



August 16, 2024

Proposal No. 302082R1

Project Name: City of Seguin
Sourcewell Contract number# 091422-WES

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We are pleased to submit our quotation for the following **Federal Pacific** product.

Comments/Clarifications

- FP switchgear shall conform to the applicable standards of ANSI, NEMA & IEEE.
UL Listing is not provided.
- Lugs, bushing inserts, and cable terminations are not provided.
- Specification not provided. The customer is responsible for viewing this quotation for compliance, deviations, exclusions, and improper information supplied. If you feel an error or omission has been made, please contact the factory immediately.
- It is the customers responsibility to present this proposal to the utility for approval (if required).
- Refer to layout sketch (Figure #1) for component placement. The Sources are in position #1 and position #2 and the Load way is in position #3. The Source Ways consist of Tavruda ISM circuit breakers in series with a load break disconnect switch (AutoJet). The Load Way consist of a Tavruda ISM circuit breaker. Transfer is accomplished by controlling the source ISM breakers with an SEL-451 relay. The load way ISM breaker is controlled by the SEL-751 relays.
- SEL-751 Relay programming is not included in the scope of this offer. The SEL-451 will be preloaded with Federal Pacific's Auto-Transfer program for two source ways.
- **Due to global supply chain disruptions, outside vendor components might affect quoted lead-time.**

ITEM #1: One (1) 15KV Automatic Transfer Padmount Switchgear Catalog # ATPSV-443340XX

Federal Pacific Dead-front Padmount Switchgear assembly (See Figure #1)

Compartment 1 (Source)

Qty. (1) 15kV, 600A, Air load break, visible blade, Federal Pacific Auto-Jet switch with AUX contact for monitoring switch position

Qty. (1), Three phase, Tavruda magnetically operated ISM15-LD circuit breaker.

Qty. (3) Relay accuracy CTs, GE/ITI Model 113-201, or equal, relay class C50

Qty. (3) 15kV, 200Amp, IEEE 386 bushing wells for cable terminations of power cables

Qty. (3) 15kV, fused, single bushing, metering accuracy voltage transformer (VT) for voltage sensing and control.

Compartment 2 (Source)

Qty. (1) 15kV, 600A, Air load break, visible blade, Federal Pacific Auto-Jet switch with AUX contact for monitoring switch position

Qty. (1), Three phase, Tavruda magnetically operated ISM15-LD circuit breaker.

Qty. (3) Relay accuracy CTs, GE/ITI Model 113-201, or equal, relay class C50

Qty. (3) 15kV, 200Amp, IEEE 386 bushing wells for cable terminations of power cables



Qty. (3) 15kV, fused, single bushing, metering accuracy voltage transformer (VT) for voltage sensing and control.

Compartment 3 (Load)

Qty. (1), Three phase, Tavrda magnetically operated ISM15-LD circuit breaker.

Qty. (3) Relay accuracy CTs, GE/ITI Model 113-201, or equal, relay class C50

Qty. (3) 15kV, 200Amp, IEEE 386 bushing wells for cable terminations of power cables

Compartment 4 (Load)

Qty. (1), Three phase, Tavrda magnetically operated ISM15-LD circuit breaker.

Qty. (3) Relay accuracy CTs, GE/ITI Model 113-201, or equal, relay class C50

Qty. (3) 15kV, 200Amp, IEEE 386 bushing wells for cable terminations of power cables

Qty (1) Control cabinet to be mounted on the side of the enclosure in which Federal Pacific will mount the following:

Qty (1) SEL-451 transfer package, P/N 04515215XB4X13341XXXX (Figure 2)

Qty (2) SEL-751 protection relays for feeder circuits, P/N 751402B0X0X0X851D00 (Figure 3)

Qty (4) Circuit Breaker control modules, Tavrda control modules

Qty (1) Altech UPS, 24V, 14 Ah

Qty (1) Thermostatically controlled, non-condensation heater, independent of the heater in the medium voltage compartment.

General Equipment Characteristics:

Outdoor Padmount Construction

Approximate footprint dimensions are 60"H x 75"W x 72.5"D.

Unit must be lifted from the top with lifting brackets provided.

Control cabinet located on side of the switchgear adds approximately 18" to total width.

Enclosure is Mild Steel

Finish: Munsell Green (Or TBD)

Space heaters with thermostat (control power from within the assembly)

Equipment Ratings:

Voltage: 15kV

Current: 200A

Frequency: 60HZ

Interrupt rating: 20kA Sym.

BIL rating: 95kV

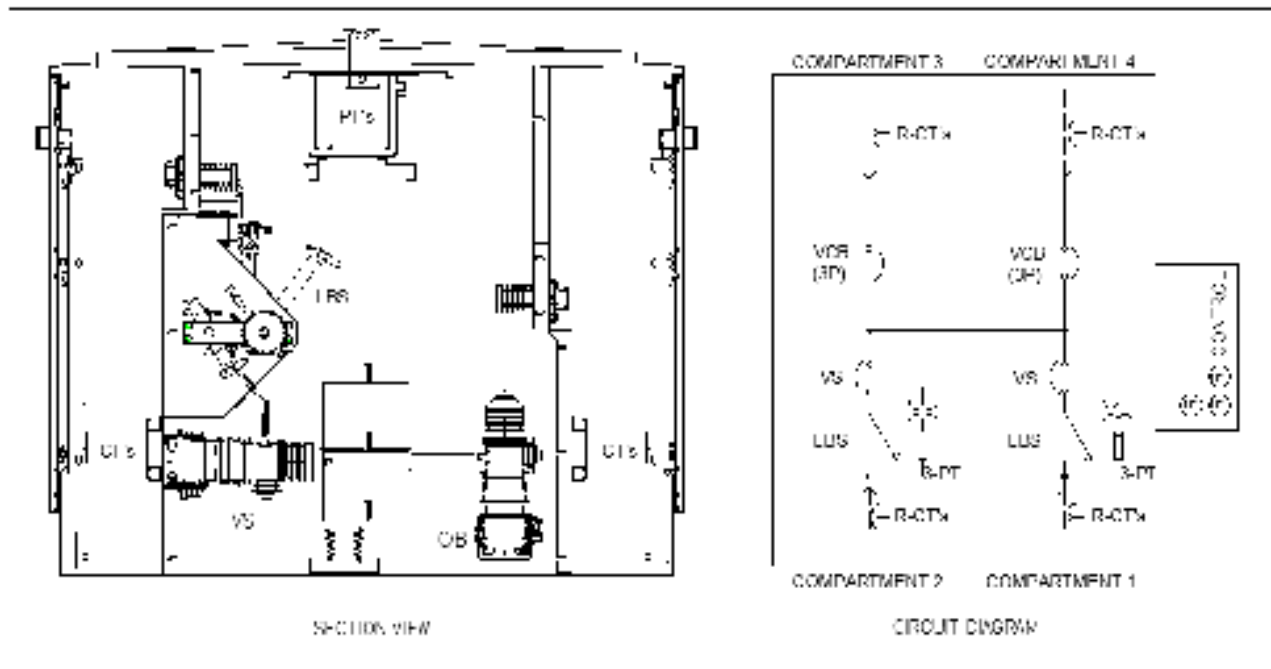


Figure #1 - Preliminary Layout - Section View (Subject to Final Engineering)

SEL-451 With Conventional Secondary Inputs

Category	Selection	Part Number																				
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Power Supply	24-48 Vdc			2																		
Connector Type	Screw Terminal Block			1																		
Secondary Input Current	5 A Phase					5																
Secondary Input Voltage	300 V Phase - Neutral/Maximum/Wye									X												
Ethernet Communications Protocol	FTP, Telnet, Synchroscan, and DHCP LAN/WAN									5												
Ethernet Connector Options	Ports EC, ED, Ethernet Cold with One 10/100BASE-T, One 100BASE-FX Connector												4									
Manifold Input Voltage	24 Vdc																				5	
Mounting	Horizontal Panel Mount																					2
Chassis	4U Front Panel With 24 Target LEDs, 12 Operator Control Pushbuttons, and Tri-Color LEDs																					3
IO Board Position B	24 Configurable Level-Sensitive Inputs, 8 Outputs																					4 1
IO Board Position B Input Voltage	24 Vdc																					4 1
IO Board Position C	N/A																					X 5
IO Board Position C Input Voltage	N/A																					X 5
IO Board Positions D and E (Same IO Type, Utilizing the Selected Manifold Input Voltage)	N/A																					X
Conformal Coat	None																					X
Print Overlay	Standard																					X

Figure #2 – SEL-451 Relay Configuration



SEL-751 Feeder Protection Relay

		Part Number																		
		7	8	1	4	9	2	8	0	X	0	X	0	X	8	5	1	D	0	0
Category	Selection	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Advanced Features	Relaying and Directional						4													
User Interface	English						0													
Relay Panel	2x16 LCD With 4 Pushbuttons																		1	
Slot A Power Supply Voltage	24-48 Vdc																			
Slot A Digital Input Voltage	24 Vdc/Vac																			
Slot B Ethernet (Port 1)	Single 10/100BASE-T Ethernet																			D
Slot B Multimode Fiber ST (Port 2)	No																			D
Slot B Rear Serial Port (Port 3)	RS-485																			D
IEC 61850 Protocol	No																			D
IEC 61850-9-2 Protocol	No																			D
IEC 60870-5-103 Protocol	No																			D
SmartFTP Protocol	No																			D
Slot C	Empty																			
Slot C Digital Input Voltage	NA																			
Slot D	Empty																			
Slot D Digital Input Voltage	NA																			
Slot E	Empty																			
Slot E Digital Input Voltage	NA																			
Slot Z Voltage Inputs	3-Phase AC Voltage (300 Vdc)																			
Slot Z Current Inputs	3 Amp Phase, 5 Amp Neutral																			
Compliance Code	NA																			

Figure #3 – SEL-751 Relay Configuration

Price for Item #1: \$162,800.00 Net Each

Terms and Conditions Normal shipment shall begin within approximately 42-46 weeks after our acceptance of your formal purchase order, and you manufacturing release authorization with all required details. When drawing approval is required, the shipment date will be delayed by the time necessary for the release authorization process. Approval drawings will be submitted approximately 6-8 weeks after our order acceptance. If a better shipping schedule is required, please consult the Factory.

This quotation is valid for 30 days from August 16, 2024.