26 24 13_SWITCHBOARDS

PART 1 GENERAL

1.01 SECTION INCLUDES
   A. Low-voltage (600 V and less) switchboards and associated accessories for service and distribution applications.
   B. Overcurrent protective devices for switchboards.
   C. Panelboards

1.02 SUMMARY
   A. This standard includes Low Voltage Switchboards, and Panelboards used for electrical distribution.
   B. The intent of these standards are to provide input to the design team on the University's preference of manufacturers, design, equipment options, and quality assurance to maintain the longevity of its assets.

1.03 REFERENCE STANDARDS
   A. NFPA 70 - National Electrical Code; National Fire Protection Association; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 DESIGN REQUIREMENTS
   A. Basis of Design: Square D
   B. All secondary main switchgear is to include metering at the MDP. Metering shall be ION-7330 meters. Building sub-metering of individual circuits when required will be determined by Maintenance & Operations.
      1. Contact the University of Delaware Electrical Engineer prior to specifying and installing.
      2. Meter shall be connected by Ethernet Cable.
   C. All main secondary switchgear shall be supplied from the switchgear manufacturer with instrument class CT's installed and wired to a CT shorting block.
   D. All switchgear equipment, panelboards, and meters shall be correctly labeled.
      1. Switchgear equipment needs to specify the location of equipment served.
      2. Panelboards labels to specify where they are fed from.
      3. Panel labeling to include areas served by each circuit.
   E. All circuit breakers shall be the Bolt-In type only.
      1. Plug-In type circuit breakers shall not be specified or approved.
   F. Specify University standard “Best Lock” on all panel doors.

1.05 SUBMITTALS
   A. Product Data: Provide electrical characteristics including voltage, frame size and trip ratings, fault current withstand ratings, and time-current curves of all equipment and components.
   B. Manufacturer’s Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product.
   C. Maintenance Data: Include information on replacement parts and recommended maintenance procedures and intervals.

PART 2 PRODUCTS

2.01 MANUFACTURERS
   A. Schneider Electric; Square D Products: www.schneider-electric.us.
   C. Siemens: www.usa.siemens.com

2.02 OVERCURRENT PROTECTIVE DEVICES

END OF SECTION