1. GENERAL

1.1 Product Data

.1 Submit product data in accordance with Section 16010 - Electrical General Requirements.

2. **PRODUCTS**

2.1 Switches

- .1 Interrupting rating of 6 times continuous current on contacts on manual operation. Interrupting capacity to withstand and close onto circuits having available fault currents of 100,000 A rms symmetrical, with HRC-L fuses.
- .2 Switch contacts and terminals silver plated copper with drilled holes and surface ground to ensure high quality surface contact.
- .3 Replaceable arcing contacts of silver tungsten construction with first-in, last-out operation.
- .4 Positive switching action of operating mechanism independent of speed at which handle is operated.
- .5 Quick make, quick break, stored energy operating mechanism for manual closing operation.
- .6 Door interlock to prevent access with fuse energized.
- .7 Provision for double padlocking switch in open position.
- .8 Operating mechanism arranged to prevent "teasing" operation of contacts.
- .9 Mechanism designed so that it is impossible to close switch without first charging opening spring.
- .10 Opening and closing springs of switch must be charged sequentially not simultaneously.
- .11 Opening of switch no longer than 3 cycles.
- .12 Operating handle to remain static when opening on shunt trip or by mechanical push button.
- .13 Switches front accessible for quick and easy installation or removal.
- .14 Removable interphase barriers and fibre reinforced arc chute fusible power circuit protector.
- .15 Open type load break fusible power circuit protector for switchboard mounting.
- .16 Blown fuse trip device to open switch and indicate faulted phase when fuse has blown.
- .17 Must be CSA approved.

2.2 Enclosure

.1 Refer to Unit Substation To 15 kV Section 16311.

2.3 Switch Location

- .1 Two (2) load interrupter switch fusable (fuses not required at this time, suitable for 300 E fuses), 600 A continuous load at 4.16 kV (future pumping equipment).
- .2 One load interrupter switch fusable with 350 E fuses, 600 A continuous load at 4.16 kV (300 kVA transformer).

2.4 Equipment Identification

- .1 Provide equipment identification in accordance with Section 16010 Electrical General Requirements.
- .2 Equipment labels: Name Plate size 7.

2.5 Acceptable Products

- Cutler Hammer
- Schneider
- S & C Electric.

3. EXECUTION

3.1 Installation

.1 Install in unit substation as indicated on drawing and specified herein.

3.2 Field Quality Control

- .1 Perform tests in accordance with Section 16980 Testing, Adjusting and Balancing of Electrical Equipment and Systems.
- .2 Operate switch on line under normal load conditions 3 times in presence of Contract Administrator and prove out operating functions.

END OF SECTION