



RCC Meeting
December 2, 2014
Agenda Item 7.7

Reliability Assessment Program
(NRAP)
HIGHLIGHT REPORT
Prepared for the
Reliability Coordinating Committee
December 2, 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, NERC, and upon all necessary governmental approvals, will be replacing the NPCC Regional Reliability Standards Development Procedure and the Regional Standards 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). 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 continues to support NPCC staff in the Paragraph 81 and Informal Standard Development efforts which are now referred to as “Consensus Building”. The RSC 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:	<p>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 and NERC BOT in August, and has been subsequently filed with FERC and the Provincial Authorities. The RSC continues to participate in the NERC Reliability Standards Manual revisions and the Results Based Standards Initiative through the Standards Committee Process Subcommittee, and also solicits 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, and 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.</p>



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Regional Standards Committee

Item	Name	Assignment
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 regional standards provides a cost effective solution to achieving a standard's reliability objective and considers the economics of the implementation. The RSC 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/C07 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/C07 Working Group has 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 has been posted to the Open Process for two 45 day comment periods with the most recent posting concluding on July 7, 2014.

CO7/CP11 has completed its review of comments received in the 2nd Open Process posting and has returned the draft of Directory#1 to the TFCP and TFCO for Task Force consideration.



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>
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 has recommended that the criteria in Directory No. 3 can be retired. The TFSP recommendation was posted to NPCC Open Process and all comments on the TFSP proposal have been addressed.</p> <p>The RCC has approved the TFSP recommendation and on October 15, 2014 the NPCC Full Members voted to approve the retirement of Directory No. 3 effective April 1st, 2015 upon the enforcement date of PRC -005-2 <i>Protection System Maintenance</i>.</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: 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



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Directory No. 5 Reserve which addressed these issues.

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		TFSP	July 3, 2013
		Attachment 1 – Definition of Terms	TFSP	
		Appendix A – Guidance for Consideration in SPS Design Criteria	TFSP	
		Appendix B – Procedure for Review of Special Protection Systems	TFCP	
	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		TFCO	October 22, 2010
		Appendix A – Definition of Terms	TFCO/TFSS ¹	
	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.		

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.



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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:	<p>Directory No. 9 was approved by the NPCC Full Membership on December 22, 2008.</p> <p>The Full Member Committee approved the Phase 2 reformatting of Directory No. 9 in December 2011. NPCC has completed a preliminary technical comparison between the criteria in Directory No. 9 and Directory No. 10 and the NERC requirements in MOD-025-2. TFCO plans to perform a final review and determine if the criteria in Directory No. 9 and Directory No. 10 can be retired.</p>		

<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:	<p>Directory No. 10 was approved by the NPCC Full Membership on December 22, 2008.</p> <p>The Full Member Committee approved the Phase 2 reformatting of Directory No. 10 in December 2011. NPCC has completed a preliminary technical comparison between the criteria in Directory No. 9 and Directory No. 10 and the NERC requirements in MOD-025-2. TFCO plans to perform a final review and determine if the criteria in Directory No. 9 and Directory No. 10 can be retired.</p>		



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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

Item	Name	Assignment	Current Version
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:		<p>The Directory Development and Revision Manual was revised in 2013 to incorporate changes in the approval process for a Criteria Interpretation (Clarification).</p> <p>The RSC approved an additional posting to the NPCC Open Process to consider revisions to the Manual that incorporate cost considerations for new or revised NPCC criteria.</p> <p>The RSC has responded to all comments and on October 3, 2014 the RSC approved the revisions to the <i>Directory Development and Revision Manual</i>.</p>	

NPCC Glossary of Terms

Item	Name	Assignment	Current Version
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. The October, 2014 review date will be postponed pending outcome of the continent wide PRC-002-2.</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: February 2016
Status/ Comments:		<p>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 NERC BOT at its August 14, 2014 meeting. It has been forwarded to FERC and the Provincial Authorities for their approvals.



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: On September, 12, 2014, the CC endorsed the NPCC white paper that examined the repurposing of the self-certification discovery method. NPCC used the basis of the report as input into the 2014 ERO-wide evaluation of the self-certification discovery method.</p> <p>On September 29, 2014, the CC endorsed the NPCC Regional CMEP Implementation Plan.</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: At the March 2014 CC meeting, a revised version of the CCEP-1 Process Document was approved. On June 12, the CC approved the <i>Preliminary Assessment Report for the 2013 CCEP Implementation Plan</i>. On June 19, 2014, the CCEPWG met to begin developing the 2015 CCEP Implementation Plan and associated Certification Forms. On September 10, 2014 the RCC approved the <i>Preliminary Assessment Report for the 2013 CCEP Implementation Plan</i>. On September 12, 2014 the CC approved the 2015 CCEP Implementation Plan, which will be presented to the RCC on December 2, 2014 for approval.</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:	NPCC conducted two NPCC System Operator Seminars in 2014. Each was a 1½ day session, held on May 7-8, 2014, and November 5-6, 2014, respectively. System Operators received NERC Continuing Education Hours for participation in the table top exercises, which included operating scenario exercises. Also discussed were human performance factors, the reliability impact of alternative energy resources, and the NPCC frequency response initiative.



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 August 28-29, 2014. NPCC staff and an NPCC consultant are working with the NPCC Balancing Authorities (BAs) to have each complete a NERC governor-plant control survey. In addition this effort provides assistance in working with generators to improve frequency response. The CO-1 members are also actively addressing the following topics: 1) analysis of recent SAR events, 2) Balancing Standards BAL-001-2, BAL-002-2, BAL-003-1 and the BAL-004-006 NERC Review, 3) Periodic monitoring of operating reserve, control performance and frequency.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CO-7	Operational Planning Working Group	<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 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 has 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 has been posted to the Open Process for two 45 day comment periods with the most recent posting concluding on July 7, 2014.</p> <p>Following the collaborative effort by the Working Groups CP-11 and CO-7, a revised draft of Directory No. 1 was developed and approved by the Task Forces on Coordination of Planning and Operation. In accordance with Task Force instructions CO7/CP11 has identified an area of disagreement during its review and has provided the Task Forces with background on the issue.</p> <p>At issue is how the existing language in Directory No. 1 Section 5.4.1 (Stability Assessment) and Section 5.5.1 (Transmission Operating Criteria) should be interpreted: TFCO and TFCP will consider the CO7/CP11 report and decide on next steps at their November 2014 meetings.</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-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

<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 conducted reviews of the Maritimes, New England, New York, Ontario, and Québec TransÉnergie Restoration Plans, presented at each of the 2014 TFCO meetings. A summary of the general elements of the restoration plans was provided, together with an identification of the Key Facilities which make up the Basic Minimum Power System as defined by NPCC. The review also included descriptions of the elements of coordination of the restoration plans with neighboring Reliability Coordinators (desired points of interconnection and control parameters).

<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 2014-2015 Winter NPCC Reliability Assessment; the Task Force on Coordination of Operations has reviewed the report and has recommended RCC approval at their December 2, 2014 meeting.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

Item	Name	Assignment
CP- 8	Working Group on Review of Resource and Transmission Adequacy	Review the overall reliability of the NPCC Areas and perform pre-seasonal resource adequacy assessments.
	Status/ Comments:	<p>The Scope and Schedule for the 2015 NPCC Long Range Adequacy Overview (LRAO) and the 2015 NPCC Tie Benefits Study was approved at the August 14, 2014 TFCP and was approved the September 10, 2014 RCC meeting..</p> <p>Work has begun regarding the assumptions for the Summer 2015 Multi-Area Probabilistic Reliability Assessment,</p> <p>Following approval by RCC at their December 2, 2014 meeting of the 2014 NPCC Long Range Adequacy Overview, the Revised Draft of the NPCC ProbA report will be finalized by the CP-8 Working Group at their December 17, 2014 meeting.</p>

Item	Name	Assignment
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, 2014 NPCC Media Event.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

Item	Name	Assignment
CP- 2014W	Winter 2014-2015 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 2014-15 Winter Multi-Area Probabilistic Reliability Assessment was approved by the RCC at their June 4, 2014 RCC meeting, to be released as part of the 2014-2015 NPCC Winter Reliability Assessment in December 2014.

Item	Name	Assignment
LRAO	NPCC 2014 Long Range Adequacy Overview	On a consistent basis, evaluate the near-term seasonal and long-range (five year) adequacy of NPCC Areas', reflecting neighboring regional plans proposed to meet their respective resource adequacy criteria through multi-area probabilistic assessments.
	Status/ Comments:	The Task Force on Coordination of Planned reviewed the 2014 NPCC Long Range Adequacy Overview at its November 20, 2014 meeting and recommends the RCC consider approval at their December 2, 2014 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 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>Following the collaborative effort by the Working Groups CP-11 and CO-7, a revised draft of Directory No. 1 was developed and approved by the Task Forces on Coordination of Planning and Operation. In accordance with Task Force instructions CO7/CP11 has identified an area of disagreement during its review and has provided the Task Forces with background on the issue.</p> <p>At issue is how the existing language in Directory No. 1 Section 5.4.1 (Stability Assessment) and Section 5.5.1 (Transmission Operating Criteria) should be interpreted: TFCO and TFCP will consider the CO7/CP11 report and decide on next steps at their November 2014 meetings.</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>
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 on schedule to complete the 2013 UFLS Adequacy Assessment and submit the report for review and approval at the December 2, 2014 RCC meeting. As part of Task Force on System Studies' work plan in 2015, SS-38 Working Group is expected to conduct the NPCC Overall Transmission Assessment (OTA) as projected for 2019. The Terms of Reference for this OTA will be developed and reviewed with TFSS before it will be submitted for approval at the February 2015 RCC Meeting.

<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.
	Status/ Comments:	Completed: The SS-37 Working Group met in June 2014 to begin the development of the thirteen power flow base cases for the 2014 Library of Cases. The submission of all thirteen NPCC power flow cases was completed in July 2014. The Working Group met in September 2014 to begin development of the eight Dynamic Models for the 2014 Library of Cases. The submission of all eight Dynamic Models was completed in October 2014.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON SYSTEM PROTECTION

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 Second Quarter 2014 misoperation reports and outstanding reports from prior Quarters. The Second Quarter Report and updates to prior Quarter Reports were submitted to NERC on October 10, 2014, and a status report will be given at an upcoming RCC meeting. The SP-7 Working Group is currently reviewing Third 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. The Working Group also worked on several lessons and Learned from all the prior Misoperations.</p>



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 NERC MOD-032-1, “Data for Power System Modeling and Analysis” and the MOD-033-1, “Steady-State and Dynamic System Model Validation” Standards were approved by FERC in a May 1, 2014 Order. Both standards shift much of the modeling compliance responsibilities from the Regional Entities to the Planning Coordinators. In addition, The Planning Coordinators must make available models of their system to the ERO or its Designee for interconnection wide base case development / compilation, as indicated in MOD-032-1 Standard Requirement R4.</p> <p>Since 2007 ERAG has had the role of steady state and dynamics base case developer through the ERAG Multi-Regional Modeling Working Group (MMWG). Based on the MOD-032-1 requirement NERC will need to determine a base case development Designee and on November 18-19, 2014 NERC held a Modeling Summit meeting to indicate the base case development Designee requirements, including the technical details and to seek industry feedback. Both ERAG and the Eastern Interconnection Planning Collaborative have sent letters to NERC indicating their willingness to serve in this role. The ERAG MMWG has already taken steps to include Planning Coordinators by adding some large Planning Coordinators to the membership including PJM and MISO.</p> <p>Most ERAG Management Committee members attended the Modeling Summit and NERC received much industry feedback. NERC indicated activities and a schedule to determine the Designee.</p>



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

RFC - NPCC Working Group

Item	Name	Assignment
RNWG	RFC-NPCC Working Group	<p>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.</p> <p>Status/ Comments:</p> <p>Completed: NPCC Staff was assigned to be the Report Writer for the RNWG 2014 ERAG Summer and 2014/2015 Winter Transmission System Assessment Studies. The ERAG Study Working Groups completed the 2014 Summer Transmission System Assessment study in May, and the 2014 Summer Assessment report was approved and released by the ERAG Management Committee in May 2014.</p> <p>The RNWG began preparations for the 2014/2015 Winter Assessment Study in June 2014 and released the final version of the ERAG 2014/2015 Winter Assessment case in August. The Winter Assessment Study final report was approved and released by the ERAG Management Committee in November 2014.</p>



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 2014 Long-Term Reliability Assessment was approved by the NERC Board of Trustees in October 2014, and released November 12, 2014.</p> <p>The NERC 2014-15 Winter Reliability Assessment was approved by the NERC Board of Trustees in November 2014, and released November 21, 2014.</p> <p>Work has begun to finalize the data request for the 2015 LTRA.</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 NERC Reliability Assessment Data Working Group met November 5-6, 2014 to further discuss proposed changes and improvement in the overall NERC assessment process, the on-going development of the RADS, and DOE data requirements.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

Item	Name	Assignment
ProbA	Probabilistic Assessment	Trial assessment to determine if probabilistic reliability metrics based on the NERC Long Term Reliability Assessment can be used to supplement NERC regional reliability outlooks.
	Status/ Comments:	<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 for 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. The NERC RAS peer reviewed the draft 2014 ProbA reports at their October 2014 meeting.</p> <p>A summary of the submitted draft 2014 Probabilistic Assessments will be given at the December 9-10, 2014 NERC PC meeting. The NERC PC is scheduled to approve the 2014 Probabilistic Assessments at their March 2015 meeting.</p>

Item	Name	Assignment
TADS	Transmission Availability Data System	Serve as the Regional Entity Coordinator (REC) in support of the NERC TADS outage data collection and the analysis of the NPCC Transmission Owners (TO) outage information. As the REC, oversee the use of and the data entry of automatic outage information by the TO in the NERC Internet based data management tool - webTADS.
	Status/ Comments:	The NERC TADS Working Group (TADSWG) met August 19-21, 2014, at NERC Offices in Atlanta, Georgia. The next face to face meeting will be on January 21-23, 2015 at Tampa Florida (FRCC). NERC also conducted a TADS Regional Entity Workshop on November 5, 2014.



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:	The NERC Demand Response Availability Data System Working Group (DADSWG) held a face to face meeting on August 5-6th, 2014 at NERC's office Atlanta GA. The next face to face meeting will be on February 2015 at Salt Lake City (WECC).. NERC also conducted a DADS Regional Entity Workshop on November 6, 2014.

<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:	The NERC Spare Equipment Database Working Group (SEDSWG) held a conference call on August 6, 2014, and a face-to-face meeting in NERC's office at Atlanta on December 11, 2013. NERC staff is continuing their effort on increasing participation for Spare Equipment Database. Since the conference call on August 4, 2014 there has been no additional activities for the SEDWG.



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	<p>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.</p> <p>Status/ Comments: The NERC GADS Working Group (GADSWG) held a conference call on November 13, 2014. GADSWG also held a face to face meeting on September 30 - October 1 2014 at NERC’s Office Atlanta Georgia. The next face to face meeting will be announced in January 2015. NERC also conducted a GADS Regional Entity Workshop on November 5, 2014.</p> <p>During the conference call and face to face meeting, the GADSWG discussed the Polar Vortex review. The key factors during the event included fuel deliverability issues, natural gas pipeline outages, gas service interruptions, frozen electricity and gas equipment and other extreme cold weather operating challenges. During the event, grid operators employed techniques, such as voltage reduction and demand-side management to ensure the bulk electric system reliability was maintained.</p> <p>On September 26, 2014 FERC requested data for the January 6-8, 2014 polar vortex and January 17-29, 2014 winter storm events. NPCC is in the process of collecting the data from NPCC’s GADS members and respond to FERC’s questions.</p>
RADS	Reliability Assessment Data System	<p>The purpose of the ERO Reliability Assessment Data System (RADS) is to facilitate the collection of data used for the development of NERC’s reliability assessments. RADS-Phase 2 was initiated by the ERO-EMG to identify and document the differences and similarities of existing data collection processes among the Regions/Assessment Areas.</p> <p>Status/ Comments: The NERC PMO issues weekly status reports describing the progress of the development,; an identified risk is the lack of an approved Project Charter, due to the inability of the NERC Regions to agree upon a common process. On-going executive level discussions are being held to address the identified issues.</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 become completely engaged in the review of tool failure lessons learned generated from the EAP program and have provided many reviews which are now posted on the NPCC Event Analysis lessons learned page. Also, the CO-10 WG has prepared a presentation for TFCO on the survey results from RCs ,BAs, TOs and TOPs, regarding the findings and recommendations of minimum acceptable capabilities and best practices for real-time tools necessary to ensure reliable electric system operation and reliability coordination to be presented by year-end.</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	<p>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: Spring 2014</p> <p>Status/ Comments: An update to CIP version 5 was presented at the Spring 2014 NPCC Standards & Compliance Workshop. Another update is planned for the 2014 Fall Workshop.</p>

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
IST-3	TFIST EMS-SCADA Working Group	<p>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.</p> <p>Status/ Comments: The EMS-SCADA Working Group has been designed as an Ad-hoc Working Group by TFIST.</p>



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 November 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. The Theme is “Resilient Reliability”; topics to be presented include Physical Security, Cyber Security, and Natural Gas-Electricity Coordination.

<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. Agenda Items include status of identifying Bulk Electric System facilities and elements in the U.S. and Canada, and updates on Regional Planning activities.

<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.