Management Directive

PRC-MD-EN-54097

Verification of Electrical Distribution System Protective Devices

Revision 0, Change 0

Published: 07/11/2017
Effective: 07/11/2017

Program: Engineering
Topic: Engineering Program

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

Use Type: Administrative
Solid Waste Operations Complex:
Screening Determination Performed: ( )
Screener: Jacobs, Orvil

Canister Storage Building/Interim Storage Area:
Screening Determination Performed: ( )
Screener: Covey, Lori

Central Plateau Surveillance and Maintenance:
Screening Determination Performed: ( )
Screener: Waller, Mitchell

Waste Encapsulation Storage Facility:
Screening Determination Performed: ( )
Screener: Covey, Lori

100 K Facility:
Screening Determination Performed: ( )
Screener: Williams, James

Plutonium Finishing Plant:
Screening Determination Performed: ( )
Screener: King, Jeffry

Transportation:
Excluded from USQ
Exclusion Reason:
N/A per PRC-PRO-NS-062, Section 1.3

JHA: Administrative
Periodic Review Due Date: 08/31/2018
Publication Correction: 01/25/2018
Rev. 0, Chg. 0

Change Summary

Description of Change

Temporary direction is required for a Stop Work (SAC-2017-0224) related to the use of Electrical Hazard Evaluation forms for work where the protective device is under the control of the Hanford Electrical Utilities organization.
# Verification of Electrical Distribution System Protective Devices

**Published Date:** 07/11/17  
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1.0 INTRODUCTION

1.1 Purpose

This management directive (MD) provides direction for the performance of electrical hazard evaluations 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 hazard evaluations 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 hazard evaluation 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 hazard analysis 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 hazard analysis shall be completed and documented to determine the arc flash protection boundary (AFPB) and the personal protective equipment (PPE) that a person within the AFPB shall use. This analysis is documented on a Hanford Site Electrical Hazard Evaluation (EHE) (Site Form A-6005-738).

For EHEs 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: Matt Parkhill). If the current protective device information by the MSA EU organization is different than that documented in an issued arc flash analysis, the EHE shall be re-issued using a current analysis.

3.0 DURATION

This MD is effective for 180 days 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.
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4.0 FORMS
None

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