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NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

Reliability and Security Technical Committee Meeting

March 4, 2020

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Election of Nominating Subcommittee

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The RSTC Charter provides that the Nominating Subcommittee comprise of the Committee Vice Chair and four additional members. The RSTC Executive Committee proposes the following members for the Nominating Subcommittee

- David Zwergel, RSTC Vice Chair
- Todd Lucas
- Wayne Guttormson
- Sandra Ellis
- Jodirah Green

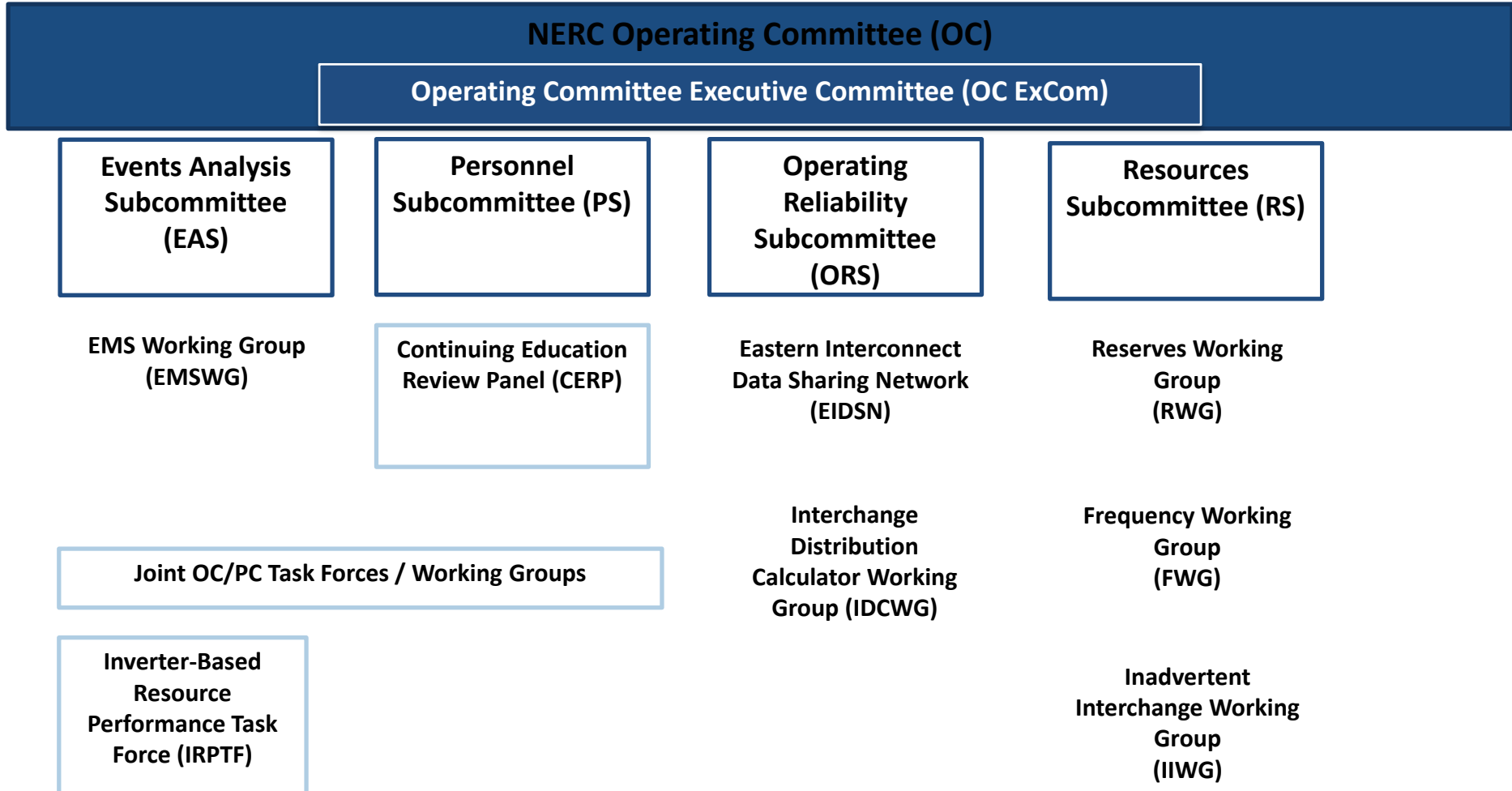
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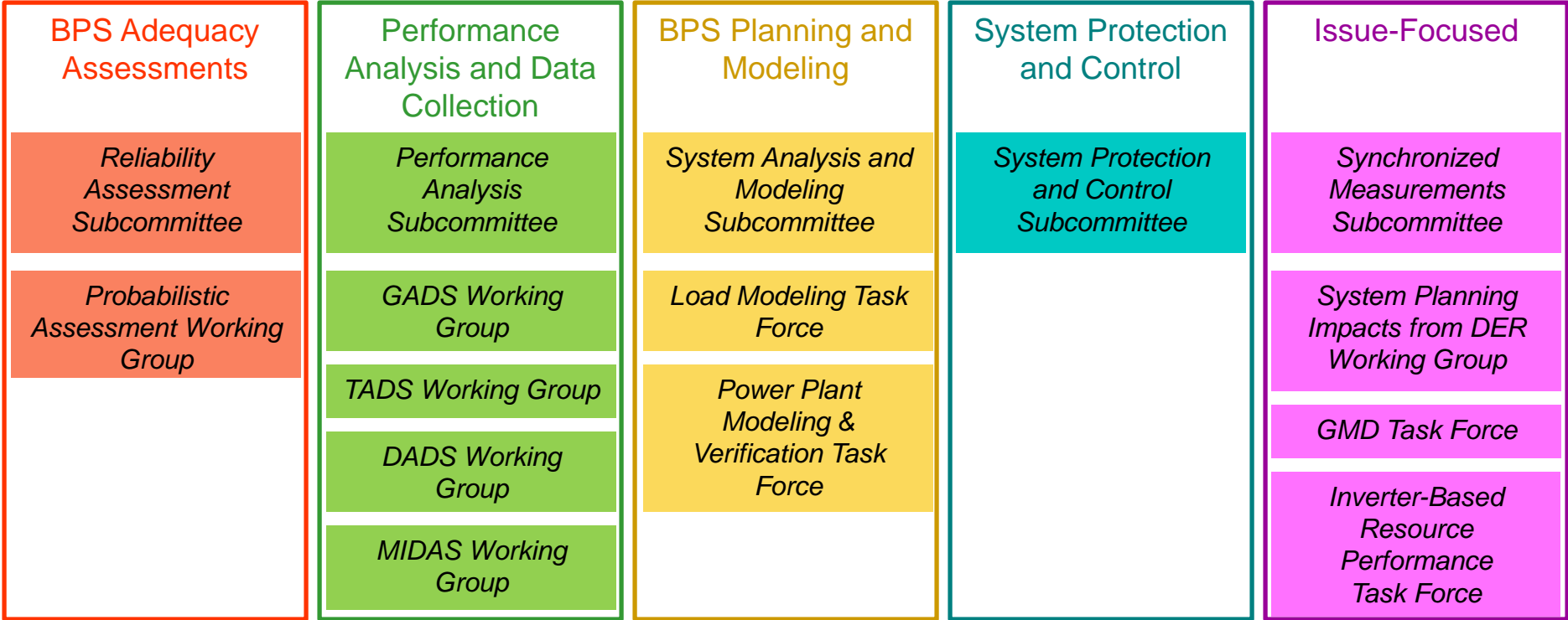
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Committee Organization Charts

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NERC Critical Infrastructure Protection Committee (CIPC)

CIPC Executive Committee (CIPC EC)

Physical Security Subgroups

Physical Security Advisory Group (PSAG)

Physical Security Working Group (PSWG)

Cybersecurity Subgroups

Security Training Working Group (STWG)

Remote Access Guideline Task Force (RAGTF)

Operating Security Subgroups

Grid Exercise Working Group (GEWG)

Supply Chain Working Group (SCWG)

Policy Subgroups

Compliance Input Working Group (CIWG)

Security Metrics Working Group (SMWG)

Joint CIPC/OC/PC Task Forces / Working Groups

Events Analysis

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RSTC Transition Plan

Greg Ford, Chair, RSTC
RSTC Meeting
March 4, 2020

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<i>Workplan</i>	<i>CIPC</i>
<i>In-flight Projects</i>	
<i>Iterative Projects</i>	

<i>Workplan</i>	<i>OC</i>
<i>In-flight Projects</i>	
<i>Iterative Projects</i>	

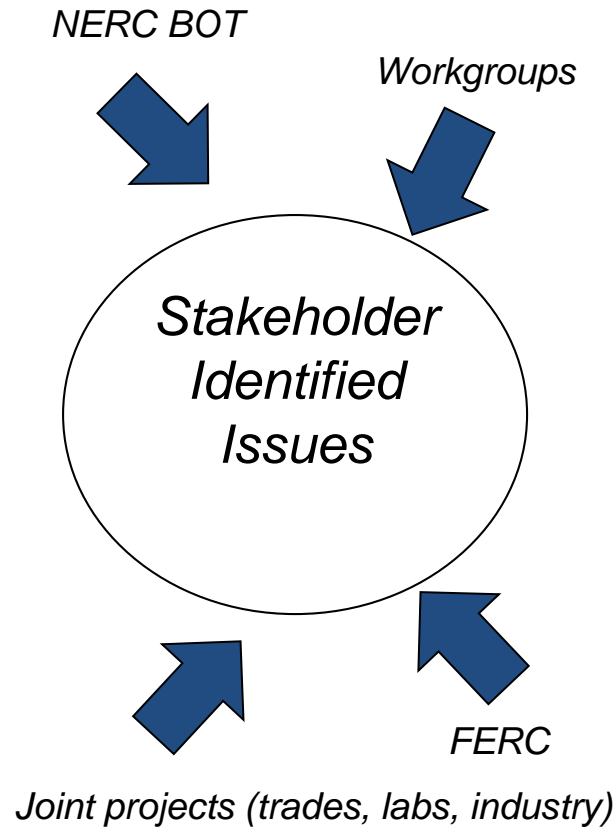
<i>Workplan</i>	<i>PC</i>
<i>In-flight Projects</i>	
<i>Iterative Projects</i>	



Day One

**RSTC
 Work
 Portfolio /
 Project
 Pipeline**

RISC Report Section			
G r i d T r a n s f o r m a t i o n	E x t r e m e N a t u r a l E v e n t s	S e c u r i t y	C r i t i c a l I n f e r n a t i o n a l S e c u r i t y



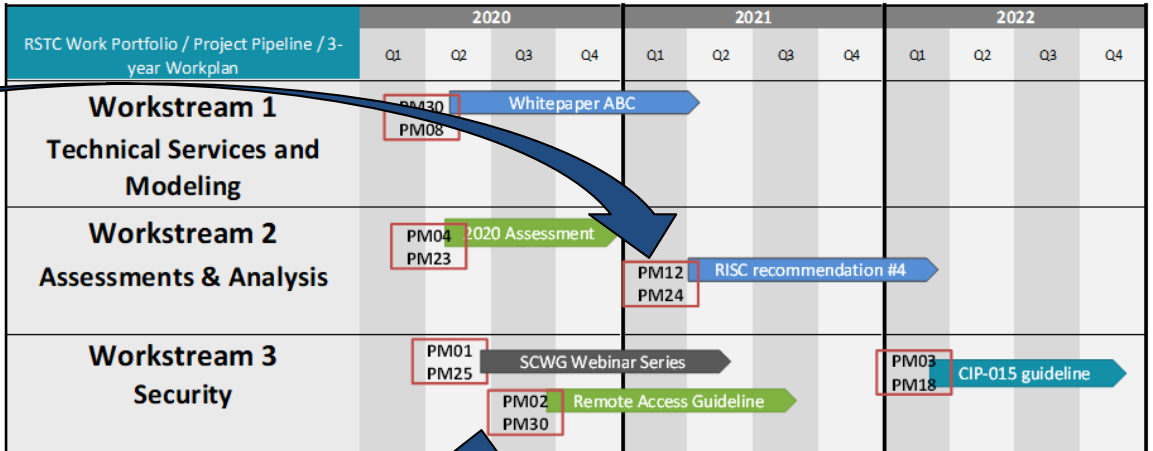
Day Two+

**RSTC
 Work
 Portfolio /
 Project
 Pipeline**

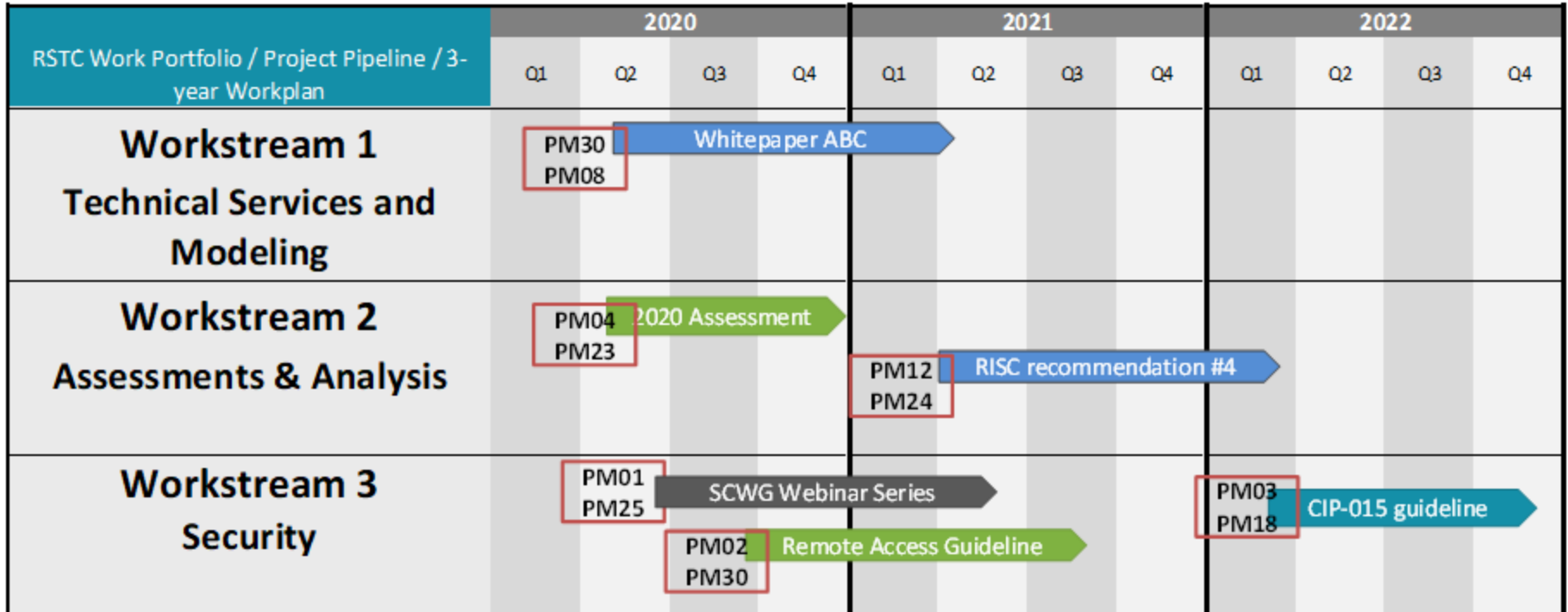
RSTC Work Portfolio / Project Pipeline

RSTC Executive Committee

RSTC Voting Member	Expertise			
	Sys Ops	Cyber	Physical	Planning
PM01	X			
PM02		X		
PM03			X	
PM04				X
PM05			X	X
PM06		X		
PM07	X			
PM08		X		
PM09			X	
PM10	X			X
PM11			X	
PM12		X		
PM13	x			
PM14				X
PM15			X	
PM16				X
PM17			X	
PM18		X		
PM19	x	X		
PM20		X		
PM21			X	
PM22	X			X
PM23			X	
PM24		X		
PM25	x		X	
PM26		X		
PM27			X	
PM28				X
PM29	X		X	
PM30		X		
PM31	x			
PM32		X	X	



Assign Project Managers



Updated Quarterly

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Policy Input and Industry Comments Resolution and Tracking

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Action	Implementation Efforts
Develop plans to continue high value efforts of OC, PC, and CIPC	
Evaluation of OC, PC, and CIPC Work Plans for input to RSTC Work plan	
Develop enhanced logistics for RSTC subgroups reporting before and during RSTC meetings	
Consider how challenges related to RSTC recruitment and leadership continuity may be best approached, given the cross-cutting nature of the model	
Consider how challenges related to agenda-setting and issue prioritization may be best approached, given the cross-cutting nature of the model	
Refer matters as appropriate to the E-ISAC for assistance to leverage existing support and resources within NERC for its “Cyber and Physical Security” function.	
Consider how to ensure adequate Canadian membership and mandates to include North American perspectives, when relevant, for the subcommittees, working groups and taskforces the RSTC would oversee	
Ensure that proposals arising from this restructuring, and from overall effectiveness and efficiency initiatives, complement and reinforce each other, and leverage existing areas of support within NERC	
Ensure effective collaboration and efficient use of all ERO and industry resources. Organizations such as the North American Transmission Forum and the North American Generation Forum are critical to the ERO Enterprise’s mission and the RSTC should determine how to effectively engage them.	
Consider renaming the RSTC to the Security and Reliability Technical Committee (SRTC) to prevent confusion with the RISC	RSTC membership will evaluate and determine final name

Action	Implementation Efforts
<p>Large Consumers agree that for purposes of having adequate participation, a sector seat can be converted to an at-large seat on a temporary basis only. However, sector balance must remain an objective during the selection process for any such residual at-large seats.</p>	<p>Evaluate balanced membership during election process</p>
<p>Large Consumers support a timeline extension and stress that as implementation occurs any subsequent timeline adjustments should be considered to ensure quality is not sacrificed for expediency.</p>	
<p>RSTC and RISC committees could contribute to establishing the long term strategy of ERO and NERC annual Business Plan.</p>	
<p>Encourage NERC to host the first few meetings of the RSTC in facilities that would not significantly reduce observers in person participation and to develop additional events to meet the industries desire for collaboration, training and education that has been occurring during the existing technical committee meeting.</p>	
<p>The NAGF understands the functional model proposed and would be very interested in participating on the RSC as a means to continue the forums collaborative support of the ERO.</p>	
<p>Recommend that WebEx/Teleconference capabilities be available for the open RSTC meetings in order to support broad and efficient industry access to the provided discussions.</p>	
<p>During the overlap between the first RSTC administrative meeting in March 2020 and the final meeting of the OC, PC, and CIPC in June, the RSTC should inventory and evaluate the activities of the existing Technical Committees and the associated underlying committees' structure to determine which activities should continue and how to manage retiring those that are no longer needed.</p>	

Action	Implementation Efforts
<p>At some future date after implementation of the RSTC, the NERC Board should review the role of the RISC and identify whether the prioritization and identification of emerging BPS reliability risk prioritization functions of the RISC can or should be rolled into the Charter of the RSTC.</p>	
<p>A specific statement regarding the metrics to be used to assess sector size should be provided at some early point in the transition process. We note that the reference to sector size is in the SET report, but not mentioned in the RSTC charter as it relates to the Nominating Subcommittee. We ask that the BoT reconcile this difference upon approval and clarify the intent of sector size and the metric to be used for allocating At Large positions.</p>	
<p>Maintaining utility technical expertise will be paramount to the RSTC's success.</p>	<p>Evaluate as part of the sector and at-large appointments.</p>
<p>Structured engagement of the OC, PC and CIPC is needed.</p>	<p>Inclusion of the OC/PC/CIPC leadership in early round RSTC Leadership calls and in-person meetings. Working with OC/PC/CIPC leadership in consolidation of work plans as well as evaluation of the current sub-committees and working groups to determine overlap and appropriate consolidation for continued efficiency and effectiveness.</p>
<p>RSTC nominations, selections, and election results need sufficient transparency.</p>	<p>Posting to web-site as nominations are received; including sector results in the presentation to the Joint committee meeting.</p>

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RSTC Transition Plan Activities

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Questions for Consideration	Proposed Actions	Assignment	Target Completion	Status
<ul style="list-style-type: none"> • How will we understand, assign, track, oversee, and manage all RSTC sub teams' significant activities? • What is different from what the OC, PC, and CIPC do now? • What best practices from OC, PC, and CIPC should we merge into RSTC practices? • What might we do during a transition period vs longer term? 	<ul style="list-style-type: none"> • Align current subgroups/working groups by work products/ initiatives to assist in discussions on reducing to a manageable number by the RSTC • Look at RISC report and assignments to determine objectives for transition versus longer-term. 	<ul style="list-style-type: none"> • Stephen/Tina to complete first draft at alignment of subgroups/ working groups • 		

Activity 2: RSTC Subgroup and Other Forums Quarterly Status Reports

Questions for Consideration	Proposed Actions	Assignment	Target Completion	Status
<ul style="list-style-type: none"> • What will be the criteria/schedule for reporting verbally during the RSTC meetings in addition to providing their written reports ahead of time? • Regulatory • Forums 	<ul style="list-style-type: none"> • Create a RSTC subgroup report template, either creating a word document or use combined work plan spreadsheet • Regulatory reports based on items/initiatives of interest (ex., June FERC Technical Conf) • Forums (NAGF, NATF) provide quarterly reports similar to reports provided at prior standing committee meetings 	<ul style="list-style-type: none"> • Stephen/Tina to draft RSTC subgroup report template; Executive Committee complete first review at March or April Meeting 		

Questions for Consideration	Proposed Actions	Assignment	Target Completion	Status
<ul style="list-style-type: none"> • What expectations should we communicate to the RSTC subteams including any changes on how they carry out and report on their work? • How will the committee keep members, observers, and subgroups/ working groups informed • Evaluate and assign activities based on committee purpose and objectives 	<ul style="list-style-type: none"> • Use work plans to set expectations on subteam work • Status information on RSTC activities will be provided during open meetings, via meeting minutes and the quarterly written reports to the Board • Assignment of activities - Determine engagement level and maximize based on terms, skills/ experience, etc. 	<ul style="list-style-type: none"> • VC Zwergel to draft talking points for orienting the committee on expectations of the committee and purpose 		

Questions for Consideration	Proposed Actions	Assignment	Target Completion	Status
<ul style="list-style-type: none"> • Do we need this? The OC Plan is updated every 2 years and reviewed off years. • Should Committee utilize ERO Enterprise Strategic Plan 	<ul style="list-style-type: none"> • Evaluate value add of a RSTC Strategic Plan 	<ul style="list-style-type: none"> • Executive Committee to review and provide recommendation to full committee 		

Questions for Consideration	Proposed Actions	Assignment	Target Completion	Status
<ul style="list-style-type: none"> • Create an annual work plan 	<ul style="list-style-type: none"> • Evaluate and encompass the OC, PC, and CIPC work plans, NERC RISC report, NERC Strategic Plan, and NERC 2020 Work Plan Priorities • Consider best practices for agenda setting and prioritization of objectives/tasks 	<ul style="list-style-type: none"> • Gather input from committee members at March meeting • Executive Committee to create first draft and present at June meeting 		

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RSTC Agenda Template Review

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DRAFT Agenda Reliability and Security Technical Committee

XXXXXXXXXXXX Y, 2020 | 1:00 – 5:00 p.m. Eastern Time
 XXXXXXXXXXXX Z, 2020 | 8:00 a.m. – 12:00 p.m. Eastern Time

Hotel TBD
 Address TBD
 City TBD

Call to Order

NERC Antitrust Compliance Guidelines and Public Announcement

Introductions and Chair's Remarks

1. Administrative items
 - a. Arrangements
 - i. Safety Briefing and Identification of Exits (Hotel Staff)
 - b. Announcement of Quorum
 - c. Background Information
 - d. Reliability and Security Technical Committee (RSTC) Membership 2020-2023*
 - i. [RSTC Roster*](#)
 - ii. [RSTC Organization](#)
 - iii. [RSTC Charter](#)
 - iv. Parliamentary Procedures*
 - v. [Participant Conduct Policy](#)
 - e. Future Meetings

2020 Meeting Dates	Time	Location	Hotel
June 10, 2020	1:00 to 5:00 p.m.	TBD	TBD
June 11, 2020	8:00 a.m. to 5:00 p.m.	TBD	TBD
September 15, 2020	1:00 to 5:00 p.m.	TBD	TBD
September 16, 2020	8:00 a.m. to 5:00 p.m.	TBD	TBD
December 15, 2020	1:00 to 5:00 p.m.	TBD	TBD
December 16, 2020	8:00 a.m. to 5:00 p.m.	TBD	TBD

Consent Agenda – Approve

2. Minutes and other documents*
 - a. Meeting minutes/date
 - b. Revised Reliability Guidelines/Reference Documents
 - c. Revised Scope documents
 - d. Revised Strategic Plan
 - e. Other

Regular Agenda

3. Remarks and Reports
 - a. Remarks - Greg Ford, RSTC Chair
 - b. Report of most recent Member Representatives Committee (MRC) Meeting and Board Meeting – Chair Ford
4. RSTC Action Items Review* - Information – Vice Chair Zwergel
5. RISC Profile Updates – February, 2018 and November, 2019 reports (combine common profiles)
 - a. List each RISC Report Risk Profile with subcategories:
 - i. Operations
 - ii. Planning
 - iii. Cyber Security
 - iv. Physical Security
6. Subcommittee Status Reports – Select each subcommittee to provide a complete update twice per year? Stagger the meetings for these. (Half at June/December, Half at March/September)
 - a. Operating Reliability Subcommittee (ORS)*
 - b. Resources Subcommittee (RS)
 - c. Event Analysis Subcommittee (EAS)
 - i. EMS Working Group
 - d. Personnel Subcommittee (PS)
 - e. Reliability Assessment Subcommittee (RAS)
 - f. Electric-Gas Working Group (EGWG)
 - g. Geomagnetic Disturbance Task Force (GMDTF)
 - h. Inverter-Based Resource Performance Task Force (IRPTF)
 - i. Performance Analysis Subcommittee (PAS)

- i. Demand Response Availability Data System Working Group (DADSWG)
 - ii. Generating Availability Data System Working Group (GADSWG)
 - iii. Misoperation Information Data Analysis System Working Group (MIDASWG)
 - iv. Transmission Availability Data System Working Group (TADSWG)
 - j. Reliability Assessment Subcommittee (RAS)
 - i. Probabilistic Assessment Working Group (PAWG)
 - k. System Analysis and Modeling Subcommittee (SAMS)
 - i. Load Modeling Task Force (LMTF)
 - ii. Power Plant Modeling and Verification Task Force (PPMVTF)
 - l. System Protection and Control Subcommittee (SPCS)
 - m. Synchronized Measurement Subcommittee (SMS)
 - n. System Planning Impacts from Distributed Energy Resources Working Group (SPIDERWG)
 - o. Security Training Working Group (STWG)
 - p. Grid Exercise Working Group (GEWG)
 - q. Supply Chain Working Group (SCWG)
 - r. Physical Security Working Group (PSWG)
 - s. Compliance Input Working Group (CIWG)
7. 2020 Subcommittee Work Plans – Combine this with RISC Profiles?
 8. Reliability Issues Steering Committee (RISC) Status Report – Information – Chair Zwergel
 9. EAS Annual Update of Events, Cause Codes and Trends - Information (*December meeting*)
 10. RSTC Strategic Plan Review Team* – Approval – Vice Chair Zwergel
 11. Standards Update – Information – NERC Staff
 12. Task Force Updates
 - a. Inverter-based Resources Task Force – Information – Allen Schriver, IRPTF Chair
 - b. System Planning Impacts from Distributed Energy Resources Working Group (SPIDERWG) Information – Ryan Quint, NERC Staff
 - c. Others?
 13. Forum and Group Reports - Information
 - a. North American Generator Forum – Allen Schriver
 - b. North American Transmission Forum – Ken Keels
 14. Chair's Closing Remarks

15. Adjournment

*Background materials included.



Questions and Answers

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RISC Status Report and Coordination Information

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North American Generator Forum RSTC Update

Allen D. Schriver, P.E.
Senior Manager NERC Reliability Compliance
NextEra Energy

and

COO North American Generator Forum

Allen.Schriver@nexteraenergy.com

March 4, 2020

NAGF Mission



The NAGF mission is to promote the safe, reliable operation of the generator segment of the bulk electric system through generator owner and operator collaboration with grid operators and regulators.

Agenda



- **NERC Standard Drafting Teams**
 - **PRC-005**
 - **Winterization**

- **Collaboration With NATF**
 - **Supply Chain**
 - **Resilience**

- **NPCC DER**

- **IRPTF/IEEE P2800**

NERC Standard Drafting Teams



➤ PRC-005

- Revise PRC-005-6 to clearly delineate the applicability of Protection Systems associated with AVR protective functions.
- Needs to clearly limit the scope of the AVR protective functions to those elements that open a breaker directly or via lockout or tripping auxiliary relays.

➤ Winterization

- Enhance the process and communications.
- Recognize all plants are a unique design, face different weather challenges and may have low capacity factors .

NAGF Collaboration With NATF



➤ Supply Chain

- Collaborating with NATF and other industry organizations to provide a streamlined, effective, and efficient industry-accepted approach to assess supplier cyber security practices to enhance cyber security.
- Model to reduce supplier burden so efforts with purchasers can be prioritized and entities provided information effectively and efficiently.

➤ Resilience

- NAGF was invited to attend a pilot of the NATF Transmission Resilience Maturity Model (TRMM). NAFG to begin working with the NATF to develop a similar model to be used by GO/GOP's to evaluate their resiliency policies and programs.

➤ NPCC DER

- Work with NPCC DER Forum to identify challenges/opportunities for DER “grid edge” resources installed on the Distribution System, to promote understanding and support reliable integration.

➤ IRPTF/IEEE P2800

- Technical Report: Energy Transition to High IBR
 - Goal: Provide visionary technical report and roadmap of how to manage a BPS with increasing penetration of BPS-connected inverter-based resources.
- Reliability Guideline: EMT Modeling and Simulations
 - Goal: Provide industry with clear guidance and recommendations for use of EMT models and performing EMT simulations.
- Reliability Guideline: BESS and Hybrid Plant Performance, Modeling, Studies
 - Goal: Provide industry with clear guidance and recommendations for battery energy storage and hybrid plant performance, modeling, and studies.

Q & A



Thank you!

www.GeneratorForum.org



Community Confidentiality Candor Commitment

NATF Update

NERC RSTC Meeting

March 4, 2020

Roman Carter

**NATF Director- Peer Reviews, Assistance, Training
& Knowledge Management**

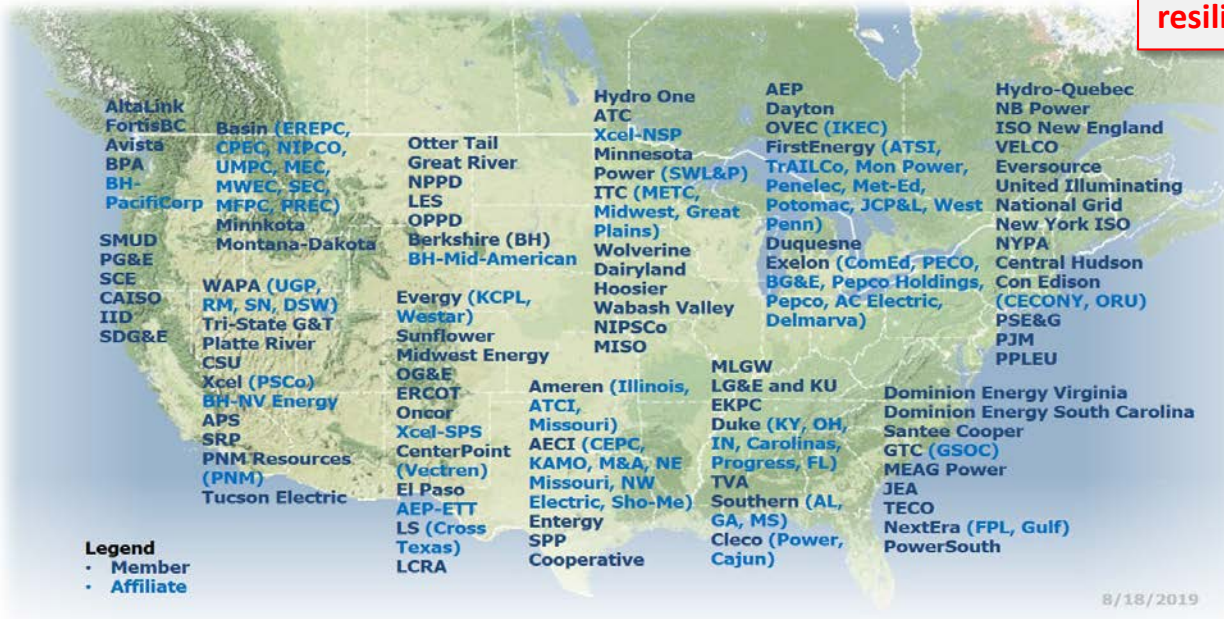
rcarter@natf.net; 704-945-1920

Open Distribution

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NATF Overview

NATF is a nimble and impactful provider of leading industry practices for reliability, security, and resilience of the bulk power system.



89 members
73 affiliates

IOUs
 Federal/Provincial
 Cooperatives
 State/Municipal
 ISOs/RTOs

Coverage (US/Canada): ~80% miles 200 kV+
 ~90% net peak demand

NATF Revised MOU Focus/Role

- NATF-NERC Memorandum of Understanding (April 2019)
 - advance mutual objectives and collaboration
 - leverage respective and collective strengths
 - minimize duplication of effort
- Respective roles:

ERO
<ul style="list-style-type: none">• identify existing and emerging risks to reliability• facilitate strategies and activities to address the identified risks

NATF/Industry
<ul style="list-style-type: none">• characterize and validate the identified risks• implement appropriate strategies and activities among members to support mitigation of the identified risks

Solution Provider

NATF Solution Provider

- NATF is pre-qualified organization to submit Implementation Guidance under the NERC BOT Compliance Guidance Policy
- NATF Implementation Guidance submitted to date:
 - CIP-014-2 R1 *Physical Security Risk Assessment* (March 2017) – **ERO Endorsed**
 - MOD-033-1 *Methodology Reference Guide* (March 2017) – **ERO Endorsed**
 - CIP-014-2 R4 *Evaluating Potential Physical Security Attack* (Sept 2017) – **ERO Endorsed**
 - CIP-014 R5 *Physical Security Plans* (Sept 2017) – **ERO Endorsed**
 - CIP-010-3 *Software Integrity and Authenticity* (November 2017) – **ERO Endorsed**
 - CIP-013-1 *Implementation Guidance - Reliance on Independent Assessments* (April 2019) – **ERO Endorsed**
 - CIP-005-6 *Vendor Remote Access Guidance* (December 2019) – **Proposed**

47

NATF Ongoing ERO Collaboration

- NATF-EPRI-NERC Resiliency Summits
 - NATF-EPRI host since 2013
 - NERC joined in 2019
- NATF-EPRI-NERC Planning and Modeling Workshops
 - Joint effort since 2017
- Electric Power Human Performance Improvement Symposium
 - Collaborating since 2017
- RF and SERC “Pilot” Facility Rating and Supply Chain

Pilot Collaboration with RF and SERC - Facility Ratings

ERO provides a problem statement; NATF confirmed importance to commence action

RF and SERC shared survey results with NATF identifying gaps

NATF publication of Facility Ratings Best Practice addressing gaps

NATF member webinar(s) on facility ratings practices

- Using the NATF practice document
- Assigning accountabilities
- Developing various process maps and related controls
- Taking field actions to baseline performance

NATF develops module to add to peer reviews to encourage best practice

•Evaluate member progress

Conduct NATF workshop on Facility Ratings

Pilot Collaboration with RF and SERC – **Supply Chain**

Announcements and registration information coming soon!

Conduct Regional Workshops on Entity Mitigation Practices for Supply Chain Risks to:

- Focus on security, not on compliance/standards or on evaluation/risk assessment of suppliers
 - How entity action to reduce risk fits into supplier assessment model
 - Create awareness of actions, controls, and practices for network systems to detect, prevent, and correct risk
-
- **Risk areas expected to be focused on in the workshops:**
 - Counterfeit or compromised software, firmware, or hardware
 - Unauthorized or false (via compromised credentials) supplier or system-to-system remote access

NATF's Objectives for Supply Chain Activities

Industry Convergence

Achieve industry convergence on the approach (Model) to facilitate addressing:

- **Security**
 - Identifying and addressing cyber security risks introduced via supply chain
- **Efficiency and Effectiveness**
 - Convergence on common approaches to achieve reasonable assurance of suppliers' security practices
- **Compliance**
 - Implementation guidance to meet supply chain related CIP standards (CIP-013-1; CIP-005-6 R2.4; CIP-010-3 R1.6)

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NATF “Open” Supply Chain Activities

- NATF developed and shared best practices (August 2017)
- NATF Cyber Security Supply Chain Risk Management Guidance (June 2018)
- NATF Implementation Guidance
 - CIP-010-3 Software Integrity and Authenticity (November 2017) – ERO Endorsed
 - CIP-013-1 Implementation Guidance (April 2019) – ERO Endorsed
 - CIP-005-6 Vendor Remote Access Guidance (December 2019) – Proposed
- NATF Criteria Version 0 (July 2019)
 - NATF Criteria Application Guide
- NATF Proof of Concept Team Strawman Model for Supplier Assessment (October 2019)
- Industry Organizations’ Coordination and Alignment on Supplier Assessment Model (December 2019-February 2020)
 - NATF Criteria Version 1
 - Supplier Cyber Security Assessment Model
 - EEI Model Procurement Contract Language Update
 - NATF-hosted Webpage for Supply Chain Industry Coordination
 - Industry-wide and ERO staff webinars
- Supplier Cyber Risk Assessment Questionnaire/Additional Projects and Activities (In Progress)

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NATF-hosted web page for Industry Coordination

The screenshot shows the NATF Forum website. At the top left is the logo for North American Transmission FORUM. To its right is contact information: +1 (704) 945-1900, 9115 Harris Corners Parkway, Suite 350 Charlotte, NC 28268, and info@natf.net. On the top right, there are buttons for 'TransPort' and 'Request TransPort Access', and a search bar. A navigation menu below the header includes 'Home', 'About', 'Membership', 'Programs', 'Industry Initiatives' (circled in blue with a red arrow pointing to the 'Supply Chain Cyber Security Industry Coordination' link), 'Activities', 'News', 'Documents', and 'Contact'. The main content area is titled 'Supply Chain Cyber Security Industry Coordination' and 'The Industry Organizations Collaboration Effort'. It contains several sections: 'The Model' with links to 'The NATF Supplier Cyber Security Model Assessment Overview', 'Supplier Cyber Security Assessment Model', 'NATF Cyber Security Criteria for Suppliers (Version 1)', and 'Supplier Cyber Risk Assessment Questionnaire (coming soon)'; 'Resources' with links to 'Contributing Organizations', 'Related Government Activity', 'NERC Supply Chain Risk Mitigation Program Initiatives Webpage', and 'EEl Model Procurement Contract Language Addressing Cybersecurity Supply Chain Risk'; 'Projects' with links to 'Projects/Activities (in Progress or Upcoming)' and 'Completed Projects/Activities'; 'Upcoming Meetings and Activities' listing 'March 2 - NERC Supply Chain Working Group Meeting in Atlanta', 'March 3 - NERC CIPC Supply Chain Training Workshop', 'March 3 - NERC CIPC Meeting in Atlanta', and 'April 14-16 - EEl Supply Chain Security Conference'; and 'Announcements' dated 'February 03, 2020' with the title 'NATF Launches Industry Coordination Webpage' and a 'Read More' link.

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Industry Organization Team Members

How is a supplier's adherence to criteria verified and reported?

Proof of Concept
October 2019

Organizations, Forums and Working Groups

- EEI
- LPPC
- APPA
- TAPS
- NAGF
- NAESB
- ConEd Working Group
- SCWG/CIPC
- NRECA

Suppliers

- ABB
- GE Grid Software Solutions
- OSI
- Siemens Industry, Inc.
- Schneider Electric
- Schweitzer Engineering

Third-Party Assessors

- Ernst & Young
- KPMG LLP
- PWC
- Deloitte

Vendor Organizations for support products or services

- EPRI
- Fortress/A2V

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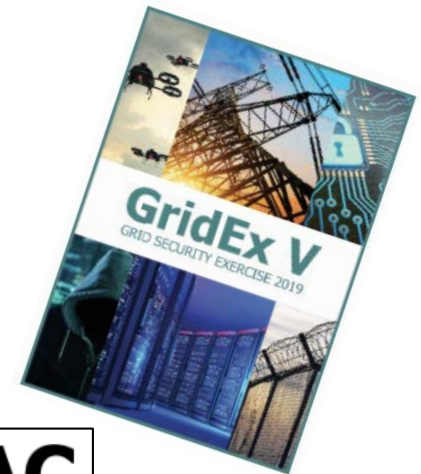
NATF Leading “Other” Key Emerging Issues

- Grid Security Emergencies
- Resilience

Grid Security Emergency



- NATF Report to DOE and ESCC on Grid Security Emergency framework/protocols (July 2019)
- NATF staff and GSE team provided input for use in GridEx Executive Tabletop exercise
 - Lessons learned and feedback to guide further work by NATF GSE team
- NATF GSE team to continue work to create a set of valid types of form orders, schema, and decision support guidance



Grid Security Emergency Reliability Coordinator-Centered Communications

- Developing the Reliability Coordinator (RC)-centered, verbal, operational communication for grid security emergencies

Shorter-term capabilities versus longer-term capabilities

Accommodation of both verbal and electronic communications

Communications for active engagement versus for awareness

Adequate security provisions and backup capabilities

Team includes:

- NATF Staff
- NERC Staff
- E-ISAC Staff
- RC Representatives

NATF Resilience Activities

- NATF-EPRI Resilience Summits
 - Conducted annually since 2013
 - Recently included NERC as co-sponsor
- Webinar series for members
 - physical security measures for substations
 - insider threat and protection of communication systems
 - incident command structure, emergency response, and post-event preparation
 - spare equipment strategies and programs for substation equipment
 - planning for system resiliency (future)

2020 Resilience Summit

March 31-April 1, 2020

- Theme:
 - Addressing the NERC RISC Issues of Critical Infrastructure Dependencies, Grid Transformation, and Security Vulnerabilities
- Hosted by Salt River Project
 - Tempe, AZ
- Co-Sponsored by NATF-EPRI-NERC
 - Open Sessions
 - NATF/EPRI Members-Only Sessions

Questions?

