



March 7, 2024

Proposal No. 301700R2

Project Name: JEO Consulting / City of Crete

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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.
- Relay programming is not included in the scope of this offer but may be an option based on the requirements.
- Specification not supplied. 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.
- Providing FP PSV type pad mounted switchgear as described below. No other product offering is stated or implied.
- **Due to global supply chain disruptions, outside vendor components might affect quoted lead-time.**

ITEM #1: One (1) 15kV Outdoor Padmount Type Switchgear PSV-446666XX-T7

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

Bay #1

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, 800A Tavrida magnetically operated ISM15-LD circuit breaker.

Qty. (3) Relay accuracy CTs, GE/ITI Model 115-601 or equal, relay class C50 min

Qty. (3) 15kV, 600Amp, IEEE 386 bushings for cable terminations of power cables

Bay #2

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, 800A Tavrida magnetically operated ISM15-LD circuit breaker.

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

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

Qty. (3) Fused Potential Transformer (PT), 15kV class, single bushing, 1500/1000 VA for Sensing/Control. PT's connected to the Tie Bus.

Bay #3

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, 800A Tavrida magnetically operated ISM15-LD circuit breaker.

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

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

**Bay #4**

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, 800A Tavrida magnetically operated ISM15-LD circuit breaker.

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

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 (4) SEL-751 relay, P/N 751402B0X0X0X851D00 (Figure #3)

Qty (4) Circuit Breaker control module, Tavrida control module

Qty (8) Pilot Lights

Qty (4) Breaker Control switches

Qty (1) Local/Remote switch

Qty (4) FT-1 Test Switches

Qty (1) Altech UPS, CB12420A with 14Ah batteries

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 65.375"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.

11 Gauge Hot Rolled Pickled and Oiled Steel

Finish: Munsell Green

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

T7 mounting provisions only with viewing window, to accommodate one three-phase fault indicator in each switch compartment with fault indicator viewing window on associated door.

Equipment Ratings:

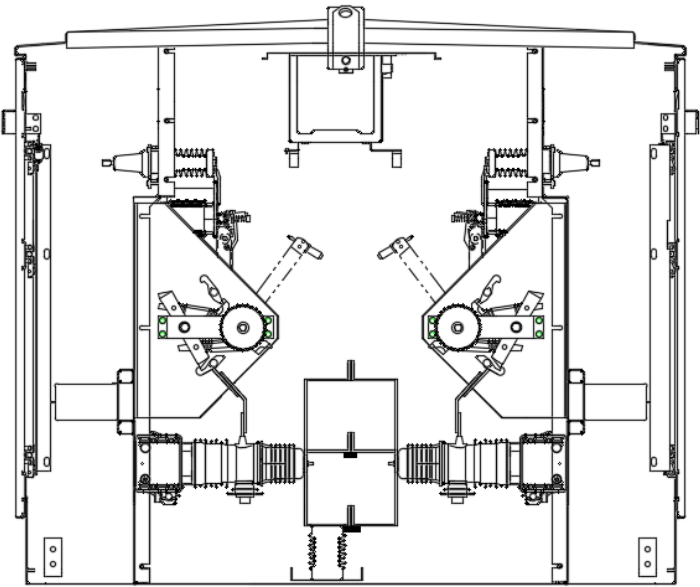
Voltage: 15kV

Current: 200/600A

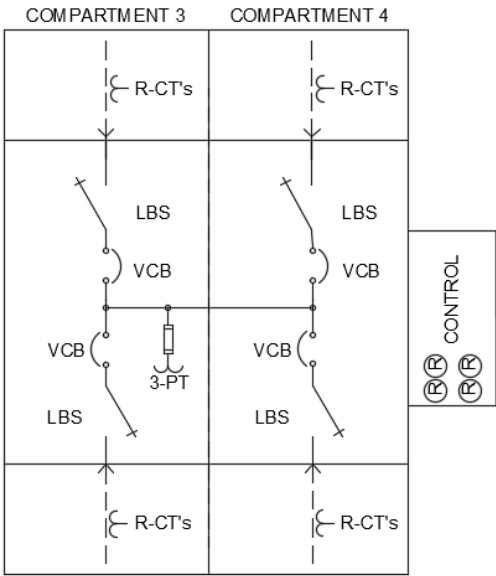
Frequency: 60HZ

Interrupt rating: 20kA Sym.

BIL: 95kV



SECTION VIEW



CIRCUIT DIAGRAM

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



SEL-751 Feeder Protection Relay

Part Number		7	5	1	4	0	2	B	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	Reclosing and Directional				4															
User Interface	English					0														
Front Panel	2x16 LCD With 4 Pushbuttons															1				
Slot A Power Supply Voltage	24-48 Vdc					2														
Slot A Digital Input Voltage	24 Vdc/Vac							B												
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)	EIA-485																	D		
IEC 61850 Protocol	No																		0	
DNP3 Protocol	No																		0	
IEC 60870-5-103 Protocol	No																		0	
EtherNet/IP Protocol	No																		0	
Slot C	Empty								0	X										
Slot C Digital Input Voltage	NA								0	X										
Slot D	Empty										0	X								
Slot D Digital Input Voltage	NA										0	X								
Slot E	Empty												0	X						
Slot E Digital Input Voltage	NA												0	X						
Slot Z Voltage Inputs	3-Phase AC Voltage (300 Vac)														8					
Slot Z Current Inputs	5 Amp Phase, 5 Amp Neutral															5				
Conformal Coat	No																			0

Figure #2 – Relay Configuration

Price for Item #1: \$142,855 Net Each

Terms and Conditions

Normal shipment **shall begin** within approximately 40-45 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.

In the event shipment date is extended for any reason, we reserve the right to revise the price or revoke our quote. Hold for approval orders not released within 30 days after receipt of our approval drawings shall be



reviewed and subject to price increase. The Shipment Date is subject to change at time of order release based on raw material and component lead times.

Freight will be **EXW Factory** allowed to **NE** with the seller paying the freight. The seller will determine the method of transportation and the routing of the shipment. Where the purchaser requires shipment by a method of transportation or routing other than that of the seller's selection, any additional transportation and/or packing expense is to be borne by the purchaser.

All transactions are subject to EMC's Sales Terms and Conditions found at: <http://www.electro-mechanical.com/pdf/EMC-Sales-Terms-and-Conditions.pdf>. Please contact your customer service representative if you are unable to access the site listed above.