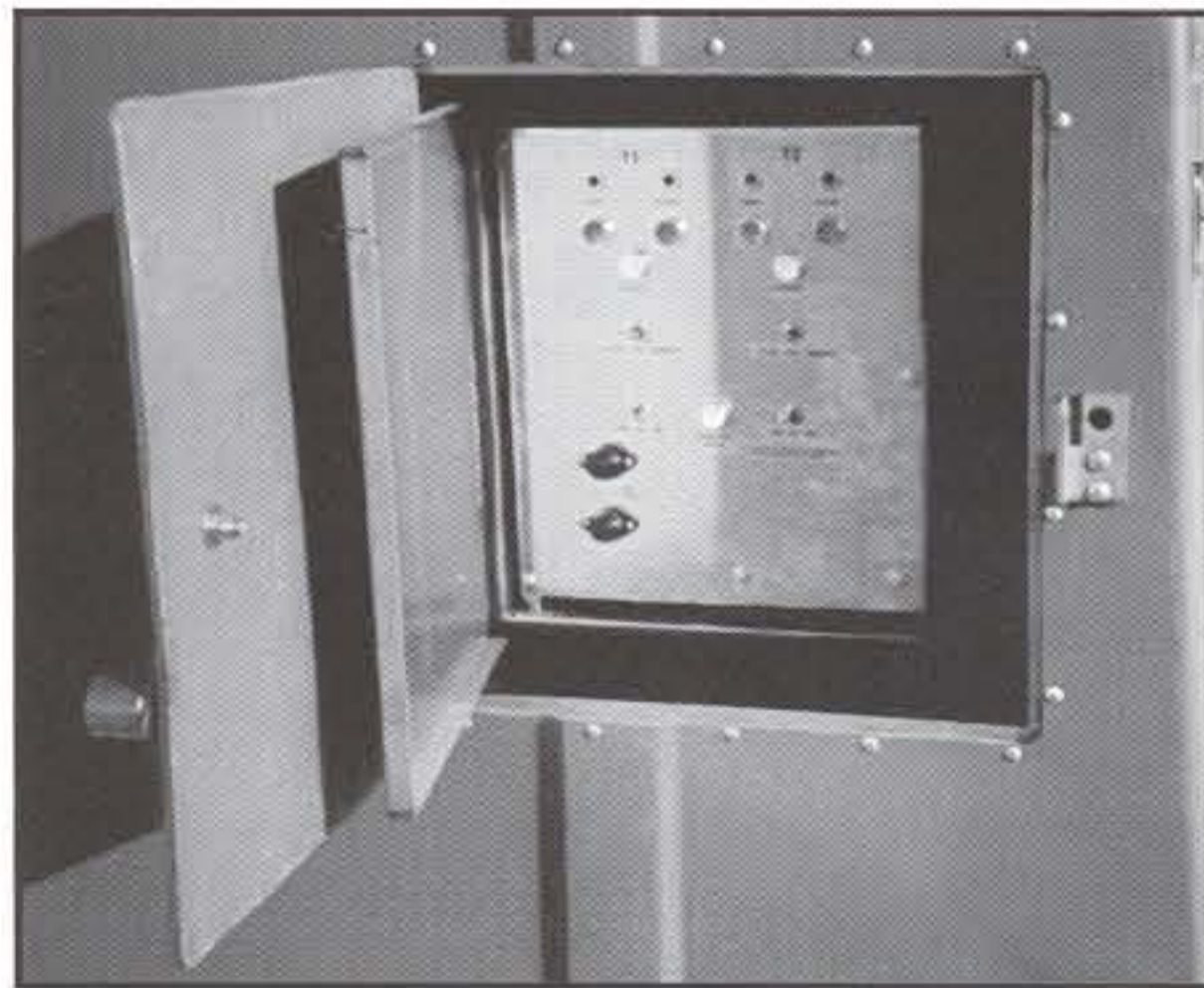
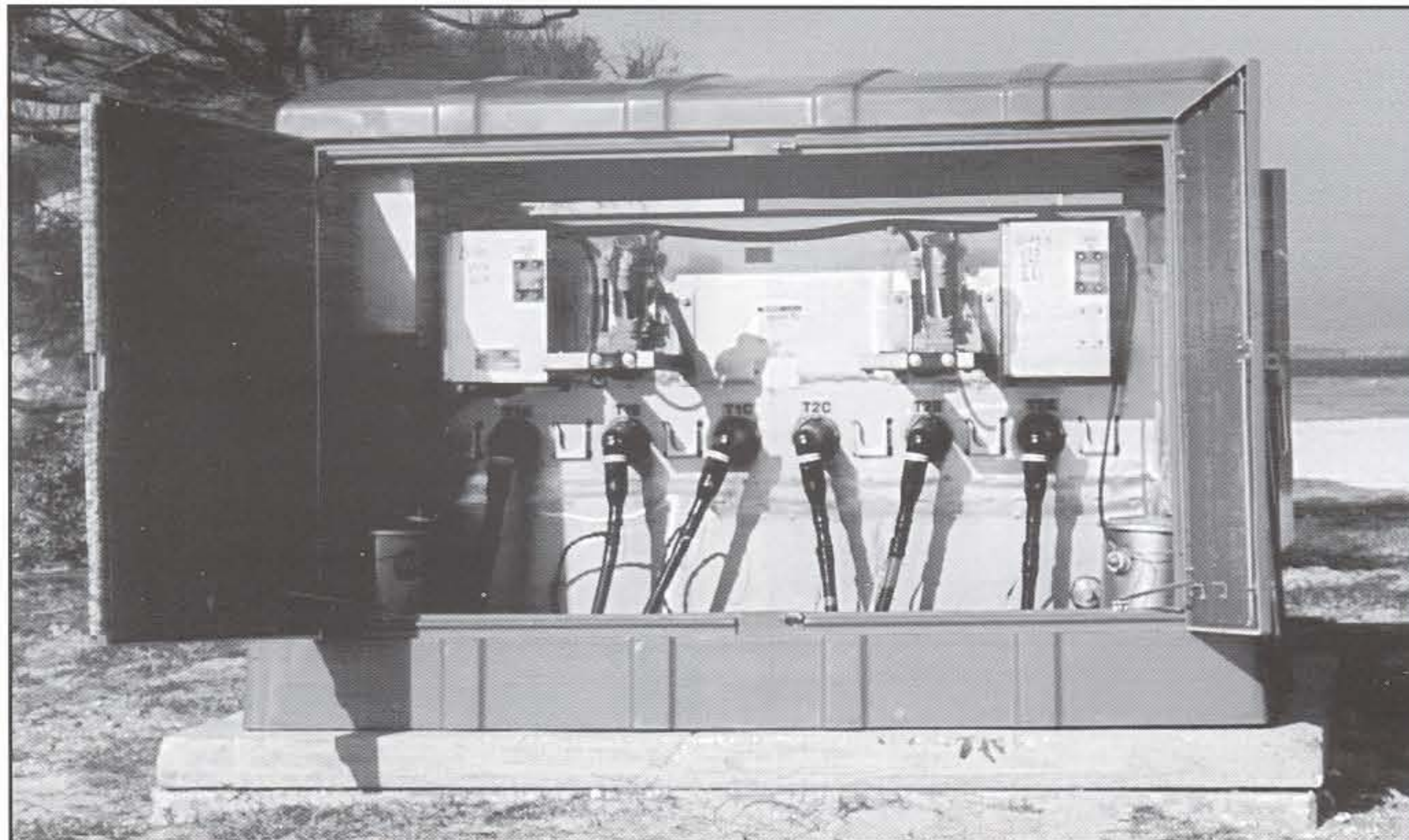


Vacuum/SF6 loadbreak switch with provisions for future remote operators.



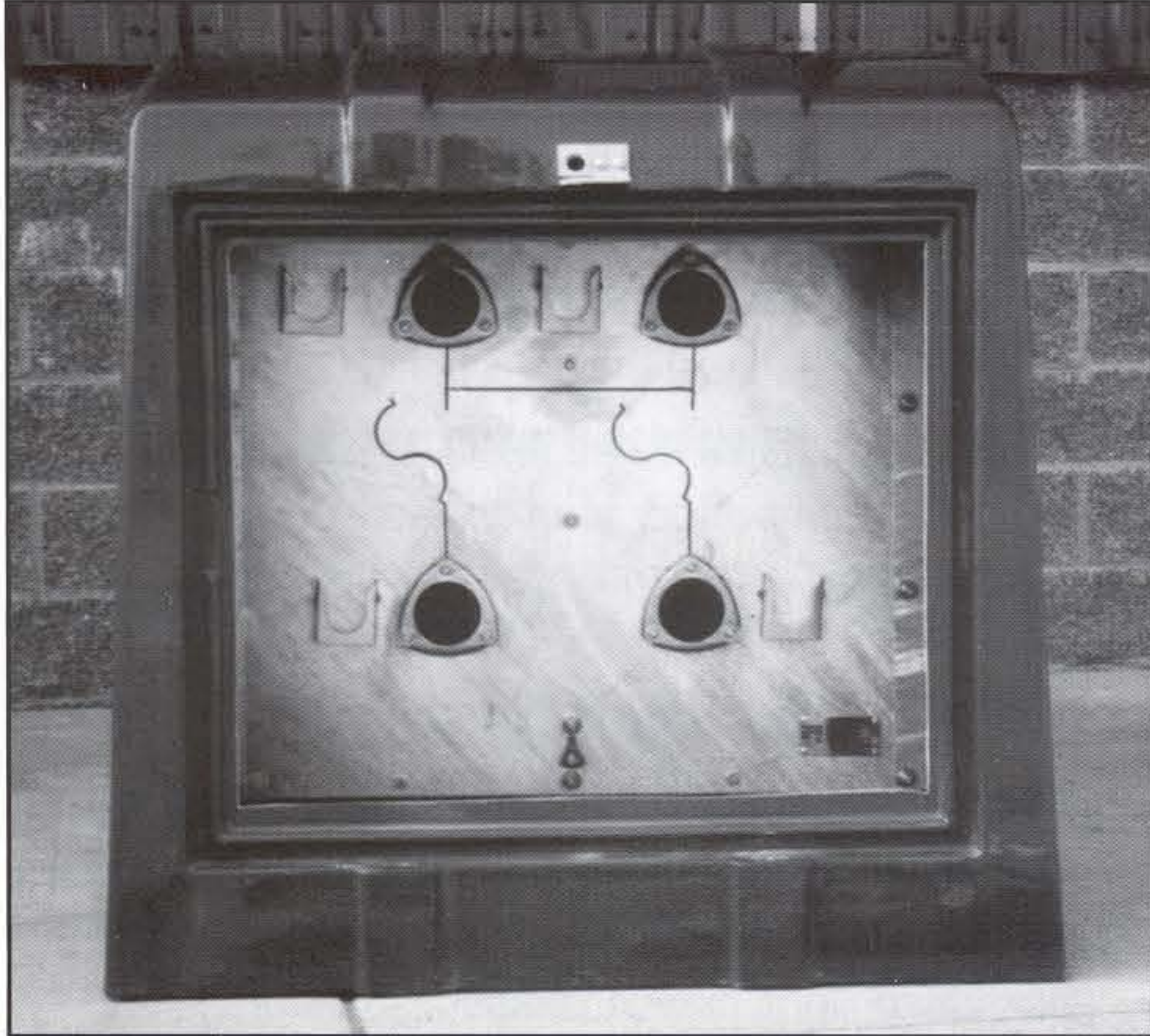
Remote operator control with provisions for local or SCADA control.



Vacuum/SF6 fault interrupting switch with remote operators for SCADA control.

## **BENEFITS:**

- ◆ **DESIGN VERSATILITY**  
Wide range of components are packaged in pre-engineered designs utilizing air, oil, SF6 and vacuum.
- ◆ **CUSTOM ENGINEERED DESIGNS**  
Allows modification of standard units to special fault interrupting units with SCADA controls.
- ◆ **FIBERGLASS ENCLOSURE**  
Strong, lightweight and corrosion free.
- ◆ **UV STABILIZED GELCOAT**  
Protects structural integrity.  
Standard light green color.
- ◆ **FIRE RETARDANT FIBERGLASS**  
Does not support combustion.
- ◆ **MEETS INDUSTRY STANDARDS**  
Applicable NEC, ANSI, IEEE, and NEMA standards.



Air insulated fusing with deadfront side for operator safety and cable sectionalizing.

## STANDARD DESIGN FEATURES:

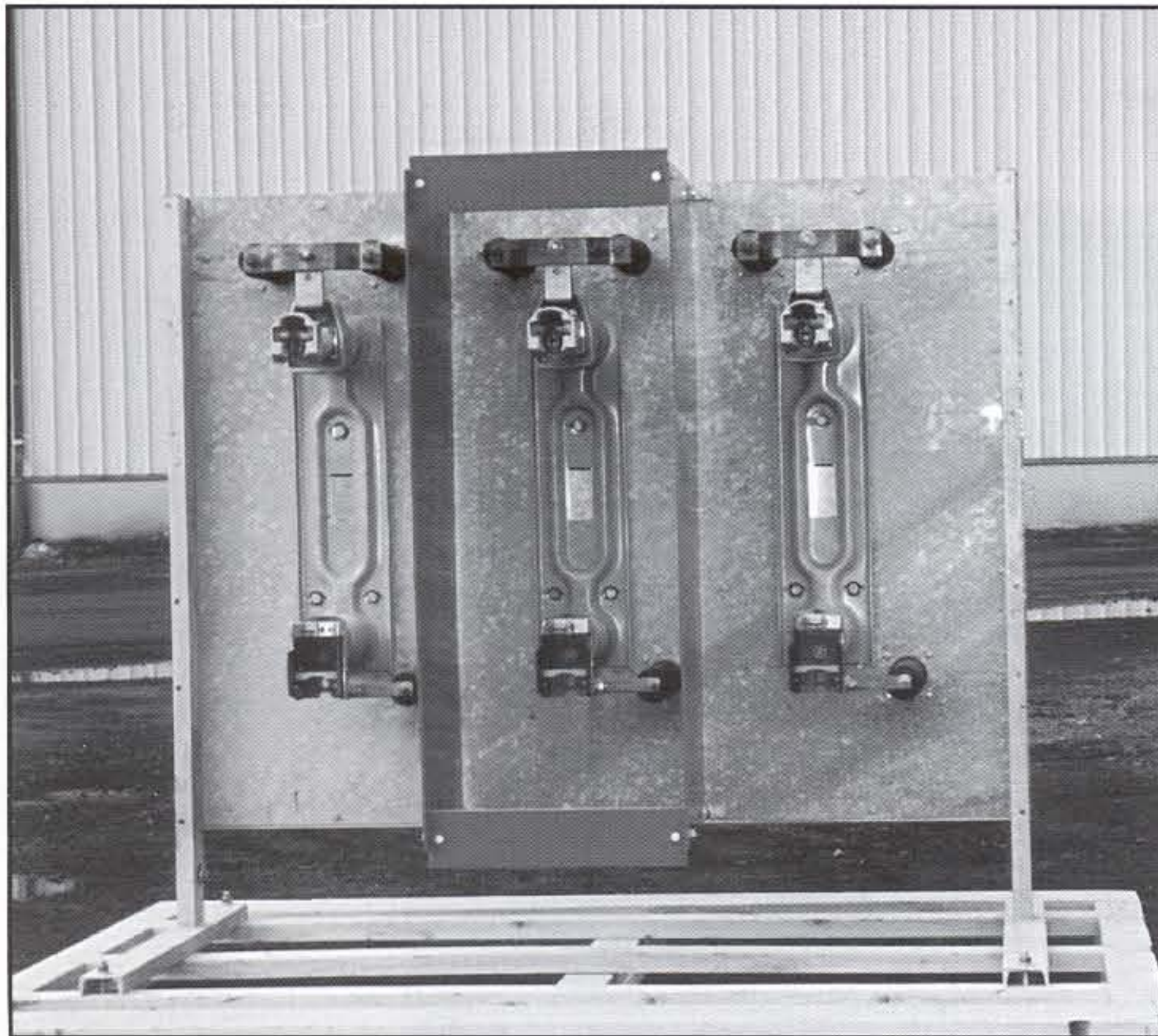
**ACCESS TO EQUIPMENT** through large door openings.

**LIFTOFF DESIGN** allows enclosure to be removed without disturbing enclosed equipment.

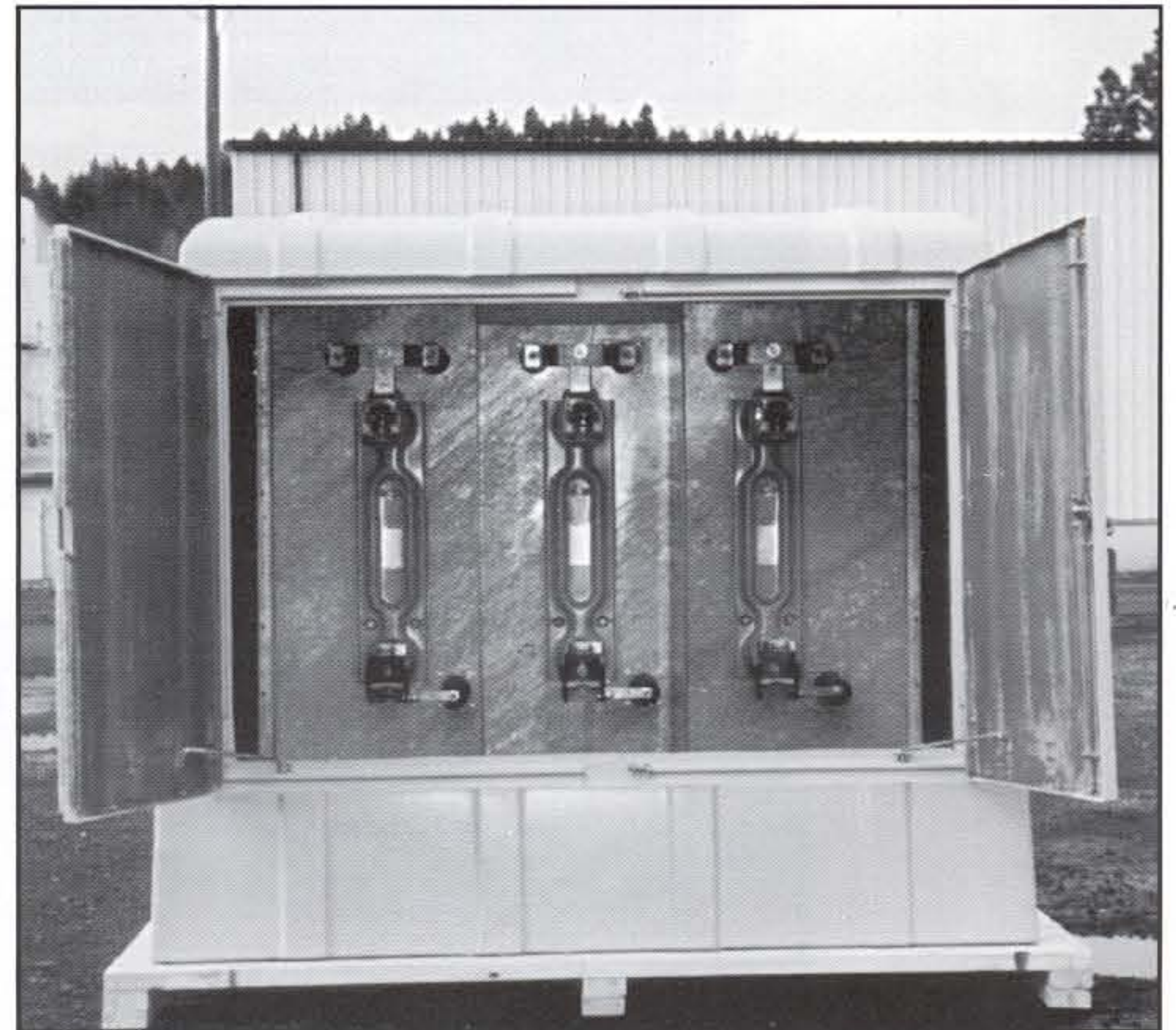
**ENCLOSURE COLOR** can be specified to match project requirements.

**FREE-STANDING FRAME** allows unobstructed access to equipment with enclosure removed.

**INNER DOORS** when livefront equipment is enclosed.



Different manufactures' components are available in a wide range of configurations.

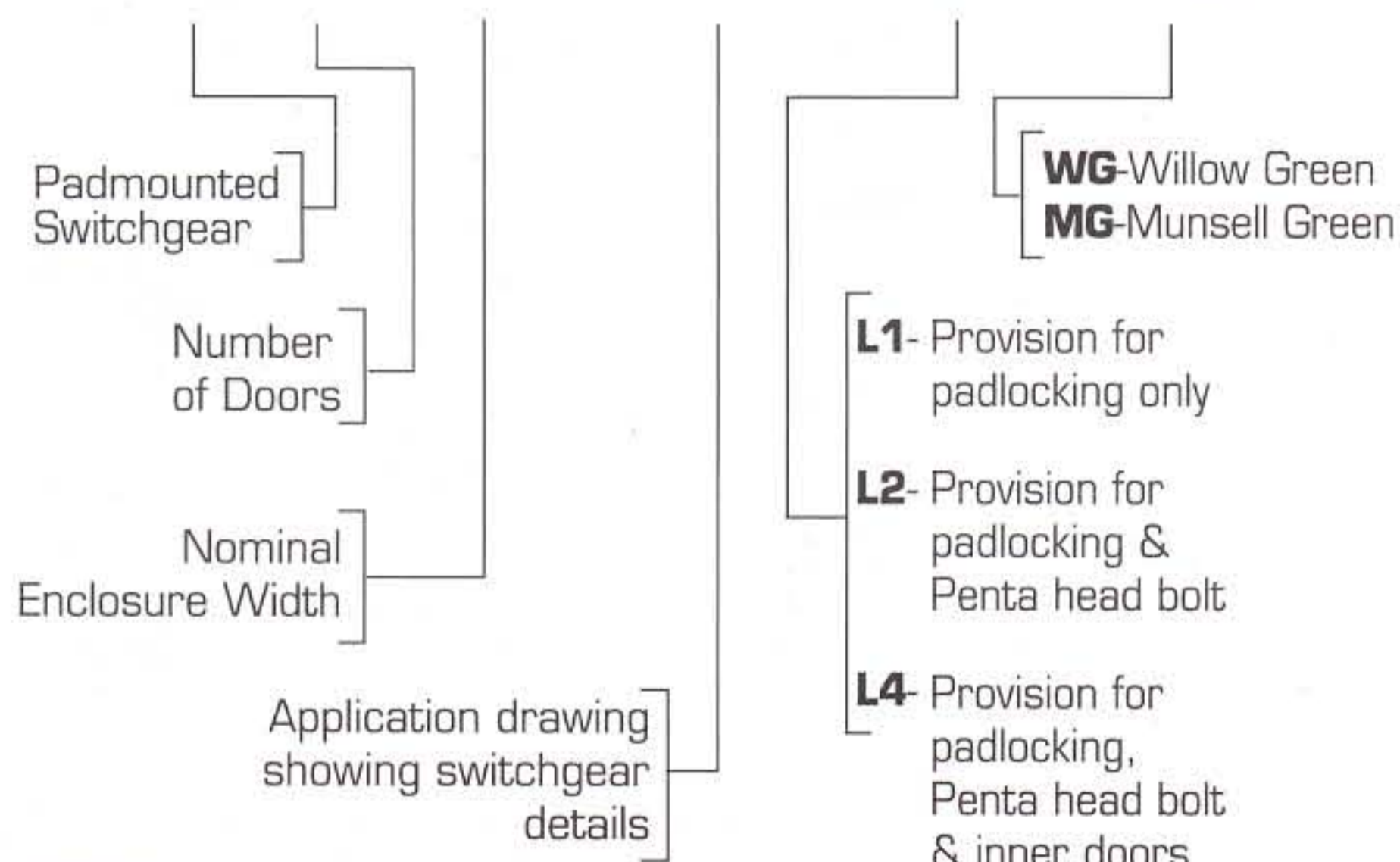


Enclosure drops over free-standing switchgear after installation is complete.

## ORDERING INFORMATION:

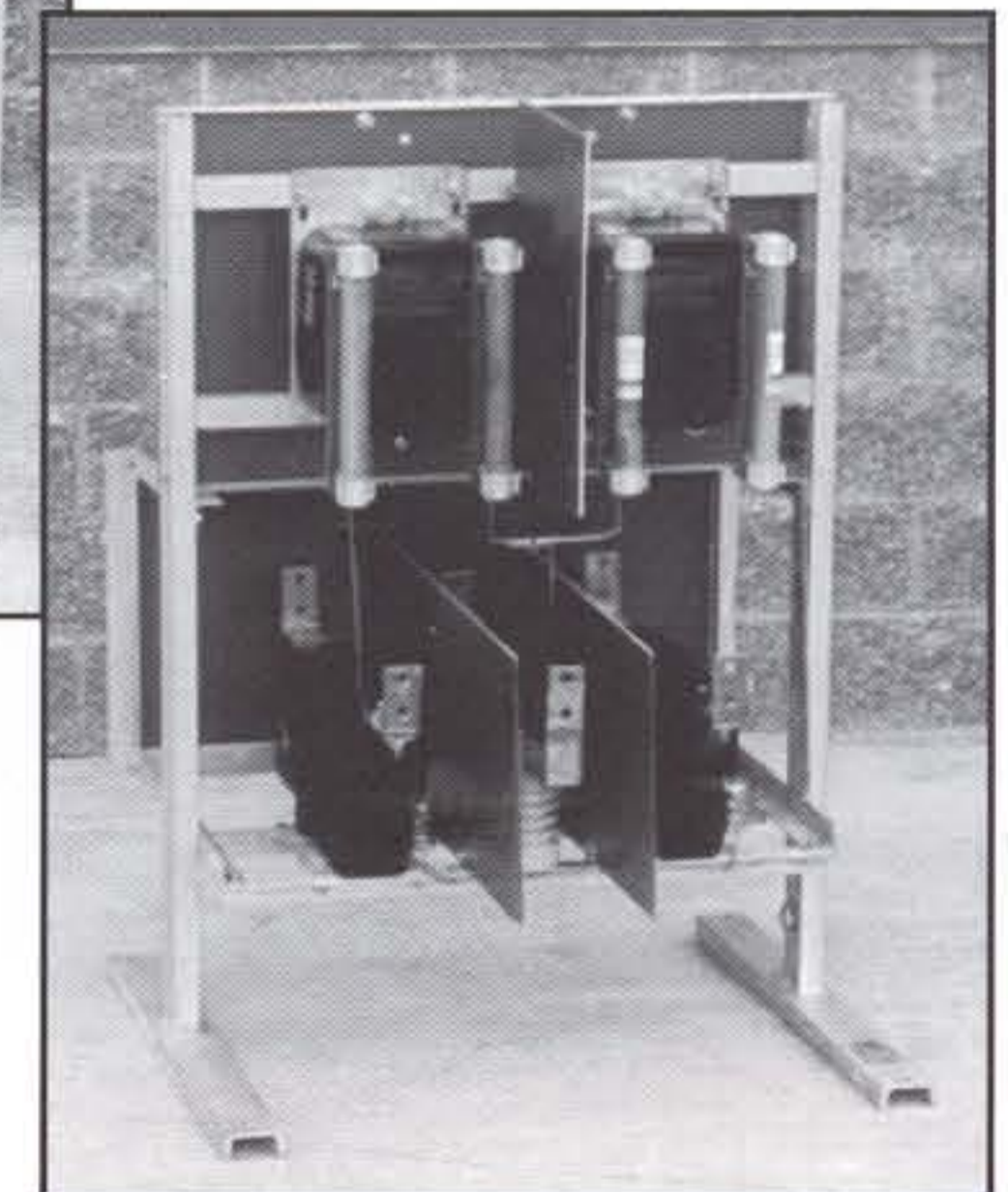
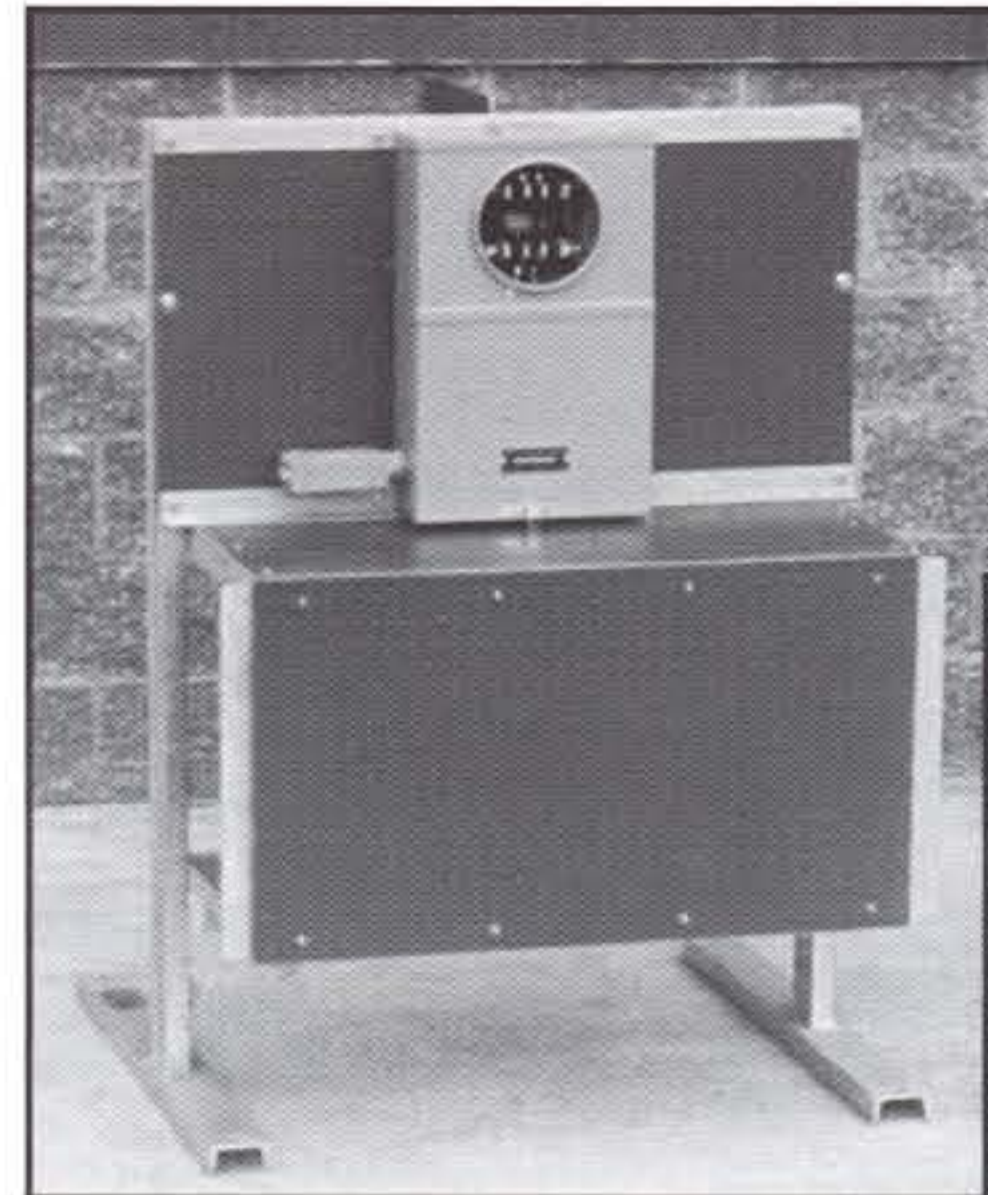
### EXAMPLE

PS 4 - 86 - 1122 - L2 - WG



### NOTE

Refer to individual switchgear application drawings for materials list, pad & anchor bolt dimensions, and equipment dimensions.



Air insulated three phase metering with meter base and secondary wiring.

## ELECTRICAL RATINGS:

### ◆ SWITCHING

**Livefront** 15KV 25KV 35KV  
 1200A continuous  
 40KA (asym) momentary

**Deadfront** 15KV 25KV 35KV  
 600A continuous  
 12KA (sym) interrupting  
 20KA (asym) momentary

### ◆ FUSING

**Livefront** 15KV 25KV 35KV  
 400A max.  
 50KA (sym) interrupting

**Deadfront** 15KV 25KV 35KV  
 400A max.  
 50KA (sym) interrupting  
 submersible

### ◆ METERING

15KV 25KV 35KV

### ◆ ATS SYSTEMS

15KV 25KV 35KV

### ◆ INTERRUPTION

air  
oil  
vacuum

### ◆ INSULATION

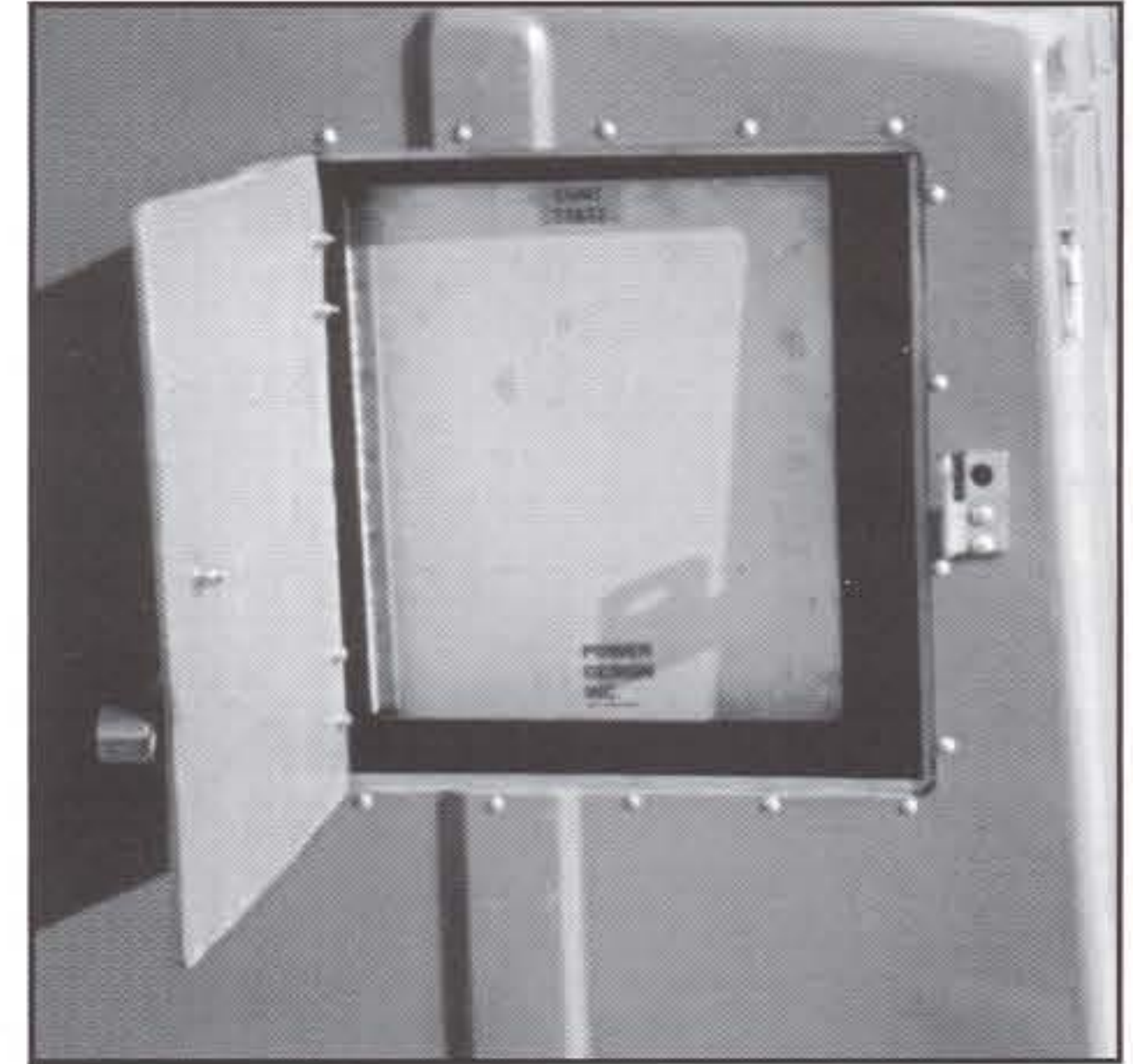
air  
oil  
SF6



## DETAILS:

**AIR SWITCH OPERATOR HANDLE** is accessed through side door and stored in pocket. Special locations and sizes are available upon request.

**REMOTE OPERATOR CONTROL CABINET** is housed behind side door to allow operator access to controls without being exposed to high voltage equipment.



## SPECIFICATIONS:

### 1.0 SCOPE

This specification applies to padmounted outdoor distribution switchgear. The unit shall be designed for mounting on a concrete pad at ground level. The switchgear unit shall be in complete conformance with all applicable NEC, ANSI, IEEE, and NEMA standards in addition to ANSI C57.12.28, Padmounted Equipment Enclosure Integrity Standard.

### 2.0 CONSTRUCTION

- 2.1 The switchgear components, dimensions and construction shall be as shown on the drawings.
- 2.2 The unit shall be constructed on a free-standing galvanized frame designed per applicable standards to withstand the electrical and mechanical stresses.
- 2.3 Frame lifting and grounding provisions shall be provided.
- 2.4 The unit shall be completely assembled and tested at the factory.

- 2.5 The switchgear shall be housed in a fiberglass outdoor, weatherproof housing sized to cover the unit and additional future equipment.
- 2.6 Fiberglass laminate shall be 3/16" nominal thickness except where local reinforcement is required.
- 2.7 Fiberglass shall not support combustion and be self extinguishing.
- 2.8 Enclosure exterior shall be gel-coated to .014 inch nominal thickness and be manufacturer's standard willow green color.
- 2.9 Locking device shall provide both a captive penta head bolt and padlocking provisions.
- 2.10 All enclosure hardware shall be made of 304 stainless steel.
- 2.11 Enclosure shall be removable without disturbing enclosed equipment.
- 2.12 A stainless steel identification plate shall be affixed outside the enclosure which identifies the manufacturer, model number of the equipment, and date of manufacture.

- 2.13 Stainless steel louvers shall be provided with stainless steel screen baffle for adequate air flow and heat dissipation as required for enclosed equipment.

### 3.0 TESTING & STANDARDS

- 3.1 The assembled switchgear unit shall have the following production tests performed:
  - A. Mechanical Inspection
  - B. Continuity Test
  - C. Dielectric Test
  - D. Enclosure Alignment
- 3.2 The switchgear shall meet or exceed all portions of the NEC, ANSI, IEEE, and NEMA standards applicable to the unit components.
- 3.3 Certified test data for the structural standards of the finished laminate shall be made available upon request.
- 3.4 The enclosure shall meet or exceed ANSI C57.12.28, Pad-mounted Equipment Enclosure Integrity Standard.

Terms and conditions of sale of products and warranties shall be in accordance with Power Design, Inc. Standard Terms and Conditions of Sale, which are available upon request.