

SECTION 26 05 73

OVERCURRENT PROTECTIVE DEVICE COORDINATION AND ARC FLASH STUDY

This document is intended to note the Owners Design Requirements (ODR) for the titled specification section. Design professional to review and integrate ODR into the project's technical specifications. This ODR document should not be viewed as a standalone technical specification.

PART 1 - GENERAL REQUIREMENTS

- Submittals
 - Contractor shall be responsible for hiring a subcontractor to perform and submit a Short Circuit, Selective Coordination, and Arc Flash Study for all new or modified electrical panels, transformers, disconnects, and electrical equipment. The study shall include time current curves, protective device coordination, and a single line diagram showing the fully coordinated system. Short Circuit and Selective Coordination study shall be provided before equipment submittals to show compliance.
 - Contractor is responsible to field verify existing equipment information, breakers, fuses, feeder sizes, pathways, and obtain required information from the utility. Arc flash study shall be NFPA 70E compliant.
- Subcontractor
 - Contractor must utilize Electric Reliability Services (ERS) to perform the Short Circuit, Selective Coordination, and Arc Flash Study for project scopes within the terminal buildings at LAS
- Software
 - Contractor shall use SKM software for all arc flash studies and calculations.

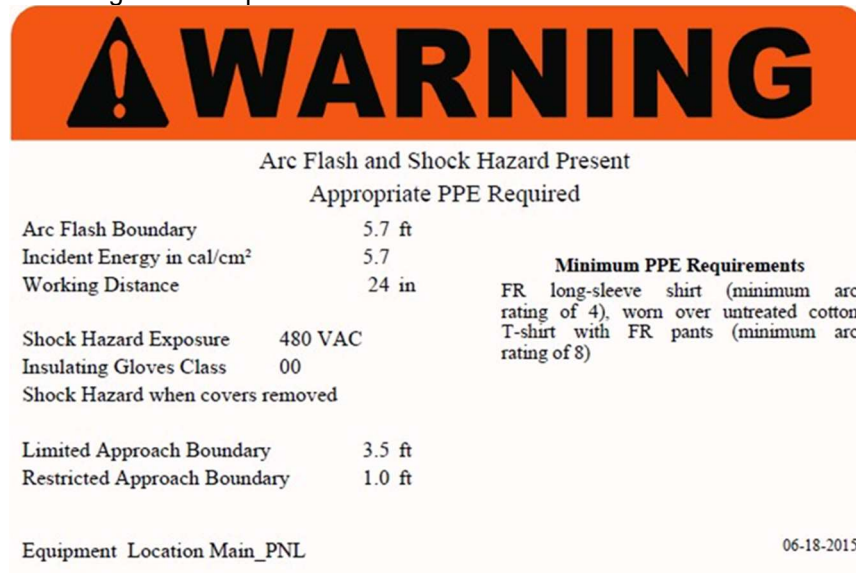
PART 2 - PRODUCTS AND MATERIALS

N/A

PART 3 EXECUTION

- Arc Flash Labels
Contractor to provide and install arc flash labels on all new or modified electrical panels, transformers, disconnects, and electrical equipment.
- Power System Study Supplier shall provide a thermal transfer type label of high adhesion polyester for each work location analyzed.
- The label shall include the following information:
 - Location or Equipment ID
 - Nominal System Voltage
 - Flash protection boundaries:
 - Limited approach
 - Restricted approach
 - Arc Flash boundary
 - Site-Specific level of PPE
 - Available incident energy and corresponding Working Distance (cal/cm²)
 - Study report number, revision number and issue date
- Labels shall be printed by a thermal transfer type printer, with no field markings.

- Arc Flash warning label sample is shown below:



- Arc flash labels shall be provided by the Contractor for equipment as identified in the study and the respective equipment access areas per the following:
 - Floor Standing Equipment - Labels shall be provided on the front of each individual section. Equipment requiring rear and/or side access shall have labels provided on each individual section access area. Equipment line-ups containing sections with multiple incident energy and flash protection boundaries shall be labeled as identified in the Arc Flash Analysis table.
 - Wall Mounted Equipment – Labels shall be provided on the front cover or a nearby adjacent surface, depending upon equipment configuration.

END OF SECTION