



RCC Meeting  
December 3, 2013  
Agenda Item 6.10

**Reliability Assessment Program**  
**(NRAP)**  
**HIGHLIGHT REPORT**  
*Prepared for the*  
*Reliability Coordinating Committee*  
*December 3, 2013*

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



**NPCC, Inc.**

## **Reliability Assessment Program**

### **HIGHLIGHT REPORT**

## **Contents**

<b><u>Reliability Standards</u></b>	<b>1</b>
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
<b><u>Compliance Enforcement and Organization Registration and Certification</u></b>	<b>13</b>
Compliance Committee	13
Documents	14
<b><u>Training, Education, and Operator Certification</u></b>	<b>15</b>
Task Force on Coordination of Operation	15
<b><u>Reliability Assessment and Performance Analysis</u></b>	<b>16</b>
Task Force on Coordination of Operation	16
Task Force on Coordination of Planning	22
Task Force on System Studies	23
Eastern Interconnection Reliability Assessment Group	25
RFC-NPCC Working Group	26
NERC	27
Other	31
<b><u>Situation Awareness and Infrastructure Security</u></b>	<b>32</b>
Task Force on Coordination of Operation	32
Task Force on Infrastructure Security and Technology	33
<b><u>Administrative Services</u></b>	<b>35</b>
Members' Forums	35



## 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 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 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 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. 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 Standards Process Manual), which has been posted and will be submitted to the NPCC Board for approval by year's end. 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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
RSC	Regional Standards Committee	<p>The RSC continues to develop 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>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 2013-2014 and a revised Scope of Work, both of which have been approved by the NPCC Board of Directors.</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 (TFCP) is presently drafting a new version of Directory No. 1 that will reformat the existing NPCC criteria into NERC style requirements. The reformatted version of Directory No.1 will highlight the more stringent and specific criteria while also promoting conformance with the NPCC criteria compliance program (Phase 2 of the Directory project).

The TFCP and the Task Force on Coordination of Operation (TFCO) have directed their respective Working Groups (CP-11 and CO-7) to collaboratively review the Phase 2 draft. The Ad Hoc group is reviewing all comments submitted to date and will identify and provide recommendations aimed at achieving consensus on how the criteria is interpreted.

The CP-11 and CO-7 Working Groups have been meeting through a series of weekly WEBEX's and in person meetings and have completed its review of the Directory No. 1 criteria. The TFCO and TFCP have authorized the CO7/CP11 group to continue its review to include the document Appendices. CO7/CP11 expects to complete its effort and return the document to the TFCO and TFCP for Open Process posting in early December. CP11 and CO-7 are expected to complete their effort and return the draft to their respective Task Forces during the 4th quarter of 2013.



# 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
	<b>Status/ Comments:</b>	<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 Work plan 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
	<b>Status/ Comments:</b>	<p>In 2009 the Task Force on System Protection (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 three Interpretation Requests surrounding the criteria language within Directory No. 3. The TFSP is currently reviewing Directory No. 3 criteria to insure that it is more stringent and/or more specific than the requirements of the recently revised NERC Standard PRC -005-2.</p> <p>Phase 2 reformatting of Directory No. 3 is pending TFSP resources (Directory No. 4 and Directory No. 7).</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
	<b>Status/ Comments:</b>	<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 Task Force on System Protection (TFSP) has addressed a process issue related to criteria compliance and the structure of Directory No. 4.</p> <p>As an alternative to the detailed NERC style requirements in Phase 2 of the Directory project, the TFSP has proposed compliance requirements which will improve the process that entities follow to obtain NPCC approval of new or modified protection systems while encouraging the necessary innovation and creativity in protection system designs.</p> <p>The NPCC Compliance Committee (CC) has reviewed and approved the inclusion of these compliance requirements in the draft of Directory No. 4 which is presently under review by the TFSP.</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 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.

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 TFCP	December 27, 2007
	<b>Status/ Comments:</b>	<p>Directory No. 7 was approved by the NPCC Full Members on December 27, 2007. The Task Force on System Protection (TFSP) has completed a comprehensive review of Directory No. 7, including the process to retire or modify an existing SPS, in order to insure that the criteria requirements within the document are consistent with the criteria in NPCC Directory No. 4 BPS Protection Criteria.</p> <p>Additionally, compliance requirements similar to those described above for Directory No.4 have been inserted in Directory No.7. The TFSP expectation is that these compliance requirements will clarify compliance expectations and maintain the existing structure of protection criteria and objectives while encouraging innovation and creativity in protection designs. The revisions to Directory No. 7 resulting from the TFSP review were approved by the NPCC Full Members on July 9, 2013.</p>		
<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 <sup>1</sup>	October 22, 2010
	<b>Status/ Comments:</b>	<p>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.</p>		

<sup>1</sup> 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 <sup>1</sup> TFCO/TFCP <sup>1</sup>	December 29, 2011
	<b>Status/ Comments:</b>	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 <sup>1</sup> TFCO/TFCP <sup>1</sup> TFCO/TFCP <sup>1</sup>	December 29, 2011
	<b>Status/ Comments:</b>	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
	<b>Status/ Comments:</b>	<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) has revised the criteria within Directory No. 12 in order to allow entities to implement the ongoing UFLS program modifications in a manner consistent with the design recommendations incorporated within the FERC approved NPCC Regional Standard PRC -006-NPCC-1.</p> <p>Directory No. 12 will continue to govern the UFLS program modifications until such time that PRC-006-NPCC-1 has been fully implemented after which NPCC will retire Directory No. 12.</p> <p>The revisions to Directory No. 12 were approved by the NPCC Full Members on July 9, 2013.</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.	<b>Latest Version: October 26, 2011</b>
<b>Status/ Comments:</b>		<p>The Regional Standards Committee (RSC) approved the Directory Development and Revision Manual on October 26, 2011.</p> <p>The RSC has proposed revising the Manual to include changes to the process for obtaining a Criteria Interpretation. The revisions have been posted to the Open Process for two posting periods and the RSC has addressed all comments and will review the Manual revisions for approval at its December 2013 meeting.</p>	

### 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.	<b>Latest Version: October 26, 2011</b>  <b>Frequency of Reviews: N/A</b>  <b>Next Review Date: N/A</b>



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Regional Standards

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Current Version</b>	
<b>PRC-002-NPCC-01</b>	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.	<b>Latest Version:</b>	<b>New</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>October, 2014</b>

**Status/ Comments:**

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. Two Requests for Clarification have been resolved by TFSP, the resolution of one additional Request for Interpretation is pending. 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.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Current Version</b>	
<b>PRC-006-NPCC-01</b>	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.	<b>Latest Version:</b>	<b>New</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>N/A</b>

**Status/ Comments:**

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.



# 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: <b>New</b>  Frequency of Reviews: <b>3 years</b> 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: <b>Sept. 19, 2007</b>  Frequency of Reviews: <b>3 years</b> Next Review Date: <b>Nov. 8, 2011</b>

**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 Standards Process Manual*". The document was reposted for comments September 5, 2013 through October 20, 2013. The comments received will be reviewed and the 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> <p><b>Status/ Comments:</b> The Compliance Committee approved the 2014 CCEP Implementation Plan and will present it to the RCC for approval at its December 3, 2013 meeting</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	The process and requirements are defined, in these documents, for compliance monitoring, assessment and enforcement of NPCC reliability criteria.
	<b>Status/ Comments:</b>	The 2014 CCEP Implementation Plan, will be presented at the December 3, 2013 RCC meeting for approval. The 2014 CCEP will include, for the first time, the requirement for self-certification, by the applicable Member, to the Resource Adequacy Criteria contained in Directory No. 1.





## 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.
	<b>Status/ Comments:</b>	The CO-2 Working Group met on September 12-13 to develop the Fall 2013 System Operator agenda, determine the Table Top Exercise, identify the desired presentation associated with the Maritimes host area and to discuss the latest status of each RC/BA on all of the PER-005 requirements. Most RC/BAs believe they satisfy all requirements. Some still need to confirm they fully meet the requirement on simulation technology training. That requirement has later date requirements for some areas.



## 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-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 September 5-6, 2013. The next meeting is on December 12-13 with a preliminary conference call during the first week in December. The CO-1 members are actively addressing the following topics: 1) Simultaneous Activation of Reserve (SAR) procedure simplification , 2) analysis of past SAR events, 3) 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, 4) ACE Diversity Interchange, and 5) Proposed Balancing Standards BAL-001-2, BAL-002-2, BAL-012-1 and BAL-013-1.



## 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	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.”
	<b>Status/ Comments:</b>	<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>The group has entered the final stages of its review and expects to complete its work by the end of December, 2013.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
CO-8	System Operations Managers Working Group	<p>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.</p> <p><b>Status/ Comments:</b></p> <p>The CO-8 Working Group met on May 1 and 2, 2013. Topics addressed during that meeting included an update and redraft of the NPCC Regional Reliability Plan, the review and reissue of NPCC Document C-01, “NPCC Emergency Preparedness Conference Call Procedures” and the review and redraft of the “Scope” and “Terms of Reference” of the System Operations Managers Working Group (CO-08). . The CO-08 also reviewed the performance of the Reliability Coordinators in the implementation of the NPCC program for Simultaneous Activation of Reserve.</p> <p>On the second day of the meeting of May 1 and 2, 2013, the representatives of the Working Group CO-08 met with their counterparts from the MISO 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 semiannually with the MISO and PJM, in advance of the summer and winter load periods.</p>



## 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-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 March 13 and 14, 2013. Topics addressed during that meeting included the planning for the wide area interregional restoration exercise to be conducted on October 23, 2013, the finalization of a redraft of NPCC Regional Reliability Reference Directory 8, “System Restoration,” in the Phase 2 Directory format and the continuing work on expanding the former Appendix to NPCC Regional Reliability Reference Directory 8, “System Restoration,” to an NPCC procedural document addressing detailed Balancing Authority to Balancing Authority restoration within NPCC and between NPCC and its neighboring entities. The CO-11 also reviewed the restoration plan of the ISO New England, Inc.

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
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 2013 / 2014 Winter NPCC Reliability Assessment. It was approved by the TFCO on November 15 and is up for approval at the December 3, 2103 RCC meeting. A summary presentation of results will be provided during the RCC meeting.



# 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.
	<b>Status/ Comments:</b>	The CP-8 Working Group is preparing the 2013 NPCC Long Range Adequacy Overview (LRAO), consistent with the data and narratives for the NERC 2013 Long Term Reliability Assessment. The scope and schedule for the 2014 LRAO was approved by the RCC at their September 11, 2013.
<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CP- 2013S	Summer 2013 Multi-Area Probabilistic Reliability Assessment	Assess NPCC Area reliability for the year 2013 by estimating the projected use of Area Operating Procedures designed to mitigate resource shortages for the summer (May through September) period.
	<b>Status/ Comments:</b>	The NPCC 2013 Summer Probabilistic Reliability Assessment was issued on May 14 <sup>th</sup> as Appendix VIII of the 2013 Summer NPCC Reliability Assessment.



## 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.
	<b>Status/ Comments:</b>	The NPCC 2013-14 Winter Multi-Area Probabilistic Reliability Assessment was approved by the RCC at their June 5, 2013 RCC meeting, for later release in CO-12 Working Group's 2013-2014 Winter Reliability Assessment

<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.
	<b>Status/ Comments:</b>	Work on the "2013 NPCC Long Range Adequacy Overview" is currently 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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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>
	<b>Status/ Comments:</b>	<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 has 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>The group has entered the final stages of its review and expects to complete its work by the end of December, 2013.</p>





# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Assessment and Performance Analysis Program

### TASK FORCE ON SYSTEM STUDIES

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
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.
	<b>Status/ Comments:</b>	The SP-7 Working Group has completed review of Second Quarter 2013 misoperation reports and outstanding reports from prior Quarters. The Second Quarter Report and updates to prior Quarter Reports were submitted to NERC on October 15, 2013, and a status report will be given at an upcoming RCC meeting. The SP-7 Working Group is currently reviewing Third Quarter 2013 reports and outstanding reports from prior Quarters. SP-7 has begun reviewing proposed NERC guidelines and reporting forms for reporting Special Protection System (SPS) operations and misoperations. The Working Group is also discussing with its members and their respective organization 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.

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
SS-37	Base Case Development Working Group	On an annual basis, develop a library of solved load flow cases and associated dynamic data.
	<b>Status/ Comment:</b>	The SS-37 Working Group has completed development of the 2013 Library of Cases (Load Flow/Steady State and Dynamics/Stability cases) per the SS-37 Work Plan Schedule. The Working Group sent in updates to the latest trial of the MMWG Load Flow case and is standing by to receive and send updates for development of the MMWG Dynamics case.



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM STUDIES

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	The SS-38 Working Group is making good progress on the 2013 UFLS Adequacy Assessment and will provide a status report at the December 3, 2013 RCC meeting. As part of the 2013 NPCC corporate goal, SS-38 completed the governor response validation procedure. SS-38 completed a plan to have the Load Modeling Working Group (LMWG) address the recommendations in the RCC approved Load Modeling White Paper. The scope of the Load Modeling Working Group was approved at the June 5, 2013 RCC Meeting. SS-38 has submitted for RCC approval the proposed list of LMWG members and recommendation for the working group's chairman. The first meeting of the LMWG was held in October 2013 to kick start the work.



# 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> <p><b>Status/ Comments:</b></p> <p>The ERAG Management Committee (MC) met on September 26-27, 2013 in Tampa, Florida and conducted an extended conference call on November 12. The ERAG MC is expecting to have revised governor-turbine models included in many of the 2013 series MMWG base cases that more closely reflect actual system frequency response.</p> <p>The NERC MOD B standard developments are being followed very closely. The MOD B project consists of replacing the existing MOD-010 through MOD-015 standards with just two new standards. New standard MOD-032-1 provides requirements for data submittal for base case development and standard MOD-033-1 provides model validation requirements. The existing MOD-010 through MOD-015 standards include requirements, which mandate reporting to the Regional Reliability Organizations, which will be replaced by reporting to the Planning Coordinators instead. The change is in the new MOD B standards, which were out for second ballot and comments period ending November 20. NERC is strongly urging completion of the standards by the end of 2013.</p> <p>The 2018 Summer Assessment and report have been completed.</p>



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Assessment and Performance Analysis Program

### RFC - NPCC Working Group

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	The ERAG Steering Committee met on August 7, 2013, to review and approve the 2018 Summer Transmission System Assessment Scope and Procedure document and Work Plan. The Assessment and Final Report is scheduled to be completed and submitted to the ERAG Management Committee in November 2013.



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	<p>The NERC 2013-2014 Winter Assessment work has been completed and is going through the NERC approval process. The RAS and PC finalized the data and narratives for both the 2013 Long Term Reliability Assessment (LTRA) and the 2013-2014 Winter Assessment; both were approved by the NERC Board of Trustees on November 21, 2013..</p> <p>The 2013 LTRA and 2013-2014 Winter Assessment publication date is expected in December, 2013.</p>

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	<p>The development of the NERC Reliability Assessment Data System (RADS), has been suspended until later in 2014. The RADWG met November 19, 2013 via WebEx to review proposed DOE EIA-411 and 2014 NERC Reliability Assessment Subcommittee LTRA data requirements. The next meeting of the RADWG is scheduled for June 17-18, 2014 at the FRCC office in Tampa, FL.</p>



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Assessment and Performance Analysis Program

### NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>RIS ProbA</b>	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.
	<b>Status/ Comments:</b>	<p>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.</p> <p>In 2011, the RAS piloted this effort to produce enhanced resource adequacy metrics for the <i>2010 Long-Term Reliability Assessment</i>. 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 <i>2012 Long-Term Reliability Assessment</i>—for the years 2014 and 2016. NPCC satisfied these requirements through the 2012 NPCC Long Range Adequacy Overview, approved by the RCC at their February 27, 2013 meeting.</p>

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>TADS</b>	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.
	<b>Status/ Comments:</b>	NPCC staff participated in training sessions held at NERC Offices for Regional Coordinators for NERC TADS and the OATI-developed webTADS program. NPCC Staff will conduct a year-end review of the 2013 TADS data entry by Transmission Owners was completed by the NPCC Regional Entity Coordinator in December 2013.



## 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>
<b>DADS</b>	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.
	<b>Status/ Comments:</b>	<p>NPCC staff participated in training sessions held at NERC Offices for Regional Coordinators for NERC DADS and the OATI-developed webDADS program. NPCC Staff will conduct a year-end review of the 2013 DADS data entry by Transmission Owners was completed by the NPCC Regional Entity Coordinator in December 2013.</p> <p>NPCC Members have been active participants on the DADS Working Group. The DADSWG is preparing an update to the DADS Data Reporting Instructions document distributed by NERC. Additionally, the WG continues to discuss development of Demand Response-specific metrics that can be populated out of the data collected via DADS. The Working Group has discussed changes made to the webDADS web portal and the display and sorting of Demand Response data on the NERC website Dashboard.</p> <p>The Working Group revised the DADS Glossary document that is made available for user reference; the document has been finalized in and is being prepared by NERC Staff for release.</p>
<u>Item</u>	<u>Name</u>	<u>Assignment</u>
<b>SEDS</b>	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.
	<b>Status/ Comments:</b>	As of January 2013, there are two transmission owners who have entered equipment into the database. NERC is looking to expand the number of transmission owner that are listing available equipment. NPCC Members will be active participants on the SED Working Group. The SEDWG will hold a meeting in December 2013.



## 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 – webE-GADS.
	<b>Status/ Comments:</b>	<p>NPCC staff participated in training sessions held at NERC Offices for Regional Coordinators for NERC GADS and the OATI-developed webEGADS program. NPCC Staff will conduct a year-end review of the 2013 DADS data entry by Transmission Owners was completed by the NPCC Regional Entity Coordinator in December 2013.</p> <p>NPCC staff participates in the GADS Working Group 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 has developed a White Paper on Wind Data in GADS that will be shared with NERC PAS.</p> <p>NERC GADS consultant, Generation Consulting Services (led by former NERC GADS manager Mike Curley), held a workshop in Charlotte, NC, in October 2013. The Workshop covered GADS Data Reporting for generator owner entity staff and solicited feedback from users on improving the web-DADS Data Reporting Instructions as well as the web-DADS user interface and user experience.</p>





# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Assessment and Performance Analysis Program

### OTHER

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
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.
	<b>Status/ Comments:</b>	The meeting (via WebEx) is scheduled for Monday, May 13, 2103 was cancelled and will be rescheduled. The purpose of this WebEx was to provide an update on the Northeastern ISO/RTO Planning Protocol and related Order 1000 compliance issues.



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Situation Awareness and Infrastructure Security Program TASK FORCE ON COORDINATION OF OPERATION

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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>
	<b>Status/ Comments:</b>	<p>The CO-10 Working Group is completing the latest update to the Facilitated Transaction Checkout tool to incorporate intra-hour scheduling.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Situation Awareness and Infrastructure Security Program TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY

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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	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

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	TFIST to review a draft scope at its November 2013 meeting

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
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.
	<b>Status/ Comments:</b>	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.
	<b>Status/ Comments:</b>	The 2013 NPCC General Meeting is scheduled to be held the afternoon of December 4, 2013 in Boston, MA.

<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.
	<b>Status/ Comments:</b>	The next meeting of NPCC Governmental/Regulatory Affairs Advisory Group will be held the afternoon of December 3, 2013 in conjunction with the NPCC 2013 General Meeting in Boston, MA.

<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.
	<b>Status/ Comments:</b>	NPCC continues to participate in the monthly communications coordination calls with NERC and the Regions. The 2013 Media Event for the release of the 2013 NPCC Summer Reliability Assessment was held May 14, 2013. A fact sheet on “ <i>Summary of Improvements to Grid Reliability from 2003 Blackout</i> ” which was posted on the NPCC website that summarized the steps taken to address the root causes of the blackout and further strengthen grid reliability and resiliency.