Task Force Scopes

Task Force on Coordination of Operation
Task Force on Coordination of Planning
Task Force on Energy Management Technology
Task Force on System Protection
Task Force on System Studies

November 1999
Task Force on Coordination of Operation

SCOPE
Northeast Power Coordinating Council
Task Force on Coordination of Operation

SCOPE

Mandate

To promote, and provide a forum for, the active coordination of security and operation among the NPCC control areas and Regions to enhance the reliability of the interconnected bulk power system. To accomplish this mandate, the Task Force on Coordination of Operation (TFCO) has the following specific responsibilities:

1. Coordinate development of operating policies and guidelines affecting the security and operability of interconnected systems in coordination with, and as directed by, NERC/NAERO and NPCC.

2. Establish standing working groups and ad hoc working groups to assist in carrying out the mandate of the TFCO.

3. Conduct seasonal reviews of the overall reliability of the generation and transmission systems in NPCC. Review the operational readiness of NPCC and recommend possible actions to mitigate any potential problems identified for the coming operating period.

4. Review NERC/NAERO policies, actions and motions. Formulate NPCC’s position as appropriate.

5. Ensure the effectiveness of NPCC operations.

6. Promote and sponsor inter-Area and interregional studies to enhance reliability and operational effectiveness through the development of common operating policies and guidelines, on such matters as:

   • inter-Area operations
   • the derivation, application, and interpretation of operating limits
   • operating reserve criteria
   • recovery to a secure state following contingencies
   • the basic principles of operator procedures in emergencies as they affect inter-Area security
7. Ensure coordination of operating matters with NPCC Task Forces and other Regions.


9. Recommend to the Reliability Coordinating Committee NPCC representation to the NERC/NAERO Security Committee.

10. Assess compliance by Full Members to existing policy and coordinate compliance efforts with the appropriate NPCC subcommittees.

11. Operate under the direction of the Reliability Coordinating Committee.

12. On an annual basis, develop a two year statement of measurable goals and specific action plans that will be presented to the Reliability Coordinating Committee.

June 29, 1999
Task Force on Coordination of Planning

SCOPE
Northeast Power Coordinating Council
Task Force on Coordination of Planning

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General Statement

Promote reliability through the coordination of NPCC Area planning processes and activities.

Responsibilities

1. Initiate reviews of the Basic Criteria for the Design and Operation of Interconnected Power Systems (Document A-2), of other NPCC criteria, guidelines, and procedures related to planning, and of those documents which provide for the uniform implementation, interpretation and monitoring of compliance with criteria, guidelines and procedures related to planning. These reviews will be coordinated with the Task Force on Coordination of Operation, based on a schedule set forth in the Reliability Assessment Program.

2. Review the adequacy of the NPCC systems to supply load considering forecast demand, installed and planned supply and demand resources and required reserve margins in accordance with Guidelines for Area Review of Resource Adequacy (Document B-8) based on a schedule set forth in the Reliability Assessment Program.

3. Coordinate the review of the compliance of future Area plans with the Basic Criteria including an analysis of resource and transmission system additions, and the potential inter-Area effects of special protection systems, based on a schedule set forth in the Reliability Assessment Program. Specific projects, which in the opinion of the task force could have an impact on the reliability of the NPCC bulk power system, may be reviewed outside of the set schedule.

4. Coordinate the review of proposed new or modified special protection systems in accordance with the Procedure For NPCC Review of New or Modified Bulk Power System Special Protection Systems (Document C-16).

5. Coordinate assessments, in accordance with the Procedure for Review of an Entity’s Application for Membership, new applications from entities requesting membership in NPCC.
6. Maintain close liaison with other task forces of NPCC and adjoining councils, with reference to system planning activities.

7. Review the implications of various reliability related issues and make recommendations to the Reliability Coordinating Committee as appropriate.

8. Encourage Area planning organizations to initiate inter-Area and interregional studies where improved reliability may be achievable through joint planning.

9. Establish working groups and initiate studies, including joint efforts with other task forces as appropriate, relative to the overall reliability of the planned bulk power system.

10. Assess requests by member systems for exclusions in accordance with the Guidelines for Requesting Exclusion to Section 5.1(B) of the NPCC Basic Criteria for Design and Operation of Interconnected Power Systems (Document B-10) and make recommendations to the Reliability Coordinating Committee regarding such requests.

11. Interface with and provide information to the North American Electric Reliability Council Reliability Assessment and Reliability Criteria Subcommittees, as required.

12. Report to the Reliability Coordinating Committee on these and other matters as required.
Task Force on Energy Management Technology

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Northeast Power Coordinating Council
Task Force on Energy Management Technology

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General Statement

The purpose of the NPCC Task Force on Energy Management Technology is to promote and enhance the reliability of the Interconnected Power System in Northeastern North America by focusing attention on the performance of Electric System Monitoring and Control Computers, Security Coordinator/Control Area Operating Tools and the Telecommunications Systems that serve and interconnect them.

Responsibilities

It shall be considered within the scope of the activities of this task force to:

1. Formulate Guidelines and monitor and report conformance pertaining to the reliability, availability and performance of member system Energy Management Systems, Operating Tools and the Telecommunications Networks which serve and interconnect them.

2. Provide coordination for the administration of inter-Area and inter-Regional data communications networks used to interconnect control centers.

3. Monitor and/or participate in the activities of NERC/NAERO task forces or working groups involved in the development and/or implementation of Operating Tools or Telecommunications Networks. Address any NPCC related issues or gaps.

4. Represent NPCC in inter-Regional activities pertaining to Telecommunications, Energy Management System or Operating Tools issues and actively promote a coordinated means of resolving these issues.

5. Under policy direction of the Task Force on Coordination of Operation, provide assistance to the Reliability Coordinating Committee, other NPCC Task Forces, and to NPCC staff in the area of Telecommunications, Energy Management Systems and Operating Tools issues.

6. Form ad-hoc working groups, as required, to study specific issues in the areas of assigned responsibility and recommend required actions to the task force. Issues may include technological advances, new operating tool requirements, information technology risk areas, etc.
7. Hold periodic workshops, seminars, and meetings, open to the general NPCC membership, for the purpose of developing and maintaining levels of expertise in those areas of concern to the task force.


9. Operate under the direction of the Reliability Coordinating Committee.

10. On an annual basis, develop a two-year statement of measurable goals and specific action plans that will be presented to the Reliability Coordinating Committee.

August 22, 1999

Approved by the Reliability Coordinating Committee on November 9, 1999
Task Force on System Protection

SCOPE
Northeast Power Coordinating Council
Task Force on System Protection

SCOPE

Statement of Purpose

The purpose of the NPCC Task Force on System Protection (TFSP) is to promote the reliable and efficient operation of the interconnected bulk power systems in Northeastern North America through the establishment of criteria and guidelines, and coordination of design, relative to the protection associated with the bulk power systems. (Terms in bold typeface are defined in the NPCC Glossary of Terms (Document A-7)).

Responsibilities

1. Based upon the procedure set forth in the Reliability Assessment Program:

   A) Initiate, and coordinate with designated Task Forces, review of the:

      • Maintenance Criteria for Bulk Power System Protection (Document A-4)
      • Bulk Power System Protection Criteria (Document A-5)
      • Guide for the Application of Autoreclosing to the Bulk Power System (Document B-1)
      • Automatic Underfrequency Load Shedding Program Guideline (Document B-7)
      • Special Protection System Guideline (Document B-11)
      • Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System (Document C-22)
      • Procedures for Task Force on System Protection Compliance Monitoring and Surveys (Document C-26)

   B) Review, in cooperation with the Task Force on Coordination of Planning, the Task Force on Coordination of Operation, and the Task Force on System Studies, the Basic Criteria for Design and Operation of Interconnected Power Systems (Document A-2) and other NPCC Criteria, Guides and Procedures. Develop and recommend modifications as required.
C) As further detailed in the Procedures for Task Force on System Protection Compliance Monitoring and Surveys (Document C-26):

- Monitor compliance with the Maintenance Criteria for Bulk Power System Protection (Document A-4),
- Monitor compliance with the requirements of the automatic load shedding program as specified in the Emergency Operation Criteria (Document A-3), and
- Conduct an annual update of the special protection systems listing in cooperation with the Task Force on System Studies.

Conduct other appropriate reviews, modify existing documents and submit reports as required.

D) Review and analyze the performance of protection systems following selected major power system disturbances and events, inside as well as outside NPCC. Issue recommendations for changes to NPCC Documents, as appropriate.

E) Assess proposed protection systems, including special protection systems, in accordance with the Procedure for Reporting and Reviewing Proposed Protection Systems for the Bulk Power System (Document C-22). Report on the findings with respect to compliance with the NPCC Bulk Power System Protection Criteria (Document A-5).

2. Provide technical advice on protection issues to the Compliance Monitoring and Assessment Subcommittee (CMAS) and any other NPCC group as required.

3. Review and assess significant protection issues of common interest and informational value.

4. As required, review NERC/NAERO guidelines, standards and other associated documents as they relate to system protection. Provide technical representation to working groups for review of NERC/NAERO documents.

5. Exchange information with other power pools, Regional Reliability Councils, and other industry groups concerned with system protection.

6. Identify the need for special studies and new documents, recommend action to the Reliability Coordinating Committee, and perform special assignments and studies as directed or authorized.

7. Report to the Reliability Coordinating Committee on these and other matters as required.

June 29, 1999
Task Force on System Studies

SCOPE
Northeast Power Coordinating Council  
Task Force on System Studies  

SCOPE  

General Statement  

Provide for active overall coordination of system studies of the reliability of the interconnected bulk power system and for the review of certain NPCC documents, in accordance with the schedule set forth in the Reliability Assessment Program.

Responsibilities  

1. Participate with the Task Force on Coordination of Planning, the Task Force on Coordination of Operation and the Task Force on System Protection in reviews of the "Basic Criteria for the Design and Operation of Interconnected Power Systems" and other NPCC criteria, guidelines, procedures and documents which provide for the uniform implementation, interpretation and monitoring of conformance to criteria, guidelines and procedures related to planning.

2. Conduct Area Reviews, in accordance with the "Guidelines for NPCC Area Transmission Reviews" based on material presented by the Areas. These reviews will assess the impact of planned transmission and resource additions or modifications, on system reliability and determine the Area's conformance with the Basic Criteria.

3. Assess, in accordance with the Procedure for Review of an Entity's Application for Membership, new applications from entities requesting membership in NPCC.

4. Perform such load flow, transient stability, and other studies as required to analyze the overall long term reliability of the planned bulk power transmission system of NPCC and the interconnections between NPCC and other regional councils. As a part of this effort, analyze potential inter-Area effects of special protection systems.

5. Conduct analytical studies appropriate to the coordination of system planning, system operation and system protection in NPCC.
6. Maintain, through the SS-37 Working Group, a library of load flow base cases and associated dynamics data, for use in Area Reviews, overall transmission assessments, etc.

7. Participate in ad hoc reviews of specific projects as requested by the Task Force on Coordination of Planning.

8. In conjunction with other Task Forces, review major system disturbances to ascertain the adequacy of the interconnected system. Also, review any associated recommendations for system modifications and consider the need for criteria changes.

9. Identify and recommend improved system study techniques. This includes, but is not limited to, the following:

   (a) improved techniques and models for power system simulation;

   (b) improved techniques for power system reliability assessment;

   (c) maintain liaison with the work of the IEEE, Canadian Electricity Association, Electric Power Research Institute and other technical organizations.

10. Review the adequacy of the automatic and manual underfrequency load shedding programs.

11. Maintain a listing and monitor status of major transmission and generation projects within NPCC.

12. Maintain liaison with other NPCC Task Forces and report to the Reliability Coordinating Committee as required.

February 26, 1997