

DIVISION 26 - ELECTRICAL

SECTION 26 13 13 15 KV MEDIUM-VOLTAGE CIRCUIT BREAKER SWITCHGEAR

PART 1: GENERAL

1.01 Scope of Standard

- A. This standard provides general guidance concerning the specific preferences of Texas State University for 15KV Medium Voltage Circuit Breaker Switchgear.
- B. Texas State University recognizes that project conditions and requirements vary, thus precluding the absolute adherence to the items identified herein in all cases. However, unless there is adequate written justification, it is expected that these guidelines will govern the design and specifications for Texas State University projects.

1.02 Scope of Work

- A. This section of the design standard includes basic requirements for the design of the metal clad switchgear used at the building service entrances.
- B. This is a design standard and is not intended to be used as a construction specification.

PART 2: PRODUCTS

- A. Design and construct the switchgear in accordance with the latest referenced specifications including NEMA, ANSI, and IEEE standards applicable to switchgear.
- B. All switchgear parts shall be new and free from defects in material and workmanship.
- C. The switchgear shall be rated 15 kV volts, metal clad, and shall operate on a 12,500-volt nominal, three phase, 60 Hz system. The switch shall be certified as arc resistant per IEC 298 for fault currents up to 12.5kA symmetrical for 15 cycles. The switchgear shall utilize a SF6 insulated fault interrupter with provisions for low pressure alarms.
- D. Enclosure: Shall be S&C Vista pad mount enclosure, with a configuration relative to service it isolates. Enclosure must have a base spacer, sized as needed, and pentalatch mechanisms.
- E. Main Bus: Shall be copper and rated at 600A @ 15kV.
- F. Ground Bus: The ground bus shall be of high conductivity copper with a continuous rating of at least 600 amps and shall extend the entire length of the switchgear.

PART 3: EXECUTION

3.01 Design/Drawing Requirements

- A. Electrical Engineer shall provide single-line diagram showing gear with fuses or overcurrent controls.

- B. Floor plans details shall be provided with electric equipment room layouts including switchgear and other substation components drawn to scale.
- C. Switchgear shall be placed on a 4" housekeeping pad.
- D. Single line diagram shall clearly indicate dividing lines of points of acquisition and installation responsibility.
- E. Exterior Switchgear shall be factory painted to match Sherwin Williams SW6108 "Latte".

END OF SECTION 26 13 13