26 20 00  Low Voltage Electrical Distribution

1. **Secondary Switchgear**
   1.1. The transformer main secondary switchgear shall be draw-out type air circuit breakers. All equipment shall be of Canadian manufacture or with parts readily available to PPS.

   1.2. A spare breaker shall be provided for maintenance purposes to allow for calibration and servicing with minimal interruption of service.

   1.3. Documentation shall include manufacturer's shop drawings, catalogue cuts, data sheets, operation instructions and maintenance instructions.

   1.4. Circuit identification shall conform to Queen's standards. Nameplates shall be reviewed with PPS prior to manufacture.

   1.5. All breakers with solid state trip units and indicating lights shall have power supply to indicate trip type when breaker open.

2. **Fused Disconnects**
   2.1. Heavy duty safety switches shall be specified.

   2.2. Disconnects shall accommodate CSA certified HRC1-J (Class J) fuses.

   2.3. Preferred manufacturers are Schneider (Square D), Siemens, and Eaton (Cutler-Hammer).

   2.4. Documentation shall include catalogue cuts clearly indicating specified products and options.

3. **Transformers – Dry Type 600V**
   3.1. Primary windings shall normally be copper conductor, delta connected, 1.2 kV class insulation, standard BIL complete with four 2½% taps, 2FCAN and 2FCBN.

   3.2. Secondary windings shall normally be copper conductor, wye connected.

   3.3. 80°C temperature rise above 40°C ambient shall be specified.