



RCC Meeting
September 12, 2012
Agenda Item 6.10

Reliability Assessment Program
(NRAP)
HIGHLIGHT REPORT
Prepared for the
Reliability Coordinating Committee
September 12, 2012

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

<u>Reliability Standards</u>	1
Regional Standards Committee	1
Directories & Appendices	3
Directory Development and Revision Manual	9
NPCC Glossary of Terms	9
Regional Standards	10
Regional Standards Development Procedure	11
<u>Compliance Enforcement and Organization Registration and Certification</u>	12
Compliance Committee	12
Documents	13
<u>Training, Education, and Operator Certification</u>	14
Task Force on Coordination of Operation	14
<u>Reliability Assessment and Performance Analysis</u>	15
Blackout 2003 Follow-up	15
Task Force on Coordination of Operation	16
Task Force on Coordination of Planning	19
Task Force on System Studies	22
Eastern Interconnection Reliability Assessment Group	23
RFC-NPCC Working Group	24
NERC	25
Other	29
<u>Situation Awareness and Infrastructure Security</u>	30
Task Force on Coordination of Operation	30
Task Force on Infrastructure Security and Technology	31
<u>Administrative Services</u>	33
Member Forums	33



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 Standards Development Procedure and Regional Standards, under a sector based voting structure as described in the NPCC, Inc. Bylaws. The NPCC RSC will consider requests for new or revised standards and be available for advisement to the NPCC Board on the standards. The NPCC RSC will work in coordination with the Regional Standards Process Manager (RSPM) who will be the administrator for the NPCC Regional Reliability Standards Development Procedure (this is going to be renamed Regional Reliability Standards Process Manual in the next revision). In addition, the NPCC RSC will review, comment on and develop ballot recommendations for the NERC Reliability Standards under development. The RSC will also review and comment on NERC CANs, and RSAWs. The NPCC RSC also provides oversight for the NPCC Reliability Directories which contain the NPCC more stringent regional Criteria and supporting information. The RSC also conducts and coordinates the Cost Effectiveness Analysis Procedure or CEAP for evaluation of the cost effectiveness of NPCC's Regional Standards. RSC is also providing input through its member to the developing NERC CEAP and implementation of that process. Also the RSC is supporting NPCC staff in the Paragraph 81 effort NERC is currently conducting to retire standard requirements that are duplicative or of little or no benefit to reliability. The RSC is also participating in the development of the new NERC standards development process and Standards Input Group (SPIG) recommendations and commenting on revisions.</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, NERC Standards Committee Process Subcommittee, and the NERC Regional Standards Group. The RSC has also revised the NPCC Regional Reliability Standards Development Procedure (to be renamed Regional Reliability Standards Process Manual), which will be posted and submitted to the NPCC Board for approval. The RSC is continually participating in the NERC Reliability Standards Manual revisions and the Results Based Standards Initiative through the Standards Committee Process Subcommittee and also soliciting members for the NERC drafting teams as necessary to ensure NPCC is sufficiently represented. The RSC is actively supporting the Order 706 Cyber Security Standards development and revision process. The RSC is overseeing and managing the development of a Regional Reserve Sharing Group Standard. The Disturbance Monitoring Standard has been approved by the NPCC General Membership, the NPCC Board of Directors, NERC Board of Trustees, and FERC. Provincial Government approval is pending. The Underfrequency Load Shedding Standard has been approved by the NPCC General membership, the NPCC Board of Directors, and the NERC Board of Trustees and is currently filed with the FERC and under their review. It is pending approval of FERC, and Provincial Government authorities. The RSC has initiated Phase II of the NPCC Directory project to convert the criteria in the Directories to specific "requirements" on which compliance may be assessed.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Regional Standards Committee

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



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

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

Status/ Comments:

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

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

TFCP has requested that the TFCO and TFSS review the draft document and the TFCO is reviewing the Transmission Operating section of the document. Directory No. 1 will be posted for its initial Open Process posting upon conclusion of multi Task Force review. Open Process posting expected in early Summer, 2012. The TFCO has formed an ad hoc working group representing each RC to address operational concerns identified in the current draft.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

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

<u>Item</u>	<u>Name</u>	<u>Appendices</u>	<u>Lead TF</u>	<u>Current Version</u>
DIR-3	Maintenance Criteria for Bulk Power System Protection	Appendix A – Definition of Terms Appendix B – Guidelines and Procedures for Maintenance of Bulk Power System Protection	TFSP TFSP TFSP	July 14, 2009
Status/ Comments:		<p>Directory No. 3 was approved by the NPCC Full Membership on July 11, 2008 and NPCC Documents A-4 and B-23 were retired on the same date.</p> <p>In 2009 TFSP conducted a review of Directory No. 3 to clarify specific intent on a number of requirements. Additional language was also incorporated into Appendix B of the document to provide guidance that credit can be obtained for normal breaker operations if the equipment design permits verification and documentation of breaker tripping by each individual trip coil. The above changes to Directory No. 3 were approved by the Full Members on July 14, 2009.</p> <p>Phase 2 reformatting of Directory No. 3 is pending TFSP Workplan coordination with other TFSP Directories.</p>		



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

<u>Item</u>	<u>Name</u>	<u>Appendices</u>	<u>Lead TF</u>	<u>Current Version</u>
DIR-4	BPS Protection Criteria	Appendix A – Guideline and Procedure for Bulk Power System Protection	TFSP TFSP	December 1, 2009
	Status/ Comments:	<p>Directory No. 4 received Full Member approval on December 1, 2009. The approval of Directory No. 4 resulted in the retirement of NPCC documents A5, B5, B7, B24, and C22.</p> <p>The RCC has approved an implementation plan to achieve the recommended reduction in BPS risk pertaining to redundant protection systems and/or battery systems on BPS facilities. The TFSP expects to begin the Phase 2 review of Directory No.4 in early 2012.</p> <p>As part of the Phase 2 reformatting of Directory No. 4, the TFSP is addressing a process issue related to compliance of the criteria within Directory No. 4 and the structure of the reformatted requirements within the document; this issue also exists within Directory No. 7. The TFSP is working toward a solution that would address the issue within both Directories.</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	December 2, 2010
	Status/ Comments:	<p>The RCC will receive the draft of Directory 5 for approval at its meeting of September 12, 2012.</p>		



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

<u>Item</u>	<u>Name</u>	<u>Appendices</u>	<u>Lead TF</u>	<u>Current Version</u>
DIR-6	Regional Reserve Sharing		TFCO	Draft (New)
	Status/Comments:	Directory No. 6 was 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	December 27, 2007
		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	TFSP	
	Status/ Comments:	Directory No. 7 was approved by the NPCC Full Members on December 27, 2007. The Task Force on System Protection has initiated a review of Directory No.7, including Appendix B which details the process for SPS approval, modification, or retirement. The TFCP, TFSS, and the TFCCO are coordinating their comments on Appendix B and the overall Directory with TFSP which is the lead Task Force for Directory No. 7. TFSP will merge these revisions into an initial Phase 2 draft of the document after addressing the process issue described above in Directory No. 4. The TFSP anticipates posting the initial Phase 2 draft of Directory No. 7 incorporating the above revisions during the Summer of 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-8	Black Start System Restoration	Appendix A – Definition of Terms	TFCO TFCO/TFSS ¹	October 22, 2010
	Status/ Comments:	<p>Directory No. 8 was approved by the NPCC Full Membership on Oct. 22, 2020.</p> <p>As part of the Phase 2 Directory initiative, the CO-11 Working Group completed a review of an initial Phase 2 draft of Directory at its meeting of May 30-June 1, 2012. Revisions will be made and incorporated into the Phase 2 reformatting of Directory No. 8, to be finalized by the CO11 Working Group in the autumn of 2012.</p>		

<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 22, 2008
	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.</p>		

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



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Standards Program

Directories and Appendices

<u>Item</u>	<u>Name</u>	<u>Appendices</u>	<u>Lead TF</u>	<u>Current Version</u>
DIR-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 22, 2008
Status/ Comments:		Directory No. 10 was approved by the NPCC Full Membership on December 22, 2008. The Full Member Committee approved the Phase 2 reformatting of Directory No. 10 in December 2011.		

<u>Item</u>	<u>Name</u>	<u>Appendices</u>	<u>Lead TF</u>	<u>Current Version</u>
DIR-12	UFLS Load Shedding Program Requirements	Appendix A – Definition of Terms	TFSS TFSS	March 3, 2010
Status/ Comments:		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.		



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.	<p>Latest Version: New</p> <p>Frequency of Reviews: 3 years</p> <p>Next Review Date: N/A</p>
	Status/ Comments:	The Regional Standards Committee (RSC) approved the Directory Manual on October 26, 2011, which is posted in the Directory section of the NPCC website.	

NPCC Glossary of Terms

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



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 DME Regional Standard and its Implementation Plan were posted for ballot December 17, 2009, and approved by the NPCC Full Members on January 16, 2010. The NPCC Board approved the Standard on February 9, 2010. The Standard was submitted to NERC for review. NERC accepted the technical content of the requirements and the Implementation Plan; however issues were identified with the construction of the VSLs. The VSLs were reworked, and only the VSL portion of the Standard was re-posted for a 30 day industry review and comment period. This was followed by submission to NPCC Members for approval. The VSLs were approved by ballot Oct. 31, 2010. The Standard and its Implementation Plan were submitted to the NERC BOT at its November 4, 2010 meeting and approved. Materials were reviewed by NERC and filed with FERC on May 31, 2011. A Filing was made with the appropriate Canadian authorities for their approvals on June 8, 2011. FERC approved PRC-002-NPCC-01 on October 20, 2011.</p>	

<u>Item</u>	<u>Name</u>	<u>Assignment</u>	<u>Current Version</u>
PRC-006	Under Frequency Load shedding	This Standard will provide the measures 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:
Status/ Comments:		<p>The NPCC BOD approved PRC-006-NPCC-1 Automatic UFLS on Nov. 30, 2011. The NERC BOT approved the Standard on Feb. 9, 2012 and the Standard was filed with FERC on May 4, 2012.</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 will work on the Reserve Sharing Groups Standard’s development.

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. Comments received have been reviewed and necessary revisions incorporated. The title of the document is going to be revised to “*Regional Reliability Standards Process Manual*”. The revised document will be presented to the NPCC Board of Directors for approval.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Compliance Enforcement and Organization Registration and Certification Program

Compliance Committee

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CC	NPCC Compliance Committee	<p>The NPCC Compliance Committee (CC) is charged with providing independent policy input for the NPCC Compliance Monitoring and Enforcement Program (CMEP). The NPCC CMEP covers compliance assessment and enforcement of NERC Reliability Standards, Regional Reliability Standards and NPCC Reliability Criteria (NPCC Directories). With regard to NERC Reliability Standards and Regional Reliability Standards, the CC provides an oversight role to the NPCC Compliance Staff's implementation of the CMEP. In this oversight role the CC will endorse the compliance procedures (CP) used by the NPCC Compliance Staff in the conduct of the CMEP. The CC is responsible for final approval of compliance assessments related to NPCC Reliability Criteria, which includes non-monetary sanction recommendations.</p>
	Status/ Comments:	<p>The NPCC Staff developed a draft process document and template for the 2012 NPCC Entity Impact Evaluation (EIE) Initiative. These documents were endorsed by the CC on July 17, 2012. NPCC Staff then solicited all registered entities within NPCC to acquire volunteers for the program. Those that volunteered were notified of acceptance in mid-August. The EIE templates are expected to be returned to NPCC in mid-September at which point the analysis and evaluation of the responses will begin. Feedback teleconference calls will follow with each volunteering entity to discuss NPCC Staff's assessment.</p> <p>This initiative will expand on the 2011 NPCC Culture of Compliance Initiative and attempt to evaluate a registered entities' impact on the reliability of the Bulk Electric System based on the components and criteria defined in the above mentioned template. In 2012, NPCC will conduct a trial test of the EIE that will include between 20-30 registered entities.</p>



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Compliance Enforcement and Organization Registration and Certification Program

NPCC Compliance Committee

Documents

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CCEP - 1, 2	Criteria Compliance and Enforcement Program	The process and requirements are defined , in these documents, for compliance monitoring, assessment and enforcement of NPCC reliability criteria.
	Status/ Comments:	<p>The CCEP-1 (Compliance Criteria Enforcement Program Process Document) and CCEP-2 (2011 Implementation Plan) were approved by the NPCC Membership on April 5, 2011. In addition and effective that date Documents A-8, <i>NPCC Reliability Compliance and Enforcement Program</i>; B-22, <i>Guidelines for Implementation of the NPCC Compliance Program</i> and C-32, <i>Review process for NPCC Reliability Compliance Enforcement Program</i> were all retired.</p> <p>Compliance Criteria Certification for 2011 was completed for NPCC Directory Nos. 1, 8, 9, 10, and 12, in accordance with the CCEP-1 document. The Compliance Committee approved the 2011 certification forms for each NPCC Directory.</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	<p>This Working Group establishes a program for system operator training relating to NPCC Inc. inter-Area matters, Working Group criteria, terminology, policies and operating instructions. It prepares and presents material at system operator training sessions, exchanges information on internal system operator training methods. The CO-2 Working Group also evaluates and proposes new techniques and training aids as they become available.</p>
	Status/ Comments:	<p>The last CO-2 Working Group meeting was held on June 21-22, 2012. The meeting was dedicated to the CO-2 members continuing work to refine their respective Reliability Coordinator and Balancing Authority training programs to meet each of the NERC standard PER-005 requirements. This includes members sharing information on the many details CO-2 is addressing to prepare for compliance application of the PER-005-1 requirements.</p> <p>Lauri Jones from PG & E, who was a member of the PER-005-1 Drafting Team and is presently a member of the NERC Personnel Subcommittee called in to the meeting to answer many CO-2 member questions on the standard development and on the drafting team and Personnel Subcommittee interpretations and expectations for the standard requirements. Also, NPCC compliance staff provided information to the CO-2 members on how compliance auditors would apply the requirements using the PER-005-1 RSAW and CAN-0012.</p>



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program BLACKOUT 2003 FOLLOW-UP

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



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF OPERATION

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
CO-1	Control Performance	<p>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.</p> <p>Status/ Comments: The CO-1 Working Group is meeting on September 6-7, 2012. Topics to be addressed during that meeting include: 1) changes in the implementation of Simultaneous Activation of Reserve due to the anticipated approval of the revised Directory No. 5 by the RCC and the NPCC membership, 2) use of the loss of radial sources contingencies with Simultaneous Activation of Reserve in NPCC , 3) analysis of past SAR events, 4) providing support and research regarding frequency response issues including NPCC governor responses and frequency bias setting issues, 5) changes review of the NERC ACE Diversity Interchange White Paper and how it affects NPCC application, 5) re-engineering the NPCC inadvertent calculation methodology and 6) meeting the reporting requirements on SAR-ATR reports, CPS and inadvertent energy.</p>



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

Item	Name	Assignment
CO-7	Operational Review Working Group	To assess, coordinate and evaluate regional operational issues and reliability concerns as directed by the TFCO. Periodically review the NPCC Regional Reliability Plan and the Registration and Certification of entities to achieve conformance with NPCC criteria and NERC Standards.
	Status/ Comments:	The Working Group is currently dormant.

Item	Name	Assignment
CO-8	System Operations Managers Working Group	Provide a forum for the Managers of the NPCC control centers to identify and discuss security concerns in the operation of the interconnected bulk power supply system, and specific concerns related to the integration of operation between and among the evolving ISOs. The System Operations Managers Working Group will also assist the Task Force on Coordination of Operation in their work on issues related to system security and the operation of the ISOs, and provide advice to the TFCO, as requested.
	Status/ Comments:	The CO-8 Working Group met on September 5-6, 2012. Topics addressed during that meeting included an update and redraft of NPCC Document C-15, "Procedures for Solar Magnetic Disturbances Which Affect Electric Power Systems"; and, the completion of a draft NPCC Procedure defining the NPCC practices in the implementation of ACE Diversity Interchange (ADI), ensuring consistency with the recommendations presented in the recently released NERC White Paper, "ACE Diversity Interchange White Paper February 2012."



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

Item	Name	Assignment
CO-11	Restoration Working Group	The Restoration Working Group addresses the issue of ensuring appropriate operation of key system restoration facilities and their critical components.
	Status/ Comments:	The NPCC Restoration Working Group (CO-11) is currently planning the scenarios to be simulated in the wide area interregional restoration exercise to be conducted in October of 2012.

Item	Name	Assignment
CO-12	Operations Planning Working Group	Review the overall reliability of the generation and transmission system in the NPCC Region for the Summer and Winter Seasonal conditions.
	Status/ Comments:	The CO-12 Working Group has started work on the 2012-13 Winter NPCC Reliability Assessment.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

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

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



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

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

Item	Name	Assignment
LRAO	NPCC Long Range Adequacy Overview	On a consistent basis, evaluate the near-term seasonal and long-range (five year) adequacy of NPCC Areas', reflecting neighboring regional plans proposed to meet their respective resource adequacy criteria through multi-area probabilistic assessments.
	Status/ Comments:	Work is underway by the CP-8 Working Group and is on schedule for a year end completion.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON COORDINATION OF PLANNING

Item	Name	Assignment
CP-11	<i>NPCC Basic Criteria For Design and Operation of the Bulk Power System Review Working Group</i>	This Working Group is charged with the revision of the NPCC Inc. Basic Design Criteria Directory No. 1 and the NPCC Glossary of Terms Document A-07. In addition, the Task Force on Coordination of Planning (TFCP) charged the CP-11 Working Group with the development of the A-10 Classification of BPS Elements document.
	Status/ Comments:	The C P-11 Working Group held a series of meetings and conference calls to work on Directory No. 1. Members were encouraged to participate in this important effort which is expected to take about 18 months to complete. At the August 18, 2010 meeting, the TFCP approved the revised scope and schedule submitted by the CP-11 Working Group for the Directory No. 1 review to be completed by November 2011. The CP-11 Working Group completed the first milestone in the development of a draft Directory No. 1 document that was forwarded to the Task Forces on January 27, 2011 for their review and input. In September the CP-11 Working Group delivered to TFCP the draft D1 revisions intended for Open Process Review pending input from TFCO. The CP-11 Working Group has since provided the draft D1 to TFSS as well and will continue to work with the Task Forces to develop a consensus document that can be submitted in the NPCC Open Process Review for comments.

Item	Name	Assignment
SP-7	Working Group on Review of Protection System Mis-operations	Review and analyze mis-operations of transmission and generation protection systems and special protection systems on the bulk electric system and report on the statistics of mis-operations as they occur in the NPCC region including lessons learned and implementation of corrective action plans by registered entities.
	Status/ Comments:	The SP-7 Working Group has completed review the First Quarter 2012 misoperation reports and outstanding reports from prior Quarters. The First Quarter Report and updates to prior Quarter Reports were submitted to NERC on July 15, 2012, and a status report was given at the June 13, 2012, RCC meeting. The reporting deadline for the Second Quarter 2012 misoperation reports passed on July 20, 2012; the SP-7 Working Group will convene in September to begin review of the Second Quarter 2012 reports and outstanding reports from prior Quarters.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

TASK FORCE ON SYSTEM STUDIES

<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/ Comment:	<p>The SS-37 Working Group will commence development of the 2012 Library of Load Flow cases per the SS-37 Work Plan Schedule. The Working Group is working with the MMWG and PowerTech staff to correct problems identified in the 2011 Series Dynamics Library.</p> <p>The Working Group will update the SS-37 Procedure Manual to reflect recent revisions made to the MMWG Procedure Manual.</p> <p>The load flow cases were submitted to the MMWG on time and corrections to Trial 1 of the cases were also submitted.</p> <p>SS-37 is currently working on the development of the Dynamics cases that will be submitted to the MMWG by October 15, 2012.</p>

<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:	SS-38 Working Group is working on the load modeling white paper as scheduled in the TFSS work plan for 2012-2013. The Terms of Reference for the load modeling white paper was approved at the March 1, 2012 RCC meeting. The SS-38 Working Group will present a status report on this effort at the September 12, 2012 RCC meeting.



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	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.
	Status/ Comments:	<p>The ERAG Management Committee met on June 126, 2012 at the FRCC offices in Tampa, Fl. During the meetings topics discussed included:</p> <ul style="list-style-type: none"> • A review of the ERAG MC members (Messrs. Roman and Rochester) presentations given at the May 2-3, 2012 NERC Workshop on frequency response issues. There was much discussion on possible ways to improve frequency response modeling and performance; • <u>2012 series dynamics case process improvements;</u> • <u>Plans for merging the SERN and the MRO-RFC-SERC W-SPP Forums.</u> There are still impediments and differences that need to be resolved; • Request that more accurate system dispatches that more closely reflect market actions be included in the MMWG base cases. Some of the Balancing Authority Areas that have markets dispatch seasonal base cases have significant differences in the dispatches used in the other base cases; • NERC Plans for the October 2-4, 2012 Modeling Workshop that is intended to follow up on some issues from the May Workshop but address modeling issues in more detail; • NERC Survey of Generator Data and transmittal to the Regions to 2011 series base cases and resolution of these errors; and, • 2011 series steady state cases process improvements and 2012 series dynamics cases process improvements.

Mr. Roman also provided presentations on frequency response modeling at the EPRI / North American Transmission and Generator Forum Workshop on July 10-11, 2012 in Palo Alto, California. This is to continue the dialog with the generator operators regarding the improvement of models.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

RFC - NPCC Working Group

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
RNWG	RFC-NPCC Working Group	The RFC-NPCC Working Group (RNWG), under the direction of the newly combined SERC-East and the RFC-NPCC Steering Committees (SerN SC), conducts appraisals of the RFC-NPCC interconnected systems for the upcoming summer and winter capability periods.
	Status/ Comments:	The MMWG winter 2012-2013 inter-regional base case was issued on August 9, 2012. The RNWG is currently reviewing the base case and preparing it for emergency transfer analysis using MUST software. The RNWG work schedule calls for completion of the emergency transfer analysis by mid-September 2012 and to provide a draft report on the results by October 2012. A meeting of the Joint ERAG Steering committee is scheduled on October 16, 2012.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

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



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

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

Status/ Comments:

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

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

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

Status/ Comments:

Data collection of 100 kV and above outage information has been delayed until calendar year 2014 because FERC has not approved the BES definition. The scheduled start of data entry in 2012 into webTADS is scheduled to begin in January 2013.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

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



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

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



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Reliability Assessment and Performance Analysis Program

OTHER

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



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Situation Awareness and Infrastructure Security Program

TASK FORCE ON COORDINATION OF OPERATION

Item	Name	Assignment
CO-10	Operational Tools Working Group	<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> <p>Status/ Comments: A Final Draft of Document C-17 "Procedures for Monitoring and Reporting Critical Operating Tool Failures" has been posted for public comments.</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 to address timely issues and update member system personnel associated with the provision of on-line computer systems for operation of the power system. Last Workshop: May 2012</p> <p>Status/ Comments: IST-1 presented a classroom session at the Spring 2012 Standards & Compliance Workshop on “Preparing for CIP versions 4 and 5. A presentation is also planned for the Fall 2012 Standards & Compliance 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:	Expect TFIST to review a draft scope at the 2012 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 2012-2013 TFIST Work Plan, re-populate the Physical Security Working Group.



RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

Administrative Services

MEMBERS' FORUMS

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

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
Gov/Reg	NPCC Governmental Regulatory Affairs Advisory Group	To provide a forum where industry and governmental and/or regulatory representatives can exchange views and strive to develop consensus policy recommendations on reliability issues specific to the NPCC Region and share actionable information related to regional energy and reliability matters.
	Status/ Comments:	The last meeting of the NPCC Governmental/Regulatory Affairs Advisory Group was held November 29, 2011 in conjunction with the NPCC 2011 General Meeting in Toronto, Ontario.

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