Adequacy was presented and approved by TFCP at their May 12, 1999 meeting. It will be presented for approval at the June 29, 1999 RCC meeting.

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Surveys/Reviews

46) Resource Adequacy — **Description:** Review of the Maritime Area resource adequacy study. **Latest Version:** March 1999  
Coordination and Review of Area **Frequency of Reviews:** 3 Years  
Studies **Next Review Date:** March 2002

**Status/ Comments:**

47) NPCC Area Transmission Review **Description:** Review of the New York Area future transmission **Latest Version:** February 1999  
plans (5-7 years out) **Frequency of Reviews:** 1 Year  
**Next Review Date:** February 2000

**Status/ Comments:** The Task Force on Coordination of Planning approved the 1998 New York Area Interim Transmission Review at the February 3, 1999 TFCP meeting. It is available on the NPCC web site under TFSS.

48) NPCC Area Transmission Review **Description:** Review of the New England Area future transmission **Latest Version:** March, 1999  
plans (5-7 years out) **Frequency of Reviews:** 1 Year  
**Next Review Date:** March 2000

**Status/ Comments:** The New England Comprehensive Area Transmission Review was approved by the RCC at their March 2, 1999 meeting.

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**Surveys/Reviews**

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

**Status/ Comments:**

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

**Status/ Comments:**

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

**Status/ Comments:** The Maritimes Area Interim Reviews (Nova Scotia and New Brunswick) were approved by the TFSS at their June 3-4, 1999 meeting and will be forwarded to TFCP for their review and approval.



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**Working Groups/Ad Hoc Assignments**

52)CP-5	Working Group on the Review of Interconnection Assistance Benefits	<b>Assignment</b> Review the overall reliability benefits of the interconnections, for each Area, within the NPCC Region	<b>1999 Budget:</b> \$50,000
			<b>Expense to Date:</b> \$8,100
			<b>Completion Date:</b> June 29, 1999

**Status/ Comments:** The CP-5 working group final report will be presented to the RCC at their June 29, 1999 meeting.

53)CP-7	Working Group on the Review of NERC Planning Standards	<b>Assignment</b> 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.	<b>1999 Budget:</b> \$35,000
			<b>Expense to Date:</b> \$20,650
			<b>Completion Date:</b> Ongoing

**Status/ Comments:** The CP-7 Working Group is awaiting possible reassignment having completed its initial charge.

54)EMWG	Environmental Matters Working Group	<b>Assignment</b> 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.	<b>1999 Budget:</b> \$0
			<b>Expense to Date:</b> \$0
			<b>Completion Date:</b> Ongoing

**Status/ Comments:**

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**Working Groups/Ad Hoc Assignments**

55)LCFWG Load, Capacity & Fuels Working Group	<b>Assignment</b> 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.	<b>1999 Budget:</b> \$5,000 <b>Expense to Date:</b> \$0 <b>Completion Date:</b> 1) EIA-411 data: April 2000 2) NPCC Report: June 2000
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**Status/ Comments:** NPCC's part of the NERC/EIA-411 1999 data collection effort has been completed and all data was submitted to NERC in a timely manner. The 1999 NPCC Load, Capacity, Energy, Fuels and Transmission Report will be issued in electronic form only (an Adobe 3.0 file) for the first time this year.

56)JGWG Joint Glossary Working Group	<b>Assignment</b> To maintain the NPCC Glossary of Terms (Document A-7) and to expand the Glossary to include new terms as necessary.	<b>1999 Budget:</b> \$5,000 <b>Expense to Date:</b> \$0 <b>Next Review Date:</b> Ongoing
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**Status/ Comments:** Reference Item 112 below.

**Documents**

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

**NPCC RELIABILITY ASSESSMENT PROGRAM  
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**TASK FORCE ON SYSTEM PROTECTION**

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**Documents**

57)A-4	Maintenance Criteria for Bulk Power System Protection	<b>Description:</b> This document establishes the maintenance intervals and practices which should result in dependable and secure protection system operation.	<b>Latest Version:</b> September 1998 <b>Frequency of Reviews:</b> 3 years <b>Next Review Date:</b> September 2001
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**Status/ Comments:** Also reference items 69 and 70.

58)A-5	Bulk Power System Protection Criteria	<b>Description:</b> 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.	<b>Latest Version:</b> September 1998 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> September 2001
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**Status/ Comments:** Also reference item 69.

59)B-1	Guide for the Application of Autoreclosing to the Bulk Power System	<b>Description:</b> This document establishes guidelines for automatic reclosing to facilitate restoration of the system to normal following automatic tripping of transmission facilities.	<b>Latest Version:</b> March 2, 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> March 2002
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**Status/ Comments:** A revised Document B-1 was approved at the March 2, 1999 RCC meeting.

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**Documents**

60)B-6	Automatic Load Shedding Employing Underfrequency Threshold Relays	<b>Description:</b> This guideline establishes characteristics for underfrequency load shedding relays which are set using discrete or threshold frequency values.	<b>Latest Version:</b> November 25, 1983 <b>Frequency of Reviews:</b> 5 Years <b>Next Review Date:</b> None - discontinued
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**Status/ Comments:** The former Document B-6 has been merged into a completely revised Document B-7, Automatic Underfrequency Load Shedding Program Relaying Guideline. Reference Item 61 below.

61)B-7	Automatic Underfrequency Load Shedding Program Relaying Guideline	<b>Description:</b> This guideline establishes requirements for application and testing of underfrequency threshold relays that are necessary to accomplish the objectives of the NPCC automatic underfrequency load shedding program established in the Emergency Operation Criteria (Document A-3).	<b>Latest Version:</b> March 2, 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> March 2002
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**Status/ Comments:** The new Document B-7 that includes elements of the former Document B-6, was approved at the March 2, 1999 RCC meeting. Also reference items 1 and 60.

62)B-11	Special Protection System Guideline	<b>Description:</b> 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.	<b>Latest Version:</b> March 2, 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> March 2002
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**Status/ Comments:** A revised Document B-11 was approved at the March 2, 1999 RCC meeting.

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**Documents**

63)C-22 Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System  
**Description:** This procedure indicates how new facilities or modifications to existing facilities are to be presented to the TFSP in order to ascertain compliance with the principles of the Protection Criteria.  
**Latest Version:** April 14, 1999  
**Frequency of Reviews:** 3 Years  
**Next Review Date:** April 2002  
Formerly Document B-5  
**Status/ Comments:** The Document was posted for Open Process Review on February 22 and comments were received through April 8, 1999. Only a favorable comment was received, and the document will be distributed to the RCC and other holders of the NPCC Reference Manual.

64) Task Force Scope  
**Description:** This document outlines the Task Force on System Protection scope of activities.  
**Latest Version:** May 1996  
**Frequency of Reviews:** 3 Years  
**Next Review Date:** June 29, 1999  
**Status/ Comments:** A revised scope was approved by the TFSP at the April 13-14, 1999 meeting and has been submitted to the RCC for approval at the June 29, 1999 meeting.

**Surveys/Reviews**

65) Minimum Maintenance Compliance Survey  
**Description:** This report summarizes member system compliance with the Maintenance Criteria for Bulk Power System Protection (Document A-4).  
**Latest Version:** June 1998  
**Frequency of Reviews:** 1 Year  
**Next Review Date:** June 29, 1999  
**Status/ Comments:** The annual survey for compliance with the Maintenance Criteria for Bulk Power System Protection (Document A-4) for the period ending December 31, 1998 has been completed and has been submitted through the Compliance Monitoring and Assessment Subcommittee (CMAS) to the Reliability Coordinating Committee (RCC) for consideration at the June 29, 1999 meeting. The report has also been placed in the TFSP folder on the WWW NPCC Bulletin Board System (NBBS).

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**Surveys/Reviews**

66)	Survey of Compliance with the NPCC Underfrequency Load Shedding Program	<b>Description:</b> These reports summarize Area compliance with sections 4.6 and 4.9 of the "Emergency Operation Criteria" (Document A-3)	<b>Latest Version:</b> April 1998
			<b>Frequency of Reviews:</b> 1 Year
			<b>Next Review Date:</b> June 29, 1999

**Status/ Comments:** The annual surveys of compliance with sections 4.6 and 4.9 of the "Emergency Operation Criteria" (Document A-3) for the period ending December 31, 1998 were approved by the TFSP at the April 13-14, 1999 meeting. The survey of compliance with section 4.6 (load shedding) has been submitted through CMAS to the RCC for consideration at the June 29, 1999 meeting. The survey of compliance with section 4.9 (equivalent MW load shed) has been submitted through CMAS to the TFCO. The reports have been placed in the TFSP folder on the WWW NPCC Bulletin Board System (NBBS).

67)	Special Protection System List	<b>Description:</b> This document lists Special Protection Systems on the NPCC Bulk Power System.	<b>Latest Version:</b> April 1998
			<b>Frequency of Reviews:</b> 1 Year
			<b>Next Review Date:</b> June 29, 1999

**Status/ Comments:** The 1999 NPCC Special Protection System List has been approved by the TFSP and the TFSS. The List has been submitted through CMAS to the RCC for consideration at the June 29, 1999 meeting, and has also been placed in the TFSP folder on the WWW NPCC Bulletin Board System (NBBS).

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**Surveys/Reviews**

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|---|---|--|--------------------------------|--|
| 68)   | Review protection systems for proposed installations or existing installations undergoing substantial modifications | <b>Description:</b> Review, in accordance with the Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System (Document C-22) proposed protection systems, including special protection systems, for new major installations as well as existing installations undergoing substantial modifications, before such facilities are constructed or modified and report on the findings with respect to compliance with the NPCC Bulk Power System Protection Criteria (Document A-5). | <b>Latest Version:</b> Ongoing | <b>Frequency of Reviews:</b> As Required |
| <b>Status/ Comments:</b> At its recent meetings, the TFSP discussed a number of protection system changes, including SPS installations and modifications.   |   |  |                                |  |
| 69)   | Review protection system performance following major system events or disturbances                                  | <b>Description:</b> 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.  | <b>Latest Version:</b> Ongoing | <b>Frequency of Reviews:</b> As Required |
| <b>Status/ Comments:</b> The NERC/DAWG Reports on 1996, 1997 and 1998 System Disturbances have not been issued yet. At its April 1999 meeting, the TFSP discussed system disturbances that have been reported to NPCC and NERC since the previous TFSP meeting. Also reference items 57 and 58. |   |  |                                |  |

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:** Deferred  
**Frequency of Reviews:** 3 years  
**Next Review Date:** September 2001

**Status/ Comments:** Based on a survey of a representative number of electromechanical, solid state and self-checking microprocessor based protection groups applied on the bulk power system within NPCC, the Task Force concluded at its January 20-21, 1999 meeting that it would be highly doubtful that a Markov analysis could justify an extension of the maintenance intervals specified in Table 1 of the Maintenance Criteria for Bulk Power System Protection (Document A-4). Hence, it was decided that the collection of data for the annual update of actual performance database should be deferred. The situation will again be reviewed at the next triennial review of the Maintenance Criteria (Document A-4). Also reference item 57.



**NPCC RELIABILITY ASSESSMENT PROGRAM  
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**TASK FORCE ON SYSTEM STUDIES**

**PROGRAM ITEM NUMBER**

**Documents**

71)B-4	Guidelines for NPCC Area Transmission Reviews	<b>Description:</b> 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."	<b>Latest Version:</b> August 7, 1996 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> January 2000
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**Status/ Comments:** The TFSS deferred the review of Document B-4 until January 2000 after Interim Document iB-4 has been field tested as part of the NERC Phase I Pilot Program.

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"	<b>Description:</b> 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.	<b>Latest Version:</b> June 26, 1998 <b>Frequency of Reviews:</b> 3 years <b>Next Review Date:</b> June 2001
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**Status/ Comments:**

73)C-18	Procedure for Testing and Analysis of Extreme Contingencies	<b>Description:</b> This document establishes a procedure for the testing and analysis of Extreme Contingencies.	<b>Latest Version:</b> January 1999 <b>Frequency of Reviews:</b> 3 years <b>Next Review Date:</b> January 2002
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**Status/ Comments:**

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**TASK FORCE ON SYSTEM STUDIES**

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**Documents**

74)C-25	Procedure to Collect Real Time Data for Inter-Area Dynamic Analysis	<b>Description:</b> 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.	<b>Latest Version:</b> February 1, 1996 <b>Frequency of Reviews:</b> 3 years <b>Next Review Date:</b> April 2000
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**Status/ Comments:** A final draft of interim document C-25 that addresses NPCC Conformance with NERC Planning Standards I.F has been forwarded to CP-7 and the NPCC Task Forces for comments. The interim document will be field tested during the 1999 pilot program and the final review will be conducted in April 2000.

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

**Surveys/Reviews**

76)	NPCC Area Transmission Review	<b>Description:</b> Review of New York Area future transmission plans (5-7 years out)	<b>Latest Version:</b> February 1999 <b>Frequency of Reviews:</b> 1 Year <b>Next Review Date:</b> February 2000
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**Status/ Comments:** The New York Area Interim Transmission Review was forwarded to the TFCP and approved at the February 3, 1999 TFCP meeting. It is available on the NPCC website under TFSS.

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**TASK FORCE ON SYSTEM STUDIES**

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**Surveys/Reviews**

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

**Status/ Comments:** New England's comprehensive review was approved by the RCC at the March 2, 1999 meeting. It is available on the NPCC website under TFSS.

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

**Status/ Comments:** The Ontario Area Interim Transmission Review was forwarded to the TFCP and approved at the December 2, 1998 TFCP meeting. It is available on the NPCC website under TFSS.

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

**Status/ Comments:** The Quebec Area Interim Review submission by Hydro Quebec was approved by the TFSS at its Sept. 23-24, 1998 meeting. It is available on the NPCC website under TFSS.

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**TASK FORCE ON SYSTEM STUDIES**

**PROGRAM ITEM NUMBER**

**Surveys/Reviews**

80)	NPCC Area Transmission Review	<b>Description:</b> Review of Maritime Area (New Brunswick and Nova Scotia) future transmission plans (5-7 years out)	<b>Latest Version:</b> June 1999
			<b>Frequency of Reviews:</b> 1 Year
			<b>Next Review Date:</b> June 2000

**Status/ Comments:** The Maritime Area Interim Review submission by Nova Scotia and New Brunswick were approved by the TFSS at its June 3-4 1999 meeting, and will be forwarded to the TFCP for final approval. The reviews are available on the NPCC website under TFSS.

81)	Adequacy of Automatic Load Shedding Programs	<b>Description:</b> Assessment of the adequacy and suitability of existing underfrequency load shedding settings.	<b>Latest Version:</b> February 1998
			<b>Frequency of Reviews:</b> 3 Years
			<b>Completion Date:</b> February 2001

**Status/ Comments:**

82)	Creation of Base Case Library	<b>Description:</b> On an annual basis, develop a library of solved load flow cases and associated dynamic data.	<b>Latest Version:</b> December 1998
		Note: The present assessment is being conducted by the SS-37 Working Group.	<b>Frequency of Reviews:</b> 1 Year
			<b>Completion Date:</b> November 1999

**Status/ Comments:** Eight load flow models will be assembled as part of the 1999 Base Case Development effort. These cases form the basis for the twelve models that will be submitted to the NERC MMWG. Also reference item 85.

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

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**TASK FORCE ON SYSTEM STUDIES**

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**Surveys/Reviews**

83)	Overall Transmission Reliability Study	<b>Description:</b> 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.	<b>Latest Version:</b> September 1997 <b>Frequency of Reviews:</b> 3 Years <b>Completion Date:</b> September 2000
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**Status/ Comments:**

84)	Review of Dynamic Analysis Recording Devices	<b>Description:</b> This review summarizes the characteristics of recording devices used to capture power system dynamic phenomena.	<b>Latest Version:</b> June 4, 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> June 2002
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**Status/ Comments:** The SS-38 Working Group has conducted a survey and collected the information on recording devices used to capture power system dynamic phenomena. This survey also includes result of a survey of Fault Recorder and Sequence of Events Recorder Capabilities performed by the TFSP. The survey and associated report were approved at the June 3-4, 1999 TFSS meeting. Also reference Item 86.

**Working Groups/Ad Hoc Assignments**

85) SS-37	Base Case Development	<b>Assignment:</b> On an annual basis, develop a library of solved load flow cases and associated dynamic data.	<b>1999 Budget:</b> \$15,000 <b>Expense to Date:</b> \$2,850 <b>Completion Date:</b> Ongoing
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**Status/ Comments:** TFSS approved at their June 3-4, 1999 meeting to request NPCC for additional funding for a sub-group of SS37 to convert User Written Models within NPCC to PSS/E Rev 25 and coordinate with PTI to incorporate these models in PSS/E. Dynamics Data for 1999 Light Load and 2003 was submitted to SDDWG in March 1999. Reference items 82, 101 and 105.

A Y2k load flow base case model and associated dynamic data for December 31, was also developed. This case was used for simulating Y2K contingencies.

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**TASK FORCE ON SYSTEM STUDIES**

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

86) SS-38	Working Group on Inter- Area Dynamic Analysis	<b>Assignment:</b> Assigned to analyze dynamic phenomena, which may affect interconnected system reliability, especially in the area of low frequency oscillations.	<b>1999 Budget:</b> \$25,000
			<b>Expense to Date:</b> \$8,050
			<b>Completion Date:</b> Ongoing

**Status/ Comments:** A final draft of Load Modeling Practices (SS38-8) has been forwarded to TFSS for comments.

The working group has completed the Y2K studies and a report. TFSS approved the report at their June 3-4, 1999 meeting. Also reference Item 84.

**NPCC RELIABILITY ASSESSMENT PROGRAM  
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**TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY**

**PROGRAM ITEM NUMBER**

**Documents**

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

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

**Surveys/Reviews**

89)	Review of the NERC Disturbance Analysis Working Group's report on "1996 System Disturbance."	<b>Description:</b> Review of on-line computer performance during system events or disturbances including all NERC regions.	<b>Latest Review:</b> February 1999 <b>Frequency of Reviews:</b> 1 Year <b>Next Review Date:</b> September 1999
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**Status/ Comments:** The Task force is currently awaiting the completion of the 1996, 1997 and 1998 NERC Disturbance Reports by the NERC/DAWG. These reports have not been distributed by NERC yet.

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**TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY**

**PROGRAM ITEM NUMBER**

**Surveys/Reviews**

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

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

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

**Status/ Comments:** Member system status reports were reviewed at the June 10-11, 1999 Task Force meeting. Such reviews include highlights of each system's Energy Management System status and planned system enhancements. A review of the actions currently underway within each Area towards year 2000 computer system transition preparations was also conducted. The Task Force monitors progress made by the individual Areas in year 2000 reviews and periodically provides the TFCO with status reports.

**Working Groups/Ad Hoc Assignments**

92) EMT-1	Energy Management Technology Workshop Working Group	<b>Assignment:</b> 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.	<b>1999 Budget:</b>	\$0
			<b>Expense to Date:</b>	\$0
			<b>Last Workshop:</b>	May 14-15, 1998
			<b>Next Workshop:</b>	See comments

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



**NPCC RELIABILITY ASSESSMENT PROGRAM  
STATUS REPORT**

**TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY**

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

- |     |   |   |   |
|-----|---|---|---|
| 94) | Correspondence with other regional and national groups associated with on-line computer systems | <b>Assignment:</b> Exchange of meeting minutes and other correspondence with representatives from other Regions. Also monitor IEEE and CIGRÉ efforts. | <b>Latest Review:</b> February 1998<br><b>Frequency of Reviews:</b> As Required |
|-----|---|---|---|

**Status/ Comments:** This is an ongoing effort to facilitate communications with other groups pursuing similar interests in order to enhance the knowledge of the Task Force on Energy Management Technology regarding current technologies. The majority of efforts in this area are currently being directed at participation in the NERC Data Exchange and Telecommunications Working Group efforts.

- |     |  |  |  |
|-----|--|--|--|
| 95) | Ad Hoc Working Group on Information Exchange | <b>Assignment:</b> Develop a document discussing communication channels, company contacts and coordination of outages. | <b>Latest Review:</b> June 1999<br><b>Frequency of Reviews:</b> As Required<br><b>Next Review Date:</b> September 1999 |
|-----|--|--|--|

**Status/ Comments:** The Ad Hoc Working Group on Information Exchange is currently preparing a collection of presentations related to communication or operating tools, 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 10-11, 1999 TFEMT meeting.

**NPCC RELIABILITY ASSESSMENT PROGRAM  
STATUS REPORT**

**TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY**

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

108)	Y2K Ad Hoc Working Group	<b>Assignment</b> Identify Y2K initiatives within NPCC to address threats to interconnected system security. Work closely with the NERC Y2K Coordination Task Force to ensure that all NPCC responsibilities and deliverables are met. Coordinate Y2K preparation and risk assessment efforts for NPCC and provide status reports to the NPCC TFEMT and other Task Forces indicating the preparation status and lessons learned.	<b>1999 Budget:</b> \$21,300 <b>Expense to Date:</b> \$13,100 <b>Expected Completion</b> Year 2000
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**Status/ Comments:** This Ad Hoc Working Group, which was formed in June 1998, works closely with NERC. Monthly surveys are sent through the region. Monthly status reports are generated by the working group and the most recent will be reviewed at the June 22-23, 1999 TFCO meeting. Periodic updates on the status of the Working Group's efforts are provided directly to the RCC.

**Documents**

109)	Task Force Scope	<b>Description:</b> This document outlines the Task Force on Energy Management Technology scope of activities.	<b>Latest Review</b> February 1996 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> September 1999
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**Status/ Comments:** The TFEMT initiated the review of its scope at the February 4-5, 1999 Task Force meeting. At the June 10-11 meeting it was agreed that a draft revised scope will be available by August 30, 1999.

**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 1999 Summer Interregional Transmission System Reliability Assessment was approved at the May 11, 1999 meeting of the Joint Interregional Review Committee. The report has been posted in the "Seasonal Assessments" folder on the NBBS. A study of the proposed phase shifters in the Ontario-Michigan interface from an interregional perspective is underway. Also reference item 97.

**Working Groups/Ad Hoc Assignments**

97) OSWG MEN Operating Studies Working Group

**Assignment:** The MEN Operating Studies Working Group, under the direction of the MEN Study Committee, conducts appraisals of the MAAC-ECAR-NPCC (MEN) interconnected systems for expected summer and winter periods.

**1999 Budget:** \$8,000

**Expense to Date:** \$2,650

**Completion Date:** November 1999

**Status/ Comments:** The results of the MEN 1999 Summer Assessment studies were submitted to the MEN Study Committee in a timely manner. Work on the VEM/MEM 1999/2000 winter base case has been initiated. The MEN 1999/2000 Winter Assessment studies will be completed in November 1999. 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:** August 2000

**Status/ Comments:** A Future Systems Working Group will be staffed to perform a study of 2003 summer conditions after the MEN 1999/2000 Winter Assessment studies have been completed. Also reference item 96.

**NPCC RELIABILITY ASSESSMENT PROGRAM  
STATUS REPORT**

**NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)**

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

99)RAS	Reliability Assessment Subcommittee	<b>Assignment:</b> 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.	<b>Completion Date:</b> November 1999
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**Status/ Comments:** A first draft has been developed for the Reliability Assessment Subcommittee's annual overview of North American reliability, Reliability Assessment 1999-2008. The NERC 1999 Summer Assessment was released on June 4, 1999, and the report has been posted on the NERC Home Page as well as in the "Seasonal Assessments" folder on the NBBS. The 1999/2000 Winter Assessment Report will be available in November 1999.

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

**NPCC RELIABILITY ASSESSMENT PROGRAM  
STATUS REPORT**

**NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)**

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

101)	MMWG Multiregional Modeling Working Group	<b>Assignment:</b> 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.	<b>1999 Budget:</b> \$12,000 <b>Expense to Date:</b> \$381 <b>Completion Date:</b> Ongoing
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**Status/ Comments:** In 1999, NERC MMWG will assemble twelve load flow models that will constitute the 1999 base case library. NPCC's input to the MMWG effort is provided by the NPCC staff from the cases developed by SS-37 Working Group on Base Case Development. Also reference item 85.

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

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

103)	Generating Availability Working Group	<b>Assignment:</b> 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)	<b>Completion Date:</b> 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 Working Group      **Assignment:** Serve as the electric utility industry's coordinator with the Department of Energy (DOE) and the Energy Information Administration (EIA) in negotiating the requirements for data submission to the DOE and EIA.      **Completion Date:** April 2000

**Status/ Comments:** The Working Group met with EIA representatives in April to discuss the NERC/EIA-411 1999 data collection effort. NPCC's data was submitted on schedule. The year 2000 data collection effort will be start in the fall and will be completed in April 2000.

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.      **1999 Budget:** \$15,000  
**Expense to Date:** \$0  
**Completion Date:** Ongoing

**Status/ Comments:** Ontario Hydro Service Corporation, acting as a contractor for the SDDWG, is assembling dynamic data for 1999 Light Load and 2003 Summer peak conditions. The NPCC SS-37 working group on Base Case Development provided the NPCC data to the SDDWG in March 1999. The two dynamic models will be released by NERC in the fall of 1999. Also reference item 85.

The NERC SDDWG provided dynamics data for the three Y2K load flow models, that the MMWG has assembled based on four December 31, 1998/January 1, 1999 snapshots of actual operating conditions. The cases are available to the Regions for Y2K simulations. Also reference items 82 and 101.

**NPCC RELIABILITY ASSESSMENT PROGRAM  
STATUS REPORT**

**NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)**

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

106)	ATC Implementation Working Group	<b>Assignment:</b> Review the procedures developed by the Regions (or sub-regions) for determining ATC to ensure that the procedures are in concert with the ATC Principles in NERC's June 1996 Available Transfer Capability Definitions and Determination report.	<b>Completion Date:</b> Ongoing
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**Status/ Comments:** The Working Group presented its final report on ATC Methodologies to the March EC. Each Region is developing a plan to address the deficiencies cited in the report. The NPCC ATC WG is responsible for developing and implementing this plan to address noted deficiencies.

110)CRWG	Compliance Review Working Group	<b>Assignment</b> Develop NERC compliance procedures for those Planning Standards/Measurements that are in the NERC Pilot Compliance Program. Review/ develop Compliance Reports for the NERC Pilot Program as required. Apply Sanctions Matrix, for the pilot program, to those Planning Standards/Measurements that NERC has compliance monitoring and assessment responsibility.	<b>Completion Date:</b> On Going
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**Status/ Comments:** The CRWG held a meeting on June 9-10, 1999. Among the topics discussed were: Regional updates on plans to meet the requirements of the NERC Pilot Compliance Program; Discussion of measurements to be included in Phase II of the Pilot Program. CRWG also met jointly with the PSS to discuss some interpretation issues concerning Phase II measurements. CRWG also met jointly with the CS to discuss Phase II of the Pilot Program, rollout sessions for Phase II and Region/NERC Staffing requirements for the Compliance Program.

**NPCC RELIABILITY ASSESSMENT PROGRAM  
STATUS REPORT**

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

111)CS	Compliance Subcommittee	<b>Assignment</b> Develop templates for measurements contained in NERC Operating Policies; Monitor compliance to those operating measurements in the 1999 NERC Compliance Pilot Program and prepare necessary documentation of Regional compliance/non-compliance as required.	<b>Completion Date:</b> On Going
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**Status/ Comments:** The CS met on June 10-11, 1999. CS met jointly with CRWG for part of the meeting.(See Item 110). In addition the CS received status reports on the development of compliance templates for the NERC Operating Policies. Various NERC Subcommittees are reviewing the draft templates with the desire to consolidate the number of templates. The revised templates are to be submitted to the NERC Due Process by August 15, 1999. In August CS expects to select those Operating Standard templates which will be included in Phase II of the NERC Pilot Compliance Program.



**NPCC RELIABILITY ASSESSMENT PROGRAM  
STATUS REPORT**

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**NPCC RELIABILITY ASSESSMENT PROGRAM**

**STATUS REPORT  
BUDGET SUMMARY**

<b>ITEM NUMBER</b>	<b>PROJECT DESCRIPTION</b>	<b>1999 BUDGET</b>	<b>1999 EXPENSE</b>
30	CO-1 Control Performance Working Group	\$16,250	\$650
31	CO-2 Dispatcher Training Working Group	\$24,150	\$4,910
32	CO-7 Operational Review Working Group	\$40,000	\$1,950
33	CO-8 System Operating Managers Working Group	\$25,000	\$3,000
35	LECWG Lake Erie Circulation Working Group	\$0	\$3,250
36	ATC NPCC Ad Hoc WG on ATC	\$0	\$300
52	CP-5 Interconnection Assistance Benefits Working Group	\$50,000	\$8,100
53	CP-7 NERC Planning Standards Review Working Group	\$35,000	\$20,650
55	LCFWG Load, Capacity & Fuels Working Group	\$5,000	\$0
56	JGWG Joint Glossary Working Group	\$5,000	\$0
85	SS-37 Base Case Development	\$15,000	\$2,850
86	SS-38 Reliability Review of I	\$25,000	\$8,050
97	MEN MAAC-ECAR-NPCC Working Groups	\$8,000	\$2,650
101	MMWG Multiregional Modeling Working Group	\$12,000	\$381
105	SDDWG Dynamic Database Working Group	\$15,000	\$0
108	Y2K Year 2000 Coordination Working Group	\$21,300	\$13,100
	NERCWG NERC Subcommittees, Working Groups and Task Forces	\$40,000	\$13,495
	NERC-ISN Interregional Security Network (ISN)	\$50,000	\$17,858
	CMAS Compliance Monitoring & Assessment Subcommittee	\$0	\$3,150
	ETIWG ETAG	\$0	\$600
	Staff	<u>\$15,000</u>	<u>\$0</u>
	<b>Totals:</b>	<b>\$401,700*</b>	<b>\$104,944</b>

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

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

<u>ID #</u>	<u>Recommendation Summary</u>	<u>STATUS</u>	<u>Lead Group</u>	<u>Next Tracking</u>
DOE-96-05	Define and enforce reliability standards to ensure that a continuous supply/demand balance is maintained and that transmission systems are operated within security limits.	NPCC will continue to monitor compliance to its Reliability Criteria through its Reliability Assessment Program. The updated NRAP Status report will be presented at the June 29, 1999 RCC meeting.	RCC	1999/06/29
NERC-95-01	ATC determination, IDC and TIS.	A report assessing the Regional guidelines for ATC Methodology was developed presented to the NERC EC at their March, 1999 meeting. Deficiencies in each Region were identified and each Region developed a plan for addressing these deficiencies to the ATCWG at their June 7-8, 1999 meeting. The NPCC ATCWG will address the plan and its implementation. A status report on ATC Performance Indices will be presented at the June 29, 1999 RCC meeting.	RCC	1999/06/29
NERC-95-02	Implement line loading relief procedure and Implement ISN primary node.	The LEER, which was signed by all parties as of December 22, 1998, was filed with the FERC on March 1, 1999, and conditionally approved on May 12, pending further clarification that was filed June 1, 1999. A status report will be provided at the June 29, 1999 RCC meeting.  Please see NPCC-98-05 for ICCP/ISN implementation.	RCC	1999/06/29
NERC-96-07	Form a group to define enforcement measures in lieu of mandatory compliance and review the Regional Reliability Councils ability to impose sanctions for noncompliance.	The NPCC will utilize the Compliance Monitoring and Assessment Subcommittee (CMAS) for the management of the 1999 Pilot Compliance Program. A scope for the Compliance Enforcement Subcommittee (CES) will be presented to the RCC at their June 29, 1999 meeting.	RCC	1999/06/29
NERC-97-01	Review of NERC Planning Standards and revised Operating Policies to assess and evaluate them against the existing NPCC Reliability Assessment Program.	NPCC will be establishing a mechanism to further review the proposed revisions to the NERC Planning Standards. NPCC is utilizing the TFCO to review the proposed changes to the NERC Operating Policies. Review of both the Planning and Operating Standards will focus on their consistency with NPCC Criteria. A status report will be presented at the June 29, 1999 RCC meeting.	TFCP	1999/06/29

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

<u>ID #</u>	<u>Recommendation Summary</u>	<u>STATUS</u>	<u>Lead Group</u>	<u>Next Tracking</u>
NPCC-97-15	Review and testing of restoration plans and procedures needs to be strengthened.	Strengthening of the review and testing of restoration plans and procedures is being addressed by the Joint Task Force Working Group on Testing Requirements for System Restoration Facilities. A draft report and testing procedure was presented to the TFCO at its meeting of January 12 and 13, 1999; following suggested comments, the report will be returned to the TFCO for further discussion at its meeting of June 22 and 23, 1999.	TFCO	1999/06/23
NPCC-97-16	Address challenges presented by year 2000 computer problems and how they relate to system security.	An Ad Hoc working group, reporting to the TFEMT is now handling most the Y2K issues. At the joint TFEMT-TFCO meeting on September 24, an additional working group has been charged by TFCO to develop contingency plans for NPCC. The latter completed its task.  The Y2K Working Group works closely with NERC. Monthly surveys are sent through the region. Monthly status reports are generated by the working group and the most recent will be reviewed at the June 22-23, 1999 TFCO meeting.	TFEMT	1999/06/22
NPCC-98-02	Clarify the legal implications and understanding of the Code of Conduct in the discussion of potentially commercial issues at various NPCC meetings.	Draft "Guidelines for Communicating Market Information at NPCC Task Force Meetings" was reviewed by the the Task Force on Coordination of Planning at their May 12, 1999 meeting. The TFCP approved the document for use at its meetings.	TFCP	Completed
NPCC-98-05	TFEMT will investigate NPCC ICCP/ISN implementation feasibility for the summer of 1999.	Hydro Quebec has completed the implementation of ISN. New York Power Pool (testing with PJM) and New England have completed testing. Testing with Ontario will be completed by the end of June. The next review will be performed at the September 22, 1999 TFEMT meeting.  The Maritime Area is communicating through ISO-NE using legacy data link which is already Y2K compliant.	TFEMT	1999/09/22

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-98-08	Streamline disturbance reporting procedures under future similar circumstances to the January 1998 Ice Storms.	NPCC Document B-13, Guide for Reporting System Disturbances, has been posted for comments through NPCC Open Review. Comments are to be received through July 1, 1999.	TFCO	1999/07/01
NPCC-98-10	NPCC Operations Managers Working Group (CO-8), will review the restoration of islands based on the lessons learned from the January 1998 Ice Storms.	The NPCC Operations Managers Working Group (CO-8) reported on its review of restoration of islands at the TFCO meeting of March 3 and 4, 1999.	TFCO	Completed

**NPCC RELIABILITY ASSESSMENT PROGRAM**  
**STATUS REPORT**

**GOALS AND RESPONSIBILITIES**

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

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

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

The overall program includes two categories of assessment:

1. Standing Assessments
2. Ad Hoc Assessments

**Standing Assessment**

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

**Ad Hoc Assessments**

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

**General**

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

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

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

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

**Appendix C**