NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

Security Integration and Technology Enablement Subcommittee
2023 Work Plan

Website: SITES	**Chair:** Brian Burnett	**NERC Lead:** Ryan Quint
Hierarchy: Reports to RSTC	**Vice Chair:** Thomas Peterson	**Scope Approved:** December 2018

	In Progress			
Task#	**Task Description**		**Target Completion**	**Status**
T1	**Annual State of Technology Report** Technical report providing industry with strategic guidance regarding new or emerging technology solutions and risk-based considerations for their successful implementation. (Scope Activity Technology Enablement #1)		Q4 2023	Approved at RSTC Work Plan Summit. In planning phase.
T2	**Whitepaper: BES Operations in the Cloud** Breakdown concepts. Explain risks and challenges. Provide guidance and recommendations for adoption. Address cybersecurity and CIP compliance.		Q1 2023	Integrating comments on final draft and then Subteam will seek consensus to send out final draft broadly for external commenting.
T3	**Whitepaper: Zero Trust for OT Cybersecurity** Define. Identify benefits, risks, challenges. Illustrate architecture. Provide guidelines and recommendations for adoption and CIP considerations.		Q1 2023	RSTC comment period coming to a close. Final edits to be made from comments. Submission to RSTC for approval to follow.
T4	**Whitepaper: New Technology Enablement & Field Testing** Identify strategies to safely and securely trial new technology in BES BCS-impact environments that fall under NERC CIP		Q3 2023	Development of paper scope and outline in progress.
T5	**Whitepaper: Privacy & Security Risks of DER and DER Aggregators** Collaboration with SPIDERWG. Identify present architectures, technologies, threats, and risks, and controls. Provide recommendations to ensure security, reliability, and resilience.		Q2 2023	Whitepaper scope and outline completed and approved by SPIDERWG consensus for drafting to begin.
	In Pipeline / Awaiting Resources & Priority			
Task#	**Task Description**		**Target Completion**	**Status**

PL1	**Reliability / Security Guideline: Integration of Cyber and Physical Security with BPS Planning, Operations, Design, and System Restoration** Recommendations for industry regarding ways that BPS planning, operations, design, and restoration activities can be enhanced by considering cyber and physical security aspects to improve BPS reliability and resilience; recommendations regarding the convergence of IT and OT networks. (Scope Activity Security Integration #1 and #2)	n/a	Task will be addressed as volunteers become available and higher priority projects are completed.
PL2	**SITES Industry Workshop** An industry-wide technical workshop (likely remotely) to highlight strategic areas of focus related to new technologies, technology enablement, and security integration. (Scope Activity Technology Enablement #2)	n/a	Task will be addressed as volunteers become available and higher priority projects are completed.
PL3	**White Paper: Risk-Based Physical and Cybersecurity Threats and their Impacts to BPS Reliability and Resilience** Guidance and reference materials providing information about security threats and how Registered Entities can plan, design, and operate the system to mitigate these potential risks. High-level recommendations for industry to consider in their own engineering and security practices for mitigating potential BPS reliability risks. Considerations for generation, transmission, and distribution-level risks as well as such as the natural gas infrastructure, and end-use (Scope Activity Security Integration #4)	n/a	Task will be addressed as volunteers become available and higher priority projects are completed.
Completed or Cancelled (For Tracking)		
Task#	**Task Description**	**Completion Date**	
C1	**Whitepaper: Cybersecurity for DERs and DER Aggregators** An informational whitepaper to provide industry with guidance regarding activities in the area of cybersecurity for distributed energy resources (DERs) and DER Aggregators. Specifically, IEEE 1547.3 cybersecurity guidance for DERs, and UL certification for device level security of DERs. Written in collaboration with NREL and UL, with input and edits from SITES.	RSTC Approved Whitepaper in December 2022. Published 1/18/2023 to NERC.com	