



RCC Meeting
June 4, 2014
Agenda Item 7.10

Reliability Assessment Program
(NRAP)
HIGHLIGHT REPORT
Prepared for the
Reliability Coordinating Committee
June 4, 2014

Distributed to:

Members, Reliability Coordinating Committee
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



Reliability Assessment Program

HIGHLIGHT REPORT

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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 NPCC Regional Standards Committee (RSC), a committee of the NPCC Board, is primarily charged with management and maintenance of the NPCC Regional Reliability Standards Development Procedure (the replacement Regional Standard Processes Manual has been approved by ballot, the NPCC Board of Directors, sent to NERC, and upon all necessary approvals, will be replacing the NPCC Regional Reliability 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 replaced by the Regional Standard Processes Manual as the next revision). In addition, the NPCC RSC will review, comment on and develop ballot recommendations for the NERC Reliability Standards under development. 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 (CEAP) for evaluation of the cost effectiveness of NPCC's Regional Standards. The RSC also provided input through its members to the NERC CEAP, pilots, and permanent implementation of that process. Also the RSC continues to support NPCC staff in the Paragraph 81 and Informal Standard Development efforts. The RSC also participated in the development of the new NERC standards development process and Standards Process Input Group (SPIG) recommendations, and commented on revisions. The RSC is providing input to the NERC "Single Portal Project", led by NPCC to allow stakeholders to efficiently and effectively input inquiries to NERC as well as the NERC Drafting Team Reference Manual. NPCC has also initiated a review of NERC's Interpretation procedure with NERC Legal and will be suggesting enhancements.</p> |

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 Standard Processes Manual), which was approved by the NPCC Board 1 this year, and was forwarded to NERC for BOT approval and filing with FERC and the Provincial Authorities. 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 adequately 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 FERC. It is pending Provincial Government approval. 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 continues to consider enhancements to the NPCC Website to provide further uniformity and consistency with that of other Regions..</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 and has helped NERC adopt a similar approach. The RSC has also developed the Work Plan for 2014-2015 and a revised Scope of Work, both of which have been approved by the NPCC Board of Directors at their January 29, 2014 meeting.</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:

The Task Force on Coordination of Planning and the Task Force on Coordination of Operation requested a collaborative review of the draft Phase 2 version of Directory No. 1 by their respective Working Groups CP11 and C07.

The combined CP11/CO7 Working Group was instructed to review the draft as an integrated planning and operational document, examine all aspects of the criteria, and return the draft of Directory No. 1 to the TFCP and the TFCO for their collective consideration.

The CP11/CO7 Working Group progressed through the document addressing all Task Force comments submitted on previous versions and completed the original Task Force charge to review the Directory No.1 criteria.

Directory No.1 was posted to the Open Process for comment on December 11, 2013 through January 25, 2014.(45 days). CP11/ CO7 reconvened to address comments, develop draft responses and revise the draft of Directory No. 1. Directory No. 1 was returned to the Task Force’s and pending TFCP and TFCO approval will be reposted to obtain Member comments on proposed comment revisions..



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 | June 26, 2009 |
| | 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 the Task Force on Coordination of Operation (TFCO) coordination with other TFCO Directories.</p> | | |

| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
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| | | | | |
|-------|---|--|----------------------|---------------|
| 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>The Task Force on System Protection has completed a technical comparison of the criteria in Directory No. 3 with PRC-005-2 <i>Protection System Maintenance</i> and will recommend that the criteria in Directory No. 3 can be retired. The TFSP recommendation will be posted to NPCC Open Process to receive Member comments.</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>The Task Force on System Protection (TFSP) is incorporating a new protection system technology (IEC 61850) into the system protection criteria based on a SP8 review and white paper.</p> <p>The TFSP anticipates completing its review of Directory No. 4 and posting its proposed revisions to the Open Process by the end of 2014.</p> | | |

| <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: | <p>The Task Force on Coordination of Operation (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.</p> <p>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.</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-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. | | |
| <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 TFCP | July 3, 2013 |
| | Status/ Comments: | The RSC continues to monitor the progress of NERC Project 2010-05.2 – <i>Special Protection Systems</i> in order to assess its impact on the NPCC criteria for Special Protection Systems in Directory No.7. | | |
| <u>Item</u> | <u>Name</u> | <u>Appendices</u> | <u>Lead TF</u> | <u>Current Version</u> |
| DIR-8 | Black Start System Restoration | Appendix A – Definition of Terms | TFCO TFCO/TFSS ¹ | October 22, 2010 |
| | Status/ Comments: | The CO-11 Restoration Working Group is reviewing the initial Phase 2 draft of Directory No. 8 and will provide comments and recommendations to the TFCO. The CO-11 Restoration Working Group revisions will be incorporated into the Phase 2 reformatting of Directory No. 8 and presented to the TFCO. The revised document has been posted for public comment on the NPCC Web site. | | |

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 | July 9, 2013 |
| | Status/ Comments: | <p>Directory No.12 was revised by the Task Force on System Studies (TFSS) in order to synchronize the UFLS program tolerance bands in Directory No.12 with those in the UFLS Regional Standard PRC-006-NPCC-1, allowing regional entities to implement a program that is consistent with the Regional Standard and the SS-38 Working Group design recommendations as part of the ongoing six year UFLS Implementation Plan.</p> <p>The NPCC Full Member Committee approved the revised Directory No.12 on July 9, 2013.</p> <p>NPCC will retire Directory No.12 upon full implementation of PRC -006-NPCC-1.</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 Manual | 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. | December, 2013 |

Status/ Comments:

The Directory Development and Revision Manual was revised in 2013 to incorporate changes in the approval process for a Criteria Interpretation (Clarification).

The RSC anticipates reposting the Directory Manual in 2014 in order to receive Member comments on proposed revisions to the Manual incorporating cost concepts for new or revised NPCC criteria.

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. | October 26, 2011 |



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: | <p>The NPCC Board approved the Standard on February 9, 2010. 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. The Task Force on System Protection (TFSP) responded to a Request for Interpretation regarding generators in Requirements R4, R5, and R6 which was approved by the NPCC Board of Directors. Four additional Requests for Interpretation have been resolved by TFSP. Three Requests for Clarification have been resolved by TFSP. The Drafting Team for PRC-002-NPCC-01 has been reconvened in response to an approved RSAR to address the new BES definition, and clarifications needed from the Requests for Interpretation. Its work has been put on hold until the continent wide Standard (PRC-002-2) is completed.</p> | | |

| <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: | <p>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 were due with the Commission by November 26, 2012. NPCC and four other entities (including NERC) filed comments on the NOPR. NPCC filed reply comments on December 11, 2012. FERC approved PRC-006-NPCC-1 and its Implementation Plan on February 21, 2013. Based on the FERC approved Implementation Plan the enforcement date for R1 – R7 is January 1, 2016. Requirements R8 – R23 are enforced July 1, 2015.</p> | | |



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. | Latest Version: New Frequency of Reviews: 3 years Next Review Date: |

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. | Latest Version: Sept. 19, 2007 Frequency of Reviews: 3 years Next Review Date: Nov. 8, 2011 |

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. It was reposted June 6, 2013 through July 22, 2013 for comments. Comments received have been reviewed and necessary revisions incorporated. The title of the document is going to be revised to “Regional Standard Processes Manual”. The document was reposted for comments September 5, 2013 through October 20, 2013. The comments received were reviewed and incorporated as appropriate. The Regional Standard Processes Manual passed the ballot that was posted November 12, 2013 through January 17, 2014. The document was approved by the NPCC Board of Directors and forwarded to NERC for its BOT approval. After NERC Approval it will be forwarded to FERC and the Provincial Authorities.



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. In addition, the CC is responsible for providing non-monetary sanction recommendations to the RCC for incidents of non-compliance with monitored Reliability Criteria.</p> <p>Status/ Comments: The revised Compliance Procedure CP-06 Procedure for Self-Certification and Self-Reporting was approved at the March 2014 CC meeting. The revised Compliance Procedures CP-01 NPCC Implementation of the NERC Compliance Monitoring and Enforcement Program and CP-07 Procedure for Technical Feasibility Exceptions were both approved at the May 2014 CC meeting.</p> <p>At the April 2014 meeting, the CC approved the retirement of Compliance Guidance Statement CGS-01 which will occur on the effective date of FAC-003-3 (July 1, 2014). The compliance focus of FAC-003-3 is toward maintaining a minimum vegetation clearance to prevent vegetation contacts. FAC-003-1, which CGS-01 was based upon, focused on reporting outages caused by vegetation contacts.</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 | Criteria Compliance and Enforcement Program | <p>The CC will maintain the <i>NPCC Criteria Compliance and Enforcement Program Process Document (CCEP-1)</i> which documents the process for actively monitoring and enforcing compliance on a subset of the Reliability Criteria.</p> <p>The CC will provide to the RCC for approval an annual CCEP Implementation Plan which identifies the Reliability Criteria that will be monitored in the upcoming CCEP compliance year and identifies the due dates for the Reliability Criteria Certification forms.</p> <p>The CC will provide to the RCC for approval an annual written assessment of the submitted Reliability Criteria Certification forms which will include recommendations as necessary of non-monetary sanctions for incidents of non-compliance.</p> <p>Status/ Comments:</p> <p>At the March 18-19, 2014 CC meeting, a revised version of the CCEP-1 Process Document was approved. During the same meeting, CC members were asked to begin reviewing the 2013 CCEP Certification Forms posted on the CC webpage with the intent to vote on all of the 2013 Certification Forms at the June 2014 meeting. The latest/updated 2013 CCEP compliance scorecard was distributed to the CC on April 30, 2014. The annual Reliability Criteria Certification assessment report will begin development and will also be voted upon at the June 2014 CC meeting. The CCEPWG is scheduled to meet June 19, 2014 to kick off the development of the 2015 CCEP Implementation Plan. The CCEPWG will target the September 2014 CC meeting for the approval of the 2015 CCEP Implementation Plan and the pertinent Certification Forms.</p> |



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 | 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. |
| | Status/ Comments: | The CO-2 Working Group held its Spring 2014 System Operators Training Seminar on May 6-8, 2014. The next meeting to address industry issues affecting system operator training including continuing implementation of the PER-005 requirements will be held at the NPCC office in New York on July 10-11, 2014. |



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 last met on May 22-23, 2014. The CO-1 members are actively addressing the following topics: 1) more detailed assessment of Simultaneous Activation of Reserve (SAR) procedure implementation, 2) analysis of recent SAR events, 3) providing support and research regarding frequency response issues including NPCC governor response and frequency bias setting issues and the implementation of new BAL-003-1 standard content, 4) ACE Diversity Interchange, 5) Balancing Standards BAL-001-2, BAL-002-2, BAL-003-1 and the BAL-004-006 NERC Review. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

| Item | Name | Assignment |
|-------------|------------------------------------|--|
| CO-7 | Operational Planning Working Group | <p>The Working Group CO-07 was restructured to serve the Task Force on Coordination of Operation as an Ad Hoc Working Group, populated and charged to address specific issues as required to assist the TFCO. It has been renamed the “Operational Planning Working Group.”</p> <p>Status/ Comments:</p> <p>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.”</p> <p>On January 31, 2013 the Task Force on Coordination of Planning (TFCP) and the Task Force on Coordination of Operation (TFCO) requested a collaborative review of the Phase 2 draft of Directory No. 1 by their respective Working Groups: CP-11 and CO7.</p> <p>The combined CP11/CO7 Working Group was instructed to review the draft as an integrated planning and operational document, examine all aspects of the criteria and return the draft of Directory No. 1 to the TFCP and the TFCO for their collective consideration.</p> <p>The CP11/CO7 Working Group have been meeting once a week via WEBEX and is progressing through the document while addressing all Task Force comments that have been submitted on previous versions of the draft. The goal of the group is consistent with the overall goal of Phase 2 of the NPCC Directory project which is to produce a draft with criteria requirements that are clear, measurable and unambiguous throughout the document.</p> <p>The group has developed Planning and Operation ‘Tables’ containing the relevant contingency events, fault types and performance requirements from the criteria section of the Directory. The formatting and subsequent review of the Table content has provided additional clarity for the criteria and has gained consensus among the group.</p> <p>Following the collaborative effort by the Working Groups CP-11 and CO-7, a revised draft of Directory No. 1 has been developed and approved by the Task Forces on Coordination of Planning and Operation. It is currently posted for public comment – comments received will be addressed.</p> |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

| Item | Name | Assignment |
|-------------|--|--|
| 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 May 7 and 8, 2014, at which it revised and released a new communications document, C-01, "NPCC Emergency Preparedness Communications Procedures," and coordinated Reliability Coordinator to Reliability Coordinator communication links. On the second day of the meeting, the representatives of the Working Group CO-08 met with their counterparts from the Midwest ISO and PJM to discuss operational issues of common interest and review the operational readiness of each Reliability Coordinator for the coming summer season. The System Operations Managers Working Group holds these collaborative meetings with the MISO and PJM semiannually in advance of the summer and winter load periods. |



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 CO-11 Working Group facilitates effective and coordinated power system restoration among the NPCC Reliability Coordinator areas and with adjacent Regions. Annually review the restoration plans of the NPCC Reliability Coordinator areas to identify in each individual plan the physical points of coordination, the general elements of the restoration plan, the Key Facilities associated with the restoration plan, the communication protocols employed and the roles and responsibilities of the restoration participants. Identify opportunities for mutual assistance during restoration and the extent to which each system can rely on its neighbors for assistance. Coordinate Reliability Coordinator restoration exercises and develop and supervise annual wide area restoration simulations. The Restoration Working Group (CO-11) monitors the NERC Reliability Standards EOP-005, “System Restoration from Blackstart Resources,” and EOP-006, “System Restoration Coordination,” and coordinates input to the NPCC Task Force on Coordination of Operation and the NPCC Regional Standards Committee as revisions to these Standards are proposed and implemented. |

Status/ Comments:

The NPCC Restoration Working Group (CO-11) met on May 5 and 6, 2014. Topics addressed during that meeting included the review of NPCC Document C-35, “Power System Restoration Guideline,” and Directory 8, “System Restoration,” which are now posted on the NPCC Web site for public comment. The Working Group also began its planning for the October wide area restoration exercise among the five NPCC Reliability Coordinators, PJM and MISO

| 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. Working Group CO-12 has been renamed the “Seasonal Assessment Working Group” to avoid confusion with the restructured Working Group CO-07. |

Status/ Comments:

The CO-12 Working Group has completed work on the 2014 Summer NPCC Reliability Assessment. It was approved by the TFCO and issued May 1, 2014. The CO-12 Working Group has been requested to provide a summary report on winter 2013-2014 winter operating conditions and to develop a plan to conduct an energy assessment for the 2014-2015 winter NPCC Reliability Assessment. This would be in addition to the customary capacity resource assessment. The Working Work has begun discussions on how to do these tasks.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|---|--|
| 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 2013 NPCC Long Range Adequacy Overview (LRAO) was approved at the February 26, 2014 RCC meeting.. |

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|---|--|
| CP- 2014S | Summer 2014 Multi-Area Probabilistic Reliability Assessment | Assess NPCC Area reliability for the year 2014 by estimating the projected use of Area Operating Procedures designed to mitigate resource shortages for the summer (May through September) period. |
| | Status/ Comments: | The 2014 Summer NPCC Multi-Area probabilistic Reliability Assessment was approved by the Task Force on Coordination of Planning and released at the May 1 st NPCC Media Event. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|--|--|
| CP- 2013W | Winter 2013-2014 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 2013-14 Winter Multi-Area Probabilistic Reliability Assessment will be considered for approval by the RCC at their June 4, 2014 RCC meeting, to be released as part of the 2014-2015 NPCC Winter Reliability Assessment in November 2014. |

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|-----------------------------------|---|
| 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: | Work on the <i>2014 NPCC Long Range Adequacy Overview</i> is underway. The scope and schedule for the 2014 LRAO was approved by the RCC at their September 11, 2013 meeting. |



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> | <p>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.</p> |
| | Status/ Comments: | <p>The Task Force on Coordination of Planning and the Task Force on Coordination of Operation requested a collaborative review of the draft Phase 2 version of Directory No. 1 by their respective Working Groups CP11 and C07.</p> <p>The combined CP11/CO7 Working Group was instructed to review the draft as an integrated planning and operational document, examine all aspects of the criteria, and return the draft of Directory No. 1 to the TFCP and the TFCO for their collective consideration.</p> <p>The CP11/CO7 Working Group progressed through the document addressing all Task Force comments submitted on previous versions and completed the original Task Force charge to review the Directory No.1 criteria.</p> <p>Directory No.1 was posted to the Open Process for comment on December 11, 2013 through January 25, 2014.(45 days).</p> <p>CP11 and CO7 will reconvene to address comments received in the Open Process.</p> |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON SYSTEM STUDIES

| Item | Name | Assignment |
|-------------|--|---|
| SP-7 | Working Group on Review of Protection System Misoperations | Review and analyze misoperations of transmission and generation protection systems and special protection systems on the bulk electric system and report on the statistics of misoperations as they occur in the NPCC region including lessons learned and implementation of corrective action plans by registered entities. |
| | Status/ Comments: | <p>The SP-7 Working Group has completed review of Fourth Quarter 2013 misoperation reports and outstanding reports from prior Quarters. The Fourth Quarter Report and updates to prior Quarter Reports were submitted to NERC on April 15, 2014, and a status report will be given at an upcoming RCC meeting. The SP-7 Working Group is currently reviewing First Quarter 2014 reports and outstanding reports from prior Quarters.</p> <p>The Working Group is continuing discussion with its members and their respective organizations on the NERC proposed move of Protection System Misoperation and Operation data out of PRC-004 compliance requirements to NERC Rules of Procedure Section 1600 Mandatory Data Reporting and its potential effects on the NPCC Misoperation and Operation reporting process.</p> |

| 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 completed development of the 2013 Library of Cases in September 2013 (Load Flow/Steady State and Dynamics/Stability cases) per the SS-37 Work Plan Schedule. The Working Group is currently preparing to begin the development of the 2014 Library of Cases at its June 2014 meeting per the Work Plan Schedule.</p> <p>SS-37 met in April 2014 to review the 2014 Series MMWG Base Case Development Schedule and discussed proposed changes and improvements to the annual Base Case Development process, annual base case maintenance data, and the MMWG's proposed migration from PSS/E Version 32 to Version 33.</p> |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON SYSTEM STUDIES

| 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: | The SS-38 Working Group is making good progress on the 2013 UFLS Adequacy Assessment and will provide a status report at the June 4, 2014 RCC meeting. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

Eastern Interconnection Reliability Assessment Group

Study Committees

| Item | Name | Assignment |
|------|--|---|
| 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> |
| | <p>Status/ Comments:</p> | <p>The ERAG Management Committee (MC) met on April 23-24, 2014 at the MRO offices in Saint Paul, Minnesota. ERAG is considering the effects that implementation of the NERC MOD-032-1, “Data for Power System Modeling and Analysis” and the MOD-033-1, “Steady-State and Dynamic System Model Validation” Standards will have on ERAG base case modeling and the Multi-Regional Modeling Working Group base case compilation process. Both documents have recently been approved by NERC and have been provided to FERC for approval. Since these standards shift much of the modeling coordination responsibilities from the Regions to the Planning Coordinators it is expected that the ERAG process will need to change and Planning Coordinators will have a bigger direct role. ERAG is considering options for changes to the process to accommodate the new Standard requirements. A “clean slate” review of the overall process is underway.</p> <p>The 2013 series dynamics base case compilation has been completed and ERAG Multi-Regional Modeling Working Group (MMWG) will distribute the updates to the regions. MMWG will also be providing 2014 and 2019 light load cases to NERC staff for their use to determine the most recent Eastern Interconnection Frequency Response Obligation. This is used to administer BA compliance with the BAL-003-1 Standard.</p> <p>NERC has encouraged the ERAG Regions to have their stakeholders complete the new governor-turbine modeling survey to update information for use in improving the accuracy of governor-turbine control models in MMWG dynamics base cases. The 2013 series of MMWG dynamics base cases included significant updates to the governor-turbine control models. Training has been set up for July 15/16 at SPP for training of the MMWG Regional coordinators to use the web-Based Dynamics Data Base Program.</p> <p>The ERAG Management Committee and MMWG are re-evaluating the ERAG data confidentiality process to confirm that it fully safeguards the MMWG base case information, especially the Canadian dynamic simulation data. All entities requesting the MMWG base cases must sign the present non-disclosure agreement before receiving the base cases.</p> <p>The ERAG MMWG is reviewing the number and type of base cases produced annually and the type of generation dispatches that are needed in the base cases for reliability study purposes. This may be driven by the number of cases that are needed to meet the TPL-001-4 Standard. ERAG MC agreed to proceed with the 2014/15 Winter Assessment and will later determine the next future assessment that is needed.</p> |



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: | NPCC Staff was assigned to be the Report Writer for the RNWG 2014 ERAG Summer and Winter Transmission Assessment Studies. The ERAG Study Working Groups completed the 2014 Summer Transmission Assessment study in May, and the 2014 Summer Assessment report was approved and released by the ERAG Management Committee in May. The RNWG will begin preparations for the 2014 Winter Assessment Study in June. |



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 will meet June 17-18, 2014 at FRCC’s Tampa, FL office to peer review the data and narratives for the 2014 NERC Long-Term Reliability Assessment, the Summer Reliability Assessment, and the Probabilistic Assessment. Data forms and instructions have been posted for the corresponding 2014 NERC Probabilistic Assessment. .The initial draft of the Long Term Reliability Assessment for 2014 will be developed by the RAS at this meeting,</p> <p>The NERC 2014 Summer Reliability Assessment was approved by the NERC BOT and released on May 14, 2014.</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: | The development of the NERC Reliability Assessment Data System (RADS) has been suspended until 2015. The next meeting of the RADWG is scheduled for June 19, 2014 at the FRCC office in Tampa, FL to review 2014 NERC Summer Reliability Assessment and 2014 NERC LTRA Data Forms and corresponding supplemental data requests. |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

| Item | Name | Assignment |
|--------------|---------------------------------|---|
| ProbA | Probabilistic Assessment | <p>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.</p> <p>Status/ Comments:</p> <p>The Probabilistic Assessment (ProbA) Report complements the LTRA by providing additional probabilistic statistics of Loss of Load Hours (LOLH) and Expected Unserved Energy (EUE). The 2012 ProbA was completed in June 2013 as an addition to the 2012 LTRA and covered the year 2014 and 2016 . This is now the second ProbA Report complementing the 2014 LTRA. The ProbA will calculate metrics for the third and fifth year—2016 and 2018. The metrics will be compared to the 2012 Probabilistic Assessment. The initial data request is planned to be distributed on July 21, 2014.</p> <p>At its April meeting, the RAS decided to add a ‘No Emergency Operating Procedures’ scenario in the 2014 ProbA. The scenario addresses concerns by the PC and RAS about forgoing all operating reserves, resulting in conditions where all available resources are committed to meet firm load, and firm transactions without any remaining to respond to outages and contingencies.</p> |

| Item | Name | Assignment |
|-------------|---------------------------------------|--|
| TADS | Transmission Availability Data System | <p>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.</p> <p>Status/ Comments:</p> <p>The NERC TADS Working Group (TADSWG) met January 28, 2014, at NERC Offices in Atlanta, Georgia. The next face to face meeting was May 20 - 22, 2014, at Charlotte, North Carolina. 19 volunteers from all the regions beta tested the new OATI software regarding the reporting requirements for 100 kV transmission lines. OATI has received all feedbacks and comments on the new software. The Working Group will follow up with OATI regarding the beta testing the results as well as all the changes orders submitted by NERC staff.</p> <p>TADSWG is in the process of assisting NERC staff to update the dashboard based on 2012 and 2013 data submittal.</p> |



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> |
|-------------|-------------------------------------|--|
| 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 NERC Demand Response Availability Data System Working Group (DADSWG) held a conference call on April 17, 2014. DADSWG also held a face to face meeting on March 27-28th, 2014 at TRE’s office in Austin, Texas. During the conference call and face to face meeting, DADSWG reviewed and accepted the comments on the DADS Glossary.</p> <p>The DADSWG also reviewed the 2013 DADS summer data and discussed Demand Response Fatigue issues and analysis paper. In addition, several enhancements in the OATI system were provided.</p> |

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|-----------------------------|---|
| SEDS | Spare Equipment Data 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: | <p>The NERC Spare Equipment Database Working Group (SEDSWG) held a conference call on February 4, 2014, and a face-to-face meeting in NERC’s office at Atlanta on December 11, 2013. Suggestions and ideas were provided to increase the participation in the Spare Equipment Database. Since the conference call on February 4, 2014 there has been no additional activities of the SEDWG.</p> |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

| Item | Name | Assignment |
|-------------|------------------------------------|--|
| 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 – webE-GADS. |
| | Status/ Comments: | <p>The NERC GADS Working Group (GADSWG) held a conference call on April 10, 2014. The GADSWG also held a face to face meeting on March 11-12, 2014 at NERC's Office Atlanta Georgia. The GADSWG reviewed all the comments received on the wind GADS white paper. NERC staff will be updating the wind GADS white paper per suggestions/comments received. NERC staff also updated the Working Group on the recent NERC-PAS meeting activities.</p> <p>The Working Group also made suggestions to the dashboard for GADS. In order to support the NERC staff a small group of volunteers formed a GADS dashboard design working team. Dashboard design working team held their preliminary conference call on April 10th, 2014. NERC staff will put out a survey to all of the entities regarding the dashboard design.</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: | The Inter-ISO Working Group meet (via WebEx) on Friday, March 28, 2014 to discuss FERC Order 1000 requirements for the Northeastern Coordination System Plan (NCSP) and development of NCSP 13. |



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 | <p>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.</p> |
| | Status/ Comments: | <p>The CO-10 Working Group has completed the latest update to the Facilitated Transaction Checkout tool incorporating intra-hour scheduling. The Working group will also be engaged in review tool failure lessons learned generated from the EAP program.</p> |



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Situation Awareness and Infrastructure Security Program

TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|---|--|
| 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: Fall 2013 |
| | Status/ Comments: | An update to CIP versions 4 and 5 was presented at the Fall 2013 NPCC Standards & Compliance Workshop. Another update is planned for the 2014 Spring Workshop. |

| <u>Item</u> | <u>Name</u> | <u>Assignment</u> |
|-------------|-------------------------------------|--|
| 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: | TFIST to review a draft scope at its May 2014 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 2014-2015 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 2014 NPCC General Meeting is scheduled to be held the afternoon of December 3, 2014 in Halifax, Nova Scotia. |

| <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 NPCC Governmental/Regulatory Affairs Advisory Group will be held the afternoon of December 2, 2014 in conjunction with the NPCC 2014 General Meeting in Halifax, Nova Scotia. |

| <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 communications coordination with NERC and the Regions. The 2014 Media Event for the release of the 2014 NPCC Summer Reliability Assessment was held on May 1, 2014. |