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Management Directive

PRC-MD-EN-54097

Verification of Electrical Distribution System Protective Devices

Revision 0, Change 0

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Program: Engineering
Topic: Engineering Program

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

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- Solid Waste Operations Complex :
Screening Determination Performed: ()
SWOC-17-036
Screener: Jacobs, Orvil
- Canister Storage Building/Interim Storage Area :
Screening Determination Performed: ()
CSB-17-050
Screener: Covey, Lori
- Central Plateau Surveillance and Maintenance :
Screening Determination Performed: ()
S&M-17-061
Screener: Waller, Mitchell
- Waste Encapsulation Storage Facility :
Screening Determination Performed: ()
WESF-16-059
Screener: Covey, Lori
- 100 K Facility :
Screening Determination Performed: ()
USQ 0235-017
Screener: Williams, James
- Plutonium Finishing Plant :
Screening Determination Performed: ()
USQ 050-2017
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.

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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 document 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