

# Unit Substations

## 5 to 38 kV

### Features

- Primary load interrupter switches designed and built by Federal Pacific
- Primary voltages to 38 kV
- Available with dry-type transformers
- Secondaries from 240 VAC Including:
  - 600 volt power circuit breakers
  - 5 - 15 kV switchgear with fuses and load interrupter switches
  - 5 kV motor control centers
- Custom configurations - electrical and mechanical
- UL® listings on major components

Unit substations incorporating primary load interrupter switches, dry-type transformers and secondary switchgear, all by Federal Pacific can be arranged in virtually any configuration. For example, space restrictions within the service vault may limit assemblies to a "U" shape to optimize available floor area. Additionally, design flexibility allows development of both single and double-ended substations.

The ability to select a single supplier to design and construct substations and to furnish all the components affords distinct advantages. There is only one path for communicating requirements and design parameters . . . no confusion, no time lost in transmitting information through multiple hands. There is economic advantage in minimizing the number of suppliers in the chain of design, development, assembly and shipment. The substation can be completely assembled prior to shipment, insuring that all three major components will match, reducing installation time and eliminating any last minute on-site fabrication. With fabrication and assembly complete, the entire substation can be functionally tested both mechanically and electrically to verify the circuitry and capability.

A complete power monitoring scheme can be provided on FP switchgear for power quality analysis. In addition, metering transformers for sensing, control power and alarms are readily integrated into FP substations.



*Primary Load Interrupter Switch with Fuses*



*Custom-Designed 2500 kVA Substation*