

1. DESIGN STANDARD:

- 1.1 A short circuit fault current study and a coordination study will be required for new facilities and major electrical renovation work. The short circuit study and the coordination study will be required as part of the submittal process and equipment will not be approved without the coordination study.
- 1.2 Flash protection warning labeling (arc flash hazard labeling) will be required for all equipment identified by NEC 110.16. Flash thermal energy calculations will need to be provided to Rice University.
- 1.3 In general, Short Circuit Current Available (SCCA) rating of equipment to be fully rated (not series rated). Where SCCA Series Rating of equipment is being considered, discuss reasons with Rice University Project Manager.
- 1.4 Ground Fault Protection: Rice University requires coordination of equipment ground fault protection between a switchboard main device and feeder devices in that switchboard. Where ground fault protection is designed for the main device, design coordinated ground fault protection on the feeder devices.

2. PRODUCT STANDARD:

- 2.1 Rice University has standardized on a single manufacturer for Distribution Panelboards. Distribution Panelboards to be Square D I-Line (no substitutions).
- 2.2 Rice University has a preference for using Square D equipment for lighting class panelboards. Alternate lighting class panelboard manufacturers to be discussed with Rice University Project Manager.
- 2.3 Bussing for all power distribution equipment (switchboards, distribution panelboards, lighting class panelboards, motor control centers) to be Copper. Aluminum will not be allowed.
- 2.4 Lighting Panelboards to be bolt-on branch circuit breaker type construction. Plug-in or stab-on type breakers will not be allowed.
- 2.5 Metering, existing: Retain existing kWh meter, including pulser, unless the meter is to be replaced with a power meter with KY pulse output for Kilowatts.
- 2.6 Metering, new: Design for Square D Model 820 or equal, when replacing main service equipment or designing new main service equipment. Meter must have KY pulse output and be capable of storing peak demand.

3. PERFORMANCE STANDARDS:

3.1 Recessed Panelboards: Where a panelboard is installed recessed, install at least three ¾” empty conduits stubbed out of panelboard to nearest accessible ceiling cavity.