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**RCC Meeting
June 28, 2001
Agenda Item 14.2**

June 21, 2001

Members, Reliability Coordinating Committee
and

Mr. Charles A. Durkin, Jr.
Mr. Robert A. Hiney
Mr. Edward A. Schwerdt

Re: NPCC Reliability Assessment Program Status Report, June 2001

The June 2001 NPCC Reliability Assessment Program (NRAP) Status Report will be updated in time for consideration at the June 28, 2001 Reliability Coordinating Committee meeting.

The report will be posted in Adobe format in the Current Year NRAP folder on the NPCC Home Page. The URL to the folder is:

<http://www.npcc.org/NRAP.asp?Folder=CurrentYear>

Please note that the report is only “distributed” with this reference.

The NRAP Status Report update will be provided at the June 28, 2001 RCC meeting.

Yours truly,

Guy V. Zito
Manager, Planning
NPCC

Cc: 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
Chairmen, NPCC Working Groups
and
Ms. Jennifer Budd



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**RCC Meeting
June 28, 2001
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**Northeast Power Coordinating Council
Reliability Assessment Program**

STATUS REPORT

June 2001

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
Chairmen, NPCC Working Groups
and
Mr. Charles J. Durkin, Jr.
Mr. Robert A. Hiney
Mr. Edward A. Schwerdt
Ms. Jennifer Budd

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

NPCC RELIABILITY ASSESSMENT PROGRAM

STATUS REPORT

Highlights

**ITEM
NUMBER**

Compliance Monitoring and Assessment Subcommittee (CMAS)

CMAS now has its own section in the NPCC Reliability Assessment Program (NRAP) Status Report.

Task Force on Coordination of Operation (TFCO)

NPCC will secure the services of Mr. Peter Czech as a consultant to be charged with establishing a framework to reorder NPCC operational policy to ensure that requirements, and policy language which may be inferred as a requirement, are directed only through NPCC criteria documents. The goal of the effort will be to develop three groupings of NPCC Operational Policy: criteria, compliance templates and procedures (or reference documents). Ultimately, all operational Guidelines (B documents) would be eliminated, with the language to be relocated to a procedural document or a criterion.

Task Force on Coordination of Planning (TFCP)

At the November 9, 2000 meeting, the RCC will consider the New York Area Comprehensive Transmission Review as approved by the TFSS and the TFCP.

Task Force on System Protection (TFSP)

Nothing to Report

NPCC RELIABILITY ASSESSMENT PROGRAM

STATUS REPORT

Task Force on System Studies (TFSS)

79) The New England Area Interim Transmission Review

The New England Area Interim Transmission Review has been reviewed and approved by the TFSS. Document B-4, C-25 and C-29 are currently posted for open process review. The TFSS has also approved the SS-38, 2000 Overall Transmission Assessment Report subject to some minor revisions, the report will be presented to RCC for final approval in November.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

COMPLIANCE MONITORING AND ASSESSMENT SUBCOMMITTEE

PROGRAM ITEM NUMBER

Documents

117)A-8	Reliability Compliance and Enforcement Program	Description: The process and requirements are defined for compliance assessment and enforcement of selected reliability criteria and standards.	Latest Version: November 2000 Frequency of Reviews 1 year Next Review Date: November 2001
	Status/ Comments: CMAS is considering changes to the compliance templates to better reflect the NPCC criteria and reporting requirements. Also reference items 118 and 119.		
118)B-22	Guidelines for the Implementation of the Reliability Compliance and Enforcement Program (RCEP)	Description: This document establishes the requirements and guidelines for the implementation of the Reliability Compliance and Enforcement Program (Document A-8) and the arbitration process utilizing the NPCC Policy for Alternate Dispute Resolution.	Latest Version: November 9, 2000 Frequency of Reviews 1 Year Next Review Date: November 2001
	Status/ Comments: Reference items 117 and 119.		
119)C-32	Review Process for NPCC Reliability Compliance Program	Description: This Procedure establishes the process CMAS uses to verify Area compliance to the standards that comprise the NPCC Reliability Compliance Program (RCP) or its successor program.	Latest Version: June 23, 2000 Frequency of Reviews 3 years Next Review Date: June 2003
	Status/ Comments: Also reference items 117 and 118.		

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

COMPLIANCE MONITORING AND ASSESSMENT SUBCOMMITTEE

PROGRAM ITEM NUMBER

Surveys/Reviews

120)	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 29, 2000 Frequency of Reviews: 1 Year Next Review Date: June 2001
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Status/ Comments:

121)	Survey of Compliance with the NPCC Underfrequency Load Shedding Program	Description: These reports summarize Area compliance with sections 4.6 and 4.9 of the "Emergency Operation Criteria" (Document A-3)	Latest Version: June 29, 2000 Frequency of Reviews: 1 Year Next Review Date: June 2001
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Status/ Comments:

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

)CO-10 Operational Tools Working Group

The system Operational Tools Working Group (CO-10) is responsible for taking a lead role in the development of NPCC and NERC operational tools (e.g. electronic tagging, the NERC Interchange Distribution Calculator and electronic scheduling), including hardware, software and integrated systems. The System Operational Tools Working Group will define the need for operational tools, evaluate the cost benefits of operational tools, coordinate their implementation within NPCC and coordinate common training in the use of operational tools.

Status/ Comments: The CO-10 Working Group held a kick off meeting on March 29 and a second meeting on May 24. CO-10 is presently working on confirmation of timestamps among the five NPCC Areas for use in Area Control Error Diversity Interchange implementation. CO-10 is also coordinating the TFCO comments to the NERC Electronic Scheduling Collaborative Business Practices posting for open review. CO-10 will also assist in the implementation of and communicate progress on the Common Power System Model Project, Etag 1.7, OASIS II and FIST.

Documents

1)A-3 Emergency Operation Criteria

Description: Objectives, principles and requirements are presented that govern the Areas in formulating plans and procedures to be followed in an emergency or during conditions which could lead to an emergency.

Latest Version: January 1999

Frequency of Reviews 3 Years

Next Review Date: January 2002

Status/ Comments: A revised NPCC Document A - 3, Emergency Operation Criteria, addressing restoration facility identification and periodic testing, is now being balloted by the NPCC Membership. Also reference items 10, 18, 19 , 23 and 29.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

2)A-6	Operating Reserve Criteria	Description: Objectives, principles and requirements are presented that govern the amount, availability and distribution of operation reserve.	Latest Version: September 1998 Frequency of Reviews: 3 Years Next Review Date: September 2001
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Status/ Comments: A revised draft of A-06 is now receiving public comment through the NPCC Open Review Process. Also reference items 13, 18 and 27.

3)B-2	Control Performance Guide During Normal Conditions	Description: Standards are established with which the NPCC Areas and systems within the Areas may measure control performance.	Latest Version: Frequency of Reviews: Next Review Date:
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Status/ Comments: Also reference items 12 and 26. The standards in NPCC Document B-2 have been embodied in NPCC Document A-8, approved by the NPCC membership on November 9, 2000.

4)B-3	Guidelines for Inter-AREA Voltage Control	Description: Procedures and principles are established for occasions where a deficiency or an excess of reactive power can affect bulk power system voltage levels in a large portion of an Area or in two adjacent Areas.	Latest Version: November 6, 1997 Frequency of Reviews: 3 Years Next Review Date: November 2001
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Status/ Comments: Also reference items 9 and 22. All requirements of NPCC Document B-3 will be transferred to the appropriate criterion document; remaining language will be established in a new Reference Document.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

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: November 1998 Frequency of Reviews: 3 Years Next Review Date: November 2001
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Status/ Comments: Also reference items 11 and 25. All requirements of NPCC Document B-9 will be transferred to the appropriate criterion document; remaining language will be established in a new Reference Document.

6)B-13	Guide for Reporting System Disturbances.	Description: This document establishes requirements and guidelines for reporting the details of a system disturbance to enable assessments and reviews of those disturbances which impact a significant part of one Area or which have inter - Area implications.	Latest Version: June 25, 1997 Frequency of Reviews: 3 Years Next Review Date: November 2001
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Status/ Comments: All requirements of NPCC Document B-13 will be transferred to the appropriate criterion document; remaining language will be established in a new Reference Document.

8)C-3	Procedures for Communications During Emergencies	Description: These Procedures direct NPCC's implementation of the Eastern Interconnection Hotline. The Eastern Interconnection Hotline is an emergency telecommunications network initiated through a preset conference call that interconnects one key Regional coordination center, staffed continuously, or a major utility control center serving the role of coordinator for the Region, in each Region of the NERC Eastern Interconnection. The North Texas Security Center in ERCOT is connected to the calls as well.	Latest Version: March 2000 Frequency of Reviews: 1 Year Next Review Date: June 2001
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Status/ Comments: Reference also item 16. NPCC Document C-3 will be redrafted to coordinate with the proposed restructuring of the NERC Hotline currently in progress at the June 19 and 20, 2001, meeting of the TFCO.

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:
Frequency of Reviews
Next Review Date:

Status/ Comments: Also reference items 4 and 22. The NPCC Task Force on Coordination of Operation and the NPCC Compliance Monitoring and Assessment Subcommittee have collaborated to replace Procedures which formerly directed monitoring and surveying efforts with appropriate self-certification form. It has been proposed that the Procedure C-04 be replaced with "Self-Certification Form C-4: Triennial Monitoring and Reporting Requirements for Guidelines for Inter-Area Voltage Control (Document B-03)." The TFCO will have acted on this recommendation at its meeting of June 19 and 20, 2001; the CMAS will do so at its meeting of August 6, 2001. Upon the conversion of the Procedure to the Self-Certification Form, the CMAS will supervise the monitoring of the compliance initiatives stated in Self-Certification Form C-4.

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:
Frequency of Reviews
Next Review Date:

Status/ Comments: Also reference items 1, 23 and 29. The NPCC Task Force on Coordination of Operation and the NPCC Compliance Monitoring and Assessment Subcommittee have collaborated to replace Procedures which formerly directed monitoring and surveying efforts with appropriate self-certification form. It has been proposed that the Procedure C-05 be replaced with "Self-Certification Form C-5: Triennial Monitoring and Reporting Requirements for A-03, Emergency Operation Criteria (Document A-03)." The TFCO will have acted on this recommendation at its meeting of June 19 and 20, 2001; the CMAS will do so at its meeting of August 6, 2001. Upon the conversion of the Procedure to the Self-Certification Form, the CMAS will supervise the monitoring of the compliance initiatives stated in Self-Certification Form C-5.

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:
Frequency of Reviews
Next Review Date: |
| | Status/ Comments: Also reference items 5 and 25. The NPCC Task Force on Coordination of Operation and the NPCC Compliance Monitoring and Assessment Subcommittee have collaborated to replace Procedures which formerly directed monitoring and surveying efforts with appropriate self-certification form. It has been proposed that the Procedure C-07 be replaced with "Self-Certification Form C-7: Triennial Monitoring and Reporting Requirements for Guide for Rating Generating Capability (Document B-9)." The TFCO will have acted on this recommendation at its meeting of June 19 and 20, 2001; the CMAS will do so at its meeting of August 6, 2001. Upon the conversion of the Procedure to the Self-Certification Form, the CMAS will supervise the monitoring of the compliance initiatives stated in Self-Certification Form C-7. | | |
| 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:
Frequency of Reviews
Next Review Date: |
| | Status/ Comments: Also reference items 3 and 26. The monitoring procedures and methodology of NPCC Document C-8 have been embodied in NPCC Document A-8, approved by the NPCC membership on November 9, 2000. | | |

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:
Frequency of Reviews
Next Review Date:

Status/ Comments: Also reference items 2 and 27. The monitoring procedures established in NPCC Document C-9 have been embodied in NPCC Document A-8, approved by the NPCC membership on November 9, 2000. The NPCC Task Force on Coordination of Operation and the NPCC Compliance Monitoring and Assessment Subcommittee have collaborated to replace Procedures which formerly directed monitoring and surveying efforts with appropriate self-certification form. It has been proposed that those compliance provisions in Procedure C-09 be replaced with "Self-Certification Form C-9: Monthly and Annual Monitoring and Reporting Requirements for NPCC Operating Reserve Criteria (Documents A-06 and C-09)." The TFCO will have acted on this recommendation at its meeting of June 19 and 20, 2001; the CMAS will do so at its meeting of August 6, 2001. As part of its compliance program, the CMAS currently monitors compliance with NPCC operating reserve requirements

14)C-11 Monitoring Procedures for Interconnected System Frequency Response

Description: Procedures are established for monitoring and reporting the frequency responses to large generation losses.

Latest Version: March 25, 1998
Frequency of Reviews 3 Years
Next Review Date: November 2001

Status/ Comments: A revised Reference Document to assess large frequency excursions on the system is now being drafted.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

- | | | | |
|---------|--|--|---|
| 15)C-12 | Procedure for Shared Activation of Ten Minute Reserve (SAR) | Description: Procedures are established to provide for the shared activation of ten minute reserve on an Area basis. | Latest Version: May 8, 2001 |
| | | | Frequency of Reviews: 3 Years |
| | | | Next Review Date: May 2004 |
| | Status/ Comments: A revised draft of NPCC Document C-12 has concluded its posting for comments through the NPCC Process for Open Review and been approved by the Task Force on Coordination of Operation. | | |
| | | | |
| 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. The document also defines 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: November 2001 |
| | Status/ Comments: Reference also items 8 and 28. The requirements of C-13 are being redirected to the appropriate criterion document, and the details of reporting are being redrafted as a Reference Document. | | |
| | | | |
| 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: November 7, 2000 |
| | | | Frequency of Reviews: 3 Years |
| | | | Next Review Date: November 2003 |
| | Status/ Comments: This document has been revised to address Space Environment Center (SEC) changes in the levels at which geomagnetically induced currents (GIC) event warning notifications are issued. | | |

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

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:
Frequency of Reviews
Next Review Date: November 2001

Status/ Comments: Also reference items 1 and 2. Those elements of NPCC Document C-19 which establish requirements or are compliance related are being transferred to NPCC Document A-06; the remaining portions of the document will be transformed into a Reference Document.

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: March 1999
Frequency of Reviews 3 Years
Next Review Date: March 2002

Status/ Comments: Also reference item 1. The elements of NPCC Document C-20 which establish requirements or are compliance related are being transferred to NPCC Document A-3; the remaining portions of the document will be transformed into a Reference Document.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

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:
Frequency of Reviews
Next Review Date:

Status/ Comments: Also reference items 24 and 38. The NPCC Task Force on Coordination of Operation and the NPCC Compliance Monitoring and Assessment Subcommittee have collaborated to replace Procedures which formerly directed monitoring and surveying efforts with appropriate self-certification form. It has been proposed that the Procedure C-21 be replaced with "Self-Certification Form C-21: Triennial Monitoring and Reporting Requirements for Transfer Limits During Normal and Emergency Operations as Stipulated in the Basic Criteria for Design and Operation of Interconnected Power Systems (Document A-02)." The TFCO will have acted on this recommendation at its meeting of June 19 and 20, 2001; the CMAS will do so at its meeting of August 6, 2001. Upon the conversion of the Procedure to the Self-Certification Form, the CMAS will supervise the monitoring of the compliance initiatives stated in Self-Certification Form C-21.

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: June 29, 1999
Frequency of Reviews 3 Years
Next Review Date: June 2002

Status/ Comments: The RCC approved the revised TFCO scope at its meeting of June 29, 1999.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Surveys/Reviews

- | | | | |
|-----|--|--|---|
| 22) | Survey on conformance with the Guidelines for Inter-AREA Voltage Control | Description: As charged in the Monitoring Procedure C-4, each Area must successfully respond to a set of directives in order to demonstrate conformance with the Guidelines for Inter-AREA Voltage Control. | Latest Version:
Frequency of Reviews
Next Review Date: |
| | Status/ Comments: Also reference items 4 and 9. These compliance monitoring responsibilities have been assumed by the CMAS as directed through NPCC Document C-26. | | |
| 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:
Frequency of Reviews
Next Review Date: |
| | Status/ Comments: Also reference items 1, 10 and 19. These compliance monitoring responsibilities have been assumed by the CMAS as directed through NPCC Document C-26. | | |
| 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:
Frequency of Reviews
Next Review Date: |
| | Status/ Comments: Also reference items 20 and 38. These compliance monitoring responsibilities have been assumed by the CMAS as directed through NPCC Document C-26. | | |

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Surveys/Reviews

- 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:
Frequency of Reviews
Next Review Date:
- Status/ Comments:** Also reference items 5 and 11. These compliance monitoring responsibilities have been assumed by the CMAS as directed through NPCC Document C-26.
- 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 2001
Frequency of Reviews See Status / Comments
Next Review Date: June 2001
- Status/ Comments:** TFCO and CMAS are discussing the responsibility for all compliance monitoring and assessments; however, the TFCO will continue to jointly monitor compliance with CPS-1, CPS-2 and DCS on an on-going monthly basis due to the criticality of this criterion. Also reference items 3 and 12.
- 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: March 2001
Frequency of Reviews See Status/Comments
Next Review Date: June 2001
- Status/ Comments:** Also reference items 2 and 13. The responsibilities for monitoring and assessing operational surveys has been assumed by the CMAS. However due to the criticality of the NERC Standards CPS-1, CPS-2 and DCS, the TFCO and the CMAS will continue to jointly monitor compliance with these standards on a monthly basis.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Surveys/Reviews

28)	Survey of NPCC Transmission Facilities List	Description: An annual list of NPCC transmission facilities is established based on the criterion that, if removed from service, the transmission facility may directly or indirectly impact the reliability of another Area or other Areas.	Latest Version: May 2001 Frequency of Reviews: 1 Year Next Review Date: May 2002
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Status/ Comments: The TFCO finalized the 2001 document at its meeting of May 2001. Also reference item 16.

Working Groups/Ad Hoc Assignments

29)	IRCWG Inter-Control AREA Restoration Coordination Working Group	Description: IRCWG addresses the issue of ensuring appropriate operation of key system restoration facilities and their critical components.	2001 Budget: Expense to Date:
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Status/ Comments: The IRCWG has completed a revision to A-03 which adds the specificity of requirements for testing those facilities critical to system restoration.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

30)CO-1 Control Performance

Assignment: The Working Group insures coordination between adjacent control areas in establishing interchange schedules, reviews time error correction procedures, and monitors the conformance of the Areas with NPCC Control Performance Criteria and Operating Reserve Criteria. At the request of the Task Force on Coordination of Operation, it conducts investigations of control performance problems.

2000 Budget: \$20,300

Expense to Date: \$4,450

Status/ Comments: The Control Performance Working Group (CO-1) is currently pursuing the following tasks: 1) documentation of the historical basis for a ten minutes Disturbance Recovery Period For Reportable Events; 2) reassessing NPCC document A-6, "Operating Reserve Criteria", to address reliability concerns related to the treatment of recallable energy purchases in determining reserve requirements; 3) investigating the feasibility of full reserve sharing within NPCC; 4) reassessing NPCC document A-3, "Emergency Operation Criteria", to ensure consistency with NERC Appendix 9B, "Energy Emergency Alerts," and 5) a combined Regional control of Area Control Error (ACE).

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.

2000 Budget: \$22,350

Expense to Date: \$7,000

Next Seminar: May 2001

Status/ Comments: The Dispatcher Training Working Group (CO-2) conducted its spring training seminar on May 3-4, 2001, at the Control Center of New Brunswick Power. The session was well attended, with fifty control personnel participating, and the program itself was well received.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

32)CO-7	Operation Review Team	Assignment: To enhance the relationship between the control room personnel and NPCC, and to insure a continued understanding and effective implementation of the criteria and guides.	2000 Budget:	\$25,000
			Expense to Date:	\$0

Status/ Comments: The Working group has been populated and will begin its audits in the year 2001, providing technical support in coordination with the CMAS..

33)CO-8	System Operations Managers Working Group	Assignment: Provide a forum for the Managers of the NPCC control centers to identify and discuss security concerns in the operation of the interconnected bulk power supply system, and specific concerns related to the integration of operation between and among the evolving ISOs. The System Operations Managers Working Group will also assist the Task Force on Coordination of Operation in their work on issues related to system security and the operation of the ISOs, and provide advice to the TFCO, as requested.	2000 Budget:	\$25,000
			Expense to Date:	\$11,275

Status/ Comments: The CO-8 Working Group is currently directing the redrafting of NPCC Document A-06, and it is reviewing the efficiency of the internal NPCC solar alert channels.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

35)	Lake Erie Security Process Working Group (LESPWG)	Assignment: The Lake Erie Security Process Working Group was formed to address the charge stemming from the Northeast Power Coordinating Council Security Process Plan. The Lake Erie Security Process has established Lake Erie line loading relief procedures developed by representatives from Ontario Hydro, the New York Power Pool, the Pennsylvania-New Jersey-Maryland Interconnection Association and the Michigan Electric Coordinated Systems.	2000 Budget:	\$30,000
			Expense to Date:	\$6,500

Status/ Comments: The LESPWG has met in March, April and May of 2001. The LESPWG successfully conducted a summer 2001 dry run/drill of the Lake Erie Emergency Redispatch procedure assuming a constraint on the IMO-MECS flowgate. Various non-emergency redispatch procedures (Market Redispatch, System redispatch, ISO/MOU Redispatch) have been reviewed for viability of implementation.

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	2000 Budget:	\$10,000
			Expense to Date:	\$6,100

Status/ Comments: Following approval by the TFCO and the TFCP, the ATC Working Group's report defining NPCC methodology for calculating TTC and ATC has been posted for comment through the NPCC Process for Open Review.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

115)	NPCC Ad Hoc Operations Planning Working Group	Review the overall reliability of the generation and transmission system in the NPCC Region for the 2001 Summer.	2000 Budget:	\$0
			Expense to Date:	\$7,500
			Completion Date:	May 2001

Status/ Comments: The report for the "NPCC Reliability Assessment for Summer 2001" was submitted to the RCC on March 21, 2001 for review and comment. Comments were incorporated and a final report was issued within NPCC and to the press on May 1, 2001. A telephone press conference was held on May 1, 2001. All questions were addressed.

116)CO-9	Review of NERC Operating Standards	The CO-9 Working Group was charged to coordinate the reformatting of the Northeast Power Coordinating Council (NPCC) operating criteria, guides and procedures and to incorporate them into the NERC Operating Policies as Regionally specific provisions.	2000 Budget:	\$7,500
			Expenses to Date	\$12,975

Status/ Comments: The final draft composite NPCC-NERC Operating Manual has been held in abeyance pending the NERC effort to restructure its standards as directed by the NERC Standards Task Force..

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: November 2001
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Status/ Comments: NPCC will begin review of this document in the second half of 2001.

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: November 2001
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Status/ Comments: TFCP has formed the CP-11 Working group to conduct the review of the Basic Criteria for Design and Operation of Interconnected Power Systems (A-2). Draft scope to be presented for approval at the June 28, 2001 RCC Meeting.

39)B-8	Guidelines for Area Review of Resource Adequacy	Description: Guidelines to help TFCP ascertain that each Area's resource plan is in accordance with the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems".	Latest Version: February 14, 1996 Frequency of Reviews: 3 Years Next Review Date: June 2001
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Status/ Comments: Draft document finalized and will be presented for approval at the June 28, 2001 RCC meeting.

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Documents

40)C-16	Procedure for NPCC Review of New or Modified Bulk Power System Special Protection Systems	Description: This document outlines procedures for reporting new or modified Bulk Power System Special Protection Systems.	Latest Version: September 28, 1995 Frequency of Reviews: 3 Years Next Review Date: December 2001
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Status/ Comments: Start of review deferred to September 2001 TFCP meeting.

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: September 2001
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Status/ Comments: Start of review deferred to September 2001 TFCP meeting.

Surveys/Reviews

42)	Resource Adequacy — Coordination and Review of Area Studies	Description: Review of the New York Area resource adequacy study.	Latest Version: June 29, 1999 Frequency of Reviews: 3 Years Next Review Date: June 2002
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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: March 2000
Frequency of Reviews: 3 Years
Next Review Date: March 2003

Status/ Comments:

44) Resource Adequacy — Coordination and Review of Area Studies
Description: Review of the Ontario Area resource adequacy study.
Latest Version: March 2001
Frequency of Reviews: 3 Years
Next Review Date: March 2004

Status/ Comments:

45) Resource Adequacy — Coordination and Review of Area Studies
Description: Review of the Québec Area resource adequacy study.
Latest Version: June 29, 1999
Frequency of Reviews: 3 Years
Next Review Date: June 2002

Status/ Comments:

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

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:** November 2000
plans (5-7 years out) **Frequency of Reviews** 1 Year
Next Review Date: November 2001

Status/ Comments:

48) NPCC Area Transmission Review **Description:** Review of the New England Area future transmission **Latest Version:** March 2000
plans (5-7 years out) **Frequency of Reviews** 1 Year
Next Review Date: June 2001

Status/ Comments: Final draft approved at June 7, 2001 TFCP meeting. To be sent for approval at June 28, 2001 RCC Meeting.

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Surveys/Reviews

49) NPCC Area Transmission Review **Description:** Review of the Ontario Area future transmission plans (5-7 years out) **Latest Version:** December 2000
Frequency of Reviews 1 Year
Next Review Date: December 2001

Status/ Comments:

50) NPCC Area Transmission Review **Description:** Review of the Québec Area future transmission plans (5-7 years out) **Latest Version:** September 2000
Frequency of Reviews 1 Year
Next Review Date: November 2001

Status/ Comments:

51) NPCC Area Transmission Review **Description:** Review of the Maritime Area future transmission plans (5-7 years out) **Latest Version:** June 1999
Frequency of Reviews 1 Year
Next Review Date: November, 2001

Status/ Comments:

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

52)CP-8	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; perform pre-seasonal resource adequacy assessment of the NPCC Region.	2000 Budget: \$30,000 Expense to Date: \$76,578 Completion Date: April 2001
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Status/ Comments: Completed 2001 Summer Assessment. Following up on report recommendations : 1) Continued development of data base; 2) Development of confidentiality agreements (to be discussed at June 28, 2001 RCC Meeting); 3) documentation of utilization of load relief.

53)CP-9	Working Group on the Review of NERC Planning Standards	Assignment Initially review the Phase I NERC Planning Standards that have been placed into final NERC due process. Recommend changes to those NERC Planning Standards that are scheduled for implementation in latter phases of the NERC Compliance Program.	2000 Budget: \$7,500 Expense to Date: \$650 Completion Date: Ongoing
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Status/ Comments: CP-9 will be reformulated to as the Criteria Development Working Group (CDWG); draft scope to be presented at September 2001 TFCP meeting. CDWG will focus on Review of NERC Planning Standards and new NERC Organizational Standards (when developed).

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.	2000 Budget: \$0 Expense to Date: \$0 Completion Date: Ongoing
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Status/ Comments:

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

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, Fuels and Transmission report.

2000 Budget: \$5,000

Expense to Date: \$0

Completion Date: 1) EIA-411 data: April 2001
2) NPCC Report: June 2001

Status/ Comments: Data submission completed to NERC.

56)JGWWG Joint Glossary Working Group

Assignment To maintain the NPCC Glossary of Terms (Document A-7) and to expand the Glossary to include new terms as necessary.

2000 Budget: \$5,000

Expense to Date: \$0

Next Review Date: Ongoing

Status/ Comments:

Documents

112)A-7 NPCC Glossary of Terms

Description: The NPCC Glossary of Terms (the Glossary) includes terms from NPCC Criteria (A), Guideline (B) and Procedure (C) Documents, as well as the North American Electric Reliability Council (NERC) Glossary of Terms, August 1996.

Latest Version: September 1998

Frequency of Reviews 1 Year

Next Review Date: September 2001

Status/ Comments:

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Surveys/Reviews

122) Special Protection System List **Description:** This document lists Special Protection Systems on the NPCC Bulk Power System. **Latest Version:** June 2000
Frequency of Reviews 1 Year
Next Review Date: June 2001

Status/ Comments: Maintenance of the SPS List has been transferred to the TFCP from the TFSP. The TFSP will continue in a consulting role. Also reference item 67.

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

Documents

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

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

Surveys/Reviews

89)	Review of the NERC Disturbance Analysis Working Group's report on "1996 System Disturbance."	Description: Review of on-line computer performance during system events or disturbances including all NERC regions.	Latest Review: February 2001 Frequency of Reviews 1 Year Next Review Date: February 2002
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Status/ Comments: The Task force has been awaiting the completion of the 1996, 1997, 1998, 1999 and 2000 NERC Disturbance Reports by the NERC/DAWG. The 1998 and 1999 reports were recently published.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

Surveys/Reviews

90)	Review of NPCC Area disturbances	Description: Review of on-line computer system performance during disturbances, as required by Document B-12.	Latest Review May 2001
			Frequency of Reviews As Required

Status/ Comments: At its May 2001 meeting, the TFEMT discussed system disturbances that have been reported to NPCC. The Task Force reported that all computer systems worked well.

91)	Review On-Line Computer System Status Reports	Description: Review of member on-line computer system statuses and plans.	Latest Review: May 2001
			Frequency of Reviews As Required

Status/ Comments: Member system status reports were reviewed at the May Task Force meeting. Such reviews include highlights of each system's Energy Management System status and planned system enhancements.

Working Groups/Ad Hoc Assignments

92) EMT-1	Energy Management Technology Workshop Working Group	Assignment: Periodic 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.	2001 Budget: \$5000
			Expense to Date: \$0
			Last Workshop: May 14-15, 1998
			Next Workshop: October 2001

Status/ Comments: A workshop is scheduled for October 2001.

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

94) Correspondence with other regional and national groups associated with on-line computer systems
Assignment: Exchange of meeting minutes and other correspondence with representatives from other Regions. Also monitor IEEE and CIGRÉ efforts.
Latest Review: May 2001
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, Telecommunications Working Group and Critical Infrastructure Protection Working Group efforts.

95) Ad Hoc Working Group on Information Exchange
Assignment: Develop a document discussing communication channels, company contacts and coordination of outages.
Latest Review: April 2000
Frequency of Reviews: Completed

Status/ Comments: The Ad Hoc Working Group on Information Exchange has prepared a collection of presentations related to communication or operating tools, communication channel descriptions which is available on the web site at the following URL: ftp://www.npcc.org/bbs/NPCC_task_forces/TFEMT/Information_Exchange_Pres/.

This Ad Hoc Working Group has completed its task.

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

Documents

109) Task Force Scope

Description: This document outlines the Task Force on Energy Management Technology scope of activities.

Latest Review September 28, 2000

Frequency of Reviews 3 Years

Next Review Date: March 2003

Status/ Comments: As directed by the RCC at the March 21, 2000 meeting, the TFEMT and the TFSP are discussing potential changes in their scopes necessary to clearly define their respective roles regarding areas of complementary or overlapping interests.

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Documents

57)A-4	Maintenance Criteria for Bulk Power System Protection	Description: This document establishes the maintenance intervals and practices which should result in dependable and secure protection system operation.	Latest Version: December 2000 Frequency of Reviews 3 years Next Review Date: December 2003
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Status/ Comments: During its review of the other protection documents, the TFSP is considering whether revisions are warranted.

58)A-5	Bulk Power System Protection Criteria	Description: This document establishes the minimum design objectives and recommends design practices to minimize the severity and extent of system disturbances and to minimize possible damage to system equipment.	Latest Version: September 1998 Frequency of Reviews 3 Years Next Review Date: September 2001
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Status/ Comments: As part of the triennial review, the TFSP is considering the disposition of mandatory requirements in B-11, the implication of new technologies on protection security and dependability, whether a better tie is required between A-5 and A-2 (Basic Criteria for the Design and Operations of the Interconnected Systems), and the security aspects of protection system design. 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: March 2, 1999 Frequency of Reviews 3 Years Next Review Date: March 2002
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Status/ Comments:

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Documents

61)B-7	Automatic Underfrequency Load Shedding Program Relaying Guideline	Description: This guideline establishes requirements for application and testing of underfrequency threshold relays that are necessary to accomplish the objectives of the NPCC automatic underfrequency load shedding program established in the Emergency Operation Criteria (Document A-3).	Latest Version: March 2, 1999 Frequency of Reviews: 3 Years Next Review Date: March 2002
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Status/ Comments:

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: March 2, 1999 Frequency of Reviews: 3 Years Next Review Date: March 2002
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Status/ Comments: At its January 2001 meeting, TFSP discussed the disposition of mandatory requirements in B-11. This document is being considered for conversion to an "A" criteria document.

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
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Formerly Document B-5

Status/ Comments:

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Documents

64)	Task Force Scope	Description: This document outlines the Task Force on System Protection scope of activities.	Latest Version: June 29, 1999 Frequency of Reviews: 3 Years Next Review Date: June 2002
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Status/ Comments: As directed by the RCC at the March 21, 2000 meeting, the TFSP and TFEMT are discussing potential changes in their scopes necessary to clearly define their respective roles regarding areas of complementary or overlapping interests.

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 compliance with the NPCC Bulk Power System Protection Criteria (Document A-5).	Latest Version: Ongoing Frequency of Reviews: As Required
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Status/ Comments: At each meeting, the TFSP discusses protection system changes, including SPS installations and modifications, as proposed by the member systems.

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Surveys/Reviews

69)	Review protection system performance following major system events or disturbances	Description: In conjunction with other task forces, review and analyze the detailed performance of protection systems following major power system disturbances and events and participate in the preparation of reports, which would include appropriate recommendations.	Latest Version: Ongoing
			Frequency of Reviews: As Required
	Status/ Comments: At each meeting, TFSP discusses system disturbances that have been reported to NPCC and/or NERC, and disturbances reported directly by the member systems. The NERC/DAWG System Disturbance Reports for 1998 and 1999 have recently been published and are under review by TFSP.		

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: At its March 27-28, 2001 meeting, the TFSP agreed that there might not be sufficient new data to justify a review of maintenance intervals. TFSP members are reviewing available data to make an assessment. Also reference item 57.		

Documents

114)C-30	Procedure for Task Force on System Protection Review of Disturbances	This document outlines the process the TFSP follows to review and analyze the performance of protection systems following selected major power system events, inside as well as outside NPCC.	Latest Version: December 6, 1999
			Frequency of Reviews: 3 Years
			Next Review Date: December 2002
	Status/ Comments:		

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Documents

123)B-21	Guide for Analysis and Reporting of Protection System Misoperations	Description: This document defines the analysis and reporting requirements for misoperations of protection systems and special protection systems on the bulk power systems within each of the NPCC Areas.	Latest Version: March 2001 Frequency of Reviews 3 years Next Review Date: March 2004
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Status/ Comments:

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Documents

71)B-4	Guidelines for NPCC Area Transmission Reviews	Description: Guidelines to help TFSS ascertain that each Area's transmission expansion plan, based on its proposed generation additions, has been developed in accordance with the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems."	Latest Version: August 7, 1996 Frequency of Reviews 3 Years Next Review Date: July 2001
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Status/ Comments: A draft revised document is currently posted for open process review. Comments will be accepted through July 14th 2000 and the document will be presented for RCC approval at the November meeting

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

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

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: June 2001

Status/ Comments: The draft revised document is currently posted for open process review. Comments will be accepted through July 15, 2000 with final approval expected at the July TFSS meeting.

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: July 2001

Status/ Comments: No necessary revisions to the scope have yet been identified. The Task Force Chairman is currently reviewing the document and the Scope will be discussed at the July 19-20, 2001 TFSS meeting.

Surveys/Reviews

76) NPCC Area Transmission Review
Description: Review of New York Area future transmission plans (5-7 years out)
Latest Version: November 2000
Frequency of Reviews: 1 Year
Next Review Date: September 2001

Status/ Comments: The New York Area comprehensive Transmission Review was approved by the TFSS at the July 20-21, 2000 meeting. The Area Review was also approved by TFCP and it has been provided to the RCC for approval during the November 2000 meeting. New York will be conducting an Intermediate Review in 2001.

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:** March 2001
Frequency of Reviews 1 Year
Next Review Date: March 2002

Status/ Comments: New England's comprehensive review will be presented to the RCC at the June 2001 meeting. An interim review will be conducted in 2002

78) NPCC Area Transmission Review **Description:** Review of Ontario Area future transmission plans (5-7 years out) **Latest Version:** December 1999
Frequency of Reviews 1 Year
Next Review Date: November 2001

Status/ Comments: Ontario is conducting an Interim Area review for 2001 and a Comprehensive Area Review in 2002.

79) NPCC Area Transmission Review **Description:** Review of Québec Area future transmission plans (5-7 years out) **Latest Version:** September 2000
Frequency of Reviews 1 Year
Next Review Date: November 2001

Status/ Comments: Transenergie will be conducting a Comprehensive Area Review for 2001.

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 1999
Frequency of Reviews: 1 Year
Next Review Date: July 2001
- Status/ Comments:** The Maritime Area Interim Review reports are being prepared by Nova Scotia and New Brunswick for TFSS review during the July 19-20 TFSS Meeting.
- 81)SS-38 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: December 2001
- Status/ Comments:** An assessment study will be conducted by the SS-38 Working Group. This study will be initiated once SS-38 completes the Overall NPCC Review. See item #86.
- 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:** October 2000
Frequency of Reviews: 1 Year
Completion Date: November 2001
- Status/ Comments:** All load flow cases required as part of the 2000 Base Case Development effort were completed and submitted to the NERC MMWG. See item # 85.
- Several load flow base case models and associated dynamic data were developed for and have been used in the Overall Transmission study conducted by SS-38.

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Surveys/Reviews

83)SS-38	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: July 2001

Status/ Comments: The SS-38 Working Group has conducted the Overall Transmission Reliability Study. Several load flow base case models and associated dynamic data modeling 2006 peak and light load conditions have been developed and were fine-tuned. The Study simulates contingencies in each of the NPCC Areas plus PJM to determine the overall robustness of the system. A draft report has been prepared and was reviewed by TFSS. Some minor edits remain and the final report will be approved by TFSS at their July 19-20 meeting with submission to the RCC planned for November 2001. The SS38 has also begun a study of the UFLS program in NPCC to determine its effectiveness and verify it is coordinated both from an inter-Area and inter-Regional perspective.

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: June 4, 1999
			Frequency of Reviews: 3 Years
			Next Review Date: June 2002

Status/ Comments: The survey and associated report is available on the NPCC web site under TFSS, Archives.

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

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.	2000 Budget:	\$20,000
			Expense to Date:	\$1,250
			Completion Date:	Ongoing

Status/ Comments: All load flow cases required for the NPCC year 2000 Base Case Development effort have been completed and submitted to NERC MMWG.
The group is currently working on the cases for the 2001 Base Case Development.

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.	2000 Budget:	\$20,000
			Expense to Date:	\$10,250
			Completion Date:	Ongoing

Status/ Comments: As assigned by TFSS, SS-38 has conducted the Overall NPCC Transmission Study to determine the overall robustness of the system from inter-area and inter-regional perspectives. It is anticipated that the study will receive TFSS approval and be presented to the RCC in June 2001.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

MACC - 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 2001 Summer MEN Interregional Transmission System Reliability Assessment was completed and was provided to the Joint Interregional Review Committee at its May 8, 2001 meeting. After approval, the report was placed in the "Seasonal Assessments" folder on the NPCC Home Page. Also reference items 96, 97 and 98.

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.

2000 Budget: \$12,000

Expense to Date: \$7,000

Completion Date: November 2000

Status/ Comments: The Working Group completed the 2001 Summer MEN Interregional Transmission System Reliability Assessment. The report was provided to the Joint Inter-regional Review Committee for review and was subsequently published on May 15, 2001. The Group is developing the 2001/02 winter study case.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

MACC - ECAR - NPCC (MEN)

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

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.

2000 Budget: \$0

Expense to Date: \$0

Status/ Comments: The MEN Future Systems Working Group is not staffed. At the April 5-6, 2001 Joint VEM/MEN Study Committee meeting the groups discussed regional studies currently underway or planned. ECAR is planning to do a study of year 2005 conditions. The NPCC CP-10 Collaborative Planning Initiative work is underway. MAAC is planning an internal study of year 2004-2005 conditions. VACAR is conducting a year 2005 study. Because of the uncertainties regarding generation additions in the MEN/VEM region the JIRC determine to defer a future study for the time being.

**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 (RAS) **Assignment:** Conduct an annual review of the overall reliability of the existing and planned generation and transmission systems of the ten Regional Reliability Councils for the ten year horizon. Conduct semiannual seasonal assessments of the overall reliability of the existing generation and transmission systems of the ten Regional Reliability Councils. **Completion Date:** May 2001

Status/ Comments: The Reliability Assessment Subcommittee's report on "Reliability Assessment 2001-2010" is in progress. The RAS finalized its assessment of summer 2001 operating conditions with a press conference on May 15, 2001.

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

Status/ Comments: The PSS is reviewing the comments submitted to the Phase II Planning Standards and also reviewing the Phases II, III and IV Planning Standards. PSS is working jointly with the NERC Compliance Review Subcommittee (CRS) in developing revised templates for the remaining Phases of the NERC Compliance Program as well as efforts that are underway to reduce reporting by combining measures. The PSS is also involved with commenting on the NERC Organizational Standards efforts that are underway.

**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 and dynamic simulation models for use by the Regions and their member systems in planning and evaluating future systems and current operating conditions.	2000 Budget:	\$12,000
			Expense to Date:	\$3,126
			Completion Date:	Ongoing

Status/ Comments: At its November 2000 meeting, NERC Planning Committee approved, the merger of SDDWG (reference item 105) and MMWG. This took effect immediately. The name MMWG was retained for the combined MMWG/SDDWG group. The new MMWG was directed to review and update the existing data release policies for power flow and dynamic data and models. In 2001, MMWG will assemble five dynamic models and eleven load flow models that will constitute the 2001 base case library. The NPCC SS-37 Working Group on Base Case Development provides the NPCC data for the base case library development. The dynamic models will be released by May 31, 2001.

102)LFWG	Load Forecasting Working Group	Assignment: Annually develops sensitivity bandwidths (for completion each July) about the US and Canadian forecast aggregations of peak demand and annual net energy for load. Develop the LFWG Position Paper on Preparing Demand Forecasts in a Deregulated Market to aggregate Transco/Disco forecasts within the Regions.	Completion Date:	July 2001
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Status/ Comments: The LFWG met February 15-16, 2001 to discuss aggregate projected demand bandwidth calculations including preparations for the "Peak Demand and Energy Projection Bandwidths: 2001-2010 " report. LFWG discussed how efforts of the Reliability Assessment Subcommittee (RAS) and the LFWG are converging. The LFWG also discussed providing additional information to RAS on forecasting uncertainties and the difficulties that could be experienced if regional forecast bandwidths were required in the future. The next meeting of the LFWG will be held on June 5, 2001 in Montreal.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

104)DCWG 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 submitting yearly data and in negotiating the requirements for data submission to the EIA. **Completion Date:** June 2001

Status/ Comments: The NERC DCWG met on May 16-18 with representatives from EIA to discuss results of this year's data collection effort and to plan next year's effort. In addition, EIA's major overhaul of the data requirements, planned for year 2002, was also discussed. The EIA is planning to significantly expand the program next year and the DCWG has been engaged with EIA to persuade them to better coordinate this expanded program and its reporting requirements with other government agencies to reduce the burden on the membership.

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. **2000 Budget:** \$15,000
Expense to Date: \$0
Completion Date: Ongoing

Status/ Comments: At its November 2000 meeting, the NERC Planning Committee approved Powertech Labs Inc. beginning in 2001 as the contractor for the maintenance of a system dynamics database and the development of dynamics simulation models for the Eastern Interconnection. The PC also approved, the merger of SDDWG and MMWG (reference item 101). The merger was effective immediately and the name MMWG was retained for the combined MMWG/SDDWG group.

**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

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 NERC ATCWG his preparing to monitor regional activity regarding the field testing of the TTC, ATC, TRM and CBM Standards. This review is to be completed by June 2001.

110)CRS Compliance Review Subcommittee

Assignment Develop NERC compliance procedures for those Planning Standards/Measurements that are in the NERC 2000 Compliance Program. Review/ develop Compliance Reports for the NERC 2000 Program as required. Apply Sanctions Matrix and calculate penalties , for the program, to those Planning Standards/Measurements that NERC has compliance monitoring and assessment responsibility. No penalties will be assessed until enforcement authority is established.

Completion Date: Ongoing

Status/ Comments: CRS is working jointly with the PSS on revising the Phase III Planning Standards Templates; continuing development of sanctions/penalties matrices, and discussing means to streamline the implementation of future Phases of the NERC Compliance Program

111)CS Compliance Subcommittee

Assignment Develop templates for measurements contained in NERC Operating Policies; Monitor compliance to those operating measurements in the 2000 NERC Compliance Program and prepare necessary documentation of Regional compliance/non-compliance as required.

Completion Date: Ongoing

Status/ Comments: Compliance Subcommittee review future Operating Compliance Templates.

Appendix A
NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT

BUDGET SUMMARY

ITEM NUMBER	PROJECT DESCRIPTION	2001 BUDGET	2001 EXPENSE
30	CO-1 Control Performance Working Group	\$27,000	\$3,900
31	CO-2 Dispatcher Training Working Group	\$22,350	\$4,950
32	CO-7 Operational Review Team Working Group	\$25,000	
33	CO-8 System Operations Managers Working Group	\$25,000	\$1,900
116	CO-9 Operational Policies Working Group	\$25,000	
	CO-10 Operational Tools Working Group	\$20,000	\$1,300
36	ATC NPCC Ad Hoc ATC Working Group	\$10,000	\$4,500
35	LECWG Lake Erie Circulation Working Group	\$15,000	\$650
	IRCWG Inter-Control Area Restoration Coordination Working Group	\$16,000	
	ETIWG Electronic Tagging Implementation Working Group	\$21,000	\$100
52	CP-8 Resource and Transmission Adequacy Working Group	\$70,000	\$2,900
53	CP-9 Review of NERC Planning Standards	\$7,500	\$650
	CP-10 Collaborative Planning Initiative Working Group	\$0	\$1,300
56	JGWWG Joint Glossary Working Group	\$5,000	
55	LCFWG Load, Capacity & Fuels Working Group	\$1,000	
85	SS-37 Base Case Development	\$30,000	\$3,200
86	SS-38 Reliability Review of Inter-Area Operation	\$30,000	\$13,400
92	EMT-1 Energy Management Technology Workshop Working Group	\$5,000	
97	MEN MAAC-ECAR-NPCC Activities	\$12,000	\$4,350
101	MMWG Multiregional Modeling Working Group		\$7,213
105	SDDWG Dynamic Database Working Group		
	CMAS Compliance Monitoring Assessment Subcommittee		\$3,200
	NERCWG NERC Subcommittees, Working Groups and Task Forces		
	NERC-ISN Interregional Security Network(ISN)		\$37,315
	STAFF	\$20,000	
115	Ad Hoc WG Summer 2000 Capacity		
	TOTAL	\$386,850	\$90,828

* At its September 7, 2000 meeting, the Executive Committee approved a recommendation that NPCC's 2001 Regional Budget include \$300,000 in Account #800 "Project Expense".

Appendix B
NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT

GOALS AND RESPONSIBILITIES

The Northeast Power Coordinating Council (NPCC) Membership Agreement, as amended to November 9, 1999, 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 brings together work done by the Council, its member systems and Areas (Independent System Operators - ISOs) relevant to the assessment of bulk power system reliability. Reviews and studies completed by member systems and Areas (ISOs) are not duplicated by the Council, but are 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 (RCC) has the responsibility for assessing the reliability of the present and proposed bulk power systems of the NPCC members. To this end, the RCC has assigned duties on an ongoing basis to NPCC Staff, the NPCC Compliance Monitoring and Assessment Subcommittee (CMAS) 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, guides, procedures & diagrams; and coordination of generation and transmission plans among the various investigations. In addition, all NPCC documents are regularly reviewed, and updated where required. Finally, compliance by NPCC members with the NPCC Criteria and Guides and the NERC Operating and Planning Standards are assessed on a regular basis by CMAS.

Ad Hoc Assessments

Flexibility to deal with non-routine issues is retained through assignments made by the RCC 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 RCC, rests with the NPCC member systems.

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

The NPCC Staff is responsible for the overall coordination of the Program.

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