

SECTION 26 05 73
OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY
01-01-18

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section specifies the overcurrent protective device coordination study, related calculations and analysis, indicated as the study in this section.
- B. A short-circuit and selective coordination study, and arc flash calculations and analysis shall be prepared for the electrical overcurrent devices to be installed under this project.
- C. The study shall present a well-coordinated time-current analysis of each overcurrent protective device from the most downstream breakers installed under this project up to and including the first existing unaltered upstream overcurrent device. The scope of the study shall include:
 - 1. Line side of the existing main breaker in existing Panel 3B.N.DP1 down to the load side of the largest new branch breaker(s) in new Panel 3C.N.P1.
 - 2. Line side of the existing main breaker in existing Panel 3B.CR2.DP2 down to the load side of the largest new branch breaker(s) in new Panel 3C.CR2.P1.
 - ~~3. The MSGR-A bus thru the existing feeder breaker down to the load side of the largest new branch breaker(s) in new Panel 3C.EQ2.PA~~
- D. Study shall include all existing downstream breakers one level downstream from new or altered devices. An additional level of existing downstream devices shall be included if device is in series with new/altered device in a manner that excludes it from coordination requirements (i.e. primary and secondary protection on the same transformer).
- E. The contractor shall provide on-site data collection of: existing breaker brands, model numbers and settings; existing generator nameplate values and short circuit characteristics; existing transformer impedances; and existing cable lengths. Appropriate PPE shall be used to access data located behind remove-able covers.
- F. Non-specific or typical place-holder values will not be accepted. Examples of not accepted items: infinite primary assumptions for substation transformers, conductor length assumptions, conductor