



**RCC Meeting  
September 14, 2022  
Agenda Item 8.9**

**Reliability Assessment Program  
(NRAP)  
HIGHLIGHT REPORT**  
*Prepared for the  
Reliability Coordinating Committee  
September 14, 2022*

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**

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# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program Regional Standards Committee

Item	Name	Assignment
RSC	Regional Standards Committee	<p>The NPCC Regional Standards Committee (RSC), a committee of the NPCC Board, is charged with management and maintenance of the NPCC Regional Standard Processes Manual (approved by FERC Dec. 23, 2014). The RSC considers requests for new or revised regional standards and be available for advisement to the NPCC Board of Directors on standards related matters. The RSC works in coordination with the Regional Standards Process Manager (RSPM) who is the administrator for the NPCC Regional Standard Processes Manual. In addition, the RSC reviews, comments on, and develops ballot recommendations for the NERC Reliability Standards under review or development. The RSC also provides oversight for the NPCC Regional Reliability Directories which contain NPCC’s more stringent regional Criteria and supporting procedures and guidelines. The RSC also conducts and coordinates the NPCC Cost Effectiveness Analysis Procedure (CEAP) for evaluation of the cost effectiveness of NPCC’s Regional Standards and Directories. The RSC provides input to the NERC “Periodic Review Projects” and the NERC version of the CEAP being referred to as cost effectiveness and is providing input into the “Standards Efficiency Review” (SER) project. The SER allows the industry the opportunity to identify potential standard requirements which could be candidates for retirement. The RSC also discusses potential avenues to address potential reliability related issues as well as opportunities to enhance reliability associated with the deployment of Distributed Energy Resources (DER). In addition, the RSC coordinates work with the RCC and CC to address any issues identified with standards to improve standards and reliability. The RSC also is sanctioned in the Compliance Guidance Policy process to vet potential approaches to compliance prior to submission to NERC and is engaged in revising the NPCC Regional Standard Processes Manual. The RSC will also serve as a liaison for the Northeast Region to the NERC RSTC for any Standards related recommendations.</p>

**Status/ Comments:**

The RSC is focused on the review of each of the NERC Reliability Standards (as they are developed, revised, or reviewed for reaffirmation or retirement). The RSC is currently reviewing all the FERC Orders and NOPRs that pertain to Reliability Standards. The RSC develops recommendations for membership on ballots when posted. The RSC also supports the NERC Standards Efficiency Review, Functional Model Working Group, NERC Standards Committee, and the NERC Standards Committee Process Subcommittee. The RSC is in the process of reviewing the NPCC Regional Reliability Standards Development Procedure, renamed the Regional Standard Processes Manual. The RSC continues to participate in the NERC Standard Processes Manual revisions and the Results Based Standards Initiative through its support of the Standards Committee Process Subcommittee and solicits members for the NERC drafting teams as necessary to ensure NPCC is adequately represented. The RSC has been overseeing the Strategic Review of NPCC Criteria.



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Regional Standards Committee

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
RSC	Regional Standards Committee	<p>The RSC continues to consider enhancements to the NPCC Website to provide further uniformity and consistency with that of NERC and other Regions.</p> <p><b>Status/Comments:</b> The RSC is currently engaged in reviewing a potential approach to penetration of utility-scale Distributed Energy Resources (DERs) on the distribution system, and its adverse impact on the BES. The Distributed Energy Resource BES impact reporting form is posted on the NPCC website. The RSC hosted three DER forums in 2021 and one Offshore Wind forum. The DER, VER and Offshore Wind Forums are open to the public. The next DER Forum is tentatively scheduled for August 11, 2022. The DER Forums are hosted on the second day of RSC meetings. The goal is to host three DER Forums in 2022. The NPCC Standards staff developed Version 1 and 2 of the DER Guidance Document which was endorsed by the members of RSC in 2019 and 2020. The DER/VER Guidance Document V3 was reviewed and approved by the members of RSC at the May 11, 2022, RSC meeting. The NPCC Standards staff are in the process of adding two new appendixes for version 4 on Electric Vehicle Charging and Building Electrification after the August 2022 DER/VER forum.</p>



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Directories, Appendices & Criteria

<b>Item</b>	<b>Name</b>	<b>Appendices</b>	<b>Lead TF</b>	<b>Current Version</b>
DIR-1	Basic Criteria for the Design And Operation of the Bulk Power System	Appendix A – ERO Standards 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  TFCO* TFCO*	September 30, 2015

**Status/ Comments:**

Currently the RCC is monitoring an Implementation Plan governing protection upgrades in New England.

The Task Force on Coordination of Planning has approved a Scope of Work, and a Joint Planning and Operations Working Group has begun the review of this document.

Also, the TFCP has proposed new footnotes to address the uncertainty on how testing required by Tables 1, 2, and 3 of Directory No. 1 should be performed in locations where free standing or column-type current transformers (CT) are provided on only one side of a live tank circuit breaker protecting a transmission element.



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Directories, Appendices & Criteria

<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 29, 2018

**Status/ Comments:**

Directory No. 2 is on the Task Force of Coordination of Operation’s 2022-23 Work Plan to conduct a comprehensive triennial review. In 2022, the CO-8 Working Group and the TFCO performed an initial review of the Directory and determined that no substantive changes are required at this time but will continue to monitor Project 2021-07 Extreme Cold Weather Grid Operations, Preparedness, and Coordination SDT activities, upon their final approval. Future revisions/considerations will be informed by any lessons learned and recommendations from the NPCC’s 2022 Goal IA-4 – “Load shedding tabletop exercise”. The CO-8 Working Group will review Directory No.2 initial Phase 1 changes at its November 2022 meeting and plan to present Phase 1 revisions to the TFCO at its December 2022 meeting

<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	Retired April 1, 2015

**Status/ Comments:**

The Task Force on System Protection (TFSP) completed a technical comparison of the criteria in Directory No. 3 with PRC-005-2 *Protection System Maintenance* and recommended that the criteria in Directory No. 3 be retired.

The RCC approved the TFSP recommendation and on October 15, 2014 the NPCC Full Membership voted to approve the retirement of Directory No. 3, effective April 1, 2015, upon the enforcement date of PRC -005-2 *Protection System Maintenance*.



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Directories, Appendices & Criteria

<u>Item</u>	<u>Name</u>	<u>Appendices</u>	<u>Lead TF</u>	<u>Current Version</u>
DIR-4	BPS Protection Criteria		TFSP	January 30, 2020
		Appendix A – Guideline for Bulk Power System Protection	TFSP	
		Appendix B - Procedure for Reporting to TFSP New and Modified Protection Systems	TFSP	
	<b>Status/ Comments:</b>	The NPCC Full Member Committee approved the current version of Directory No. 4 on January 30, 2020.		



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Directories, Appendices & Criteria

<u>Item</u>	<u>Name</u>	<u>Appendices</u>	<u>Lead TF</u>	<u>Current Version</u>
DIR-5	Reserve	Appendix A – Monitoring Procedure for Operating Reserve Criteria Frequency Response	TFCO	September 27, 2019
		Appendix B – Procedures during Abnormal Operating Conditions	TFCO	
		Appendix C – Participation Request Form – Simultaneous Activation of Reserve and ACE Diversity Interchange	TFCO	
		Appendix D – Guidelines for Determining the Time T+0	TFCO	

**Status/ Comments:**

The Task Force on Coordination of Operation (TFCO) completed a comprehensive review of Directory No. 5 in 2019 with the NPCC Full Membership approving the revised version of Directory No.5 on September 27, 2019. The review considered the impact of evolving ERO standards, NPCC Glossary updates and revisions, revised synchronized reserve criteria, and retired procedures detailed within the Appendices.

Errata corrections to Requirement 4.3, Attachments B - C, and Appendix C were incorporated in January and April 2020.

In February 2022, the TFCO received an NPCC Request for Clarification of Criteria on the sustainability requirements upon the activation of Operating Reserves with respect to Hybrid Storage Resources and Directory No. 5, R6. The TFCO and CO-1 developed a response to the Clarification Request, which was posted to the NPCC Open Process in May 2022 for a 45-day Comment Period. No comments were received, and the final Clarification will be presented to the Reliability Coordinating Committee (RCC) for approval. The next triennial review of Directory No.5 has been added to the RCC-approved 2023 TFCO Work Plan and will consider the Clarification Request.





# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program


### Directories, Appendices & Criteria

<u>Item</u>	<u>Name</u>	<u>Appendices</u>	<u>Lead TF</u>	<u>Current Version</u>
DIR-6	Regional Reserve Sharing		TFCO	September 27, 2019

**Status/Comments:**

The Task Force on Coordination of The NPCC Full Member Committee approved the most recent version of Directory No.6 on September 27, 2019.

<u>Item</u>	<u>Name</u>	<u>Appendices</u>	<u>Lead TF</u>	<u>Current Version</u>
DIR-7	Remedial Action Schemes		TFCP	Dec. 22, 2020

Attachment 1 – Definition of Terms  
 Appendix A – Guidance for Consideration in Remedial Action Scheme  TFSP  
 Criteria  
 Appendix B – Procedure for Review of Remedial Action Schemes

**Status/ Comments:**

The NPCC Full Member Committee approved the most recent version of Directory No.7 on December 22, 2020.



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Directories, Appendices & Criteria

<u>Item</u>	<u>Name</u>	<u>Appendices</u>	<u>Lead TF</u>	<u>Current Version</u>
DIR-8	System Restoration	<p>Appendix A - Table 1 “Standard Test Procedures for key facilities and associated critical components required for system restoration.</p> <p>Appendix B: NERC ERO Reliability Standards</p> <p>Appendix C - Table 2: Comparison of Test Procedures for Critical Components of Key Facilities of the System Restoration Plan</p>	TFCO	September 25, 2018
	<b>Status/ Comments:</b>	<p>The Directory No. 8 Triennial Review Team, consisting of CO-11 Working Group members and NPCC Transmission Operator representatives, conducted focused review sessions of Directory No. 8 every three weeks in 2021 and 2022. The review addressed non-substantive, deferred NPCC member comments from the previous triennial review (2018), test procedures for Critical Components, RCC-approved Criteria Clarification Requests, and proposed new testing procedural language for better alignment between the requirements and current system and computer technologies. Through the Task Force on Coordination of Operation (TFCO), the Task Force on System Protection (TFSP) was also requested to review Testing Procedures in Directory No. 8 to ensure the criteria remains more specific and stringent to recent changes made to PRC-005.</p> <p>In accordance with the NPCC Directory Development and Revision Manual, a Cost Effectiveness Analysis (CEA) review was also completed to describe enhanced reliability attributes and resilience components of the criteria. The CEA will seek NPCC member comment to identify if there are any potential alternatives achieving the same reliability outcome.</p> <p>TFCO reviewed the proposed Directory redlines, NPCC Glossary of Terms Changes and CEA at its January 12-13, 2022 meeting and approved an NPCC Open Process Posting on May 12, 2022. The proposed Directory revisions and supporting material changes (Directory, NPCC Glossary of Terms, and Cost Effectiveness Analysis) were posted for a 45-day comment period on June 6, 2022, which concluded on July 19, 2022. The CO-11 WG has begun reviewing the comments received during the Open Process and developing responses to the comments. The TFCO will review the responses developed by CO-11 at the October or December 2022 meetings to determine appropriate next steps, including a potential additional 45-day comment period.</p>		



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Standards Program

#### Directories, Appendices & Criteria

Item	Name	Appendices	Lead TF	Current Version
DIR-9	NPCC Verification of Generator Gross and Net Real Power Capability	Appendix A – Definition of Terms Appendix B – Basic Flow Chart for Verification of Generator Gross and Net Real Power Capability	TFCO TFCO/TFCP <sup>1</sup> TFCO/TFCP <sup>1</sup>	Retired July 1, 2019

**Status/ Comments:**

The NPCC Full Membership voted to approve the retirement of NPCC Regional Reliability Directory No. 9 *Verification of Real Power Capability*, and seven existing NPCC Glossary terms contained solely within Directories No. 9 and No. 10, effective July 1, 2019. Directory No. 9 is posted on the NPCC website marked with a ‘retired’ watermark.

Item	Name	Appendices	Lead TF	Current Version
DIR-10	NPCC Verification of Generator Gross and Net Reactive Power Capability	Appendix A – Definition of Terms Appendix B1 – Basic Flow Chart for Verification of Generator Gross and Net Reactive Power Capability Appendix B2 – Generator Reactive Capability Form	TFCO TFCO/TFCP <sup>1</sup> TFCO/TFCP <sup>1</sup> TFCO/TFCP <sup>1</sup>	Retired July 1, 2019

**Status/ Comments:**

The Task Force on Coordination of Operation has completed a technical comparison of the Directory No. 10 criteria with the requirements of MOD-25-2 and concluded that Directory No. 10 can be retired without creating a reliability gap. On August 3, 2017, the NPCC Full Member Committee voted to approve the retirement of NPCC Regional Reliability Directory No. 10 *Verification of Reactive Power Capability*, and seven existing NPCC Glossary terms contained solely within Directories No. 9 and No.10, effective July 1, 2019. Directory No. 10 is posted on the NPCC website marked with a ‘retired’ watermark.



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Directories, Appendices & Criteria

<u>Item</u>	<u>Name</u>	<u>Appendices</u>	<u>Lead TF</u>	<u>Current Version</u>
DIR-11	Disturbance Monitoring Equipment Criteria		TFSP	February 11, 2022
		Appendix A – Guide to Time Synchronization of Substation Equipment	TFSP	
		Appendix B – Guide for Application of DME	TFSP	
		Appendix C – Guide for Generator Sequence of Events Monitoring	TFSP	

**Status/ Comments:**

On October 24, 2016, the NPCC Full Member Committee voted to approve regional Reliability Directory No. 11 *Disturbance Monitoring Equipment Criteria*. Also approved was the concurrent retirement of the following NPCC documents:

- A-15 – “*Disturbance Monitoring Criteria*”
- B-25 – “*Guide to Time Synchronization of Substation Equipment*”
- B-26 – “*Guide for Application Disturbance Monitoring Equipment*”
- B-28 – “*Guide for Generator Sequence of Events Monitoring*”

Directory No. 11 augments PRC-002-2 *Disturbance Monitoring and Reporting Requirements* and guides effective application of equipment necessary to capture the data required by the NERC standard.

The NPCC Full Member Committee approved the most recent version of Directory No. 11 on February 11, 2022.



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Standards Program

#### Directories, Appendices & Criteria

<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	Retired Oct. 1, 2021
	<b>Status/ Comments:</b>	The Task Force on System Studies (TFSS) posted a retirement recommendation for Directory No. 12 on April 28, 2021 for a 45- day comment period. The TFSS has recommended that Directory No. 12 can be retired effective October 1, 2021 to coincide with the enforcement date of PRC –006-NPCC –02 in all jurisdictions. On October 19, 2021, the NPCC Full Member Committee voted to approve the retirement of Directory No. 12 effective October 1, 2021.		
<u>Item</u>	<u>Name</u>	<u>Criteria</u>	<u>Lead TF</u>	<u>Current Version</u>
A-01	Criteria for Review and Approval of Documents		TFCP	Retired Sept. 25, 2018
	<b>Status/ Comments:</b>	The Regional Standards Committee (RSC) updated the NPCC <i>Directory Development and Revision Manual</i> , and relevant sections of the A-01 <i>Criteria for Review and Approval of Documents</i> have been incorporated into the Directory Manual for the purposes of retiring the A-01. The revised and updated NPCC Directory Manual, including sections of the A-01 document, was approved by the RSC in August 2018. Concurrent with the RSC review of the revised Directory Manual, the RCC approved the retirement of the A-01 document and on September 25, 2018 the NPCC Full Membership approved the retirement of the A-01 Document.		



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Directories, Appendices & Criteria

<u>Item</u>	<u>Name</u>	<u>Criteria</u>	<u>Lead TF</u>	<u>Current Version</u>
A-10	Classification of Bulk Power System Elements		TFCP	March 27, 2020

**Status/ Comments:**

The Task Force on Coordination of Planning (TFCP) and its CP-11 Working Group conducted a review of the A-10 methodology. The CP-11 Working Group effort focused on three objectives as highlighted by the TFCP in the project scope: 1) Identify critical facilities for the applicability of NPCC Directories; 2) improve consistency of application and outcome across the region; and 3) simplify the methodology to make it less resource intensive.

The RCC approved testing of three proposed methodologies developed by the CP-11 Working Group during Phase I of the review in 2017. These proposals included revisions to the existing methodology and two new methodologies. The CP-11 Working Group Final Report concluded that a revised and improved existing methodology is the most effective of the proposals in identifying those facilities critical to the design and operation of the BPS. The recommended improvements include revisions to the overall testing strategy (i.e., where to begin and conclude testing), base case set-up (i.e., load levels, interface stress and generation patterns) and the use of performance requirements to assess testing outcomes. The RCC approved the CP-11 Working Group's recommendations in December of 2018 and these recommendations have been incorporated into a revised version of the A-10 Document.

The TFCP posted a revised version of the A-10 to the Open Process for two Open Process comment periods and the TFCP has responded to all comments. The RCC approved the revised A-10 Document and an associated implementation plan at its February 27, 2020 meeting. The NPCC Full Member Committee voted to approve the revised A-10 Document on March 27, 2020.



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Directory Development and Revision Manual

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Current Version</b>
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 Force responsible for Directory content.	October 2020
	<b>Status/ Comments:</b>	<p>The Directory Development and Revision Manual was revised in 2013 to incorporate changes in the approval process for a Criteria Interpretation (clarification) and to consider revisions to the Manual that incorporate cost considerations for new or revised criteria.</p> <p>A revised version of the Directory Manual which incorporated relevant sections of the A-01 document to facilitate retirement of the A-01 was approved by the RSC in August 2018. A repeatable cost- effective evaluation has also been incorporated into the Directory Manual to ensure a cost- effective evaluation of the criteria during periodic Task Force reviews of each Directory. The RSC approved minor updates to the Manual in October 2020.</p>	



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### NPCC Glossary of Terms

<u>Item</u>	<u>Name</u>	<u>Assignment</u>	<u>Current Version</u>
Glossary	NPCC Glossary of Terms	<p>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.</p> <p>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.</p> <p>The Glossary is in the Directory section of the NPCC website.</p>	August 10, 2021





# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Regional Standards

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Current Version</b>	
PRC-002-NPCC-01	<b>Disturbance Monitoring</b>	This Standard establishes the technical and reporting requirements for disturbance monitoring equipment. This will lead to improved system reliability by providing the resources to do post event analyses.	<b>Latest Version:</b>	<b>Retired</b>
			<b>Date:</b>	<b>August 16, 2016</b>

**Status/ Comments:**

The proposal to retire PRC-002-NPCC-01 *Disturbance Monitoring* regional standard was approved by the NPCC Board on March 23, 2016 and by the NERC Board of Trustees on May 5, 2016. After NERC Board approval, a petition to retire the regional standard was filed with FERC on June 9, 2016 and it was filed with all Canadian Provinces on June 14, 2016.

FERC issued an approval letter for the retirement of Regional Reliability Standard PRC-002-NPCC-01 *Disturbance Monitoring* on August 16, 2016.



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Regional Standards

<u>Item</u>	<u>Name</u>	<u>Assignment</u>	<u>Current Version</u>	
PRC-006 NPCC-1	<b>Under Frequency Load Shedding (UFLS)</b>	This Standard will provide the requirements for implementing an automatic under frequency load shedding program to effectively respond to system under frequency events.	<b>Latest Version:</b>	<b>Feb. 2020</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	<b>Feb. 2023</b>

**Status/ Comments:**

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 requirements R1 – R7 is January 1, 2016. Requirements R8 – R23 became on enforceable on July 1, 2015.

As a result of developments regarding NERC PRC-006-1/PRC-006-2 *Automatic Underfrequency Load Shedding*, PRC-024-1/PRC-024-2 *Generator Frequency and Voltage Protective Relay Settings*, Project 2014-01 *Standards Applicability for Dispersed Generation Resources*, NPCC Directory No. 12 *Underfrequency Load Shedding Program Requirements*, and the 2013 *NPCC UFLS Adequacy Assessment*, a Regional Standard Authorization Request (RSAR) for revision of Automatic Underfrequency Load Shedding PRC-006-NPCC-1 was approved by the Regional Standards Committee at its June 23, 2015 meeting. The RCC approved the Regional Standards Committee’s request to assign the TFSS to the project scope outlined in the RSAR and to populate the Drafting Team. On October 7, 2015, the RSC approved the drafting team roster as per the recommendation of the TFSS leadership. The PRC-006-NPCC-01 Automatic UFLS drafting team met eleven times and three conference calls. All requirements have been reviewed by the SDT and the draft standard was posted for three open process comment periods and for a 90-day pre-ballot review. A ballot was then conducted which closed on February 10, 2019. The ballot achieved 80.95% quorum and approval of 76%. Due to an ERRATA, the standard was re-approved by the NPCC Board at their September 5, 2019 meeting. It was approved at the November 5, 2019 BOT meeting. The petition for approval is sent to FERC on December 23, 2019 and FERC has assigned Docket RD20-1-000 open for comment period which closed on January 22, 2020. The PRC-006-NPCC-02 was endorsed by FERC on February 18, 2020.



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Regional Standards

<b>Item</b>	<b>Name</b>	<b>Assignment</b>	<b>Current Version</b>	
BAL-002- NPCC-01	<b>Regional Reserve Sharing Groups</b>	The Standard provides the measures for implementing Reserve Sharing Groups within NPCC to meet their reserve obligations.	Latest Version:	<b>New</b>
			<b>Frequency of Reviews:</b>	<b>3 years</b>
			<b>Next Review Date:</b>	
	<b>Status/ Comments:</b>	A Regional Standard Authorization Request (RSAR) has been developed and approved by the RSC. The RCC has assigned the Task Force on Coordination of Operation (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.		



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Standards Program

### Regional Standards Development Procedure

Item	Name	Assignment	Current Version
RSPM Regional Standard	<p>The NPCC Regional Standard Processes Manual describes the procedures, policies, and practices implemented to ensure an “open, fair, and inclusive” process for the transparent initiation, development, implementation and revision of the NPCC Regional Standards necessary for the reliable operation of the Interconnected Bulk Power System in northeastern North America.</p>	<p><b>Latest Version:</b> Nov. 2020</p> <p><b>Frequency of Reviews:</b> 3 years</p> <p><b>Next Review Date:</b> Nov. 2023</p>	
<b>Status/ Comments:</b>	<p>The Regional Standard Processes Manual (RSPM) is posted on the NPCC Website. The RSC actively reviewed 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. During the June 20, 2018 RSC meeting, a small team was formed to review the current RSPM for any potential updates. The RSC reviewed and updated the existing RSPM. The revised RSPM was approved by the RSC for comment posting on August 7, 2019. The RSPM was posted for a 45-day comment period from September 11, 2019 to October 26, 2019. The RSPM was posted for a ballot period from January 17, 2020 to February 25, 2020. The results of the ballot were as follows: 81.65% quorum and 100% approval. The RSPM was approved by the NPCC Board at their meeting on May 6, 2020.</p> <p>The NPCC RSPM was posted by NERC for a 45-day industry wide comment period that concluded on July 29, 2020. The proposal to approve Regional Standard Processes Manual was submitted to the NERC Board of Trustees and approved at their August 19-20, 2020 meeting. NERC and NPCC filed the joint petition to FERC on September 10, 2020. On November 23, 2020, FERC issued a letter order endorsing the revised NPCC Regional Standard Processes Manual. Docket Number: RR20-7-000.</p>		



## 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 provides objective stakeholder input for Staff consideration in the implementation of the NPCC Compliance Monitoring and Enforcement Program (CMEP). The NPCC CMEP covers compliance assessment and enforcement of NERC Reliability Standards and NPCC Regional Reliability Standards. As part of its 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 reviewing Directory certification forms and providing non-monetary sanction recommendations to the RCC for incidents of non-compliance with aspects of monitored Reliability Criteria.</p> <p><b>Status/ Comments:</b> At the January 13, 2021 meeting, the 2021 CC Scope and CC Work Plan were discussed and approved. Both documents were approved by the NPCC Board on January 27, 2021. On the January through May 2021 CC calls, NPCC Staff shared with the CC updates and explanations on the transition from the CDAA compliance reporting tool to the new ERO compliance tool, which will occur through 3 Releases in 2021. The new tools are Align and the Secure Evidence Locker. A prioritized Align/SEL training plan for stakeholder users was developed by NPCC Staff and accepted by the CC on March 17, 2021. The CC was presented with the draft NPCC criteria for incorporating entity Performance Considerations in the development of Compliance Oversight Plans (COPs). Due to CC questions, a small working group was set-up to review the criteria in an objective fashion to propose updates at the May 26, 2021 CC meeting where the revised PC Criteria was accepted by the CC. NPCC status and progress on the implementation of the new Align/SEL tool, including stakeholder training were presented to the CC at each monthly meeting in 2021.</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 Compliance Committee provides the RCC an annual CCEP Implementation Plan for approval 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. The Compliance Committee also provides the RCC an annual written assessment of the submitted Reliability Criteria Certification forms for approval which includes recommendations as necessary of non-monetary sanctions for incidents of non-compliance.</p> <p><b>Status/ Comments:</b></p> <p>The CCEP Working Group has updated the CCEP-1 process document and it was presented and endorsed by the CC on April 22, 2020. It was provided to the RCC and posted on the NPCC website. In addition, the CC provided a recommendation to the RCC on April 23, 2020 on how issues with Full Member Directory noncompliance due to COVID response should be documented. On July 15, 2020, the CC developed and endorsed the 2019 CCEP Assessment Report which was presented for acceptance at the September 9, 2020 RCC meeting. The 2021 CCEP Implementation Plan and the blank forms for the 2021 Implementation Plan (IP) were approved at the September 16, 2020 CC meeting. The 2021 CCEP IP was accepted at the December 1, 2020 RCC meeting. The last of the CCEP certification forms for the 2020 CCEP year were due on May 20, 2021. The CC developed the 2021 CCEP Assessment Report in time for discussion at the July which was then presented (and accepted by) to the RCC on September 8, 2021. The 2022 CCEP Implementation Plan was presented and approved at the November 30, 2021 RCC meeting. In October 2021, a Directory No. 8 draft certification form for TOs to certify to Key Facility testing under the 2023 CCEP Implementation Plan was shared by the CC Chair with Task Force on Coordination of Operation.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Training, Education, and Operator Certification Program

#### TASK FORCE ON COORDINATION OF OPERATION

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
CO-2	System Operator Training Seminar	<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>
	<b>Status/ Comments:</b>	<p>The CO-2 WG held a meeting on March 8-9, 2022 to plan the Spring 2022, 88<sup>th</sup> NPCC System Operator seminar. The Seminar was held virtually on May 18, 2022 with approximately 40 participants and speakers. Consistent with past practice, system operator feedback from the 2021 Fall 87<sup>th</sup> NPCC System Operator Seminar was used to develop the program agenda and topics, in coordination with the CO-8 Working Group. The seminar will include topics related to Human Performance Improvement, Situational Awareness, Geomagnetic Disturbances, Cyber Security and Islanded Operations and Frequency Control.</p> <p>The Fall 2022, 89<sup>th</sup> NPCC System Operator Seminar will be held in Saratoga Springs, NY on November 1-3, 2022, with a planning meeting at the NYISO on September 7-8, 2022. This will be the first in-person seminar since the beginning of the COVID-19 pandemic. The draft agenda will be reviewed with the CO-8 Working Group, in conformance with past practice.</p> <p>The CO-2 Working Group members continue to discuss and make enhancements to their respective training programs, monitor System Operator Credential Maintenance under pandemic related restrictions, and share lessons learned to provide system operators with the necessary Continuing Education Hours and safe training opportunities to support continued reliable system operations.</p>



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Assessment and Performance Analysis Program

### TASK FORCE ON COORDINATION OF OPERATION

Item	Name	Assignment
CO-1	Control Performance Working Group	<p>The Working Group ensures coordination between adjacent control areas in establishing interchange schedules, 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>
	Status/ Comments:	<p>The CO-1 Working Group met most recently on August 3-4, 2022 and will meet next on November 16-17, 2022. The Working Group most recently developed a response to an NPCC Request for Clarification of Criteria in conjunction with the TFCO. The response addresses sustainability requirements upon the activation of reserves with respect to Hybrid Storage Resources and Directory No. 5, R6. The response to the Directory No. 5 Clarification Request was posted for a 45-day comment period on June 3, 2022, which concluded on July 17, 2022 with no comments received. The Clarification Request will be included for the September 14, 2022 RCC meeting as a consent agenda item. The TFCO and CO-1 WG will incorporate this response to the Clarification request during the next triennial review of Directory No. 5 which is set to begin in 2023.</p>
		<p>The CO-1 Working Group continues to conduct periodic monitoring as required by NERC and NPCC Control Performance and Reserve Criteria, in coordination with the CO-8 Working Group and the TFCO. No discernable operational trends have been identified. In addition to the regular periodic Control Performance monitoring activities, the CO-1 Working Group continues to closely follow the activities of the BAL-003.1 Phase II Standards Drafting Team and the NERC Resources Subcommittee. The Working Group continues to hold VER-integration discussions with regards to potential enhancements to applicable Directory No.5 criteria, at the request of the TFCO.</p>





## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF OPERATION

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
CO-7	<b>Operational Planning Working Group</b>	The Working Group CO-07 was restructured to serve the Task Force on Coordination of Operation (TFCO) as an Ad Hoc Working Group, populated and charged to address specific issues as required to assist the TFCO. It has been renamed the “Operational Planning Working Group.”
	<b>Status/ Comments:</b>	A new CO-7 Working Group roster was approved at the May 26, 2021, RCC meeting. The CO-7 Working Group, jointly with the CP-11 Working Group is performing a comprehensive review of the Directory No. 1.



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Assessment and Performance Analysis Program

### TASK FORCE ON COORDINATION OF OPERATION

Item	Name	Assignment
CO-8	System Operations Managers Working Group	<p>Provide a forum for the Managers of the NPCC control centers to identify and discuss security concerns in the operation of the interconnected bulk power supply system, and specific concerns related to the integration of operation between and among the evolving ISOs. The System Operations Managers Working Group will also assist the Task Force on Coordination of Operation (TFCO) in their work on issues related to system security and the operation of the ISOs, and provide advice to the TFCO, as requested.</p>
	<b>Status/ Comments:</b>	<p>At its May 4-5, 2022 meeting the CO-8 Working Group members, including representation from PJM reviewed Areas' Spring 2022 operations and Summer 2022 preparations to date, as well as status of Covid-19 pandemic related operations activities and de-escalation plans. The CO-8 Working Group discussed and developed a recommendation for TFCO's consideration for the review of the Directory No. 2, as part of TFCO's 2022-23 Work Plan to conduct a comprehensive triennial review. CO-8 WG will review Directory No.2 initial Phase 1 changes at its November 2022 meeting and plan to present Phase 1 revisions to the TFCO at its December meeting.</p> <p>The Working Group also reviewed the NERC GridEx VI report and developed a response to the TFCO on an assignment to review findings and recommendations from the FERC and ERO Enterprise Joint Report on Real-time Assessments. The CO-8 Working Group also discussed CO-2 WG plans for the in-person Fall 2022 NPCC System Operator Seminar.</p> <p>The CO-8 Working Group has ended weekly Emergency Preparedness calls to discuss pandemic operations and any anticipated system operations challenges. Emergency Preparedness calls are being held on an as needed basis. As of September 1, 2022 the NPCC Emergency Preparedness Conference Call procedure was used by the System Operation Managers 22 times thus far during 2022.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

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

Item	Name	Assignment
CO-11	Restoration Working Group	<p>The CO-11 Restoration Working Group facilitates effective and coordinated power system restoration among the NPCC Reliability Coordinator areas, and with adjacent Regions. It annually reviews the restoration plans of the NPCC Reliability Coordinator areas to identify in each individual plan the physical points requiring 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. It identifies opportunities for mutual assistance during restoration and the extent to which each system can rely on its neighbors for assistance, and coordinates Reliability Coordinator restoration exercises and develops and supervises annual wide-area restoration drills. The CO-11 working Group monitors the NERC Reliability Standards EOP-005, <i>System Restoration from Blackstart Resources</i>, and EOP-006, <i>System Restoration Coordination</i>. The CO-11 Working Group provides comments to the NPCC Task Force on Coordination of Operation and the NPCC Regional Standards Committee as revisions to these Standards are posted for consideration and weighed for implementation.</p>
	<b>Status/ Comments:</b>	<p>The CO-11 Working Group most recently on June 29, 2022 and will meet next on September 27-28, 2022. In accordance with the WG Scope, the ISO New England Area Restoration Plan was reviewed by the Working Group, which verified that all items on the CO-11 Restoration Plan Checklist were sufficiently addressed.</p> <p>The CO-11 Working Group and TOP representatives have met on a three-week basis throughout 2021 and in 2022 to complete the triennial review of Directory No. 8. Proposed redlines, changes to the NPCC Glossary of Terms and a Cost Effectiveness Analysis were approved for a 45-day Open Process Posting by the Task Force on Coordination of Operation (TFCO) at its May 11-12, 2022 meeting. Subsequent to TFCO's eventual consideration of comments received, the final revisions will be presented to the RCC for approval.</p> <p>The CO-11 Working Group also reviewed feedback from the 2021 NPCC Wide Area RC-to-RC Restoration Exercise, which was held virtually on October 20, 2021 with 35 participants and operators from all five NPCC Reliability Coordinators. A follow-up report summarizing the exercise was developed and shared with the TFCO and CO-8 at their respective meetings in Q1-2022. Findings from the report are being used for planning the 2022 NPCC Wide Area RC-to-RC Restoration Exercise, scheduled for October 25-26, 2022 at the NYISO. This will be the first in-person Restoration Exercise since the beginning of the COVID-19 pandemic.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF OPERATION

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
CO-12	<b>Operations Planning Working Group</b>	Review the overall reliability of the generation and transmission system in the NPCC Region for the Summer and Winter Seasonal conditions.
	<b>Status/ Comments:</b>	<p>The CO-12 Working Group will hold their kickoff meeting for the 2022-2023 NPCC Winter Reliability Assessment on September 12, 2022 and plan to coordinate activities with the CP-8 Working Group. At the direction of the Coordination of Operation (TFCO), the CO-12 Working Group will work with the CP-8 WG to develop enhancements and sensitivities to the winter assessment forecast to account for abnormal weather conditions. Preliminary findings on the assessment will be presented to the TFCO at their October 2022 meeting. The final assessment will be presented to the TFCO, TFCP, RCC and NPCC BOD in November and December 2022. The final 2022-2023 NPCC Winter Reliability Assessment will be released on December 9, 2022.</p> <p>The CO-12 Working Group also is coordinating input on the 2022-2023 NERC Winter Reliability Assessment (WRA) in conjunction with the NPCC CP-8 Working Group. The request was initially received in July 2022 and was reviewed by the NERC Reliability Assessment Subcommittee at their August 31-September 1, 2022 meeting. Consistent with past practice, efforts are being made to ensure alignment of the 2022-2023 NERC WRA with the 2022-2023 NPCC Winter Reliability Assessment. The 2022-2023 NERC WRA will be released on November 19, 2022.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF OPERATION

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
CO-14	<b>Operations Load Forecast Working Group</b>	Promote information sharing among NPCC Reliability Coordinators, Balancing Authorities and Transmission Operators in producing accurate and timely load forecast products. CO-14 reports to the NPCC Task Force on Coordination of Operation (TFCO). Regular meetings occur twice per year by teleconference or in-person. Meetings are hosted by NPCC member organizations with an open invitation to PJM and MISO Operations Load Forecasters.
	<b>Status/ Comments:</b>	The CO-14 working group members conducted their first meeting of 2022 on March 23-24, 2022 virtually via WebEx. The members held discussions on the impacts of load forecasts on downstream processes, sharing best practices in operations load forecast processes, current societal and market trends affecting load and their impacts on load forecasting, and sharing metrics for load forecast accuracy, including the foundations for which those metrics are selected, calculated, and their overall performance in reference to those metrics. The CO-14 working group is anticipating conducting their next meeting on October 19-20, 2022.



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF PLANNING

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
CP- 8	<b>Working Group on Review of Resource and Transmission Adequacy</b>	Review the overall reliability of the NPCC Areas and perform pre-seasonal resource adequacy assessments.
	<b>Status/ Comments:</b>	The CP-8 Working Group is coordinating development of the <i>NPCC 2022 Long Range Adequacy Overview</i> ; the RCC will consider final approval of the report at its December 6, 2022 meeting. Efforts will be made to ensure alignment with the 2022 NERC Probabilistic Assessment (ProbA).

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
CP- 2022S	<b>Summer 2022 Multi-Area Probabilistic Reliability Assessment</b>	Assess NPCC Area reliability by estimating the projected use of Area Operating Procedures designed to mitigate resource shortages for the summer (May through September) period.
	<b>Status/ Comments:</b>	The assessment was approved by the Task Forces on April 22, 2022; a presentation was given to the NPCC Board of Directors on May 4, 2022. The <i>2022 NPCC Summer Reliability Assessment</i> was released on May 5, 2022.

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
CP- 2022-23W	<b>Winter 2022-2023 Multi-Area Probabilistic Reliability Assessment</b>	Assess NPCC Area reliability by estimating projected use of Area Operating Procedures designed to mitigate resource shortages for the winter (November through March) period.
	<b>Status/ Comments:</b>	The CP-8 Working Group is currently coordinating development of the NPCC Winter 2022-2023 Multi-Area Probabilistic Assessment; the RCC will consider final approval of the report at its December 6, 2022 meeting.



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON COORDINATION OF PLANNING

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
TIE	NPCC 2021 Tie Benefits Report	Estimate NPCC Area Annual Tie Benefits for a five-year period, assuming a hypothetically “At Criteria” and “As Is” system representation, applying consistent methodology and assumptions to all NPCC Areas, using the same multi-area reliability model.
	<b>Status/ Comments:</b>	The RCC approved the <i>NPCC 2021 Tie Benefits Report</i> at its March 2, 2022 meeting.



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Assessment and Performance Analysis Program

### TASK FORCE ON SYSTEM STUDIES

Item	Name	Assignment
SS-37	<b>Base Case Development Working Group</b>  <b>Status/ Comments:</b>	<p>On an annual basis, develop a library of solved power flow cases and associated dynamic data.</p> <p><b>MMWG 2022 Series Power Flow Cases</b>            The NPCC SS-37 Working Group continues to work together with the MMWG coordinator to resolve any issues that arise during the 2022 Series power flow trials. The NPCC areas recently submitted data on time for Trial 3 corrections and are now waiting for the MMWG coordinator to incorporate those corrections and release the pre-final cases for review.</p> <p><b>MMWG 2022 Dynamic Cases</b>            The NPCC SS-37 Working Group met on August 17th – 18th to initiate the development of eight dynamics cases for the MMWG 2021 series. The dynamics case was successfully initialized, and the dynamic data package has been submitted to the MMWG coordinator on time per the MMWG schedule. Providing Composite Load Model Data (CMLD) for all eight dynamics cases is required by the MMWG for the 2022 series, SS-37 members are working to meet this requirement.</p> <p><b>Automation Sub-Group</b>            The SS-37 Automation Sub-Group developed a tool to improve power flow case quality. The tool was initially brought to the SS-37 Automation Sub-Group by the New York ISO and further developed encompass all NPCC areas. The tool is a case checking tool that provides a snapshot of a power flow case to include interchange calculations, ensure machines are dispatched within their limits, PARs are operating within angle limits, thermal overload checks on two and three-winding transformers, among other parameters.</p> <p><b>Short Circuit Sub-Group</b>            The SS-37 Short-Circuit Sub-Group has continued inviting software vendors to give webinars on the capabilities of their products. ASPEN provided a webinar on August 9th, 2022, detailing updates made to the One-Liner software; Sub-Group members utilize this software and were able to ask questions to better understand the latest updates. The SS-37 Short Circuit Sub-Group will meet again during Q4 of 2022 to continue discussions on methods for achieving consistency in their models at boundary buses and share best practices.</p>





## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM STUDIES

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
SS-38	<b>Inter-Area Dynamic Analysis Working Group</b>	Assigned to analyze dynamic phenomena, which may affect interconnected system reliability, especially in the area of low frequency oscillations.
	<b>Status/ Comments:</b>	The SS 38 Working Group met in April and May 2022 and developed the draft Terms of Reference for the Under Frequency Load Shedding (UFLS) Adequacy Assessment. It was reviewed and approved by Task Force on System Studies. The Working Group will conduct an additional assessment related to increasing levels of DER on individual distribution feeders where blocks of UFLS are tripped within the UFLS program. The UFLS is expected to be completed by the end of 2023. A Status report will be provided to the RCC at its meetings.



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM STUDIES

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
SS-39	<b>Geomagnetic Disturbance Working Group</b>	Develop a White Paper recommending voluntary guidelines to address R3, R4, and R8 of NERC Standard TPL-007-4.

**Status/ Comments:**

The objectives of the Working Group are to share lessons learned as the first geomagnetic disturbance vulnerability assessment is undertaken, adopt a continuous improvement process for future GMD efforts, and update the whitepaper developed in 2021 recommending voluntary guidelines for meeting Requirement R3 and developing methodologies among NPCC members for performing the GMD Benchmark (R4) and Supplemental (R8) GMD Vulnerability Assessments as required by NERC Standard TPL-007-4.

The Working Group continues to provide high value to member utilities through education, sharing of information, and collaborative discussions. Highlights of activities in the past several months are given below.

**Presentations/Education:**

- Hydro-Quebec presented on EOP-010 practices, especially as relates to posturing HVDC circuits.
- Hydro One presented on their ongoing and highly sophisticated efforts to validate GIC models
- Siemens PTI presented on the latest features of PSSE's GIC Module, including a feature to apply a non-uniform electric field in GIC studies. The Working Group provided crucial industry feedback to further propel development of the toolsets for GIC analysis.

**Discussions/Best Practices:**

- The WG began a discussion of overhead ground wire impacts on GICs. This is an ongoing discussion topic.
- Members discussed the potential of using PMUs to measure GIC and related data.
- Members compared GIC base case development practices and approaches to modelling unplanned outages in the TPL-007 vulnerability assessment.



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM STUDIES

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
SS-40	<b>Load Modeling for Transient Stability Studies Working Group</b>	Coordinate development and assessment of load models in dynamic simulations, which include benchmarking the load models with actual system events, exploring potential impact of dynamic load models on inter-area dynamics and transfer capabilities, ensuring consistency & accuracy of load model fractions, and investigating practical methods for observability into the distribution system.
	<b>Status/ Comments:</b>	The SS 40 Working Group has developed a detailed two-year work plan which was approved by TFSS at its March meeting. This effort and the Working Group's participation supporting NERC Load Modeling Working Group is on-going.



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### TASK FORCE ON SYSTEM PROTECTION

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
SP-7	<b>Working Group on Review Of Protection System Misoperations</b>	Review and analyze misoperations of transmission and generation protection systems and special protection systems on the bulk electric system and report on the statistics of misoperations as they occur in the NPCC region including lessons learned and implementation of corrective action plans by registered entities.
	<b>Status/ Comments:</b>	<p>The Task Force on System Protection reviewed the status of SP-7 Working Group on Protection System Misoperation Review as completed through Q1 of 2022. The total number of misoperations for Q1 2022 is 35 compared to the NPCC Q1 quarterly average of 36 misoperations.</p> <p>The misoperation rate for Q1 2022 is 12.68%. This is the second highest misoperation rate reported for the past six years in Q1. The cumulative misoperation rate as of 2017 is 8.16%.</p> <p>Note that during this quarter, only 276 operations were reported compared to the Q1 quarterly average of 349 operations. This is the second lowest number of operations that were reported for the past quarters.</p>



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Reliability Assessment and Performance Analysis Program

### Eastern Interconnection Reliability Assessment Group

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
ERAG	<b>Eastern Interconnection Reliability Assessment Group</b>	The Eastern Interconnection Reliability Assessment Group (ERAG) oversees the Multi-Regional Modeling Group (MMWG) steady state and dynamics base case development, Eastern Interconnection interregional assessment activities and other interregional matters of interest.
	<b>Status/ Comments:</b>	<p><b><u>Eastern Interconnection (EI) MOD-032 Designee</u></b> A new MOD-032 designee agreement continues to be developed for execution by NERC and the EI Regional Executives to codify ERAG as the permanent MOD-032 designee. Upon receipt of the draft updated agreement from NERC, ERAG will incorporate the document into its revised ERAG agreement. Currently, ERAG is operating under an interim MOD-032 designee agreement.</p> <p><b><u>Multiregional Modeling Working Group (MMWG) Update</u></b> The MMWG Chair provided an update on activities. Key items of interest included:</p> <ul style="list-style-type: none"> <li>• The 2021 Series MMWG dynamics cases were released by the MMWG Coordinator in June 2022. The MMWG is actively determining the source of the delay and will hold bi-weekly calls with data coordinators to discuss issues of each dynamics case trial as a measure to avoid case delays.</li> <li>• The 2023 Series power flow and dynamics cases will be developed with PSSE Version 35. The MMWG Coordinator performed PSSE Version 35 testing to ensure power flow solutions and dynamic models are valid for a transition from Version 34 to 35.</li> </ul> <p><b><u>Future Studies Subgroup</u></b> A subgroup was formed to work with NERC staff to develop a list of assessments that could be undertaken. Potential topics for assessments are 1) Reserve Margins, 2) Resource Mix Changes, and 3) Black Start Capability. It was originally agreed that following development of a scope of work, NERC staff would perform the assessments and report results to ERAG members. Subsequently, it was determined that NERC staff would be unable to perform the analysis. ERAG members will continue to hold discussions regarding which assessment to undertake at the next meeting. A workshop is planned to be held in 2023 to present results of any assessment undertaken.</p> <p><b><u>NERC Acceptable Model List</u></b> ERAG members reviewed a proposal to form a new group under ERAG consisting of subject matter experts who will review and provide updates to the NERC acceptable model list from an Eastern Interconnection perspective. The new working group is expected to be functional in Q2 2023.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### Eastern Interconnection Reliability Assessment Group

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
ERAG	<b>Eastern Interconnection Reliability Assessment Group</b>	<p>The Eastern Interconnection Reliability Assessment Group (ERAG) oversees the Multi-Regional Modeling Group (MMWG) steady state and dynamics base case development, Eastern Interconnection interregional assessment activities and other interregional matters of interest.</p> <p><b><u>NERC Acceptable Model List</u></b> ERAG members discussed the benefit of forming a new group whose members will consist of subject matter experts who will review and provide updates to the NERC acceptable model list. NERC staff agreed to work with ERAG members to prepare a scope of work and further explore the formation of a group.</p> <p><b><u>Future Studies Subgroup</u></b> A subgroup was formed to work with NERC staff to develop a list of assessments that could be undertaken. Potential topics for assessments are 1) Reserve Margins, 2) Resource Mix Changes, and 3) Black Start Capability. It was agreed that following development of a scope of work, NERC staff would perform the assessments and report results to ERAG members. ERAG members also discussed the possibility of holding a webinar to present results of the assessments.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

Eastern Interconnection Reliability Assessment Group

ERAG Seasonal Working Group

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>ERAGWG</b>	<b>ERAG Seasonal Working Group</b>	The ERAG Seasonal Working Group conducts appraisals of the Eastern Interconnection. Appraisals are conducted for weather scenarios, including drought and polar vortex type conditions, to determine the impacts on power flows across the Eastern Interconnection.
	<b>Status / Comments:</b>	The ERAG Working Group remains inactive until an ERAG-conducted system study is initiated.



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### North American Electric Reliability Corporation (NERC)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>RAS</b>	<b>Reliability Assessment Subcommittee</b>	<p>Conduct an annual review of the overall reliability of the existing and planned generation and transmission system of the six 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 six Regional Reliability Entities.</p> <p><b>Status/ Comments:</b></p> <p>The NERC Reliability Assessment Subcommittee (RAS) met on April 13 - 14, 2022 to discuss the preliminary 2022 NERC Summer Reliability Assessment (SRA), the 2022 NERC Long-Term Reliability Assessment (LTRA), and planning for the 2022 NERC Probabilistic (ProbA) and NERC Winter Reliability Assessments (WRA). The RAS met on July 12 - 14, 2022, to review the preliminary 2022 LTRA submissions and conduct peer reviews of Assessment Area submissions. The RAS also recently reviewed and approved the NERC Probabilistic Assessment Working Group (PAWG)-developed, preliminary 2022 ProbA Regional Risk Scenarios. The RAS also met on August 31 – September 1, 2022 to review the 2022 LTRA preliminary ProbA Base Case Results, preliminary LTRA key findings, and held a discussion on the 2022-2023 WRA.</p> <p><b>NERC 2022 SRA</b> -The draft SRA was reviewed and finalized by the NERC RAS in Spring 2022 and endorsed by the NERC RSTC. The final assessment was released on May 18, 2022.</p> <p><b>NERC 2022-2023 WRA</b> - Preliminary narrative and data submissions, coordinated by the NPCC CO-12 and CP-8 Working Groups, are due to NERC on September 12, 2022. Following RAS, RSTC review and NERC Executive Management approval, the final assessment is expected to be released on November 17, 2022.</p> <p><b>NERC 2022 LTRA</b> - The RAS requested each Region’s assistance in assessing the long-term (10-year) reliability of their Region (as outlined in the ERO Reliability Assessment Process Document) on February 17, 2022. Initial narrative and data responses, coordinated by the NPCC CP-8 Working Group, were submitted to NERC by June 17, 2022. The RAS completed a peer review process in July 2022 and final responses were submitted by July 29, 2022. NERC is targeting a release of the public report by December 15, 2022, following the NERC RAS, NERC Reliability and Security Technical Committee, and NERC Board of Trustees review(s).</p>





## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

North American Electric Reliability Corporation (NERC)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>PAWG</b>	<b>NERC Probabilistic Assessment Working Group</b>	Advance the work initiated by the NERC Generation & Transmission Reliability Planning Models Task Force (GTRPMTF) and the Probabilistic Assessment Improvement Task Force (PAITF) in the conduct of NERC's Core probabilistic assessments. Coordinate and promote the alignment of probabilistic resource adequacy assessments conducted by the ERO and industry.
	<b>Status/ Comments:</b>	<p>The NERC Probabilistic Assessment Working Group (PAWG) met in March, April, July and August 2022 to discuss the 2022 NERC Probabilistic Assessment (ProbA) planning efforts and preliminary results. The PAWG developed the draft request documents, including data forms, narratives and schedule. The formal request was released on May 18, 2022. The PAWG is developing the Base Case ProbA dashboards and submissions for inclusion in the final 2022 NERC LTRA. The PAWG is also planning the development of the 2022 NERC ProbA Regional Risk Scenarios report, scheduled for a public release in Q2 – 2023.</p> <p>The PAWG is actively developing a whitepaper on Probabilistic Planning for Tail Risks. This whitepaper is exploring best practices and modelling approaches to extreme events in probabilistic resource adequacy planning processes and is expected to be completed in Q4 – 2022.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program North American Electric Reliability Corporation (NERC)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>TADSUG</b>	<b>Transmission Availability Data System</b>	<p>Serve as the Regional Entity Coordinator in support of the NERC TADS outage data collection and the analysis of the NPCC Transmission Owners (TO) outage information. Oversee the use of and the data entry of automatic outage information by the TO in the NERC Internet based data management tool - webTADS.</p> <p><b>Status/ Comments:</b></p> <p>The User Group holds monthly calls; the last one was conducted on August 16, 2022. The TADS User Group worked on the Data Reporting Instructions (DRI) for TADS. The 2022 DRI is now on the TADS website.</p> <p>TADS has made a recent update to its Forms which makes it so that shared inventory is linked to the associated detailed inventory and adds in functionality to assist users in creating this linkage. NERC will send out an announcement in September with training dates that will cover this specific update, it will also be covered as part of the general training in October 2022. The deadline for Q1 2022 reporting was changed to August 15 (same as Q2) due to this application update.</p> <p>NERC conducted a training on November 9, 2021. The training was comprised of ten modules. The modules were background, data entry demo, checklist completion, in service state / TADS reportable, outage types, cause codes, fault types, outage modes, outage ID and event ID Codes and examples to cause code. Training is intended for all members of industry with roles relating to TADS. Examples of roles include data gathering, data entry, and data quality reviews. Benefits of attending include learning the essentials of cause coding transmission outages as well as learning effective methods for avoiding common hurdles and best practices for TADS reporting. The training material/WebEx recording will be posted on the NERC's TADS website.</p> <p>TADSUG is planning to conduct a training in 2022. The details of the training will be announced when it becomes available.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

North American Electric Reliability Corporation (NERC)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>DADSUG</b>	<b>Demand Availability Database System</b>	Serve as the Regional Entity Coordinator in support of the DADS data collection and analysis for NPCC. Oversee the collection of the data in the NERC Internet based data management tool – web DADS.
	<b>Status/ Comments:</b>	<p>In December 2020, the DADS Working Group became the DADS User Group (DADSUG). The DADSUG performs the same functions as the DADSWG; however, it no longer reports into the NERC Committee structure. Instead, it reports to the NERC Performance Analysis Department. In response to the recent coronavirus (COVID -19) developments, NERC extended the Q1 reporting deadline for all Section 1600 applications to June 29, 2020.</p> <p>The DADS User Group worked on its Scope to develop a process for soliciting and evaluating DADS changes and recommend selected improvements, such as changes to definitions, metrics, Demand Response Programs. The DADS User Group also discussed the Severity Risk Index correlation with Demand Response Event Days. The DADS User Group has started working on clarification of DADS reporting criteria.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program North American Electric Reliability Corporation (NERC)

<u>Item</u>	<u>Name</u>	<u>Assignment</u>
GADSUG	Generator Availability Data System	Serve as the Regional Entity Coordinator in support of the Generator Availability data collection and Data System analysis for NPCC. Oversee the collection of the data in the NERC Internet based data management tool – web E-GADS.
	<b>Status/ Comments:</b>	<p>A conference call held on August 23, 2022. 2020 was the first year of having complete data for GADS Wind. Mandatory Reporting for all wind plants with a Total Installed Capacity of 75 MW or greater. The full year of the phased in reporting for GADS Wind will be completed at the end of March 2021. After the completion of phased in reporting, additional GADS wind Validations may be developed.</p> <p>In 2017, the Planning Committee requested the GADS Working Group (now GADS User Group) determine the data reporting requirements for solar data reporting, with the goal of preparing a Section 1600 data request. After the initial public comment period in 2021, the GADS Section 1600 Data Request was revised to incorporate industry feedback. A second public comment period was provided from June 21 – August 5, 2022. NERC has revised its update to the GADS Section 1600 data request to add value by expanding GADS reporting to include:</p> <p>Solar (new):</p> <ul style="list-style-type: none"> <li>• Inventory/configuration, event reporting, and performance data</li> <li>• Inventory/configuration of connected energy storage and performance data</li> </ul> <p>GADS Wind extensions:</p> <ul style="list-style-type: none"> <li>• Event reporting and connected energy storage</li> <li>• Changes to configuration data to support event reporting, and</li> <li>• Expansion of mandatory data reporting fields</li> </ul> <p>Conventional GADS extensions:</p> <ul style="list-style-type: none"> <li>• Unit design data that is comparable to the types of information being collected for wind and solar</li> <li>• Contributing Operating Conditions Code</li> </ul>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program North American Electric Reliability Corporation (NERC)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>MIDASUG</b>	<b>Misoperation Data Analysis System User Group</b>	<p>Serve as the Regional Entity Coordinator in support of the Misoperation data collection and Data System analysis for NPCC. Oversee the collection of the data in the NERC Internet based data management tool – MIDAS.</p> <p><b>Status/ Comments:</b></p> <p>The 2022 MIDAS Data Reporting Instructions have been posted to NERC’s website. This is the official published version of the document for 2022, not a draft. This document is intended only to provide guidance for MIDAS reporting as detailed in the Section 1600 Data Request, it is not intended as guidance for any NERC Standards Compliance. This document should be used for topics such as identifying Composite Protection Systems that should be reported in MIDAS, determining the number of Composite Protection System Operations to report quarterly, identifying and coding Misoperations, etc.</p> <p>MIDASUS will conduct another training by the end of 2022. The purpose of the Misoperations reporting and MIDAS Portal training is to assist reporters in using a uniform approach to reporting misoperations and protection system operations using the Misoperation Information Data Analysis System (MIDAS) portal. Benefits of attending include learning the essentials of reporting misoperations as well as learning effective methods for avoiding common hurdles and best practices for MIDAS reporting.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Reliability Assessment and Performance Analysis Program

#### OTHER

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
IPSAC	<b>Interregional Planning Stakeholder Advisory Committee</b>	The Interregional Planning Stakeholder Advisory Committee (IPSAC) is an open stakeholder group that provides input for the development of the Northeast Coordinated System Plan (NCSP). The NCSP outlines activities conducted jointly by ISO New England, New York ISO, and PJM.
	<b>Status/ Comments:</b>	The IPSAC held a WebEx meeting on May 16, 2022. Agenda items included a presentation of the Regional Planning Needs and Solutions update from PJM, ISO New England, and the New York ISO; discussion of Interconnection Queue coordination; and the draft NCSP 21 Scope. The next stakeholder meeting is anticipated for Fall, 2022.



# 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><b>Status/ Comments:</b></p> <p>The CO-10 Working Group continues to review of tool failures and associated lessons learned as generated from the NERC Event Analysis Program and develops regional insights templates from the review of NERC EMS/SCADA lessons learned to further aid NPCC entities in utilizing these valuable lessons.</p> <p>The Critical Operational Tool Failure Analysis report was finalized at the Working Group’s February 10-11, 2022 meeting with the intention of presenting it to the Task Force on Coordination of Operation (TFCO) at its March 2022 meeting. However, due to full TFCO agenda, that the presentation be postponed until the May 11-12, 2022 TFCO meeting. The CO-10 WG presented at the May 11-12, 2022 TFCO meeting its biennial <i>Critical Operating Tool Failure Analysis (COTFA) Report</i>, which included an analyses of operating tool failures during the 2020-2021 calendar years.</p> <p>The Working Group also conducted a review of the C-46 Document <i>Procedure for Operations Planning Model Data Exchange</i>” as per the schedule for the comprehensive, triennial review. Suggested redlines to the C-46 document were approved by the TFCO to post for comment in the NPCC Open Process at the TFCO’s May 11-12, 2022 meeting. The revised C-46 document was posted for a 45-day comment period on June 22, 2022, which concluded on August 5, 2022. The CO-10 Working Group is currently reviewing the comments received during the open process and is developing responses to the comments and any conforming changes to the C-46 document, as needed. TFCO will review the responses and latest revision to the C-46 document developed by CO-10 Working Group at their December 2022 meeting.</p> <p>The CO-10 Working Group is reviewing the findings from the “<i>FERC and ERO Enterprise Joint Report on Real-time Assessments</i>” and is scheduled to present its feedback to the TFCO at their October 2022 meeting.</p>



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Situation Awareness and Infrastructure Security Program

#### TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY (TFIST)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
IST-1	<b>Infrastructure Security and Technology (TFIST) Workshop</b>	Periodic workshops presentations to address timely issues and update member system personnel associated with the provision of on-line computer systems for operation of the power system. <b>Last Workshop:</b> November 2019
	<b>Status/ Comments:</b>	The Task Force on Infrastructure Security & Technology (TFIST) presented at NPCC’s Fall 2019 Standards & Compliance Workshop. TFIST expected to present at the NPCC’s 2020 and 2021 Standards & Compliance Workshops and 2022 Spring Workshop; however, the virtual workshop format did not allow time for a TFIST update. The TFIST expects to present at NPCC’s Fall 2022 Standards and Compliance Workshop.
<b>Item</b>	<b>Name</b>	<b>Assignment</b>
IST-2	<b>Telecommunications Working Group</b>	Provide a forum to identify, discuss and advance the technology of Telecommunications Infrastructure for the reliable operations of the NPCC Bulk Power System. The Telecommunications Working Group (IST-2) will also support the Task Force on Infrastructure Security & Technology in their work on issues related to Telecommunications.
	<b>Status/ Comments:</b>	At the RCC’s June 2022 meeting the 2021 Annual Report was accepted. The IST-2 Working Group continues to support this testing.





## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Situation Awareness and Infrastructure Security Program

#### TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY (TFIST)

**Item**  
IST-4

**Name**  
Cyber Security

**Assignment**

The purpose of the Cyber Security Working Group is to address specific cyber security issues that are assigned by the TFIST. Although these cyber security topics are assigned by the TFIST, they may be developed by any Task Force or Working Group that require a response or a coordinated effort between Task Forces regarding a cyber security matter.

**Status/ Comments:**

At its August 14-15, 2019 meeting, the Task Force on Coordination of Operation (TFCO) discussed the recently filed for regulatory approval CIP-012-1 standard and its implementation plan. TFCO members agreed that the impacted NPCC RCs, BAs and TOPs would benefit from a coordinated approach to meeting the requirements of the CIP-012-1 standard. On November 10, 2019, the TFCO requested TFIST consider standing-up ad-hoc Working Group IST-4.

IST-4's whitepaper was posted for Open Process comments from June 14, 2021 to July 29, 2021. The Task Force on Infrastructure Security and Technology (TFIST) endorsed IST-4's responses which did not change the whitepaper. In August 2021, TFIST and TFCO separately endorsed the CIP-012 Whitepaper for Reliability Coordinating Committee's (RCC) approval. The RCC approved this whitepaper at its September 8, 2021 meeting. This whitepaper is available on the public portion of the NPCC web site.

The IST-4 Working Group reviewed EIDSN and CIP-012 Requirements with NPCC CIP Compliance.



## RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

### Situation Awareness and Infrastructure Security Program

#### TASK FORCE ON INFRASTRUCTURE SECURITY AND TECHNOLOGY (TFIST)

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
IST-5	<b>Physical Security Working Group (PSWG)</b>  <b>Status/ Comments:</b>	<p>The Physical Security Working Group exchanges information regarding approaches to physical security to enhance the reliability and resiliency of the BPS. The Physical Security Working Group (IST-5) also supports TFIST in their work on issues related to Physical Security.</p> <p>The Working Group continues to hold quarterly meetings (and ad hoc conversations, as needed) focused on discussion of events, emerging threats, trends and new security technologies and strategies utilized by NPCC members for the protection of their facilities in the physical arena. Member entities continue to contribute changes and adaptations that are needed to their Security plans as new issues and situations arise. The last meeting was held on June 23, 2022. Highlights included a discussion by the AGA-Managing Director, Security and Operations on various relevant security related activities in the gas sector and discussion of plans by Avangrid to organize and host a Fall 2022 threat discussion to be held in Boston, MA. The Q3 PSWG meeting is scheduled for September 22 2022.</p>



# RELIABILITY ASSESSMENT PROGRAM HIGHLIGHTS

## Administrative Services

### MEMBERS' FORUMS

<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>General</b>	<b>NPCC General Meeting</b>	To promote the reliable and efficient operation of the interconnected bulk power systems in Northeastern North America, NPCC invites high level policy makers from Federal, Provincial, and State regulatory and/or Governmental authorities and senior executives within NPCC to identify and discuss emerging issues related to the reliability of the NPCC Region.
	<b>Status/ Comments:</b>	Due to the current COVID-19 pandemic, the timing of next the NPCC General meeting will be reviewed later in 2022.
<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>Gov/Reg</b>	<b>NPCC Governmental Regulatory Affairs Advisory Group</b>	To provide a forum where industry and governmental and/or regulatory representatives can exchange views and strive to develop consensus policy recommendations on reliability issues specific to the NPCC Region and share actionable information related to regional energy and reliability matters.
	<b>Status/ Comments:</b>	Due to the current COVID-19 pandemic, the timing of the next NPCC Governmental/Regulatory Affairs Advisory Group meeting will be reviewed later in 2022.
<b>Item</b>	<b>Name</b>	<b>Assignment</b>
<b>PIC</b>	<b>Public Information Committee</b>	To highlight and summarize NPCC activities and accomplishments and disseminate appropriate information to the media, as well as respond to related requests for information.
	<b>Status/ Comments:</b>	NPCC continues to participate in communications coordination with NERC and the Regions. On May 5, 2022, the <i>NPCC 2022 Summer Reliability Assessment</i> Media statement was released.