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Management Directive

PRC-MD-EN-54097

Verification of Electrical Distribution System Protective Devices

Revision 0, Change 2

Published: 09/27/2019
Effective: 09/26/2019

Program: Engineering
Topic: Engineering Program

Technical Authority: Crow, Stephen
Functional Manager: Hasty, Mark

Use Type: Administrative



- Central Plateau Surveillance and Maintenance :
Categorical Exclusion: GCX-7 (Minor Change)
Screener: Waller, Mitchell
- 100 K Facility :
Categorical Exclusion: GCX-8 (Not in Safety Basis Compliance Matrices)
Screener: Oberg, Brian
- Canister Storage Building/Interim Storage Area :
Categorical Exclusion: GCX-8 (Not in Safety Basis Compliance Matrices)
Screener: Covey, Lori
- Plutonium Finishing Plant :
Categorical Exclusion: GCX-8 (Not in Safety Basis Compliance Matrices)
Screener: King, Jeffrey
- Solid Waste Operations Complex :
Screening Determination Performed: (Screening/Determination Performed (no issues))
GCX-8 (SWOC-17-036)
Screener: Geary, Daniel
- Waste Encapsulation Storage Facility :
Categorical Exclusion: GCX-8 (Not in Safety Basis Compliance Matrices)
Screener: Covey, Lori
- 324 Facility :
Categorical Exclusion: GCX-7 (Minor Change)
Screener: Enghusen, Mark

JHA: Administrative

Periodic Review Due Date:03/01/2020

Rev. 0, Chg. 2

Change Summary

Description of Change

Extended MD expiration date. (CR-2017-1165, CA #1)

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1.0 INTRODUCTION

1.1 Purpose

This management directive (MD) provides direction for the performance of electrical risk assessments using protective device parameters that are owned by the Mission Support Alliance (MSA) Electrical Utilities (EU) organization.

1.2 Scope

This MD applies to the performance of electrical risk assessments at work locations where the arc flash incident energy level contained in an issued arc flash analysis is determined by a protective device owned by the MSA EU organization. It does not apply to the performance of an electrical risk assessment based on an analysis where the protective device owned by the MSA EU organization has been verified as current.

1.3 Applicability

This MD applies to projects having technical responsibility for electrical distribution systems for which an arc flash risk assessment has been issued.

1.4 Implementation

This MD is effective upon publication.

2.0 DIRECTION

According to DOE-0359, *Hanford Site Electrical Safety Program (HSESP)*, for all three-phase equipment under the jurisdiction of the National Electrical Code (NEC), an arc flash risk assessment shall be completed to determine the arc flash boundary (AFB) and the personal protective equipment (PPE) that a person within the AFB shall use. This analysis is documented on a *Hanford Site Electrical Risk Assessment (ERA)* (Site Form A-6007-595).

For ERAs at work locations where the arc flash incident energy level is determined by a protective device owned by the MSA EU organization, the protective device information shall be verified current by the MSA EU organization (POC: Steve Goulet). If the current protective device information by the MSA EU organization is different than that documented in an issued arc flash analysis, the ERA shall be re-issued using a current analysis.

3.0 DURATION

This MD is effective until 03/25/20 or until an affected project has confirmed that issued arc flash analyses containing MSA EU-owned protective device information contains information that has been verified current by the MSA EU organization.

4.0 FORMS

None

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5.0 RECORD IDENTIFICATION

None

6.0 SOURCES

6.1 Requirements

DOE-0359, *Hanford Site Electrical Safety Program (HSESP)*

6.2 Commitments

CR-2017-1165, CA #1

6.3 References

None