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**RCC Meeting
July 10, 2002
Agenda Item 8.4**

July 1, 2002

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, July 2002

The NPCC Reliability Assessment Program (NRAP) Status Report will be updated in time for consideration at the July 10, 2002 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 available at the July 10, 2002 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
July 10, 2002
Agenda Item 8.4**

**Northeast Power Coordinating Council
Reliability Assessment Program**

STATUS REPORT

July 10, 2002

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

NPCC RELIABILITY ASSESSMENT PROGRAM

STATUS REPORT

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A) Budget Summary

NPCC RELIABILITY ASSESSMENT PROGRAM

STATUS REPORT

Highlights

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Compliance Monitoring and Assessment Subcommittee (CMAS)

NPCC participated in the NERC audit of the NPCC Compliance Program on April 4, 2002. The independent audit conducted by NERC showed that the NPCC compliance program established through Document A-8 (NPCC Reliability Compliance and Enforcement Program), Document B-22 (NPCC Guidelines for the Implementation of the Reliability Compliance and Enforcement Program) and C-32 (Review Process for NPCC Reliability Compliance Program) has demonstrated its effectiveness. A copy of the final report is available at NPCC member web site at <https://www.npcc.org/Member/subcommittee.asp>. Staff in conjunction with CMAS will address the recommendations from the audit.

CMAS completed a number of compliance assessments required through June 2002 under the NPCC Reliability Compliance and Enforcement Program. A report will be presented at the July 10 RCC meeting for approval.

NPCC participated in the NERC reliability authority audit of the New York and TransEnergie Areas. NERC will make available the results of these audits on its web site at <http://www.nerc.com/~comply/> under the Reliability Authority Certification heading. The remaining reliability authorities to be audited in NPCC are Ontario and New England, which have been scheduled for September. The reliability authority audit conducted at TransEnergie will replace the Area Compliance Review (Document C-32) that was scheduled earlier this year.

Task Force on Coordination of Operation (TFCO)

The revised NPCC Document A-03, "Emergency Operation Criteria," addressing restoration facility identification and periodic testing, was approved by the Reliability Coordinating Committee at its meeting of March 13, 2002 and submitted to the NPCC members for approval. A quorum of necessary votes in each voting segment has not yet been obtained.

A revised version of A-06 was posted for a first round of comment through the NPCC Open Review Process. Due to the extent of the comments received, the TFCO has returned the draft to the CO-1 Working Group to resolve still outstanding issues identified in its first posting. A second draft will be posted for comment, and it is anticipated that it will be submitted to the RCC at its November meeting.

The revised C-12 document had been approved by TFCO and was posted for NPCC Open Review in January 2002. There were no comments or revisions to the version approved by TFCO.

NPCC RELIABILITY ASSESSMENT PROGRAM

STATUS REPORT

Documents for the re-filing of the LEER Agreement have been finalized. The revised System Redispatch Procedure draft has been refined to provide clear price signals to prospective generator participants during system normal conditions. The re-filing is expected to be submitted to FERC in early July.

Task Force on Coordination of Planning (TFCP)

The Task Force has formed a working group CP-11 to review the Basic Design Criteria document A-2 and has begun the review process in the first quarter of 2002. The CP11 group will have the document revised and approved by the end of 2002

NPCC Document C-16, "Procedure for Review of Bulk Power System SPS" is currently being reviewed and the document A-7 "Glossary of Terms" will be considered/reviewed during the review of the A-2 Criteria by CP11 as well.

The CP-10 Collaborative Planning Initiative Phase II work has begun. A work plan and schedule for the group have been finalized and a final report will be produced in the fourth quarter of 2002.

Task Force on System Protection (TFSP)

TFSP has incorporated several clarifying changes to the NPCC Bulk Power System Protection Criteria (Document A-5) and aligned the sections in A-5 with the NPCC Special Protection System Criteria (Document A-11, currently a guideline, Document B-11). Both A-5 and A-11 will be reposted in NPCC Open Process for further comments before being submitted to the RCC in November 2002.

TFSP has completed the review of the NPCC Guide for the Application of Autoreclosing to the Bulk Power System (Document B-1), the Automatic Underfrequency Load Shedding Program Relaying Guideline (Document B-7), the Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System (Document C-22) and the Procedure for Task Force on System Protection Review of Disturbances and Protection Misoperations (Document C-30). These documents along with any recommended changes by the Task Force will be posted in the NPCC Open Process for a 45-day comment period.

Task Force on System Studies (TFSS)

TFSS is currently reviewing the C-25 document, "Procedure to Collect Power System Event Data" which is currently posted in NPCC Open Process for a comment period of 45 days.

NPCC RELIABILITY ASSESSMENT PROGRAM

STATUS REPORT

Also posted is document B-10, "Guidelines for Requesting Exclusions to Sections 5.1(B) and 6.1(B) of the NPCC *Basic Criteria for Design and Operation of Interconnected Power Systems*". Document C-18, Procedure for Analysis of Extreme Contingencies is currently undergoing an initial draft and will subsequently be posted. Document C-33, "DCS Procedure", was developed and approved by the Task Force.

**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 2001 Frequency of Reviews: 1 year Next Review Date: November 2002
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Status/ Comments: 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 2002
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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
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Status/ Comments: Also reference items 117 and 118.

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.	2002 Budget	\$15,000
			Expense to Date:	\$6,150
			Completion Date:	On-Going

Status/ Comments: CO-10 had coordinated the implementation/start-up of ETag 1.7 in the NPCCC Areas. Within NPCC this implementation occurred without significant problems. An Open Scheduling System User's Group meeting/workshop was conducted on June 13 in Montreal. The workshop included OATI presentations and the coordination of OSS and the OATI scheduling programs was discussed.

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:	March 2002

Status/ Comments: The revised NPCC Document A - 3, Emergency Operation Criteria, addressing restoration facility identification and periodic testing, was approved by the Reliability Coordinating Committee at its meeting of March 13, 2002 and submitted to the NPCC members for approval. A quorum of necessary votes in each voting segment has not yet been obtained.

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: November 7, 2001 Frequency of Reviews: 3 Years Next Review Date: November 2004
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Status/ Comments: A revised version of A-06 was posted for a first round of comment through the NPCC Open Review Process. Due to the extent of the comments received, the TFCO has returned the draft to the CO-1 Working Group to resolve still outstanding issues identified in its first posting. A second draft will be posted for comment, and it is anticipated that it will be submitted to the RCC at its November meeting. Also reference item 18.

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: March 2002
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Status/ Comments: The requirements of NPCC Document B-03 are being transferred to NPCC Document A-02 by NPCC Working Group CP-11, "Working Group on Review of the NPCC Basic Criteria." The remaining language is being established in a new Reference Document.

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: March 2002
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Status/ Comments: The requirements of NPCC Document B-09 are being transferred to NPCC Document A-02 by NPCC Working Group CP-11, "Working Group on Review of the NPCC Basic Criteria." The remaining language are being established in a new Reference Document.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

- | | | | |
|---|--|---|--|
| 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: March 2002 |
| Status/ Comments: All requirements of NPCC Document B-13 are in the process of being transferred to NPCC Document A-03. | | | |
| 8)RD-03 (| Procedures for Communications During Emergencies | Description: These Procedures direct NPCC's implementation of the NERC Interregional Emergency Telephone Network. The NERC Interregional Emergency Telephone Network is utilized to convey to other reliability authorities in North America system conditions that could threaten the reliability of the interconnected bulk power supply system or the imminent shedding of firm load. | Latest Version: September 18, 2001
Frequency of Reviews: 1 Year
Next Review Date: September, 2002 |
| Status/ Comments: This document was formerly NPCC Procedure C-03. Reference Document 03 was updated to integrate the NPCC Area participation in the Interregional Emergency Telephone Network. | | | |
| 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 of NPCC control performance during normal conditions. | Latest Version: January 15, 2002
Frequency of Reviews: 3 Years
Next Review Date: January, 2005 |
| Status/ Comments: NPCC Document C-08 is being revised to incorporate the implementation of ACE Diversity Interchange. | | | |

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

14)C-11	Monitoring Procedures for Interconnected System Frequency Response	Description: Procedures are established for monitoring and reporting the frequency responses to large generation losses.	Latest Version: March 25, 1998 Frequency of Reviews: 3 Years Next Review Date: March 2002
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Status/ Comments: A revised Reference Document to assess large frequency excursions on the system is now being drafted.

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: January 15, 2002 Frequency of Reviews: 3 Years Next Review Date: January, 2005
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Status/ Comments: The revised C-12 document had been approved by TFCO and was posted for NPCC Open Review in January 2002. There were no comments or revisions to the version approved by TFCO.

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: September 2002
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Status/ Comments: Reference also item 28. The requirements of C-13 are being redirected to NPCC Document A-03, and the details of reporting are being redrafted as a Reference Document.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

17)C-15	Procedures for Solar Magnetic Disturbances on Electrical Power Systems	Description: Procedures are established providing for the reporting channels and information available to the operator during solar alerts and suggesting measures that may be taken to mitigate the impact of a solar magnetic disturbance.	Latest Version: November 7, 2000 Frequency of Reviews: 3 Years Next Review Date: November 2003
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Status/ Comments:

18)C-19	Procedures During Shortages of Operating Reserve	Description: This Procedure establishes specific instructions for the redistribution of Operating Reserve among the Areas when one or more Areas is experiencing an Operating Reserve deficiency.	Latest Version: January 18, 2000 Frequency of Reviews: 3 Years Next Review Date: Sptember 2002
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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 are being 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
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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 are being transformed into a Reference Document.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Documents

21)	Task Force Scope	Description: The overall charge to the TFCO, together with the scope of activities, is given to the Task Force through its scope.	Latest Version: June 29, 1999 Frequency of Reviews: 3 Years Next Review Date: September 2002
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Status/ Comments: The Terms of Reference of the NPCC Task Force on Coordination of Operation are currently being developed..

Surveys/Reviews

28)	Survey of NPCC Facilities Notification 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: January 2002 Frequency of Reviews: 1 Year Next Review Date: January 2003
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Status/ Comments: The TFCO finalized the 2002 document at its meeting of January 2002. 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.	2002 Budget: \$5,000 Expense to Date: \$6,100
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Status/ Comments: The IRCWG had completed revisions to A-03 which adds the specificity of requirements for testing those facilities critical to system restoration. The revisions were incorporated into the revised A-03 document that was approved by the RCC and is now being voted upon by the NPCC Membership.

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.	2002 Budget:	\$20,000
			Expense to Date:	\$15,400

Status/ Comments: The Control Performance Working Group (CO-1) is developing a second draft of NPCC document A-6, "Operating Reserve Criteria", to address comments received during its first posting, and it is currently implementing 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.	2002 Budget:	\$15,000
			Expense to Date:	\$5,575
			Next Seminar:	Ongoing

Status/ Comments: The Dispatcher Training Working Group (CO-2) conducted its spring training seminar on May 1-2, 2002, at the ISO New England Inc.

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.	2002 Budget:	\$5,000
			Expense to Date:	\$0

Status/ Comments: The Working Group is assembled to assist CMAS in the technical aspects of its compliance audits.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

33)CO-8	System Operations Managers Working Group	Assignment: Provide a forum for the Managers of the NPCC control centers to identify and discuss security concerns in the operation of the interconnected bulk power supply system, and specific concerns related to the integration of operation between and among the evolving ISOs. The System Operations Managers Working Group will also assist the Task Force on Coordination of Operation in their work on issues related to system security and the operation of the ISOs, and provide advice to the TFCO, as requested.	2002 Budget:	\$15,000
			Expense to Date:	\$11,275

Status/ Comments: The CO-8 Working Group has revised the procedures for the NPCC Emergency Preparedness Conference Call and has established a conference call mechanism to ensure immediate Area participation on a 24 x 7 basis..

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.	2002 Budget:	\$10,000
			Expense to Date:	\$1,950

Status/ Comments: Documents for the refiling of the LEER Agreement have been finalized. The package of these documents include the revised Agreement, the filing document that will go to FERC and the signature sheets. Refiling with FERC is expected in early July, 2002. The System Redispatch Procedure draft has been refined to consider plausible actions by generator participants.

TASK FORCE ON COORDINATION OF OPERATION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

36)	NPCC Ad Hoc Working Group on ATC	Assignment: Formulate NPCC's responses to the updated charges from the NERC Engineering Committee (EC) to the NERC ATC Implementation Working Group. These include: the development of an ATC compliance review schedule; the coordination of intra-/inter-regional ATC postings; the development of data exchange guidelines; the assessment of the commercial viability of ATC calculations; and the continued review of the TRM/CBM parameters	2002 Budget:	\$5,000
			Expense to Date:	\$650

Status/ Comments: The Working Group's activities are on hold pending any changes required by NERC.

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.	2002 Budget:	\$25,000
			Expense to Date:	\$300
			Completion Date:	May 2002

Status/ Comments: The 2002 Summer Assessment report was completed and issued in May. A separate Executive Summary was developed along with a summary of the CP-8 study results and this was provided to the Press and was posted on the NPCC web site. A set of recommendations were provided to the NPCC Executive Committee during their June 6 meeting.

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 has begun review of this document.

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). Expected completion and approval of revised document to be by the end of 2002.

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: June 28, 2001 Frequency of Reviews: 3 Years Next Review Date: June 2004
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Status/ Comments:

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Documents

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

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: December 2001
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Status/ Comments:

Surveys/Reviews

42)	Resource Adequacy — Coordination and Review of Area Studies	Description: Review of the New York Area resource adequacy study.	Latest Version: June 29, 1999 Frequency of Reviews: 3 Years Next Review Date: June 2002
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Status/ Comments: NY Triennial Review of Resource Adequacy has been completed and is to be presented to the RCC for approval at their July 2002 meeting.

TASK FORCE ON COORDINATION OF PLANNING

PROGRAM ITEM NUMBER

Surveys/Reviews

43) Resource Adequacy — **Description:** Review of the New England Area resource adequacy study. **Latest Version:** March 2000
Coordination and Review of Area **Frequency of Reviews:** 3 Years
Studies **Next Review Date:** March 2003

Status/ Comments:

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

Status/ Comments:

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

Status/ Comments: Quebec is currently conducting their Resource Adequacy Review.

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 2002
Coordination and Review of Area **Frequency of Reviews:** 3 Years
Studies **Next Review Date:** March 2005

Status/ Comments:

47) NPCC Area Transmission Review **Description:** Review of the New York Area future transmission **Latest Version:** March 2002
plans (5-7 years out) **Frequency of Reviews:** 1 Year
Next Review Date: March 2003

Status/ Comments:

48) NPCC Area Transmission Review **Description:** Review of the New England Area future transmission **Latest Version:** June 2002
plans (5-7 years out) **Frequency of Reviews:** 1 Year
Next Review Date: June 2003

Status/ Comments: TFSS and TFCP approved an Interim Review for New England

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: February 2002

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: January 2002

Status/ Comments: Quebec is currently conducting their Comprehensive Area Review.

51) NPCC Area Transmission Review **Description:** Review of the Maritime Area future transmission plans (5-7 years out) **Latest Version:** March 2002
Frequency of Reviews: 1 Year
Next Review Date: March 2003

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.	2002 Budget: \$60,000
			Expense to Date: \$37,675
			Completion Date: Ongoing

Status/ Comments: Summer 2002 Multi-Area Probabilistic Reliability Assessment completed May 2002

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.	2002 Budget: \$20,000
			Expense to Date: \$0
			Completion Date: Ongoing

Status/ Comments: CP-9 will focus on the 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.	2002 Budget: \$0
			Expense to Date: \$0
			Completion Date: Ongoing

Status/ Comments:

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

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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.	2002 Budget:	\$0
				Expense to Date:	\$0
				Completion Date:	1) EIA-411 data: April 2002 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.	2002 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 2002

Status/ Comments: This document will be reviewed concurrently with the A-2 Basic Design Criteria Document by the CP11 Working Group

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 2001
			Frequency of Reviews: 1 Year
			Next Review Date: June 2002

Status/ Comments: Maintenance of the SPS List has has been transferred to the TFCP from the TFSP. The TFSP will continue in a consulting role. Also reference item 67. The 2002 SPS List will be presented to the RCC as an informational item at their July 2002 meeting.

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 2001 Frequency of Reviews: 3 Years Next Review Date: November 2004
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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 2001 Frequency of Reviews: 3 Years Next Review Date: November 2004
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Status/ Comments: Reference also item number 87.

This Document will be reviewed at the TFEMT November 2001 meeting.

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 2002 Frequency of Reviews: 1 Year Next Review Date: February 2003
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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.

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 July 2002
			Frequency of Reviews: As Required

Status/ Comments: The TFEMT reviewed the NCPP disturbances at the May 15, 2002 meeting.

91)	Review On-Line Computer System Status Reports	Description: Review of member on-line computer system statuses and plans.	Latest Review: May 2002
			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.	2002Budget: \$5000
			Expense to Date: \$0 ?
			Last Workshop: May 16, 2002
			Next Workshop: To be announced

Status/ Comments: The TFEMT had a successful workshop on May 16, 2002 in Montreal, Canada.

TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

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|-----|---|---|--|
| 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 2002
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.

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|-----|--|--|--|
| 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:

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 2004
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Status/ Comments: As part of the triennial review, the TFSP has made additional clarifying changes to A-5 and will repost the document in the NPCC Open Process. Also reference item 62 and 114.

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: The TFSP has completed its review of this guide and will post this document in the NPCC Open Process for a 45-day comment period.

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: The TFSP has completed its review of this guide and will post this document in the NPCC Open Process for a 45-day comment period.

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: This document is being recommended for conversion to an "A-11" criteria document. The proposed revisions have been posted in the NPCC Open Process. All comments have been addressed. Some editing issues for clarification remain, after which an A-11 will be submitted for endorsement by the RCC at the June 2002 meeting and for approval by the membership.

63)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 PROTECTION

PROGRAM ITEM NUMBER

Documents

64)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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Status/ Comments: The TFSP has completed its review of this procedure and will post this document in the NPCC Open Process for a 45-day comment period.

68)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
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Status/ Comments: The TFSP has completed its review of this procedure and will post this document in the NPCC Open Process for a 45-day comment period.

69)	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 reviewing clarifications to their scopes to define their respective roles regarding areas of complementary or overlapping interests.

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Surveys/Reviews

70) Review protection systems for proposed installations or existing installations undergoing substantial modifications

Description: Review, in accordance with the Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System (Document C-22) proposed protection systems, including special protection systems, for new major installations as well as existing installations undergoing substantial modifications, before such facilities are constructed or modified and report on the findings with respect to compliance with the NPCC Bulk Power System Protection Criteria (Document A-5).

Latest Version: Ongoing

Frequency of Reviews: As Required

Status/ Comments: At each meeting, the TFSP discusses protection system changes, including SPS installations and modifications, as proposed by entities within NPCC.

114) 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 to determine if any changes are necessary in the NPCC protection criteria.

TASK FORCE ON SYSTEM PROTECTION

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

- 123) 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:** December 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.

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

)CP10	Collabrative Planning Initiative	The CP10 Working Group is tasked with determination of the effects of proposed new generation and transmission in the year 2006. The group will initially be studying the effects the additions have on existing bottlenecks as well as any new ones. The study will then focus on various scenarios as defined by working group members to determine the impacts on those bottlenecks identified. Future study this group will undertake will involve solving the problem bottlenecks and an economic evaluation of those solutions.	Budget 2002	\$20,000
			Expense to Date:	\$5,420

Status/ Comments: Phase 1 of the study was approved by the RCC in March identifying approximately 50 transmission bottlenecks for a 2006 study year. Phase 2 of the study is currently underway which will prioritize those bottlenecks found in Phase 1 and is scheduled to be completed by September 2002

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:	November 7, 2001
			Frequency of Reviews:	3 Years
			Next Review Date:	November 2004

Status/ Comments:

72)B-10	Guidelines for Requesting Exclusions to Section 5.1 (B) and 6.1 (B) of the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems"	Description: Establishes procedures for requesting exclusion from certain contingencies in the Basic Criteria. Note: Member Representatives shall be advised of approvals by the Reliability Coordinating Committee of applications for exclusions.	Latest Version:	June 26, 1998
			Frequency of Reviews:	3 years
			Next Review Date:	January 2002

Status/ Comments: The document is currently undergoing revision by the Task Force.

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Documents

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: This document is currently under review and posted in Open Process.

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: May 5, 2001 Frequency of Reviews: 3 years Next Review Date: June 2004
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Status/ Comments:

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: January 2002
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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 18-19, 2002 TFSS meeting.

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Surveys/Reviews

76) NPCC Area Transmission Review **Description:** Review of New York Area future transmission plans (4-6 years out) **Latest Version:** March 2002
Frequency of Reviews: 1 Year
Next Review Date: March 2003

Status/ Comments:

77) NPCC Area Transmission Review **Description:** Review of New England Area future transmission plans (4-6 years out) **Latest Version:** March 2001
Frequency of Reviews: 1 Year
Next Review Date: March 2002

Status/ Comments: An interim review will be conducted in 2002

78) NPCC Area Transmission Review **Description:** Review of Ontario Area future transmission plans (4-6 years out) **Latest Version:** December 2001
Frequency of Reviews: 1 Year
Next Review Date: December 2002

Status/ Comments: Ontario is currently conducting Comprehensive Area Review in 2002 and will be submitted to the RCC for approval at their November meeting..

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Surveys/Reviews

79) NPCC Area Transmission Review **Description:** Review of Québec Area future transmission plans (4-6 years out) **Latest Version:** September 2000
Frequency of Reviews: 1 Year
Next Review Date: December 2001

Status/ Comments: Transenergie is conducting a Comprehensive Area Review for 2002.

80) NPCC Area Transmission Review **Description:** Review of Maritime Area (New Brunswick and Nova Scotia) future transmission plans (4-6 years out) **Latest Version:** March 2002
Frequency of Reviews: 1 Year
Next Review Date: March 2003

Status/ Comments:

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 is currently underway See item #86.

TASK FORCE ON SYSTEM STUDIES

PROGRAM ITEM NUMBER

Surveys/Reviews

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: November 2001
			Frequency of Reviews: 1 Year
			Completion Date: November 2002

Status/ Comments: All load flow cases required as part of the 2001 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.

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: May 2001
			Frequency of Reviews: 3 Years
			Completion Date: May 2004

Status/ Comments: The SS-38 Working Group has conducted the 2001 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. The report will be sent to the RCC for approval at their July 2002 Meeting

84)SS-38	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: SS-38 will conduct the Survey in the third quarter of 2002

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.	2002 Budget:	\$10,000
			Expense to Date:	\$5,350
			Completion Date:	Ongoing

Status/ Comments: All load flow cases required for the NPCC year 2001 Base Case Development effort have been completed and submitted, with the associated dynamics data, to NERC MMWG. The group is currently working on the schedule and cases for the 2002 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.	2002 Budget:	\$20,000
			Expense to Date:	\$15,050
			Completion Date:	Ongoing

Status/ Comments: The SS38 has completed studies of the UFLS program in NPCC to determine its effectiveness and verify it is coordinated both from an inter-Area and inter-Regional perspective. A draft report documenting these studies has been prepared and will be provided to TFSS for review during the July TFSS meeting. It is anticipated that a final report will be provided to the RCC for approval in November, 2002.

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: On-going

Status/ Comments: The 2002 Summer MEN Interregional Transmission System Reliability Assessment was completed and was approved by the Joint Interregional Review Committee at its May 8, 2002 meeting. The MEN 2002 Summer Study simulated market-to-market transfers (e.g. Allegheny Power generation dispatched as part of PJM) to reflect actual operation practices. Also reference items 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.

2002 Budget: \$10,000

Expense to Date: \$2,450

Completion Date: On-Going

Status/ Comments: The Working Group has started development of the 2002/03 Winter Study Base Case. The MEN/VEM Base Case Coordinators meeting is scheduled for mid-July.

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 its May 8 meeting the Joint Interregional Review Coordination Group discussed possible future study work for the MEN and VEM groups. Because of migration from traditional region-to-region to a market-to-market study methodology, because of uncertainties regarding generation additions in the MEN/VEM region and because of expected difficulty in obtaining staff to conduct a future study the JIRC determined to defer a future study for the time being.

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:** On-Going

Status/ Comments: The RAS finalized and issued its assessment of summer2002 operating conditions. The final draft of its annual ten-year assessment of the reliability of the bulk power supply system, "Reliability Assessment 2002-2011: The Reliability of Bulk Electric Systems in North America," will be completed in August.

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 IIB 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 and has developed the Bulk Power System Definition slated to go to the NERC Planning Committee at their November meeting .

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: The MMWG was directed to review and update the existing data release policies for power flow and dynamic data and models. In 2002, MMWG will assemble five dynamic models and eleven load flow models that will constitute the 2002 base case library. The NPCC SS-37 Working Group on Base Case Development provides the NPCC data for the base case library development.

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:	Ongoing
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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.

**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:** Ongoing

Status/ Comments: The NERC DCWG met in May 2002 and discussed data submitted as part of the 2002 EIA data collection effort. A third quarter 2002 meeting will be held in Baltimore MD to discuss the 2003 data collection efforts.

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: The SDDWG has now merged with the MMWG and the name MMWG has been retained for both groups.

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 group has submitted a remediation plan to NERC in response to a level 1 non-compliance assessment in the pilot Phase II B Compliance Program and has developed the NPCC Regional Data Posting System which is a web page initially containing TTC-ATC Area information. The group has also drafted a set of comments to Phase IIB of the NERC Compliance Program.

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL (NERC)

PROGRAM ITEM NUMBER

Working Groups/Ad Hoc Assignments

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 and PSS are discussing the future of their roles in light of the NERC BOT approval of the NERC Organizational Standards Process (NOSP). CRS is continuing development of sanctions/penalties matrices, and discussing means to streamline the implementation 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: Discussions are taking place to merge this group with CRS. Expected to be finalized in the fourth quarter of 2002.

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

BUDGET SUMMARY

ITEM NUMBER	PROJECT DESCRIPTION	2002 BUDGET	2002 EXPENSE
30	CO-1 Working Group on Control Performance	\$20,000	\$15,400
31	CO-2 Working Group on Dispatcher Training	\$15,000	\$5,575
32	CO-7 Operational Review Working Group	\$5,000	\$0
33	CO-8 System Operating Managers Working Group	\$15,000	\$11,275
116	CO-9 Operational Policies Working Group	\$10,000	\$0
	CO-10 Operational Tools Working Group	\$15,000	\$6,150
	CMAS		\$1,300
	LESPWG Lake Erie Security Process Working Group	\$10,000	\$1,950
36	ATCWG Available Transfer Capability Working Group	\$5,000	\$650
	IRCWG Inter-Control Area Restoration Coordination Working Group	\$5,000	\$6,100
52	CP-8 Resource and Transmission Adequacy Working Group	\$60,000	\$37,675
	TFCO Summer 2002 Assessment Ad Hoc Working Group	\$25,000	\$300
	CP-9 Review of NERC Planning Standards	\$20,000	\$0
	CP-10 Collaborative Planning Initiative Working Group	\$20,000	\$5,420.15
	RPF Regional Planning Forum	\$50,000	\$13,654
	CP-11 Working Group to Review NPCC Basic Criteria for Design and Operation of Interconnected Power Systems	\$30,000	\$0
56	JGWWG Joint Glossary Working Group	\$5,000	\$0
85	SS-37 Working Group on NPCC Base Case Development	\$10,000	\$5,350
86	SS-38 Working Group on Reliability Review of Inter-Area Operation	\$20,000	\$15,050

Appendix A

June 27, 2002

**NPCC RELIABILITY ASSESSMENT PROGRAM
STATUS REPORT**

BUDGET SUMMARY

ITEM NUMBER	PROJECT DESCRIPTION		2002 BUDGET	2002 EXPENSE
92	EMT-1	Energy Management Technology Workshop Working Group	\$5,000	\$0
97	MEN	MAAC-ECAR-NPCC Activities	\$10,000	\$2,450
101	MMWG	Multiregional Modeling Working Group	\$5,000	\$0
	NERC-ISN	Interregional Security Network(ISN)	\$116,000	\$43,526.89
	STAFF		\$	\$0
	TFSS			\$2,600
	TOTAL		\$476,000 *	\$174,426.04

* At its October 10, 2001 Meeting, the Executive Committee approved a recommendation that NPCC 's 2002 Budget include \$360,000 in Account #800 "Project Expense."

Appendix A

June 27, 2002