

E-ISAC Update

Manny Cancel, Senior Vice President, Chief Executive Officer E-ISAC Technology and Security Committee Meeting February 5, 2020

TLP:GREEN



- Recap Member Executive Committee (MEC) Conference Call held on January 23, 2020
- E-ISAC Strategic Plan Update Key Elements and Schedule
- Next Steps



- Member Information Sharing Initiatives
- Security Operations Staffing
- Year End Performance Metrics
- Strategic Partnerships Update
- Government Engagement
- Strategic Plan Update



- Strategic plan put in place three years ago
- Opportunity to assess plan now to:
 - Confirm strategic and operational focus for both near and long term initiatives
 - Evaluate and refine products and services
 - Sharpen focus on resource allocation
 - Identify areas to provide additional value for members



Our Role

Key Functions

- Identify and analyze the security vulnerabilities, threats, and risks pervasive across the industry
- Gather and sanitize physical and cyber security information and disseminate this information to industry and between government and industry
- Provide platform(s) for rapid, secure information sharing and collaboration
- Facilitate meaningful industry events, exercises, and forums

Stakeholders

- The *entire* electric industry: large, small; private, public
- U.S. and Canadian governments



- **Operational Near Term (1-3 Years)**: Focus the majority of our time and resources on improving the efficiency and quality of our current product, platform, and service offerings
- Strategic Longer Term (3-5 years): Enhance intelligence and analysis capabilities with a focus on mitigating operational technology risk due to cyber threats



Continuous improvement...

Analysis
White Papers / Reports
CRISP
E-ISAC Data Platform / Technology
Partnerships

- Increase frequency of valuable, in-depth analysis papers
- Improve quality and timeliness of periodic reports
- Expand CRISP coverage and data for analysis
- Leverage technology and partnerships



Continuous improvement...

Information Sharing



- Establish 24x7 staffing
- Increase span, quality, and volume of voluntary shares
- Enhance the information sharing portal
- Improve and expand the automated information sharing capability



Continuous improvement...

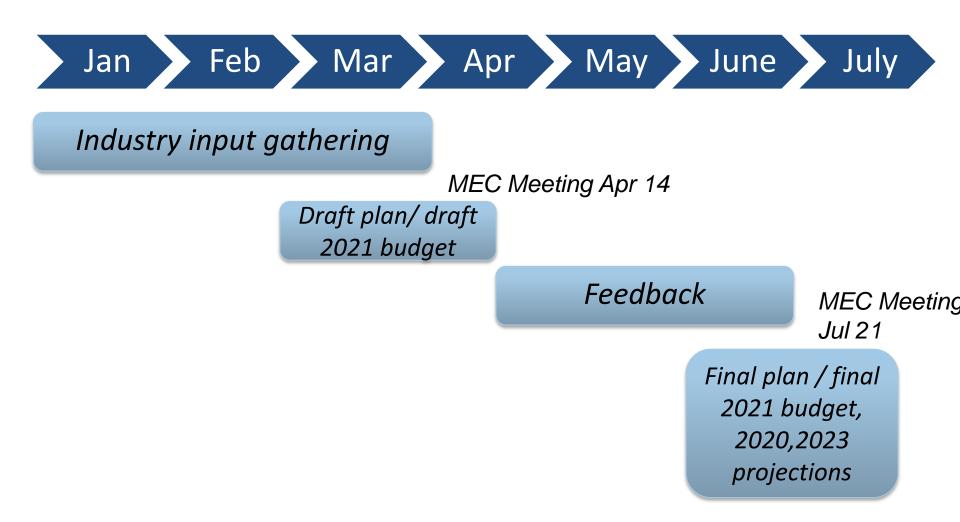
Engagement



- Evaluate sourcing options for GridSecCon and GridEx
- Continue expansion of membership
- Increase use of products and services across segments



Schedule





- Establish 24/7 security operations staffing
- Maximize and leverage the CRM/Salesforce tool
- Improve the value and delivery of products and services
- Continue to strengthen relationships with government and strategic partners
- Use metrics to improve our focus and execution
- Coordinate with MEC on Strategic Plan Update
- Develop 2021 budget





Questions and Answers



NERC

ERO Enterprise Information Technology Projects Update

Stan Hoptroff, Vice President, Chief Technology Officer and Director of Information Technology Technology and Security Committee Meeting February 5, 2020







- ERO Information Technology (IT) Projects Update
 - Align Project Update
 - Situation Awareness for FERC, NERC and the Regional Entities (SAFNRv3)
 - Entity Registration (CORES)
- Electricity Information Sharing and Analysis Center (E-ISAC) Technology Projects
 - Salesforce customer relationship management (CRM)
 - E-ISAC Portal
 - Data Analysis Platform
- Priorities Looking Ahead



- Drive alignment and consistency in Regional Entity Compliance Monitoring and Enforcement Program (CMEP) practices to ensure more equity in outcomes for registered entities
- Improve the security of handling highly sensitive information
- Capture productivity gains



- All evidence will go into the registered entity or ERO Enterprise locker (any registered entity locker must meet certain criteria the ERO Enterprise develops for functionality, access, etc.).
- ERO Enterprise workflow and work products will be in the ERO Enterprise Align tool.
- The ERO Enterprise will enhance ERO Enterprise work products (e.g., working papers) to support conclusions without the need to store data for extended periods, avoiding a data protection risk.
 - **NOTE:** Achieving this will occur via training, guidance, oversight activities and other outreach.



- Consistent with cybersecurity Standards and Frameworks -National Institute of Standards and Technology (NIST), Federal Risk and Authorization Management Program (FEDRAMP), NERC CIP
- Data identification, classification, management, and destruction
- Aggressive management of role-based credentials
- Evidence and data separation and isolation
- Control processes and auditing



- Application, patch release, and network cyber testing
- Multi-factor authentication for user access
- 24x7 monitoring and activity logging
- Cyber Risk Information Sharing Program (CRISP) monitoring for CRISP participants and NERC
- Isolated Virtual Network



Align – Application Security

- Logical Boundary Controls
- Encryption at-rest and in-transit
- Controlled encryption key management
- Integrity monitoring
- Login and Access Monitoring





- Purpose-built to collect and protect evidence
- Enables submission by authorized and authenticated entity users
- Provides compartmentalized analysis of evidence in temporary, isolated, disposable environments
- No interfaces with any other systems
- Evidence
 - Is encrypted upon submission
 - Is securely isolated per entity
 - Is never extracted
 - Is subject to proactive and disciplined destruction policy

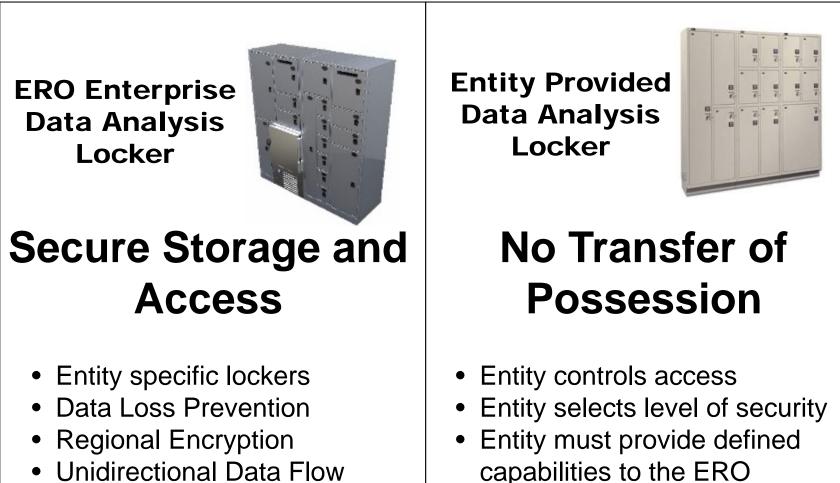




- Outbound communications limited
 - No ability to extract evidence
- Analysis environment destruction upon log out
- No direct access to the evidence
- File level permissions applied to evidence



Align – Data Locker for All Entity Evidence



Unidirectional Data Flow



Moving to a common platform will provide:

- Alignment of common CMEP business processes, ensuring consistent practices and data gathering
- A **standardized interface** for registered entities to interact with the ERO Enterprise
- Real-time access to information, eliminating delays and manual communications
- **Consistent application** of the CMEP
- More secure method of managing and storing CMEP data



Align Release 1: What to expect as a registered entity?



Release 1 Functionality

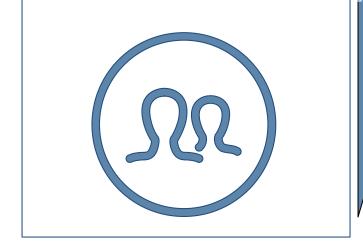
- Create and submit Self-Reports and Self-Logs
- Create and manage mitigating activities (informal) and Mitigation Plans (formal)
- View and track Open Enforcement Actions (EAs) resulting from all monitoring methods
- Receive and respond to Requests for Information (RFIs)
- Receive notifications and view dashboards on new/open action items
- Generate report of Standards and Requirements applicable to your entity
- Manage user access for your specific entity

NERC

Align Release 1: What to expect as a Regional Entity?

Stakeholder Group

<u>Regional Entities</u>



Release 1 Functionality

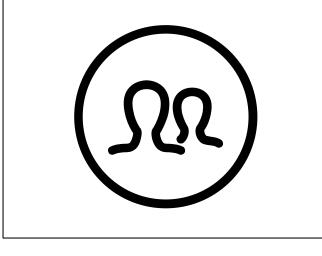
- Receive Self-Reports and Self-Logs from entities
- Manually create findings that result from any monitoring method (Audits, Spot Checks, Investigations, PDSs, Self-Certifications, Complaints)
- Perform Preliminary Screens, Potential Noncompliance Reviews, and disposition determinations for each PNC/EA
- Send and received responses to RFIs
- Trigger notifications such as Notice of Alleged Violation(s) and Proposed Penalty or Sanction, Notices of Confirmed Violation(s), Compliance Exception Letter(s), Find, Fix, Track & Report Letter(s), and Settlement Agreements
- Receive, review, and approve mitigating activities (informal) and Mitigation Plans (formal)
- Receive notifications and view dashboards on new/open action items
- Generate report of Standards and Requirements applicable to a registered entity



Align Release 1: What to expect as NERC?

Stakeholder Group

<u>NERC Users</u>



<u>Release 1</u> Functionality

- Perform oversight of the Regional Entities' activities
- View dashboards on new/open action items
- Create reports required by FERC related to Enforcement and Mitigation activities
- Generate report of Standards and Requirements applicable to a registered entity



How do I stay informed?

Key communication vehicles

- Align newsletter for Regions and registered entities
- Regional Change Agent Network
- Dedicated project page on NERC.com: <u>Click Here</u>
- Upcoming CMEP Regional workshops
- Trades meetings, as appropriate



SAFNR v3 Key Features

- Key Features include:
 - Situational Awareness for FERC, NERC and Regions (SAFNR) v3 will deploy improved underlying technologies to increase system robustness
 - Ability to control views for ERO Enterprise, FERC, and Reliability Coordinators
 - Leverages the same real-time data on facilities (>200kV and >500W)
 - User dashboard with drill-down capability into data
 - Administrator tools that facilitate system updates, topology changes and control access levels
 - Visualization of environmental conditions impacting reliability, such as weather, fires, and space weather.
 - Overlays of GeoMAC wildfire data to aid in tracking wildfires and associated threats to Bulk Power System facilities.



Entity Registration - CORES



- One common registration tool for the ERO Enterprise
- Consistent registration experience for registered entities
- Ability to easily share registration data
- Data integration with Align



Registered Entity

Functionality

- Create and submit new registration requests
- Receive notifications when new registrations are submitted
- After Regional and NERC approval, manage the newly submitted registration record
- Manage existing registration records (those that exist today in CITS, CDMS, and CRATS)
- Manage contacts for their entity
- Receive notifications when registration changes (including new registrations) are approved
- View Coordinated Oversight Information related to their entity



- New customer-relationship management tool (Salesforce) in production supporting post GridEx activities along with tracking member and stakeholder contacts
- E-ISAC Portal additional refinements underway. Focus on content publication (actionable information)
- E-ISAC Data Platform build out occurring with a heavy focus on data interfaces and data sharing. Which will enable additional improved analytics and information sharing



- Go-Live for Align Project Release 1 2020
- E-ISAC portal platform upgrade
- Analytical capabilities for the E-ISAC
- Accelerated adoption of Salesforce capabilities for the E-ISAC
- Development of the Geomagnetic Disturbance application
- Implementation of additional collaboration capabilities, e.g. Microsoft Teams
- Various software/hardware upgrades to NERC infrastructure



Questions and Answers



Additional Slides



Align Future Releases: What to expect?



- Technical Feasibility Exceptions
- Periodic Data Submittals
- Self-Certifications

Note: A strategy is being developed for how these monitoring methods will be managed in the gap between Releases

Release 3 Functionality Est. 2021

- Compliance Planning (Risk, CMEP Implementation Plan, Inherent Risk Assessment, Internal Controls Evaluation, Compliance Oversight Plan)
- Compliance Audit
- Spot Check
- Compliance Investigations
- Complaints



Standards Management Interface for NERC

Standar	d Management	Sequirement Management		Andy Rode					
EDIT A REC	UIREMENT					ADD A NEW	REQUIREMENT TO A STANDAR	RD	
STANDARD	REQUIREM	REQUIREMENT LANGUAGE	EFFECTIVE	INACTIVE		STANDARD	TITLE	ADD NEW	
BAL-005-1	R4.	The Balancing Authority shall make available to the operator information associated with Reporting ACE including, but not limited to, quality flags indicating missing or invalid data.	01/01/2019		^	COM-001-3	Communications	+	-
3AL-005-1	R5.	Each Balancing Authority's system used to calculate Reporting ACE shall be available a minimum of 99.5% of each calendar year.	01/01/2019			COM-002-2	Communication and Coordination	+	
BAL-005-1	R6.	Each Balancing Authority that is within a multiple Balancing Authority Interconnection shall implement an Operating Process to identify and mitigate errors affecting the accuracy of scan rate	01/01/2019			COM-002-2a	Communication and Coordination	+	
BAL-005-1	R7.	Each Balancing Authority shall ensure that each Tie-Line, Pseudo-Tie, and Dynamic Schedule with an Adjacent Balancing Authority is equipped with:	01/01/2019			COM-002-3	Communication and Coordination	+	
BAL-006-2	R1.	Each Balancing Authority shall calculate and record hourly Inadvertent Interchange.	04/01/2011	01/01/2019		COM-002-4	Operating Personnel Communications Protocols	+	
BAL-006-2	R2.	Each Balancing Authority shall include all AC tie lines that connect to its Adjacent Balancing Authority Areas in its Inadvertent Interchange account. The Balancing Authority shall take into	04/01/2011	01/01/2019		EOP- 001-2.1b	Emergency Operations Planning	+	
BAL-006-2	R3.	Each Balancing Authority shall ensure all of its Balancing Authority Area interconnection points are equipped with common megawatt-hour meters, with readings provided hourly to the control	04/01/2011	12/31/2018		EOP-002-3.1	Capacity and Energy Emergencies	+	
BAL-006-2	R4.	Adjacent Balancing Authority Areas shall operate to a common Net Interchange Schedule and Actual Net Interchange value and shall record these hourly quantities, with like values but	04/01/2011	01/01/2019	IJ	EOP-003-2	Load Shedding Plans	+	
BAL-006-2	R5.	Adjacent Balancing Authorities that cannol mutually agree upon their respective Net Actual Interchange or Net Scheduled Interchange quantities by the 15th calendar day of the following	04/01/2011	01/01/2019		EOP-004-2	Event Reporting	+	
3AL-502- RFC-02	R1.	The Planning Coordinator shall perform and document a Resource Adequacy analysis annually, The Resource Adequacy analysis shall: [See Standard pdf for requirements of the Resource	05/23/2011	12/31/2017		EOP-004-3	Event Reporting	+	
BAL-502- RFC-02	R2.	The Planning Coordinator shall annually document the projected Load and resource capability, for each area or Transmission constrained sub-area identified in the Resource Adequacy analysis.	05/23/2011	12/31/2017		EOP-004-4	Event Reporting	+	
BAL-502-RF- 03	R1.	The Planning Coordinator shall perform and document a Resource Adequacy analysis annually. The Resource Adequacy analysis shall	01/01/2018			EOP-005-2	System Restoration from Blackstart Resources	+	
3AL-502-RF-)3	R2.	The Planning Coordinator shall annually document the projected Load and resource capability, for each area or Transmission constrained sub-area identified in the Resource Adequacy analysis	01/01/2018			EOP-005-3	System Restoration from Blackstart Resources	+	
BAL-502-RF- 03	R3.	The Planning Coordinator shall identify any gaps between the needed amount of planning reserves defined in Requirement R1, Part 1.1 and the projected planning reserves documented in	01/01/2018		~	EOP-006-2	System Restoration Coordination	+	-



PNC Review Interface for Regions

♠ PNC Processing ✓							Align for I	regions	~
Preliminary Screening PNC Review							And	ly Rodriquez	C
POTENTIAL NONCOMPLIANCES IN REVIEW									
MONITO METHOD UNIQUE ID NCR ENTITY	REGION AND JURISDICTION	STANDARD	REQ	RECEIVED	VIOLATION START DATE	REVIEW STATUS	RECOMME DISPOSITION	ASSIGNED	то
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Self-Report 2019-00583 NCR99999 Test Entity	WECC-US	CIP-002-3	R2.	08/14/20	08/14/2019	IN PROGRESS			
Self-Report 2019-00602 NCR99999 Test Entity	WECC-US	VAR- 002-4.1	R1.	08/19/20		COMPLETE	Dismissal		
Self-Report 2019-00606 NCR99999 Test Entity	WECC-US	COM- 001-2.1	R11.	08/20/20	08/19/2019	IN PROGRESS			
		CIP-							
Audit 2019-00629 NCR99999 Test Entity	WECC-US	002-5.1a	R1.	08/23/20	08/20/2019	IN PROGRESS			
Audit 2019-00629 NCR999999 Test Entity I4 Page 1 of 3 ▶ ▶ ♦	WECC-US		R1.	08/23/20	08/20/2019	IN PROGRESS			
	WECC-US		R1.	08/23/20	08/20/2019				
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Dispositions and Notifications Interface for Regions

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s -4- Dispositions Per	nding Close E	As Pending Dispo	sition (lose 4- (Closed Enforce	ment Actions			Andy Rodriquez	(
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Self-Report 2019-00881 NCR999999 Test Entity		CIP- 002-5.1a	R1.	NPCC-US	01/01/2019	CEA Processing	Compliance Exception	on Letter	12/13/2019		
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26 TEST DATA ONLY



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Mitigation Plan	2019-00877	WECC	NCR99999 Test Entity	12/03/2019	9 CIP-005-5	R2	WECC-US	1	1/13/2019	Incomplete Returned as Incomplete	
Vitigating Activiti	es 2019-00481	WECC	NCR99999 Test Entity	08/07/2019	9 CIP-002-3(i)b	R2				Active	
Witigating Activiti	es 2019-00678	WECC	NCR99999 Test Entity	09/18/2019	9 EOP-004-4	R1.	WECC-US	0	5/10/2018	CEA Processing Due 01/24/2020	
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RELATED MI	LESTONES					8	ACTIVE F	REQUESTS	FOR INFORM	ATION	
TYPE OF MILESTONE	UNIQUE ID	NAME		DUE DATE	COMPLETION DATE	REQUEST	DUEDATE	ID	COMMENT		
Remediating Action	2019-00858	Remediatio	m	11/26/2019	11/26/2019			19-000060-R 2019-00424			
	2019-00858	Address Ro	oot Cause	12/27/2019		+	09/06/2	19-000082-R	UAT LS 8/7		
Preventative			Jur Gause	1414,114,01.0		T	09/06/2	2019-00424			
	2019-000570						08/00/2	19-000083-R			
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reventative	2019-000570							2019-00481	Testing - 8/7 need info	- LS	

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NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

Findings and Enforcement Actions Interface for Registered Entities

Constant Enfo	orcement Pro	ressuif .							Aug	gn For Entities	~
My Findin	gs									Andy Rodriquez	C
MY FINDINGS	3										
MONITORING METHOD	UNIQUE ID	REGION OR LRE	DATE SUBMITTED	REGISTRATION	STANDARD	REQ	START DATE	FINDING STATUS	SEND UPDATE	MITIGATION	
Self-Report	2019-00552	TXRE	08/08/2019	NCR99999 Test Entity	CIP-002-5.1	R1.		Preliminary Screening	+	Mitigating Activities Dratt	
Self-Report	2019-00557	TXRE	08/08/2019	NCR99999 Test Entity	CIP-002-3(i)b	R2		PNC Review	+	Mitigating Activities	
Self-Report	2019-00726	TXRE	10/07/2019	NCR99999 Test Entity	CIP-002-5.1a	R2		PNC Review	+	Mitigating Activities CEA Processing	
Self-Report	2019-00825	TXRE	10/30/2019	NCR99999 Test Entity	BAL-001-TRE-1	R6.	06/06/2019	Enforcement Processing	+	Mitigating Activities Draft	
Audit	2019-00827	TXRE	10/31/2019	NCR99999 Test Entity	BAL-001-TRE-1	R9.	10/01/2019	Preliminary Screening	+	Mitigating Activities Draft	
Audit	2019-00580	SERC	08/16/2019	NCR99999 Test Entity	CIP-002-5.1a	R2.	08/14/2018	Preliminary Screening	+	Mitigating Activities Draft	
Self-Report	2019-00490	WECC	08/07/2019	NCR99999 Test Entity	CIP-007-6	R2	07/01/2019	Enforcement Processing	+	Mitigating Activities Active	
Self-Report	2019-00448	WECC	08/07/2019	NCR99999 Test Entity	CIP-004-6	R4.	07/04/2019	Enforcement Processing	+	Mitigating Activities Complete	
Self-Report	2019-00464	WECC	08/07/2019	NCR99999 Test Entity	C1P-004-6	R4.	07/01/2019	Enforcement Processing	+	Mitigation Plan Complete	
Self-Report	2019-00510	WECC	08/07/2019	NCR99999 Test Entity	VAR-001-4.2	E.A.15	07/02/2019	PNC Review	+	Mitigating Activities	

INSTRUCTIONS

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This is your Findings dashboard. From here, you can see the status of all the potential noncompliances associated with your Registration(s). You can View those findings, and you can send a Finding Update to provide your Region with more information. You can also access your Mitigation from this screen. A summary of the process a Finding goes through is shown on the right.

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION



TEST DATA ONLY

NERC

ERO Enterprise Security Initiatives

Bill Lawrence, Vice President, ERO Enterprise Security Initiatives Technology and Security Committee Meeting February 5, 2020





- Support Region external-facing initiatives in cyber and physical security programs and awareness for registered entities, including sharing of best practices and security training
- Work with Stan Hoptroff, NERC CTO, and the Information Technology Security Group (ITSG) to set the "gold standard" of protection for ERO systems and data



- Address cyber and physical security priorities identified in the Reliability Issues Steering Committee (RISC) report with the ERO Enterprise and industry groups, including the North American Transmission Forum and North American Generator Forum
- Provide executive leadership on NERC's EMP efforts and deliver insights on the current state-of-the art mitigation approaches, including latest scientific reports and literature
- Engage with the RISC, ITSG, and the new Reliability and Security Technical Committee (RSTC) for coordinated ERO Enterprise action on security initiatives



- Strengthen the situation awareness and infrastructure security coordination and activities of NERC and the Regions to respond to a major grid crisis, either an operational event or in a grid security emergency
- Review NERC's Crisis Action Plan for improvements and build an ERO Enterprise CAP, with business continuity considerations
- Design and lead drills of the CAP with the ERO Enterprise, building up to major industry and government exercises



Questions and Answers