JUNE 15, 2023

NERC Lessons Learned and Alerts

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Link: Lessons Learned (nerc.com)

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NERC Lessons Learned

Weathering the storm – System Hardening

Initial Distribution: July 5, 2023

Interest Groups:	TO, TOP, GO, GOP, DP
Problem Statement:	This lesson learned focuses on storm hardening activities adopted by Florida due to its population growth and infrastructure concentration along the coast has greatly increased the cost of damage due to extreme weather events.
Lessons Learned :	Pre-emptively removing generation from service prior to the landfall of the hurricane protected equipment from damage and significantly shortened restoration times.
	Continuous communications between the RC, TOPs, and BAs ensured coordinated efforts throughout the event and the subsequent restoration.
	Advanced meters and intelligent grid devices were effective in pinpointing outages, operating equipment remotely, and increasing efficiency.
	Installation of flood monitors in substations located within the 100-year flood plain resulted in the ability to de-energize substations upon notification of rising water, reducing potential damage to sensitive station equipment.
	Hardening and resiliency programs that included replacing wood transmission structures with higher wind-speed-rated steel and concrete structures, and converting overhead infrastructure to underground distribution infrastructure.

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NERC Alerts

Cold Weather Preparations for Extreme Weather Events III

Initial Distribution: March 15, 2023

Interest Groups:	RC,BA, TOP, GO
Problem Statement:	NERC issued a Level 3 Alerts on essential actions for cold weather preparations for extreme weather events to increase entity readiness and enhance plans for and progress toward mitigating risk for upcoming winter and beyond. Initial acknowledgement of receipt by May 22 and Responses to questions should be submitted by October 6th.
Recommendations:	Essential actions are mentioned below 1. GO should calculate the ECWT for each plant location 2. GO should identify Cold Weather Critical Components(s) and freeze protection measure for those components in their cold weather preparedness plan. 3. GO should determine which units require additional freeze protection measure and should determine if it can be implemented priori 2023-2024 winter season. 4. Go should identify which unit experience a cold weather reliability event in 2022-2023 and determine corrective actions that can be implemented before 2023-2024 winter season. 5. TO should update their operating plan to include provisions about UFLS and UVLS. 6. BA should update their operating plan to include provisions for Manual load shed, capability and availability of resources, Fuel supply and inventory concerns, fuel switching capability and environmental constraints. 7. GO should provide the ECWT information to its BA. 8. GO should share information on updates to operation plans with its BA.

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