



RCC Meeting
November 27, 2012
Agenda Item 6.15

Reliability Assessment Program
(NRAP)
HIGHLIGHT REPORT
Prepared for the
Reliability Coordinating Committee
November 27, 2012

Distributed to:

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Members, Compliance Committee
Members, Regional Standards Committee
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 Infrastructure Security and Technology
Chairmen, Working Groups
and
NPCC Staff



NPCC, Inc.

Reliability Assessment Program

HIGHLIGHT REPORT

Contents

| | |
|--|-----------|
| <u>Reliability Standards</u> | 1 |
| Regional Standards Committee | 1 |
| Directories & Appendices | 3 |
| Directory Development and Revision Manual | 10 |
| NPCC Glossary of Terms | 10 |
| Regional Standards | 11 |
| Regional Standards Development Procedure | 12 |
| <u>Compliance Enforcement and Organization Registration and Certification</u> | 13 |
| Compliance Committee | 13 |
| Documents | 14 |
| <u>Training, Education, and Operator Certification</u> | 15 |
| Task Force on Coordination of Operation | 15 |
| <u>Reliability Assessment and Performance Analysis</u> | 16 |
| Blackout 2003 Follow-up | 16 |
| Task Force on Coordination of Operation | 17 |
| Task Force on Coordination of Planning | 20 |
| Task Force on System Studies | 23 |
| Eastern Interconnection Reliability Assessment Group | 24 |
| RFC-NPCC Working Group | 25 |
| NERC | 26 |
| Other | 30 |
| <u>Situation Awareness and Infrastructure Security</u> | 31 |
| Task Force on Coordination of Operation | 31 |
| Task Force on Infrastructure Security and Technology | 32 |
| <u>Administrative Services</u> | 34 |
| Members' Forums | 34 |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program Regional Standards Committee

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|------------------------------|---|
| RSC | Regional Standards Committee | The NPCC Regional Standards Committee (RSC), a committee of the NPCC Board, is primarily charged with management and maintenance of the NPCC Regional Standards Development Procedure and Regional Standards, under a sector based voting structure as described in the NPCC, Inc. Bylaws. The NPCC RSC will consider requests for new or revised standards and be available for advisement to the NPCC Board on the standards. The NPCC RSC will work in coordination with the Regional Standards Process Manager (RSPM) who will be the administrator for the NPCC Regional Reliability Standards Development Procedure (this is going to be renamed Regional Reliability Standards Process Manual in the next revision). In addition, the NPCC RSC will review, comment on and develop ballot recommendations for the NERC Reliability Standards under development. The RSC will also review and comment on NERC CANs, and RSAWs. The NPCC RSC also provides oversight for the NPCC Reliability Directories which contain the NPCC more stringent regional Criteria and supporting information. The RSC also conducts and coordinates the Cost Effectiveness Analysis Procedure or CEAP for evaluation of the cost effectiveness of NPCC’s Regional Standards. RSC is also providing input through its member to the developing NERC CEAP and implementation of that process. Also the RSC is supporting NPCC staff in the Paragraph 81 effort. The RSC is also participating in the development of the new NERC standards development process and Standards Process Input Group (SPIG) recommendations and commenting on revisions and providing input to the NERC “Single Portal Project” NERC is currently conducting to retire standard requirements that are duplicative or of little or no benefit to reliability. |

Status/ Comments:

The RSC is focusing on the review of each of the NERC Reliability Standards (as they are developed or revised). The RSC is currently reviewing all the FERC Orders and NOPRs that pertain to Reliability Standards. The RSC develops recommendations for the membership on ballots when posted. The RSC also participates in the NERC Functional Model Working Group, NERC Standards Committee, and the NERC Standards Committee Process Subcommittee. The RSC has also revised the NPCC Regional Reliability Standards Development Procedure (to be renamed Regional Reliability Standards Process Manual), which will be posted and submitted to the NPCC Board for approval. The RSC is continually participating in the NERC Reliability Standards Manual revisions and the Results Based Standards Initiative through the Standards Committee Process Subcommittee and also soliciting members for the NERC drafting teams as necessary to ensure NPCC is sufficiently represented. The RSC is actively supporting the Order 706 Cyber Security Standards development and revision process. The RSC is overseeing and managing the development of a Regional Reserve Sharing Group Standard. The Disturbance Monitoring Standard has been approved by the NPCC General Membership, the NPCC Board of Directors, NERC Board of Trustees, and FERC. Provincial Government approval is pending. The Underfrequency Load Shedding Standard has been approved by the NPCC General membership, the NPCC Board of Directors, and the NERC Board of Trustees; FERC has posted a NOPR soliciting comments. It is pending approval of FERC, and Provincial Government authorities. The RSC has initiated Phase II of the NPCC Directory project to convert the criteria in the Directories to specific “requirements” on which compliance may be assessed.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Regional Standards Committee

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|------------------------------|--|
| RSC | Regional Standards Committee | <p>The RSC has developed enhancements to the NPCC Website to provide further uniformity and consistency with that of other Regions and participates in various drafting efforts of those Regions.</p> <p>In addition, the RSC is reviewing the “triage process” used to evaluate standards in an effective and efficient manner.</p> <p>The RSC has also developed a Cost Effectiveness Analysis Procedure to evaluate if developing standards provide a cost effective solution to achieving a standard’s reliability objective and considers the economics of the implementation. The RSC has also developed the Work Plan for 2012-2013 and a revised Scope of Work, both of which have been approved by the NPCC BOD. In addition a new NPCC Glossary of Terms was developed as well as a NPCC Reliability Directory Development Manual and posted these on the NPCC Website for member use.</p> |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
|-------------|---|--|--|------------------------|
| DIR-1 | Basic Criteria for the Design And Operation of the Bulk Power System | Appendix A – Definition of Terms Appendix B – Guidelines and Procedures for NPCC Area Transmission Review Appendix C – Procedure for Testing and Analysis of Extreme Contingencies Appendix D – Guidelines for Area Review of Resource Adequacy Appendix E – Guidelines for Requesting Exclusions to Sections 5.4.1 (B) and 5.5.1 (B) of NPCC Directory No. 1 - Design and Operation of the Bulk Power System Appendix F – Procedure for Operational Planning Coordination Appendix G – Procedure for Inter Reliability Coordinator Area Voltage Control | TFCP TFCP TFCP TFCP TFCP TFCO* TFCO* | December 1, 2009 |

Status/ Comments:

Directory No. 1 received Full Member approval on December 1, 2009 and NPCC Document A-2 was retired on the same date. Additionally, NPCC documents B4, B8, B10, C4, C13, C18, and C40 were incorporated within Directory No. 1 and retired.

TFCP is presently drafting a new version of Directory No. 1 that will reformat existing NPCC criteria into NERC style requirements. The reformatted version of Directory No.1 will highlight the more stringent and specific criteria while also facilitating program compliance (Phase 2 of the Directory project).

TFCP has requested that the TFCO and TFSS review the draft document and the TFCO is reviewing the Transmission Operating section of the document. Directory No. 1 will be posted for its initial Open Process posting upon conclusion of multi Task Force review. The TFCO has formed an ad hoc working group to address operational differences identified in the current Phase 2 draft of the document, and is currently revising the operational language of Directory No. 1.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
|-------------|--------------------------|--|----------------------|------------------------|
| DIR-2 | Emergency Operation | Appendix A – Definition of Terms Appendix B - Guideline and Procedure for Emergency Operation | TFCO TFCO TFCO | October 21, 2008 |
| | Status/ Comments: | <p>Directory No. 2 was approved by the Full Members on October 21, 2008 and NPCC Document A-3 was retired on the same date. The Automatic UFLS language formerly contained within Directory No. 2 was transferred into Directory No. 12 (UFLS Program Requirements) effective with the Full Member approval of Directory No.12 on June 26, 2009.</p> <p>Phase 2 reformatting of Directory No. 2 is pending TFCO Workplan coordination with other TFCO Directories.</p> | | |

| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
|-------------|---|---|----------------------|------------------------|
| DIR-3 | Maintenance Criteria for Bulk Power System Protection | Appendix A – Definition of Terms Appendix B – Guidelines and Procedures for Maintenance of Bulk Power System Protection | TFSP TFSP TFSP | July 14, 2009 |
| | Status/ Comments: | <p>Directory No. 3 was approved by the NPCC Full Membership on July 11, 2008 and NPCC Documents A-4 and B-23 were retired on the same date.</p> <p>In 2009 TFSP conducted a review of Directory No. 3 to clarify specific intent on a number of requirements. Additional language was also incorporated into Appendix B of the document to provide guidance that credit can be obtained for normal breaker operations if the equipment design permits verification and documentation of breaker tripping by each individual trip coil. The above changes to Directory No. 3 were approved by the Full Members on July 14, 2009.</p> <p>The TFSP has completed an Interpretation Request surrounding the criteria language within Directory No. 3 and currently has two other such requests pending.</p> | | |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
|-------------|--------------------------|---|----------------|------------------------|
| DIR-4 | BPS Protection Criteria | Appendix A – Guideline and Procedure for Bulk Power System Protection | TFSP TFSP | December 1, 2009 |
| | Status/ Comments: | <p>Directory No. 4 received Full Member approval on December 1, 2009. The approval of Directory No. 4 resulted in the retirement of NPCC documents A5, B5, B7, B24, and C22.</p> <p>The RCC has approved an implementation plan to achieve the recommended reduction in BPS risk pertaining to redundant protection systems and/or battery systems on BPS facilities. The TFSP expects to begin the Phase 2 review of Directory No.4 in early 2012.</p> <p>As part of the Phase 2 reformatting of Directory No. 4, the TFSP is addressing a process issue related to compliance of the criteria within Directory No. 4 and the structure of the reformatted requirements within the document; this issue also exists within Directory No. 7. The NPCC Compliance Committee (CC) has reviewed and approved the inclusion of compliance requirements to be included in the initial Phase 2 draft to be posted for industry comment in mid-2013.</p> | | |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
|-------------|-------------|--|--|------------------------|
| DIR-5 | Reserve | Appendix 1 – Monitoring Procedure for Interconnected System Frequency Response Appendix 2 – Monitoring Procedures for Reserve Criteria Appendix 3 – Procedures during Abnormal Operating Conditions Appendix 4 – Guidelines for SAR Allocation Following Radial Source Contingencies Appendix 5 – NPCC Control Performance Reporting Process Appendix 6 – Light Load Conditions Appendix 7 – Participation Request Form - Simultaneous Activation of Reserve and Ace Diversity Interchange | TFCO TFCO TFCO TFCO TFCO TFCO TFCO | October 11, 2012 |

Status/ Comments: The TFCO has addressed a number of key reserve issues that were unresolved when Directory No. 5 was approved in late 2010, including DCS compliance and wheeling radial source contingencies outside the region.

On October 11, 2012 the NPCC Full Member Committee voted to approve revisions to the criteria within Directory No. 5 Reserve which addressed these issues.

| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
|-------------|--------------------------|-------------------|----------------|------------------------|
| DIR-6 | Regional Reserve Sharing | | TFCO | April 6, 2012 |

Status/Comments: Directory No. 6 was developed in Phase 2 format and approved by the NPCC Full Member committee on April 6, 2012.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
|-------------|-------------|-------------------|----------------|------------------------|
|-------------|-------------|-------------------|----------------|------------------------|

| | | | | |
|-------|---------------------------|--|------------------------------|-------------------|
| DIR-7 | Special Protection System | Attachment 1 – Definition of Terms Appendix A – Guidance for Consideration in SPS Design Criteria Appendix B – Procedure for Review of Special Protection Systems | TFSP TFSP TFSP TFSP | December 27, 2007 |
| | Status/ Comments: | Directory No. 7 was approved by the NPCC Full Members on December 27, 2007. The Task Force on System Protection has initiated a review of Directory No.7, including Appendix B which details the process for SPS approval, modification, or retirement. The TFCP, TFSS, and the TFCO are coordinating their comments on Appendix B and the overall Directory with TFSP which is the lead Task Force for Directory No. 7. TFSP will merge these revisions into an initial Phase 2 draft of the document and will include compliance requirements similar to those described above for Directory No. 4. Directory No. 7 was posted to the Open Process by the TFSP through November 12, 2012; the TFSP will review and respond to all comments received. | | |

| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
|-------------|-------------|-------------------|----------------|------------------------|
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| | | | | |
|-------|--------------------------------|---|--------------------------------|------------------|
| DIR-8 | Black Start System Restoration | Appendix A – Definition of Terms | TFCO TFCO/TFSS ¹ | October 22, 2010 |
| | Status/ Comments: | The CO11 Restoration Working Group has reviewed the initial Phase 2 draft of Directory No. 8 and provided comments and recommendations to the TFCO. Revisions will be made and incorporated into the Phase 2 reformatting of Directory No. 8, to be finalized by the CO11 Working Group in December 2012. | | |

¹ Indicates that the Task Force responsible for review of the Appendix is not the same as the lead Task Force for the respective Directory.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
|-------------|--|--|--|------------------------|
| DIR-9 | NPCC Verification of Generator Gross and Net Real Power Capability | Appendix A – Definition of Terms Appendix B – Basic Flow Chart for Verification of Generator Gross and Net Real Power Capability | TFCO TFCO/TFCP ¹ TFCO/TFCP ¹ | December 29, 2011 |
| | Status/ Comments: | Directory No. 9 was approved by the NPCC Full Membership on December 22, 2008. The Full Member Committee approved the Phase 2 reformatting of Directory No. 9 in December 2011. | | |
| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
| DIR-10 | NPCC Verification of Generator Gross and Net Reactive Power Capability | Appendix A – Definition of Terms Appendix B1 – Basic Flow Chart for Verification of Generator Gross and Net Reactive Power Capability Appendix B2 – Generator Reactive Capability Form | TFCO TFCO/TFCP ¹ TFCO/TFCP ¹ TFCO/TFCP ¹ | December 29, 2011 |
| | Status/ Comments: | Directory No. 10 was approved by the NPCC Full Membership on December 22, 2008. The Full Member Committee approved the Phase 2 reformatting of Directory No. 10 in December 2011. | | |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
|-------------|---|---|----------------|------------------------|
| DIR-12 | UFLS Load Shedding Program Requirements | Appendix A – Definition of Terms | TFSS TFSS | March 3, 2010 |
| | Status/ Comments: | <p>Directory No. 12 was developed from the Automatic Under frequency Load Shedding requirements contained within existing NPCC Directory No. 2 <i>Emergency Operations</i> and also from the recommendations and implementation plans provided in the 2006 Assessment of Under frequency Load Shedding Adequacy; and the 2008 Assessment of Under frequency Load Shedding Adequacy – Québec Area, both of which were approved by the Reliability Coordinating Committee on November 19, 2008. Directory No. 12 and a six year program implementation plan were approved by ballot of the NPCC Full Members on June 26, 2009. Directory No. 12 and its implementation plan were further revised to consider UFLS requirements for certain small entities and these revisions were approved by the NPCC Full Members on March 3, 2010.</p> <p>The Task Force on System Studies (TFSS) posted NPCC Directory No. 12 Automatic UFLS Program Requirement to the Open Process for 45 days concluding on October 26th, 2012. The TFSS has proposed changes to Directory No. 12 that will synchronize the UFLS program tolerance bands between Directory No. 12 and the UFLS Regional Standard and allow regional entities to implement a program that is consistent with the SS-38 design recommendations as part of the ongoing six year UFLS Implementation Plan. The TFSS will review and respond to all comments received.</p> | | |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directory Development and Revision Manual

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> | <u>Current Version</u> |
|--------------------------|--|--|---|
| Directory | Directory Development and Revision Procedure | The NPCC Directory Development and Revision Manual is intended to provide guidance regarding the process of establishing a new or revised Directory and will clarify the roles and responsibilities of the NPCC Task Forces responsible for Directory content. | Latest Version: October 26, 2011 |
| Status/ Comments: | | The Regional Standards Committee (RSC) approved the Directory Manual on October 26, 2011, which is posted in the Directory section of the NPCC website. | |

NPCC Glossary of Terms

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> | <u>Current Version</u> |
|-------------|------------------------|---|---|
| Glossary | NPCC Glossary of Terms | The NPCC Glossary of Terms has replaced the A7 document and was approved by the RSC on October 26, 2011. The Glossary contains the definitions of all terms found within NPCC Directories, Guidelines and Procedures. The Glossary is organized in sections containing those terms found in Directories (including Appendices) which support the NPCC criteria and another Section for definitions found within remaining NPCC B and C documents. The Glossary is located in the Directory section of the NPCC website. | Latest Version: October 26, 2011 Frequency of Reviews: N/A Next Review Date: N/A |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Regional Standards

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> | <u>Current Version</u> | |
|------------------------|--------------------------|---|------------------------------|----------------------|
| PRC-002-NPCC-01 | Disturbance Monitoring | This Standard establishes the technical and reporting requirements for disturbance monitoring equipment. This will lead to improved system reliability by providing the resources to do post event analyses. | Latest Version: | New |
| | | | Frequency of Reviews: | 3 years |
| | | | Next Review Date: | October, 2014 |
| | Status/ Comments: | The DME Regional Standard and its Implementation Plan were posted for ballot December 17, 2009, and approved by the NPCC Full Members on January 16, 2010. The NPCC Board approved the Standard on February 9, 2010. The Standard was submitted to NERC for review. NERC accepted the technical content of the requirements and the Implementation Plan; however issues were identified with the construction of the VSLs. The VSLs were reworked, and only the VSL portion of the Standard was re-posted for a 30 day industry review and comment period. This was followed by submission to NPCC Members for approval. The VSLs were approved by ballot Oct. 31, 2010. The Standard and its Implementation Plan were submitted to the NERC BOT at its November 4, 2010 meeting and approved. Materials were reviewed by NERC and filed with FERC on May 31, 2011. A Filing was made with the appropriate Canadian authorities for their approvals on June 8, 2011. FERC approved PRC-002-NPCC-01 on October 20, 2011. TFSP responded to a Request for Interpretation regarding generators in Requirements R4, R5, and R6. | | |

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> | <u>Current Version</u> | |
|------------------------|-------------------------------|--|------------------------------|----------------|
| PRC-006-NPCC-01 | Under Frequency Load shedding | This Standard will provide the requirements for implementing an automatic under frequency load shedding program in order to effectively respond to system under frequency events. | Latest Version: | New |
| | | | Frequency of Reviews: | 3 years |
| | | | Next Review Date: | N/A |
| | Status/ Comments: | The NPCC BOD approved PRC-006-NPCC-1 Automatic UFLS on Nov. 30, 2011. The NERC BOT approved the Standard on Feb. 9, 2012 and the Standard was filed with FERC on May 4, 2012. On September 20, 2012 FERC issued a NOPR proposing to approve the regional Reliability Standard under Section 215 of the Federal Power Act and seeking comment on certain requirements within the proposed regional standard. Comments are due to the Commission by November 26, 2012. | | |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Regional Standards

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> | <u>Current Version</u> |
|-----------------|---------------------------------|---|--|
| BAL-002-NPCC-01 | Regional Reserve Sharing Groups | This Standard will provide the measures for implementing Reserve Sharing Groups within NPCC in order to meet their reserve obligations. | <p>Latest Version: New</p> <p>Frequency of Reviews: 3 years</p> <p>Next Review Date:</p> |

Status/ Comments:

The RSAR has been developed and approved by the RSC. The RCC has assigned the TFCO to act as the drafting team and a request for drafting team members was sent to the NPCC membership. At its meeting of April 14 and 15, 2011, the TFCO established a sub-group of TFCO members and NPCC staff that will work on the Reserve Sharing Groups Standard’s development. The development of Regional Standards has been held in abeyance pending further direction from NERC.

Regional Standards Development Procedure

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> | <u>Current Version</u> |
|-------------|--|--|---|
| RRSDP | Regional Reliability Standards Development Procedure | The NPCC Regional Reliability Standards Development Procedure describes the procedures, policies, and practices implemented to ensure an “open, fair, and inclusive” process for the transparent initiation, development, implementation and revision of the NPCC Regional Standards necessary for the reliable operation of the Interconnected bulk power system in Northeastern North America. | <p>Latest Version: Sept. 19, 2007</p> <p>Frequency of Reviews: 3 years</p> <p>Next Review Date: Nov. 8, 2011</p> |

Status/ Comments:

The Regional Reliability Standards Development Procedure is posted on the NPCC Website. The RSC is actively reviewing the activities at the NERC level to ensure the regional procedure is consistent with the NERC Standard Processes Manual and achieves a consistency with the NERC common attributes adhered to by the other Regions. The RRSDP was posted for a 45 day comment period Dec. 7, 2011. Comments received have been reviewed and necessary revisions incorporated. The title of the document is going to be revised to “*Regional Reliability Standards Process Manual*”. The revised document will be presented to the NPCC Board of Directors for approval.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Compliance Enforcement and Organization Registration and Certification Program

Compliance Committee

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|---------------------------|--|
| CC | NPCC Compliance Committee | <p>The NPCC Compliance Committee (CC) is charged with providing independent policy input for the NPCC Compliance Monitoring and Enforcement Program (CMEP). The NPCC CMEP covers compliance assessment and enforcement of NERC Reliability Standards, Regional Reliability Standards and NPCC Reliability Criteria (NPCC Directories). With regard to NERC Reliability Standards and Regional Reliability Standards, the CC provides an oversight role to the NPCC Compliance Staff's implementation of the CMEP. In this oversight role the CC will endorse the compliance procedures (CP) used by the NPCC Compliance Staff in the conduct of the CMEP. The CC is responsible for final approval of compliance assessments related to NPCC Reliability Criteria, which includes non-monetary sanction recommendations.</p> |
| | Status/ Comments: | <p>The NPCC Staff has begun the evaluation of completed templates used in the 2012 NPCC Entity Impact Evaluation (EIE) Initiative. Feedback teleconference calls have been completed with 10 entities and others are scheduled to be conducted. The remaining feedback calls will be scheduled upon completion of the evaluation of additional templates.</p> |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Compliance Enforcement and Organization Registration and Certification Program

NPCC Compliance Committee

Documents

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|---|---|
| CCEP - 1, 2 | Criteria Compliance and Enforcement Program | The process and requirements are defined, in these documents, for compliance monitoring, assessment and enforcement of NPCC reliability criteria. |
| | Status/ Comments: | In September 2012, NPCC revised the Criteria Compliance and Enforcement Program (CCEP) Process document (CCEP-1). The revised CCEP-1 was approved by the NPCC Compliance Committee in September 2012. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Training, Education, and Operator Certification Program

TASK FORCE ON COORDINATION OF OPERATION

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|--------------------------|---|
| CO-2 | System Operator Training | <p>This Working Group establishes a program for system operator training relating to NPCC Inc. inter-Area matters, Working Group criteria, terminology, policies and operating instructions. It prepares and presents material at system operator training sessions, exchanges information on internal system operator training methods. The CO-2 Working Group also evaluates and proposes new techniques and training aids as they become available.</p> <p>Status/ Comments:</p> <p>The CO-2 Working Group met on September 20-21, 2012 to develop the Fall 2012 System Operator Seminar agenda, to determine the Seminar Table Top exercise topic and to continue sharing information on how to interpret and satisfy the PER-005 standard requirements. Since the revised Directory No. 5 “Reserve” has recently been approved and the Directory No. 5 content includes changes in how Simultaneous Activation of Reserve (SAR) is implemented, SAR training was chosen as the Table Top exercise. Participants at the Fall 2012 Seminar will receive 3 Continuing Education Hours.</p> <p>The Fall 2012 System Operators Seminar was held on November 7-8, 2012. Besides SAR, other seminar topics included: Geomagnetically Induced Current basics and forecasting, Electric vehicles, Frequency response on the Eastern Interconnection / Recommendations for improvement, BAL-003-1”Frequency Response & Bias” standard, Electric Vehicles, review by each Reliability Coordinator of system events and Hurricane Sandy system impacts and restoration in New York.</p> |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

BLACKOUT 2003 FOLLOW-UP

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|--------------------------|--|
| BSP | Blackout Study Plan | Building on the Event Replication Study, perform additional analysis to evaluate possible risks for other rerating conditions, planned system changes, and possible system design changes. |
| | Status/ Comments: | Task 5 Study was completed by the SS-38 Working Group and approved by the RCC in November 2011. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF OPERATION

| Item | Name | Assignment |
|-------------|--------------------------|---|
| CO-1 | Control Performance | The Working Group insures coordination between adjacent control areas in establishing interchange schedules, Working Group 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 (TFCO), it conducts investigations of control performance problems. |
| | Status/ Comments: | The CO-1 Working Group met on September 6-7, 2012. Topics addressed during that meeting included: 1) changes in the implementation of Simultaneous Activation of Reserve (SAR) as prescribed in the revised Directory No. 5, 2) SAR implementation for the loss of radial sources contingencies, 3) analysis of past SAR events, 4) providing support and research regarding frequency response issues including NPCC governor response and frequency bias setting issues and the new BAL-003-1 standard content, 5) review of the NERC ACE Diversity Interchange White Paper and how it affects NPCC application, 6) re-engineering the NPCC inadvertent calculation methodology and 7) meeting the reporting requirements on SAR-ATR reports, CPS and inadvertent energy. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program TASK FORCE ON COORDINATION OF OPERATION

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|------------------------------------|--|
| CO-7 | Operational Planning Working Group | To assess, coordinate and evaluate regional operational issues and reliability concerns as directed by the TFCO. Periodically review the NPCC Regional Reliability Plan and the Registration and Certification of entities to achieve conformance with NPCC criteria and NERC Standards. |
| | Status/ Comments: | The Working Group CO-07 has been reformulated to accept specific operational planning tasks from the Task Force on Coordination of Operation on an ad hoc basis; it has been renamed the “Operational Planning Working Group.” Its first task will be the identification of those third party asset owners and equipment that will be subject to the operational requirements of the Cyber Standards. Working Group CO-12 has been renamed the “Seasonal Assessment Working Group” to avoid confusion with Working Group CO-07; its tasks remain unchanged |

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|--|---|
| CO-8 | System Operations Managers Working Group | 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. |
| | Status/ Comments: | The CO-8 Working Group met on September 5-6, 2012. Topics addressed during that meeting included an update and redraft of NPCC Document C-15, “Procedures for Solar Magnetic Disturbances Which Affect Electric Power Systems”; and, the completion of a draft NPCC Procedure defining the NPCC practices in the implementation of ACE Diversity Interchange (ADI), ensuring consistency with the recommendations presented in the recently released NERC White Paper, “ACE Diversity Interchange White Paper February 2012.” |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program TASK FORCE ON COORDINATION OF OPERATION

| Item | Name | Assignment |
|-------------|---------------------------|---|
| CO-11 | Restoration Working Group | The Restoration Working Group addresses the issue of ensuring appropriate operation of key system restoration facilities and their critical components. |
| | Status/ Comments: | The NPCC Restoration Working Group (CO-11) conducted its wide area interregional restoration exercise on October 24, 2012. The exercise included all five of the Reliability Coordinators of NPCC as well as the Midwest ISO and PJM. |

| Item | Name | Assignment |
|-------------|-----------------------------------|--|
| CO-12 | Seasonal Assessment Working Group | Review the overall reliability of the generation and transmission system in the NPCC Region for the Summer and Winter Seasonal conditions. |
| | Status/ Comments: | The CO-12 Working Group has completed the 2012-13 Winter NPCC Reliability Assessment, received TFCO approval and is seeking RCC approval at their November 27, 2012 meeting. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

| Item | Name | Assignment |
|-------------|---|--|
| CP- 8 | Working Group on Review of Resource and Transmission Adequacy | Review the overall reliability of the NPCC Areas and perform pre-seasonal resource adequacy assessments. |
| | Status/ Comments: | The Scope and Schedule for the 2013 NPCC Long Range Adequacy Overview is being presented for approval at the September 12, 2102 RCC meeting. |

| Item | Name | Assignment |
|-------------|---|--|
| CP- 2012S | Summer 2012 Multi-Area Probabilistic Reliability Assessment | Assess NPCC Area reliability for the year 2012 by estimating the projected use of Area Operating Procedures designed to mitigate resource shortages for the summer (May through September) period. |
| | Status/ Comments: | The NPCC 2012 Summer Multi-Area Probabilistic Reliability Assessment was approved at the April 30, 2012 RCC meeting. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

| Item | Name | Assignment |
|------------------|--|---|
| CP- 2012W | Winter 2012-2013 Multi-Area Probabilistic Reliability Assessment | Assess NPCC Inc. Area reliability by estimating projected use of Area Operating Procedures designed to mitigate resource shortages for the winter (November 2012 through March 2013) period. |
| | Status/ Comments: | The NPCC 2012-13 Winter Multi-Area Probabilistic Reliability Assessment was approved at the June 13, 2012 RCC meeting, for release in CO-12 Working Group’s Winter Reliability Assessment, scheduled for November 2012. |

| Item | Name | Assignment |
|-------------|-----------------------------------|---|
| LRAO | NPCC Long Range Adequacy Overview | On a consistent basis, evaluate the near-term seasonal and long-range (five year) adequacy of NPCC Areas’, reflecting neighboring regional plans proposed to meet their respective resource adequacy criteria through multi-area probabilistic assessments. |
| | Status/ Comments: | The “NPCC Long Range Adequacy Overview” is expected to be presented to the RCC for review and approval following the release of NERC’s corresponding 2012 Long-Term Reliability Assessment and NPCC’s Task Force on Coordination of Planning review in December 2012. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

| Item | Name | Assignment |
|-------------|---|---|
| CP-11 | <i>NPCC Basic Criteria For Design and Operation of the Bulk Power System Review Working Group</i> | This Working Group is charged with the revision of the NPCC Inc. Basic Design Criteria Directory No. 1 and the NPCC Glossary of Terms Document A-07. In addition, the Task Force on Coordination of Planning (TFCP) charged the CP-11 Working Group with the development of the A-10 Classification of BPS Elements document. |
| | Status/ Comments: | The C P-11 Working Group held a series of meetings and conference calls to work on Directory No. 1. Members were encouraged to participate in this important effort which is expected to take about 18 months to complete. At the August 18, 2010 meeting, the TFCP approved the revised scope and schedule submitted by the CP-11 Working Group for the Directory No. 1 review to be completed by November 2011. The CP-11 Working Group completed the first milestone in the development of a draft Directory No. 1 document that was forwarded to the Task Forces on January 27, 2011 for their review and input. In September the CP-11 Working Group delivered to TFCP the draft D1 revisions intended for Open Process Review pending input from TFCO. The CP-11 Working Group has since provided the draft D1 to TFSS as well and will continue to work with the Task Forces to develop a consensus document that can be submitted in the NPCC Open Process Review for comments. |
| Item | Name | Assignment |
| SP-7 | Working Group on Review of Protection System Mis-operations | Review and analyze mis-operations of transmission and generation protection systems and special protection systems on the bulk electric system and report on the statistics of mis-operations as they occur in the NPCC region including lessons learned and implementation of corrective action plans by registered entities. |
| | Status/ Comments: | The SP-7 Working Group has completed review the First Quarter 2012 misoperation reports and outstanding reports from prior Quarters. The First Quarter Report and updates to prior Quarter Reports were submitted to NERC on July 15, 2012, and a status report was given at the June 13, 2012, RCC meeting. The reporting deadline for the Second Quarter 2012 misoperation reports passed on July 20, 2012; the SP-7 Working Group will convene in September to begin review of the Second Quarter 2012 reports and outstanding reports from prior Quarters. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON SYSTEM STUDIES

| Item | Name | Assignment |
|-------------|-------------------------------------|---|
| SS-37 | Base Case Development Working Group | On an annual basis, develop a library of solved load flow cases and associated dynamic data. |
| | Status/ Comment: | <p>The SS-37 Working Group will commence development of the 2012 Library of Load Flow cases per the SS-37 Work Plan Schedule. The Working Group is working with the MMWG and PowerTech staff to correct problems identified in the 2011 Series Dynamics Library.</p> <p>The Working Group will update the SS-37 Procedure Manual to reflect recent revisions made to the MMWG Procedure Manual.</p> <p>The load flow cases were approved and finalized by the MMWG and have been posted on the SS-37 ftp site.</p> <p>The Dynamics cases that were submitted to the MMWG on October 15, 2012.</p> |

| Item | Name | Assignment |
|-------------|---|--|
| SS-38 | Inter-Area Dynamic Analysis Working Group | Assigned to analyze dynamic phenomena, which may affect interconnected system reliability, especially in the area of low frequency oscillations. |
| | Status/ Comments: | <p>The SS-38 Working Group is working on the load modeling white paper as scheduled in the TFSS work plan for 2012-2013. The Terms of Reference for the load modeling white paper was approved at the March 1, 2012 RCC meeting. The draft paper is presently scheduled to be completed for review by TFSS in early February 2013 and for approval at the February 27, 2013 RCC Meeting. The SS-38 Working Group will present a status report on this effort at the November 27, 2012 RCC meeting.</p> |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

Eastern Interconnection Reliability Assessment Group

Study Committees

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|--|---|
| ERAG | Eastern Interconnection Reliability Assessment Group | <p>The Eastern Interconnection Reliability Assessment Group (ERAG) Management Committee (MC) oversees the Multi-Regional Modeling Group steady state and dynamics base case development, all Eastern Interconnection interregional assessment activities and other interregional matters of interest. Eastern Interconnection assessment forums include: RFC-NPCC, RFC-SERC East and RFC-MRO-SPP-SERC West.</p> |
| | Status/ Comments: | <p>The ERAG Management Committee met on September 26, 2012 at the MRO offices in St. Paul, Minnesota. During the meeting the topics discussed included:</p> <ul style="list-style-type: none"> • Presentations on frequency response and on general system modeling practices were provided at the EPRI / North American Transmission Forum (NATF) / North American Generation Forum (GATF) Workshop on July 1-11, 2012 in Palo Alto, Ca. The objective was to achieve better coordination with industry generators regarding system frequency response and governor modeling. • Participated in NATF Modeling meetings and conference call to discuss system modeling needs and possible areas for development. • Reviewed a proposal from the Eastern Interconnection Planning Cooperative (EIPC) to take over the MMWG steady state and dynamics model building process. Discussed concerns with this proposal. • Addressed NERC Governor Survey information sent by NERC to the Eastern Interconnection Regions. Considered NERC request to go through their information to match the representation in the MMWG dynamics cases to the data included in the governor survey information and on the status of each Region's review efforts. • Discussed a request from SERC for the ISOs / RTOs to provide dispatches that closely align with economic dispatch practices in future ERAG/MMWG base cases • Received a presentation from a DOE representative on long term future system needs and plans. • Received the ERAG Steering Committee (SC) status report on the 2012 / 2013 Winter Assessment work. • Discussed a CEII and Non-Disclosure Agreement concern regarding Canadian system modeling information transmittal and use in MMWG steady state and dynamics models. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program RFC - NPCC Working Group

| Item | Name | Assignment |
|-------------|--------------------------|---|
| RNWG | RFC-NPCC Working Group | The RFC-NPCC Working Group (RNWG), under the direction of the newly combined SERC-East and the RFC-NPCC Steering Committees (SerN SC), conducts appraisals of the RFC-NPCC interconnected systems for the upcoming summer and winter capability periods. |
| | Status/ Comments: | The RNWG produced its portion of the 2012-13 winter interregional reliability assessment which was accepted at a meeting of the Joint ERAG Steering Committee on October 16, 2012. There were no unusual limitations found that would affect emergency transfers between the NPCC and our adjacent regions. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

| Item | Name | Assignment |
|--------------|---|--|
| RAS | Reliability Assessment Subcommittee (RAS) | Conduct an annual review of the overall reliability of the existing and planned generation and transmission systems of the eight Regional Reliability Entities for the ten year horizon. Conduct semiannual seasonal assessments of the overall reliability of the existing generation and transmission systems of the eight Regional Reliability Entities. |
| | Status/ Comments: | <p>The NERC RAS 2012 Winter Assessment is in progress and will be released in November, 2012. The NERC RAS 2012 Long Term Reliability Assessment is also scheduled for release in November, 2012.</p> <p>The RAS is initiating its first required probabilistic reliability assessment, to be released in the middle of 2013.</p> |
| Item | Name | Assignment |
| RADWG | Reliability Assessment Data Working Group | 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. |
| | Status/ Comments: | <p>NERC staff plans to hold a webinar for the RADWG to provide an overview of the proposed NERC Reliability Assessment Data System (RADS), including the expected benefits, Regional involvement, and a proposed timeline. The next meeting is scheduled for October 24-25, 2012 at EROT's Austin, TX office, to review proposed DOE EIA-411 and 2013 NERC Reliability Assessment Subcommittee LTRA data requirements, and continue discussion of reliability assessment data requirements and Regional submittal processes.</p> |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

| Item | Name | Assignment |
|----------------------|------------------------------------|---|
| RIS ProbA | Reliability Issues Subcommittee | Trial assessment to determine if probabilistic reliability metrics based on the NERC Long Term Reliability Assessment can be used to supplement NERC regional reliability outlooks. |

Status/ Comments:

NERC's Generation and Transmission Reliability Planning Models Task Force (GTRPMTF) recommended the creation of an annual report summarizing a probabilistic assessment of the resource adequacy by Region across NERC. The GTRPMTF was subsequently disbanded and the Planning Committee has assigned the Reliability Assessment Subcommittee (RAS) to coordinate the assembly of this report.

In 2011, the RAS piloted this effort to produce enhanced resource adequacy metrics for the *2010 Long-Term Reliability Assessment*. The NERC Planning Committee (PC) approved the recommendations from this report which initiates a mandatory probabilistic assessment study to be performed biennially. The Probabilistic Assessment (ProbA) Report is designed to complement the Long-Term Reliability Assessment by providing additional probabilistic statistics of Loss of Load Hours (LOLH) and Expected Unserved Energy (EUE). On September 6, 2012 NERC requested reports on the third and fifth year of the *2012 Long-Term Reliability Assessment*—for the years 2014 and 2016. NPCC will satisfy these requirements through the 2012 NPCC Long Range Adequacy Overview.

| Item | Name | Assignment |
|-------------|--|--|
| TADS | Transmission Availability Data System | Serve as the Regional Entity Coordinator (REC) in support of the NERC TADS outage data collection and the analysis of the NPCC Transmission Owners (TO) outage information. As the REC, oversee the use of and the data entry of automatic outage information by the TO in the NERC Internet based data management tool - webTADS. |

Status/ Comments:

The scheduled start of data entry for 2012 outages into webTADS is scheduled to begin in January 2013. It will not include the collection of outages information for TADS reportable equipment associated with the new BES definition until after FERC has accepted the definition.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

| Item | Name | Assignment |
|-------------|-------------------------------------|---|
| DADS | Demand Availability Database System | Serve as the Regional Entity Coordinator (REC) in support of the DADS data collection and analysis for NPCC. As the REC, oversee the collection of the data in the NERC Internet based data management tool – webDADS. |
| | Status/ Comments: | <p>The Winter 2011 DADS Data reporting period ended on March 31, 2012 and the reporting deadline for the Winter 2011 Period passed on June 15, 2012. NPCC and NERC staff have cooperated to gather data from NPCC reporting entities.</p> <p>The DADSWG June4-5, 2012 to discuss future DADS reporting implementation and the 2012 NERC State of Reliability Report, in which the DADS data collected from the Summer 2011 period was featured. Additionally, the working group has formed subcommittees to develop new DADS metrics, update the DADS Data Reporting Instructions, develop the DADS Definitions glossary, and organize training for Regional Entity Coordinators.</p> |

| Item | Name | Assignment |
|-------------|---------------------------------|--|
| SEDS | Spare Equipment Database System | Serve as the Regional Entity Coordinator (REC) in support of the Spare Equipment Database and analysis for NPCC. As the REC, oversee the collection of the data in the NERC Internet based data management tool. |
| | Status/ Comments: | The webSED data entry tool was activated in June 2012. NPCC staff attended NERC sponsored user training sessions in June 2012. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|------------------------------------|--|
| GADS | Generator Availability Data System | Serve as the Regional Entity Coordinator (REC) in support of the Generator Availability data collection and Data System analysis for NPCC. As the REC, oversee the collection of the data in the NERC Internet based data management tool – webGADS. |
| | Status/ Comments: | <p>The deadline for the second quarter of 2012 mandatory GADS reporting (2012 Q2) has been postponed from July 31, 2012, to August 31, 2012. New England reporting GO/entities will report GADS data to NERC through the ISO-New England; New York and NPCC Canadian reporting GO/entities will report GADS data directly to NERC.</p> <p>The GADS Working Group met August 7-8, 2012. NPCC staff attended as observer member of the working group and will continue to function as a member until a GO member from NPCC becomes the official NPCC representative member of the working group. The GADSWG discussed upcoming change orders for the webE-GADS system, development of wind generation reporting criteria in GADS, updated design and event data and cause code definitions, and updated hydro and solar GADS reporting criteria.</p> |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

OTHER

| Item | Name | Assignment |
|------------------|--------------------------|--|
| Inter-ISO | Inter-ISO Working Group | The Inter-ISO Working Group was formed to address Inter-Regional planning and Inter-Area issues of projects that have “cross border” impacts while providing an open stakeholder forum and committee structure to allow market input. |
| | Status/ Comments: | A WebEx Meeting was held March 30, 2012. Topics included: <ul style="list-style-type: none">✓ Draft Northeast Coordinated System Plan 2011;✓ Production Cost Study Update;✓ FERC Order 1000;✓ Eastern Interconnection Planning Collaborative Update; and,✓ PJM-NYISO Short Circuit Study |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Situation Awareness and Infrastructure Security Program

TASK FORCE ON COORDINATION OF OPERATION

| Item | Name | Assignment |
|-------------|---------------------------------|--|
| CO-10 | Operational Tools Working Group | The 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 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: | A revised C-17 "Procedures for Monitoring and Reporting Critical Operating Tool Failures" has been approved by the TFCO. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Situation Awareness and Infrastructure Security Program

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

| Item | Name | Assignment |
|-------------|---|--|
| IST-1 | Infrastructure Security and Technology Workshop | Periodic workshops presentations to address timely issues and update member system personnel associated with the provision of on-line computer systems for operation of the power system. Last Workshop: May 2012 |
| | Status/ Comments: | IST-1 presented a classroom session at the Spring 2012 NPCC Standards & Compliance Workshop on “Preparing for CIP versions 4 and 5. Presentation provided for the Fall 2012 NPCC Standards & Compliance Workshop. |

| Item | Name | Assignment |
|-------------|----------------------------------|--|
| IST-3 | TFIST EMS-SCADA Working Group | Provide a forum to identify, discuss and advance the technology of EMS-SCADA for the reliable operation of the NPCC Bulk Power System. The EMS-SCADA Working Group (IST-3) will also support TFIST in their work on issues related to EMS-SCADA. |
| | Status/ Comments: | The EMS-SCADA Working Group has been designed as an Ad-hoc Working Group by TFIST. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Situation Awareness and Infrastructure Security Program

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

| Item | Name | Assignment |
|-------------|--|---|
| IST-4 | TFIST Cyber Security Working Group | Provide a forum to identify, discuss and advance the technology of Cyber Security for the reliable operation of the NPCC Bulk Power System. The Cyber Security Working Group (IST-4) will also support TFIST in their work on issues related to Cyber Security. |
| | Status/ Comments: | Expect TFIST to review a draft scope at the 2013 meeting. |

| Item | Name | Assignment |
|-------------|---|---|
| IST-5 | TFIST Physical Security Working Group | Provide a forum to identify, discuss and advance the use of Physical Security for the reliable operation of the NPCC Bulk Power System. The Physical Security Working Group (IST-5) will also support TFIST in their work on issues related to Physical Security. |
| | Status/ Comments: | Per the 2013-2014 TFIST Work Plan, re-populate the Physical Security Working Group. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Administrative Services

MEMBERS' FORUMS

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|----------------|--------------------------|---|
| General | NPCC General Meeting | To promote the reliable and efficient operation of the interconnected bulk power systems in Northeastern North America, NPCC invites high level policy makers from Federal, Provincial, and State regulatory and/or Governmental authorities and senior executives within NPCC to identify and discuss emerging issues related to the reliability of the NPCC Region. |
| | Status/ Comments: | The 2012 NPCC General Meeting will be held the afternoon of November 28, 2012 in Montreal, Quebec. |

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|----------------|---|---|
| Gov/Reg | NPCC Governmental Regulatory Affairs Advisory Group | To provide a forum where industry and governmental and/or regulatory representatives can exchange views and strive to develop consensus policy recommendations on reliability issues specific to the NPCC Region and share actionable information related to regional energy and reliability matters. |
| | Status/ Comments: | The next meeting of the NPCC Governmental/Regulatory Affairs Advisory Group is scheduled for November 27, 2012 in conjunction with the NPCC 2012 General Meeting in Montreal, Quebec. |

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|------------------------------|--|
| PIC | Public Information Committee | To highlight and summarize NPCC activities and accomplishments and disseminate appropriate information to the media, as well as respond to related requests for information. |
| | Status/ Comments: | NPCC continues to participate in the monthly communications coordination calls with NERC and the Regions. The 2012 Media Event for the release of the 2012 NPCC Summer Reliability Assessment was held May 10, 2012. The NERC Regional Communications Group met November 7-8, 2012 in New Orleans, LA; discussions were held on standards communications, media monitoring, coordination of media communication in times of emergencies, and outreach to stakeholders. |