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**RCC Meeting  
November 7, 2001  
Agenda Item 10.1**

November 7, 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, November 2001**

The November 2001 NPCC Reliability Assessment Program (NRAP) Status Report will be updated in time for consideration at the November 7, 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 available at the November 7, 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  
November 7, 2001**

**Northeast Power Coordinating Council  
Reliability Assessment Program**

**STATUS REPORT**

**November 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**
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# NPCC RELIABILITY ASSESSMENT PROGRAM

## STATUS REPORT

### Highlights

#### **ITEM NUMBER**

#### **Compliance Monitoring and Assessment Subcommittee (CMAS)**

At the November 7, 2001 meeting, the RCC will consider the compliance assessment recommendations by CMAS for the 2001 implementation of the NPCC Reliability Compliance and Enforcement Program (Document A-8). Document A-8 as revised for implementation beginning March 1, 2002 will also be considered for endorsement by the RCC and approval by the Membership.

CMAS directed the Review Process for the NPCC Reliability Compliance Program (Document C-32) of the Ontario Area on October 24-25, 2001. The review team includes members from TransEnergie (Quebec) and New Brunswick Power (Maritimes) and NPCC staff. CMAS will provide a report of the review at the next regular RCC meeting.

#### **Task Force on Coordination of Operation (TFCO)**

The November 7, 2001, meeting of the NPCC Reliability Coordinating Committee will receive NPCC Document A-06, "Operating Reserve Criteria," for approval.

NPCC Document A-03, "Emergency Operation Criteria," has been posted for public comment through the NPCC Open Review Process. Due to the substantive comments received, the document will be posted for a second period of review and comment.

#### **Task Force on Coordination of Planning (TFCP)**

#### **Task Force on System Protection (TFSP)**

The Task Force is reviewing the NPCC Bulk Power System Protection Criteria (Document A-5) and the disposition of mandatory requirements in the NPCC Special Protection System Guideline (Document B-11) for conversion to an "A" criteria document. The proposed changes will be posted in the NPCC Open Process for a comment period of 45 days.

**NPCC RELIABILITY ASSESSMENT PROGRAM**

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**Task Force on System Studies (TFSS)**

Document B-4 will be presented to the RCC for approval at the November 2001 meeting. The TFSS has also approved the SS-38, 2000 Overall Transmission Assessment Report and will be presented as an informational item to the RCC.

**NPCC RELIABILITY ASSESSMENT PROGRAM  
STATUS REPORT**

**COMPLIANCE MONITORING AND ASSESSMENT SUBCOMMITTEE**

**PROGRAM ITEM NUMBER**

**Documents**

- |          |   |   |  |
|----------|---|---|--|
| 117)A-8  | Reliability Compliance and Enforcement Program  | <b>Description:</b> The process and requirements are defined for compliance assessment and enforcement of selected reliability criteria and standards.  | <b>Latest Version:</b> November 2000<br><b>Frequency of Reviews:</b> 1 year<br><b>Next Review Date:</b> November 2001    |
|          | <b>Status/ Comments:</b> CMAS has recommended a number of changes to clarify the compliance requirements and to ensure that A-8 stays current with the NPCC criteria, guides and procedures. The revised A-8 will be submitted for endorsement by the RCC and approval by the membership at the November 2001 meetings. Also reference items 118 and 119. |   |  |
| 118)B-22 | Guidelines for the Implementation of the Reliability Compliance and Enforcement Program (RCEP)  | <b>Description:</b> 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. | <b>Latest Version:</b> November 9, 2000<br><b>Frequency of Reviews:</b> 1 Year<br><b>Next Review Date:</b> November 2002 |
|          | <b>Status/ Comments:</b> CMAS recommended no changes to this document. Reference items 117 and 119.   |   |  |
| 119)C-32 | Review Process for NPCC Reliability Compliance Program  | <b>Description:</b> 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.   | <b>Latest Version:</b> June 23, 2000<br><b>Frequency of Reviews:</b> 3 years<br><b>Next Review Date:</b> June 2003       |
|          | <b>Status/ Comments:</b> 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.

**Status/ Comments:** The CO-10 Working Group met on August 24 and October 18. CO-10 is presently working on the advancement and implementation of the Open Scheduling System (OSS). This includes scheduling and coordination of NPCC (Nov. 8 Users Group Meeting-Montreal) and Industry (tentative Dec. 6-Detroit) Workshops/Meetings provide information on the features and use of the OSS. CO-10 has coordinated the time stamps used in the ACE Diversity Interchange project. CO-10 is also assisting in the implementation of and communication of 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:** March 2002

**Status/ Comments:** A revised NPCC Document A - 3, Emergency Operation Criteria, addressing restoration facility identification and periodic testing, will be resubmitted for a second round of public comment through the NPCC Process for Open Review. Also reference items 10, 18, 19, 23 and 29.



**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Documents**

2)A-6	Operating Reserve Criteria	<b>Description:</b> Objectives, principles and requirements are presented that govern the amount, availability and distribution of operation reserve.	<b>Latest Version:</b> September 1998 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> November 2001
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**Status/ Comments:** The revised draft of A-06 has received public comment through the NPCC Open Review Process and has been submitted to the RCC for approval. Also reference items 13, 18 and 27.

3)B-2	Control Performance Guide During Normal Conditions	<b>Description:</b> Standards are established with which the NPCC Areas and systems within the Areas may measure control performance.	<b>Latest Version:</b> <b>Frequency of Reviews:</b> <b>Next Review Date:</b>
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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	<b>Description:</b> Procedures and principles are established for occasions where a deficiency or an excess of reactive power can affect bulk power system voltage levels in a large portion of an Area or in two adjacent Areas.	<b>Latest Version:</b> November 6, 1997 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> March 2002
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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:** March 2002

**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:** March 2002

**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:** December 2001

**Status/ Comments:** Reference also item 16. NPCC Document C-3 has been redrafted to coordinate with the restructuring of the NERC Hotline. The document is currently posted to receive public comment through the NPCC Open Review Process.

**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Documents**

- |  |   |   |  |
|--|---|---|--|
| 9)C-4  | Monitoring Procedures for Guidelines for Inter-AREA Voltage Control | <b>Description:</b> Procedures are established for the Task Force on Coordination of Operation's monitoring and reporting of conformance with NPCC's Guidelines for Inter-AREA Voltage Control. | <b>Latest Version:</b><br><b>Frequency of Reviews:</b><br><b>Next Review Date:</b> |
| <b>Status/ Comments:</b> Also reference items 4 and 22. This function has been assumed by the NPCC Compliance Monitoring and Assessment Subcommittee. Document C-04 has been replaced by Self-Certification Form C-4, available from the NPCC Web site at the following URL:<br>"http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms". Future releases of the NPCC Reliability Assessment Program Status Report will not list this item.     |   |   |  |
| 10)C-5   | Monitoring Procedures for Emergency Operation Criteria              | <b>Description:</b> Procedures are established for the Task Force on Coordination of Operation's monitoring and reporting of conformance with NPCC's Emergency Operation Criteria.              | <b>Latest Version:</b><br><b>Frequency of Reviews:</b><br><b>Next Review Date:</b> |
| <b>Status/ Comments:</b> Also reference items 1, 23 and 29. This function has been assumed by the NPCC Compliance Monitoring and Assessment Subcommittee. Document C-05 has been replaced by Self-Certification Form C-5, available from the NPCC Web site at the following URL:<br>"http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms". Future releases of the NPCC Reliability Assessment Program Status Report will not list this item. |   |   |  |

**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Documents**

- |        |   |  |  |
|--------|---|--|--|
| 11)C-7 | Monitoring Procedures for Guide for Rating Generating Capability  | <b>Description:</b> Procedures are established for the Task Force on Coordination of Operation's monitoring and reporting of conformance with NPCC's Guide for Rating Generating Capability.             | <b>Latest Version:</b><br><b>Frequency of Reviews:</b><br><b>Next Review Date:</b> |
|        | <b>Status/ Comments:</b> Also reference items 5 and 25. This function has been assumed by the NPCC Compliance Monitoring and Assessment Subcommittee. Document C-07 has been replaced by Self-Certification Form C-7, available from the NPCC Web site at the following URL:<br>"http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms". Future releases of the NPCC Reliability Assessment Program Status Report will not list this item.  |  |  |
| 12)C-8 | Monitoring Procedures for Control Performance Guide During Normal Conditions  | <b>Description:</b> Procedures are established for the Task Force on Coordination of Operation's monitoring and reporting of conformance with NPCC's Control Performance Guide During Normal Conditions. | <b>Latest Version:</b><br><b>Frequency of Reviews:</b><br><b>Next Review Date:</b> |
|        | <b>Status/ Comments:</b> Also reference items 3 and 26. This function has been assumed by the NPCC Compliance Monitoring and Assessment Subcommittee. Document C-21 has been replaced by Self-Certification Form C-21, available from the NPCC Web site at the following URL:<br>"http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms". Future releases of the NPCC Reliability Assessment Program Status Report will not list this item. |  |  |

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**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Documents**

- |   |  |   |  |
|---|--|---|--|
| 13)C-9  | Monitoring Procedures for Operating Reserve Criteria               | <b>Description:</b> Procedures are established for the Task Force on Coordination of Operation's monitoring and reporting of conformance with NPCC's Operating Reserve Criteria | <b>Latest Version:</b><br><b>Frequency of Reviews:</b><br><b>Next Review Date:</b>                                   |
| <b>Status/ Comments:</b> Also reference items 2 and 27. The monitoring procedures and methodology of NPCC Document C-09 have been embodied in NPCC Document A-08. Future releases of the NPCC Reliability Assessment Program Status Report will not list this item. |  |   |  |
| 14)C-11   | Monitoring Procedures for Interconnected System Frequency Response | <b>Description:</b> Procedures are established for monitoring and reporting the frequency responses to large generation losses.   | <b>Latest Version:</b> March 25, 1998<br><b>Frequency of Reviews:</b> 3 Years<br><b>Next Review Date:</b> March 2002 |
| <b>Status/ Comments:</b> 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)        | <b>Description:</b> Procedures are established to provide for the shared activation of ten minute reserve on an Area basis.   | <b>Latest Version:</b> May 8, 2001<br><b>Frequency of Reviews:</b> 3 Years<br><b>Next Review Date:</b> May 2004      |
| <b>Status/ Comments:</b> 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.  |  |   |  |

**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Documents**

16)C-13 Operational Planning Coordination **Description:** Procedures are established to coordinate the exchange of operational data, provide for the notification of planned facility outages among the Areas, and provide for formal communications among the Areas in anticipation of a period of capacity shortage or light load conditions. 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:** March 2002

**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.

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:** March 2002

**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.

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

**PROGRAM ITEM NUMBER**

**Documents**

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

20)C-21	Monitoring Procedures for Conformance with Normal and Emergency Transfer Limits	<b>Description:</b> This Procedure establishes TFCO monitoring and reporting requirements for transfer limits during normal and emergency operations as stipulated in NPCC Document A-2, Basic Criteria for Design and Operation of Interconnected Power Systems.	<b>Latest Version:</b> <b>Frequency of Reviews:</b> <b>Next Review Date:</b>
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**Status/ Comments:** Also reference items 24 and 38. This function has been assumed by the NPCC Compliance Monitoring and Assessment Subcommittee. Document C-21 has been replaced by Self-Certification Form C-21, available from the NPCC Web site at the following URL: "<http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms>". Future releases of the NPCC Reliability Assessment Program Status Report will not list this item.

21)	Task Force Scope	<b>Description:</b> The overall charge to the TFCO, together with the scope of activities, is given to the Task Force through its scope.	<b>Latest Version:</b> June 29, 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> June 2002
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**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:** This function has been assumed by the NPCC Compliance Monitoring and Assessment Subcommittee. Document C-04 has been replaced by Self-Certification Form C-4, available from the NPCC Web site at the following URL: "<http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms>". Future releases of the NPCC Reliability Assessment Program Status Report will not list this item.
- 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. This function has been assumed by the NPCC Compliance Monitoring and Assessment Subcommittee. Document C-05 has been replaced by Self-Certification Form C-5, available from the NPCC Web site at the following URL: "<http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms>". Future releases of the NPCC Reliability Assessment Program Status Report will not list this item.



**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Surveys/Reviews**

- |     |  |  |  |
|-----|--|--|--|
| 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  | <b>Description:</b> 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. | <b>Latest Version:</b><br><b>Frequency of Reviews:</b><br><b>Next Review Date:</b> |
|     | <b>Status/ Comments:</b> Also reference items 20 and 38. This function has been assumed by the NPCC Compliance Monitoring and Assessment Subcommittee. Document C-21 has been replaced by Self-Certification Form C-21, available from the NPCC Web site at the following URL:<br>“ <a href="http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms">http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms</a> ”. Future releases of the NPCC Reliability Assessment Program Status Report will not list this item. |  |  |
| 25) | Survey on conformance with the Guide for Rating Generating Capability  | <b>Description:</b> As charged in the Monitoring Procedure C-7, each Area must state that it can verify the net capability of its generating capacity.   | <b>Latest Version:</b><br><b>Frequency of Reviews:</b><br><b>Next Review Date:</b> |
|     | <b>Status/ Comments:</b> Also reference items 5 and 11. This function has been assumed by the NPCC Compliance Monitoring and Assessment Subcommittee. Document C-07 has been replaced by Self-Certification Form C-7, available from the NPCC Web site at the following URL:<br>“ <a href="http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms">http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms</a> ”. Future releases of the NPCC Reliability Assessment Program Status Report will not list this item.   |  |  |

**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Surveys/Reviews**

- 26) Survey on conformance with the Control Performance Guide During Normal Conditions
- Description:** The Task Force on Coordination of Operation reports annually to the Reliability Coordinating Committee on the control performance of the Areas as demonstrated by conformance with the CPS1 and CPS2 standards as presented in the Monitoring Procedure C-8.
- Latest Version:** March 2001
- Frequency of Reviews:** See Status / Comments
- Next Review Date:** December 2001
- Status/ Comments:** Also reference items 3 and 12. This function has been assumed by the NPCC Compliance Monitoring and Assessment Subcommittee. Document C-21 has been replaced by Self-Certification Form C-21, available from the NPCC Web site at the following URL: "<http://www.npcc.org/RCP.asp?Folder=SelfCertificationForms>". Future releases of the NPCC Reliability Assessment Program Status Report will not list this item.
- 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:** December 2001
- Status/ Comments:** Also reference items 2 and 13. The monitoring procedures and methodology of NPCC Document C-09 have been embodied in NPCC Document A-08. Future releases of the NPCC Reliability Assessment Program Status Report will not list this item.
- 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

**Status/ Comments:** The TFCO finalized the 2001 document at its meeting of May 2001. Also reference item 16.

**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**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:**

**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.

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).

**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

31)CO-2	Dispatcher Training	<b>Assignment:</b> The Working Group establishes a program for system dispatcher training relating to NPCC inter-Area matters, criteria, terminology, policies and operating instructions. It prepares and presents material at dispatcher training sessions exchanges information on internal dispatcher training methods. The Working Group CO-2 also evaluates and propose new techniques and training aids as they become available.	<b>2000 Budget:</b> \$22,350 <b>Expense to Date:</b> \$7,000 <b>Next Seminar:</b> Ongoing
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**Status/ Comments:** The Dispatcher Training Working Group (CO-2) will conduct its autumn training seminar on November 7-8, 2001, at the Control Center of the Independent Electricity Market Operator.

32)CO-7	Operation Review Team	<b>Assignment:</b> To enhance the relationship between the control room personnel and NPCC, and to insure a continued understanding and effective implementation of the criteria and guides.	<b>2000 Budget:</b> \$25,000 <b>Expense to Date:</b> \$0
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**Status/ Comments:** The Working group has been populated and has begin its audits in the year 2001, providing technical support in coordination with the CMAS..

**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

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

35)	Lake Erie Security Process Working Group (LESPWG)	<b>Assignment:</b> 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.	<b>2000 Budget:</b>	\$30,000
			<b>Expense to Date:</b>	\$6,500

**Status/ Comments:** The LESPWG met in June and August of 2001 and had several conference calls. The LESPWG has reviewed and looked for ways to implement several market redispatch and system redispatch procedures. LESPWG developed a straw procedure for a Lake Erie area system redispatch. The key point to make this viable is a reliable price index.

**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

36)	NPCC Ad Hoc Working Group on ATC	<b>Assignment:</b> 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	<b>2000 Budget:</b>	\$10,000
			<b>Expense to Date:</b>	\$6,100

**Status/ Comments:** The NPCC ATC Working Group developed comments on the ATC, TTC, TRM and CBM-related NERC Planning Standards that were posted for open review on August 23, 2001. A comment involved the absence of language in the Standards to accommodate financial reservations and financial congestion management that exist in some NPCC electricity markets. The comments were reviewed by the pertinent Task Forces and were sent to NERC on October 5. Revisions are being made to the NPCC ATC Methodology and a draft "A" Document with the requirements language from the Methodology is being developed.

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.	<b>2000 Budget:</b>	\$0
			<b>Expense to Date:</b>	\$7,500
			<b>Completion Date:</b>	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.

**TASK FORCE ON COORDINATION OF OPERATION**

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

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.

<b>2000 Budget:</b>	\$7,500
<b>Expenses to Date</b>	\$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	<b>Description:</b> Criteria outlines the review and approval procedures for all NPCC and NERC documents and contains the NPCC Glossary.	<b>Latest Version:</b> March 1997 <b>Frequency of Reviews:</b> 4 Years <b>Next Review Date:</b> 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	<b>Description:</b> Criteria are established for proper design and operation concerning Resource Adequacy and Transmission Capability.	<b>Latest Version:</b> August 1995 <b>Frequency of Reviews:</b> 4 Years <b>Next Review Date:</b> 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). Initial Meeting to be held by year's end.

39)B-8	Guidelines for Area Review of Resource Adequacy	<b>Description:</b> Guidelines to help TFCP ascertain that each Area's resource plan is in accordance with the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems".	<b>Latest Version:</b> June 28, 2001 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> 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	<b>Description:</b> This document outlines procedures for reporting new or modified Bulk Power System Special Protection Systems.	<b>Latest Version:</b> September 28, 1995 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> December 2001
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**Status/ Comments:**

41)	Task Force Scope	<b>Description:</b> The Task Force on Coordination of Planning scope of activities.	<b>Latest Version:</b> February 26, 1997 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> December 2001
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**Status/ Comments:**

**Surveys/Reviews**

42)	Resource Adequacy — Coordination and Review of Area Studies	<b>Description:</b> Review of the New York Area resource adequacy study.	<b>Latest Version:</b> June 29, 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> June 2002
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**Status/ Comments:**

**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:**

**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:** January 2002

**Status/ Comments:**

48) NPCC Area Transmission Review **Description:** Review of the New England Area future transmission **Latest Version:** June 28, 2001  
plans (5-7 years out) **Frequency of Reviews:** 1 Year  
**Next Review Date:** June 2002

**Status/ Comments:**

**TASK FORCE ON COORDINATION OF PLANNING**

**PROGRAM ITEM NUMBER**

**Surveys/Reviews**

49) NPCC Area Transmission Review **Description:** Review of the Ontario Area future transmission plans (5-7 years out) **Latest Version:** 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:**

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:** January 2002

**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	<b>Assignment</b> 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.	<b>2000 Budget:</b> \$30,000 <b>Expense to Date:</b> \$76,578 <b>Completion Date:</b> April 2002
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**Status/ Comments:** Scopes of Work for 2002 Summer Assessment and Review of Interconnection Assistance Reliability Benefits approved by TFCP and being presented for approval to RCC at November 7, 2001 meeting.

53)CP-9	Working Group on the Review of NERC Planning Standards	<b>Assignment</b> 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.	<b>2000 Budget:</b> \$7,500 <b>Expense to Date:</b> \$650 <b>Completion Date:</b> Ongoing
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**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	<b>Assignment</b> Serve as the primary resource to the TFCP on all environmental matters. This includes but is not limited to review of reliability implications, review of legislative and regulatory existing and emerging issues, evaluation of the effects of proposed system modifications, operating procedures or environmental equipment, identification of the need for special environmental studies, performance of assignments, etc.	<b>2000 Budget:</b> \$0 <b>Expense to Date:</b> \$0 <b>Completion Date:</b> 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	<b>Assignment</b>	General: Serve as the primary resource to the TFCP on matters relating to load, capacity energy and fuels data within NPCC.  Specific: 1) Provide load, capacity, energy, fuel and other data in electronic format through NERC to the DOE-EIA as part of the annual EIA-411 filing.  2) Prepare an NPCC Load, Capacity, Energy, Fuels and Transmission report.	<b>2000 Budget:</b>	\$5,000
				<b>Expense to Date:</b>	\$0
				<b>Completion Date:</b>	1) EIA-411 data: April 2001 2) NPCC Report: June 2001

**Status/ Comments:** Data submission completed to NERC.

56)JGWWG	Joint Glossary Working Group	<b>Assignment</b>	To maintain the NPCC Glossary of Terms (Document A-7) and to expand the Glossary to include new terms as necessary.	<b>2000 Budget:</b>	\$5,000
				<b>Expense to Date:</b>	\$0
				<b>Next Review Date:</b>	Ongoing

**Status/ Comments:**

**Documents**

112)A-7	NPCC Glossary of Terms	<b>Description:</b>	The NPCC Glossary of Terms (the Glossary) includes terms from NPCC Criteria (A), Guideline (B) and Procedure (C) Documents, as well as the North American Electric Reliability Council (NERC) Glossary of Terms, August 1996.	<b>Latest Version:</b>	September 1998
				<b>Frequency of Reviews:</b>	1 Year
				<b>Next Review Date:</b>	September 2002

**Status/ Comments:**

**TASK FORCE ON COORDINATION OF PLANNING**

**PROGRAM ITEM NUMBER**

**Surveys/Reviews**

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

**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.

**TASK FORCE ON ENERGY MANAGEMENT TECHNOLOGY**

**PROGRAM ITEM NUMBER**

**Documents**

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

88)C-17	Monitoring Procedures for Guidelines for On-Line Computer System Performance During Disturbances	<b>Description:</b> This document establishes monitoring and reporting procedures for the B-12 Guideline, and specifically details on-line computer response objectives.	<b>Latest Version:</b> September 1998 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> November 2001
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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."	<b>Description:</b> Review of on-line computer performance during system events or disturbances including all NERC regions.	<b>Latest Review:</b> February 2001 <b>Frequency of Reviews:</b> 1 Year <b>Next Review Date:</b> 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	<b>Description:</b> Review of on-line computer system performance during disturbances, as required by Document B-12.	<b>Latest Review</b> May 2001
			<b>Frequency of Reviews:</b> 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	<b>Description:</b> Review of member on-line computer system statuses and plans.	<b>Latest Review:</b> May 2001
			<b>Frequency of Reviews:</b> 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	<b>Assignment:</b> 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.	<b>2001 Budget:</b> \$5000
			<b>Expense to Date:</b> \$0
			<b>Last Workshop:</b> May 14-15, 1998
			<b>Next Workshop:</b> TBA

**Status/ Comments:** The TFEMT will discuss rescheduling the workshop at its November 2001 meeting.

**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 | <b>Assignment:</b> Exchange of meeting minutes and other correspondence with representatives from other Regions. Also monitor IEEE and CIGRÉ efforts. | <b>Latest Review:</b> May 2001<br><b>Frequency of Reviews:</b> As Required |
|-----|---|---|--|

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

- |     |  |  |  |
|-----|--|--|--|
| 95) | Ad Hoc Working Group on Information Exchange | <b>Assignment:</b> Develop a document discussing communication channels, company contacts and coordination of outages. | <b>Latest Review:</b> April 2000<br><b>Frequency of Reviews:</b> 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/](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	<b>Description:</b> This document outlines the Task Force on Energy Management Technology scope of activities.	<b>Latest Review</b>	September 28, 2000
			<b>Frequency of Reviews:</b>	3 Years
			<b>Next Review Date:</b>	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	<b>Description:</b> This document establishes the maintenance intervals and practices which should result in dependable and secure protection system operation.	<b>Latest Version:</b> December 2000 <b>Frequency of Reviews:</b> 3 years <b>Next Review Date:</b> 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	<b>Description:</b> This document establishes the minimum design objectives and recommends design practices to minimize the severity and extent of system disturbances and to minimize possible damage to system equipment.	<b>Latest Version:</b> September 1998 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> September 2001
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**Status/ Comments:** 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	<b>Description:</b> This document establishes guidelines for automatic reclosing to facilitate restoration of the system to normal following automatic tripping of transmission facilities.	<b>Latest Version:</b> March 2, 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> March 2002
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**Status/ Comments:**

**TASK FORCE ON SYSTEM PROTECTION**

**PROGRAM ITEM NUMBER**

**Documents**

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

62)B-11	Special Protection System Guideline	<b>Description:</b> This guideline categorizes the Special Protection System (SPS) according to the Criteria fault for which it is designed and the impact its failure would have on the network. It further provides guidelines for the design, testing and operation of the SPS.	<b>Latest Version:</b> March 2, 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> March 2002
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**Status/ Comments:** 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	<b>Description:</b> 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.	<b>Latest Version:</b> April 14, 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> 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	<b>Description:</b> This document outlines the Task Force on System Protection scope of activities.	<b>Latest Version:</b> June 29, 1999
			<b>Frequency of Reviews:</b> 3 Years
			<b>Next Review Date:</b> June 2002

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

**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	<b>Description:</b> In conjunction with other task forces, review and analyze the detailed performance of protection systems following major power system disturbances and events and participate in the preparation of reports, which would include appropriate recommendations.	<b>Latest Version:</b> Ongoing	<b>Frequency of Reviews:</b> As Required
<b>Status/ Comments:</b> 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 Report for 2000 has recently been published and is under review by TFSP.				

**Working Groups/Ad Hoc Assignments**

70)	Protection System Maintenance Practices	<b>Assignment:</b> 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.	<b>Completion Date:</b> Deferred	<b>Frequency of Reviews:</b> 3 years
<b>Next Review Date:</b> December 2001				
<b>Status/ Comments:</b> 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.	<b>Latest Version:</b> December 6, 1999	<b>Frequency of Reviews:</b> 3 Years
<b>Next Review Date:</b> December 2002				
<b>Status/ Comments:</b>				

**TASK FORCE ON SYSTEM PROTECTION**

**PROGRAM ITEM NUMBER**

**Documents**

123)B-21	Guide for Analysis and Reporting of Protection System Misoperations	<b>Description:</b> 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.	<b>Latest Version:</b> March 2001 <b>Frequency of Reviews:</b> 3 years <b>Next Review Date:</b> March 2004
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**Status/ Comments:**



**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.	<b>Latest Version:</b>	Being Drafted
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**Status/ Comments:** The Group has been meeting on an ongoing basis since June of 2001 and will be publishing a report of its findings in December of 2002. Future study efforts will yield further reporting in mid 2002.

**Documents**

71)B-4	Guidelines for NPCC Area Transmission Reviews	<b>Description:</b> Guidelines to help TFSS ascertain that each Area's transmission expansion plan, based on its proposed generation additions, has been developed in accordance with the NPCC "Basic Criteria for Design and Operation of Interconnected Power Systems."	<b>Latest Version:</b>	August 7, 1996
			<b>Frequency of Reviews:</b>	3 Years
			<b>Next Review Date:</b>	November 2001

**Status/ Comments:** The revised 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"	<b>Description:</b> Establishes procedures for requesting exclusion from certain contingencies in the Basic Criteria.  Note: Member Representatives shall be advised of approvals by the Reliability Coordinating Committee of applications for exclusions.	<b>Latest Version:</b>	June 26, 1998
			<b>Frequency of Reviews:</b>	3 years
			<b>Next Review Date:</b>	January 2002

**Status/ Comments:** The document is currently undergoing revision by the Task Force and will be presented to the RCC for approval at their March 2002 meeting

**TASK FORCE ON SYSTEM STUDIES**

**PROGRAM ITEM NUMBER**

**Documents**

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

74)C-25	Procedure to Collect Real Time Data for Inter-Area Dynamic Analysis	<b>Description:</b> This document establishes a procedure for the collection of real time data following a power system disturbance for the purpose of analyzing the dynamic performance of the NPCC bulk power system.	<b>Latest Version:</b> May 5, 2001 <b>Frequency of Reviews:</b> 3 years <b>Next Review Date:</b> June 2004
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**Status/ Comments:**

75)	Task Force Scope	<b>Description:</b> The Task Force on System Studies scope of activities.	<b>Latest Version:</b> February 1997 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> 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 November 15, 2001 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 (5-7 years out) **Latest Version:** November 2000  
**Frequency of Reviews:** 1 Year  
**Next Review Date:** December 2001

**Status/ Comments:** New York is currently conducting an Intermediate Review.

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:** 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:** December 2001

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

**TASK FORCE ON SYSTEM STUDIES**

**PROGRAM ITEM NUMBER**

**Surveys/Reviews**

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:** December 2001

**Status/ Comments:** Transenergie is conducting a Comprehensive Area Review for 2001.

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:** November 2001

**Status/ Comments:** The Maritime Area Interim Review final reports are being prepared by Nova Scotia and New Brunswick for TFSS approval at the November 15-16, 2001 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.

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:** 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.

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 2003

**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 was approved by TFSS at their July 19-20 meeting. 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.

**TASK FORCE ON SYSTEM STUDIES**

**PROGRAM ITEM NUMBER**

**Surveys/Reviews**

84)	Review of Dynamic Analysis Recording Devices	<b>Description:</b> This review summarizes the characteristics of recording devices used to capture power system dynamic phenomena.	<b>Latest Version:</b> June 4, 1999 <b>Frequency of Reviews:</b> 3 Years <b>Next Review Date:</b> June 2002
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**Status/ Comments:** The survey and associated report is available on the NPCC web site under TFSS, Archives.

**Working Groups/Ad Hoc Assignments**

85)SS-37	Base Case Development	<b>Assignment:</b> On an annual basis, develop a library of solved load flow cases and associated dynamic data.	<b>2001 Budget:</b> \$30,000 <b>Expense to Date:</b> \$1,250 <b>Completion Date:</b> Ongoing
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**Status/ Comments:** All load flow cases required for the NPCC year 2001 Base Case Development effort have been completed and submitted 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	<b>Assignment:</b> Assigned to analyze dynamic phenomena, which may affect interconnected system reliability, especially in the area of low frequency oscillations.	<b>2000 Budget:</b> \$20,000 <b>Expense to Date:</b> \$10,250 <b>Completion Date:</b> Ongoing
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**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. The study has received TFSS approval.

**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 2001/02 Winter MEN Interregional Transmission System Reliability Assessment is being completed and will be provided to the Joint Interregional Review Committee prior to its November 7, 2001 meeting. 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.

**2000 Budget:** \$12,000

**Expense to Date:** \$7,000

**Completion Date:** November 2000

**Status/ Comments:** The Working Group developed the 2001/02 Winter Study Base Case and provided to industry participants for use. The conducted transfer capability studies and prepared the draft 2001/02 Winter MEN Interregional Transmission System Reliability Assessment.

**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	<b>Assignment:</b> 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.	<b>2000 Budget:</b>	\$0
			<b>Expense to Date:</b>	\$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.



**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:** November 2001

**Status/ Comments:** The Reliability Assessment Subcommittee's report on "Reliability Assessment 2001-2010" was approved at the October BOT meeting. The RAS finalized its assessment of winter 2001/2002 operating conditions at its October meeting.

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	<b>Assignment:</b> 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.	<b>2000 Budget:</b>	\$12,000
			<b>Expense to Date:</b>	\$3,126
			<b>Completion Date:</b>	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 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.

102)LFWG	Load Forecasting Working Group	<b>Assignment:</b> 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.	<b>Completion Date:</b>	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.

**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 on October 18, 2001 with representatives from EIA to discuss next year's data collection effort. EIA intends a major overhaul of the data requirements, planned for year 2002. 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. NPCC has submitted written comments to the OMB on behalf of its members.

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.

**NPCC RELIABILITY ASSESSMENT PROGRAM  
STATUS REPORT**

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

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

106)	ATC Implementation Working Group	<b>Assignment:</b> Review the procedures developed by the Regions (or sub-regions) for determining ATC to ensure that the procedures are in concert with the ATC Principles in NERC's June 1996 Available Transfer Capability Definitions and Determination report.	<b>Completion Date:</b> Ongoing
		<b>Status/ Comments:</b> 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. The group has also submitted a remediation plan to NERC and is developing the NPCC Regional Data Posting System which is a web page containing TTC-ATC Area information. The group has also drafted a set of comments to Phase IIB of the NERC Compliance Program.	
110)CRS	Compliance Review Subcommittee	<b>Assignment</b> 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.	<b>Completion Date:</b> Ongoing
		<b>Status/ Comments:</b> 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 working jointly with the PSS on revising the Phase III Planning Standards Templates but is considering if this is necessary in light of the implementation of the NOSP; continuing development of sanctions/penalties matrices, and discussing means to streamline the implementation of the NERC Compliance Program.	

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

**PROGRAM ITEM NUMBER**

**Working Groups/Ad Hoc Assignments**

111)CS	Compliance Subcommittee	<b>Assignment</b> Develop templates for measurements contained in NERC Operating Policies; Monitor compliance to those operating measurements in the 2000 NERC Compliance Program and prepare necessary documentation of Regional compliance/non-compliance as required.	<b>Completion Date:</b> Ongoing
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**Status/ Comments:** Compliance Subcommittee review future Operating Compliance Templates.

**NPCC RELIABILITY ASSESSMENT PROGRAM**

**STATUS REPORT**

**BUDGET SUMMARY**

<b>ITEM NUMBER</b>	<b>PROJECT DESCRIPTION</b>	<b>2001 BUDGET</b>	<b>2001 EXPENSE</b>
30	CO-1 Control Performance Working Group	\$27,000	\$7,700
31	CO-2 Dispatcher Training Working Group	\$22,350	\$5,900
32	CO-7 Operational Review Team Working Group	\$25,000	
33	CO-8 System Operations Managers Working Group	\$25,000	\$3,150
116	CO-9 Operational Policies Working Group	\$25,000	
	CO-10 Operational Tools Working Group	\$20,000	\$2,600
36	ATC NPCC Ad Hoc ATC Working Group	\$10,000	\$5,150
35	LECWG Lake Erie Circulation Working Group	\$15,000	\$2,600
	IRCWG Inter-Control Area Restoration Coordination Working Group	\$16,000	\$1,300
	ETIWG Electronic Tagging Implementation Working Group	\$21,000	\$100
52	CP-8 Resource and Transmission Adequacy Working Group	\$70,000	\$65,309.29
53	CP-9 Review of NERC Planning Standards	\$7,500	\$650
	CP-10 Collaborative Planning Initiative Working Group	\$0	\$1,950
56	JGWG Joint Glossary Working Group	\$5,000	
55	LCFWG Load, Capacity & Fuels Working Group	\$1,000	
85	SS-37 Base Case Development	\$30,000	\$4,500
86	SS-38 Reliability Review of Inter-Area Operation	\$30,000	\$18,150
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
	RPF Regional Planning Forum	\$0	\$36,000
105	SDDWG Dynamic Database Working Group		
	SMWG Solar Magnetic Working Group	\$0	\$650
	CMAS Compliance Monitoring		\$5,150
	NERCWG NERC Subcommittees, Working Groups and Task Forces		
	NERC-ISN Interregional Security Network(ISN)		\$46,336.95
	STAFF	\$20,000	
115	Ad Hoc WG Summer 2000 Capacity		
	<b>TOTAL</b>	<b>\$386,850</b>	<b>\$218,759.26</b>

\* 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 A**

November 1, 2001