Guidance Tailboard

DOCUMENT NAME: De-Energized Use of Inertia SCADA MSO

DOCUMENT NUMBER: TD-076253-B005, Rev 1

TAILBOARD ISSUED: 9/15/2021 TAILBOARD BY[1]: 9/22/2021

What is changing?

Due to a recent review of the 2019 ATS Test Report which identified specific findings that have not been mitigated in the field, the Inertia SCADA motorized switch operator (MSO) can only be operated on a de-energized line. MSOs in the field must be operated on a de-energized line by a qualified electrical worker (QEW) onsite during OPEN and CLOSE operations.

This bulletin supersedes previously released Utility Bulletin TD-076253-B004, “Limited Use of Inertia SCADA MSO.”

Why does it matter?

After reviewing the testing performed at ATS in 2019, it was determined that two findings documented in the test report were not adequately mitigated when manually operating the MSO Device from the Control Panel. These two findings were:

- Slow operation of switch blades using the 12-Volt Battery.
- Failure of a copper ribbon crimp in the Amp Vac Interrupter that occurred during testing

An Extent of Condition Review identified the following inventory of MSO devices currently installed and in service:

Total Inventory by Location Type/Category

Location Type/Category	MSO Count
2022 PSPS Planned Replacements	83
2022 SCADA SD Switch Pilot Locations	9
Additional Tier 2/3 Locations Prioritized for Replacement	6
Additional Tier 1 Locations not Planned for Replacement	32
Total Inventory	**130**

Why does it matter? (continued)

Total Inventory by Division

Division	MSO Count
Central Coast	13
De Anza	8
Diablo	7
East Bay	12
Fresno	5
Humboldt	3
Kern	1
Los Padres	9
Mission	17
North Bay	8
North Valley	5
Peninsula	6
Sacramento	7
San Jose	7
Sierra	2
Sonoma	14
Stockton	6
Grand Total	**130**

Required Actions

- Before operating any MSO device in the field, DE-ENERGIZE the line by operating a source-side device.
- A QEW must VERIFY that the line is de-energized by using an approved voltage detector.
- After confirming that the line is de-energized, a QEW must OPERATE the MSO from the local control panel. DO NOT OPERATE the MSO remotely.

Next Steps (3 to 12 Months):

An Independent 3rd Party Review of the 2019 and 2020 ATS Testing will be performed to identify additional corrective actions necessary to retrofit MSOs that cannot be replaced with newer SCADA technology.

Tools and Training

Tailboard this information to all targeted audience specified in the bulletin.

Supervisors record completion of the Tailboard by completing the electronic form at the following link: https://forms.office.com/r/diHakJqMi5.

Quarterly Technical Document Review meetings and Divisional review meetings.

Timeline

Date	Activity
09/15/2021	Bulletin is available for use immediately. Take reasonable steps to implement requirement as soon as practical.
09/22/2021	Tailboard to employees in target audience must be completed.

