

City of Crete, NE 243 East 13th Street Crete, NE 68333

RE:

Crete, Nebraska

Solar Farm Assistance JEO Project No. 222218

City Council:

JEO Consulting Group, Inc. has received bids for padmounted switchgear for connections of the solar system. The switchgear is also planned for future connections of a well and wastewater treatment facility.

Bid 1 – EMC, \$111,517 Delivery 38-42 weeks, Manufacture - Federal Pacific

Bid 2 – Border States, \$93,422.22 Delivery 80-82 weeks, Manufacture – S&C

Bid 3 – WESCO, \$95,545.00 Delivery 82 weeks, Manufacture – S&C

The solar system design includes a riser with cutouts for connections to the spacer cable distribution system. The design is for blades to be installed and temporary fuses will be installed, until the switchgear arrives. The City has a similar S&C padmounted switchgear at the Purina Facility, to keep like products, for maintenance and operation purposes, S&C switchgear is preferred. Bid 2 - Border States is low bid and recommended.

Respectfully submitted,

David R. Peterson, P.E.

Sr. Electrical Engineer



Border States - OMA 10404 J St Omaha NE 68127-1020 Phone: 402-331-2001

> CRETE-CITY LIGHT DEPT PO Box 86 CRETE NE 68333-0086

Quote

Page: 1 of 1

Quote: 27189851 Sold-To Acct #: 210065

Valid From: 08/31/2023 To: 01/18/2024 Payment Terms: Net 25th prox

Created By: Neal Chromy Tel No: 402-512-7090

Fax No:

Inco Terms: FOB ORIGIN

Ship-to: CRETE-CITY LIGHT DEPT 320 W 9TH ST CRETE NE 68333-2725

Order Note:

S&C NOTES:

Quote good to 1/18/2024

Cust Item	Item	Material MFG - Description	Quantity	Price Per	- UoM	Value
	000010	- 934042R1-F4L2OP4T4 VOLTS: 15.5 AMPERES: 600 COLOR: OLIVE GREENVIST/ SWITCHGEAR OUTDOOR DIS MODEL 404		93,422.22 /	1 EA	93,422.22
-		Lead-time for the quoted materia	l is approximately 80-82 weeks after i	eceipt of you	r formal purch	nase order.
			Total \$ State Tax \$ County Tax \$ Local Tax \$ Other Tax1 \$ Other Tax2 \$ Other Tax3 \$ Tax Subtotal \$	5.500 % 0.000 % 2.000 % 0.000 % 0.000 % 0.000 % 7.500 %	5,138.22 0.00 1,868.44 0.00 0.00 0.00	93,422.22 7,006.66
			Net Amount \$			100,428.88

To access Border States Terms and Conditions of Sale, please go to https://www.borderstates.com

The quoted sales tax is an estimate only based upon the information provided in this quote and will be finalized at the time of Invoice based upon the material purchased, quantity purchased, and delivery location

Shipping and handling fees in this quote are an estimate only and will be finalized at the time of Invoice.

All clerical errors contained herein are subject to correction. In the event of any cost or price increases from manufacturers or other suppliers, caused by, but not limited to, currency fluctuations, raw material or labor prices, fuel or transportation cost increases, and any import tariffs, taxes, fees, or surcharges, Border States reserves the exclusive right to change its pricing at the time of shipping and will provide notice of any such change to its customers prior to costs being incurred.



CRETE

CITY OF CRETE 320 WEST 9TH ST

ELECTRICAL DEPARTMENT

NE 683332725

To:

FAX 712-255-3482 SIOUX CITY

IA 51101

Quotation

2501 - E 3RD ST

UNLESS THERE ARE DIFFERENT OR ADDITIONAL TERMS AND CONDITIONS CONTAINED IN A MASTER AGREEMENT THAT MODIFY WESCO'S STANDARD TERMS, BUYER AGREES THAT THIS QUOTE AND ANY RESULTING PURCHASE ORDER WILL BE GOVERNED BY WESCO'S TERMS AND CONDITIONS AVAILABLE AT HTTP://WWW.WESCO.COM/TERMS_AND_CONDITIONS_OF_SALE.PDF, WHICH TERMS ARE INCORPORATED HEREIN BY REFERENCE AND MADE PART HEREOF. PLEASE CONTACT THE SELLER IDENTIFIED ON THIS QUOTE IF YOU REQUIRE A PRINTED COPY.

Date: 12/20/23

Branch: 7854

Project Number: VISTA GEAR

Project Name Quoted To:

Date of Your 09/06/23 Inquiry:

When ordering please refer to Ouotation Number:

233223

10 1 S&C***934042R1-F4L2OP4T4 VISTA GEAR 15KV 600A VISTA UG SWTCHGEAR, MODEL 404, 82 WEEKS DELIVERY SUB-TOTAL ESTIMATED TAX 95545.00 0.00 0.00 95545.00 95545.00 95545.00 7165.88	Item	Quantity	Catalog Number and Description	Unit Price	U/M	Total Price	Rate of Cash Discount	Shipping Time (Weeks)	Customer Delivery Date
SWTCHGEAR, MODEL 404, 82 WEEKS DELIVERY SUB-TOTAL 95545.00	10	1		95545.000	Е	95545.00			09/30/25
82 WEEKS DELIVERY SUB-TOTAL 95545.00			15KV 600A VISTA UG	. 113	-			x 11 =	
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ESTIMATED TAX 7165.88			SUB-TOTAL			95545.00			
TOTAL 102710.88							19		

F.O.B. Point of Shipment. The prices stated in this offer shall, unless renewed, automatically expire fifteen days (15) from the date of this offer. Prices quoted are subject to adjustment should Duty and Tariff rates change from time of bid/quotation to time of order. WESCO reserves the right to adjust its pricing for Goods affected directly or indirectly by changing duties/tariffs/trade agreements and significant currency fluctuations. Per:



P.O. Box 8200 • Bristol, VA 24203-8200 (276) 669-8844 www.electro-mechanical.com

November 16, 2023

Proposal No. 301700R1

Project Name: JEO Consulting / City of Crete

To:

Jeff Keech

Robert Booth

From:

Colby Lovins

Telephone:

(276) 645-8802

e-mail: colby.lovins@electro-mechanical.com

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 113-201or 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



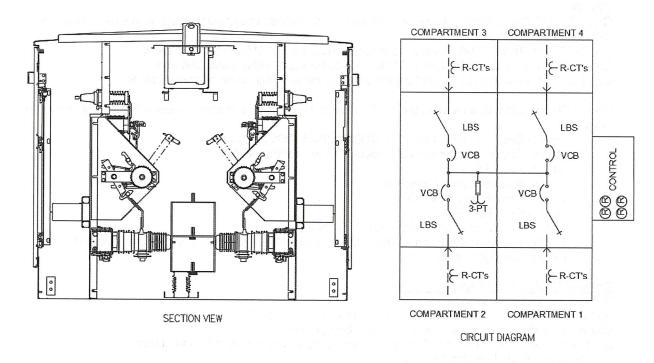


Figure #1 - Preliminary Layout - Section View (Subject to Final Engineering)



SEL-751 Feeder Protection Relay

	Part Number	7	5	1	4	0	2	В	0	X	0	X	0	X	8	5	. 1	D	0	0
Category	Selection		2	3	+	5	c	7	8	9	10	. 11	12	13	14	15	16	17	18	19
Advanced Features	Reclosing and Directional				4															
UserInterface	English					0														
Front Panel	2x16 LCD With 4 Pushbuttons																1			
Slot A Power Supply Voltage	24-48 Vac						2													
Slot A Digital Input Voltage	24 Vdc/Vac							В												
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	Х										
Slot C Digital Input Voltage	NA								0	Х										
Slot D	Empty										0	Х								
Slot D Digital input Voltage	NA										0	×								
Slot E	Empty												0	X						
Slot E Digital Input Voltage	NA												0	Х						
Slot Z Voitage 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: \$111,517 Net Each

Terms and Conditions

Normal shipment <u>shall begin</u> within approximately 38-42 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 2-4 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.

2023 **CRETE SOLAR FARM** CRETE, NE

OWNER:

NAME: CONTACT INFO:

BRIAN SCHMIDT CRETE ELECTRIC LINE SUPERINTENDENT PHONE: 402.418.2801
EMAIL: brian.schmidt@crete.ne.gov

ENGINEER:

SUBMITTING ORGANIZATION

JEO CONSULTING GROUP, INC. 1937 N CHESTNUT ST, WAHOO, NE 68065 P: 800.723.8567

COORDINATING PROFESSIONAL

DAVE PETERSON
JEO CONSULTING GROUP, INC.
404 SOUTH 25TH STREET, SUITE B
NORFOLK, ME 68701
P: 402.750.4820
EMAIL: DPETERSON@JEO.COM

INDEX OF SHEETS:

E0.1 E0.2 E1.1 E1.2 E2.1 E3.1 SHEELS:
SHEET NAME:
COVER SHEET
SYMBOLS AND ABBREVIATIONS
ELECTRICAL UTILITY PLAN
ONE-LINE DIAGRAM
ELECTRICAL DETAILS
STAKING SHEETS & ESTIMATED QUANTITIES



LOCATION MAP



ALL SITE PLAN INFORMATION IS BASED UPON US SURVEY FEET (sFT)

E.02

TELEPHONE PEDESTAL LIGHT POLES

GROUP OPERATED SWITCH

U.S. UNDERSTOND OF THE NAME OF

HERE SERVICES SERVICE

8.0. Subject of Nation (1997)

ABBREVIATIONS

BOUNDARY LINE
CENTER LINE
FLOWLINE
PROPERTY LINE
ANGLE
DELTA OR CHANGE
CLAMETER
PERFENDICULAR
PLUCAMBUS
POUND OR NUMBER

PULSANUS
PULSANUS
PULSANUS
PULSANUS
ARE ODERNIA
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POSTED ON AUGUST |
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#

UTILITY POLE NUMBER DESIGNATIONS

SYMBOLS CAS METER
CAS VALVE
FIRE HYDRANT
WATER VALVE
ALARM MANHOLE

PAGED COLL INCIDENCE SEGMENTS HOMA 39 HOM-HUBBLE DECOMENTS HOMA 39 HOM-HUBBLE DECOMENTS HOMA 39 HOME HUBBLE HUBBLE SEGMENTS HOME SEGMENTS HOME SEGMENTS HOME HUBBLE HUBBL

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TRANSCLOSURE
PAD MOUNT TRANSFORMER 19 & 39
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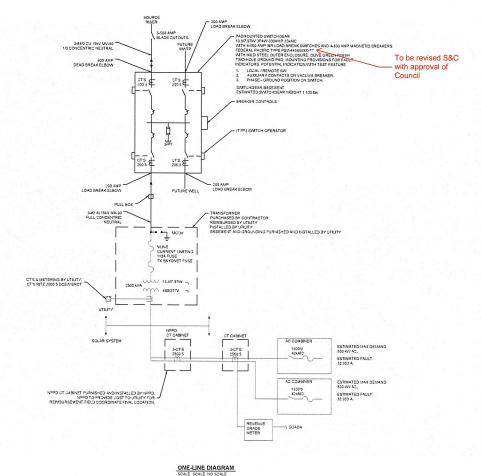
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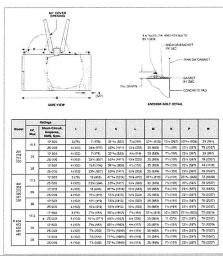
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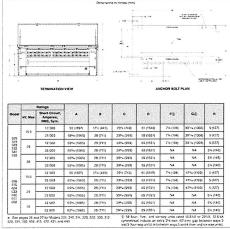
2023 CRETE SOLAR FARM CRETE, NE

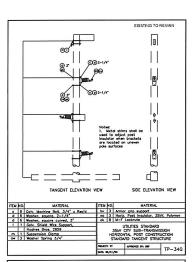


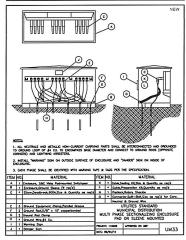
E1.2

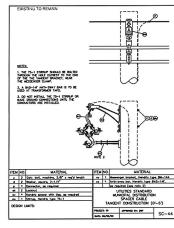


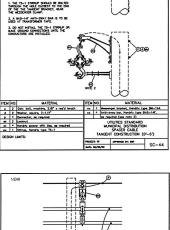


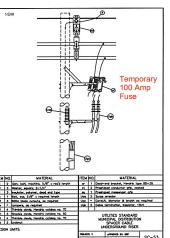














2023 CRETE SOLAR FARM CRETE, NE

ELECTRICAL DETAILS



E2.1

Wendy Thomas

From: Tom Ourada

Sent: Wednesday, December 20, 2023 1:34 PM

To: Wendy Thomas; Anna Burge **Subject:** FW: BSE Quote 27189851, PO#

Attachments: 222218 Crete Switchgear Letter of Rec.pdf

We will have this on committee and council agenda for action.

Tom Ourada | City Administrator City of Crete | 243 East 13th Street | Crete, NE | 68333

Office: 402 826-4312 | Cell: 402 826-9758



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From: Dave Peterson < dpeterson@jeo.com>Sent: Wednesday, December 20, 2023 1:29 PMTo: Tom Ourada < tom.ourada@crete.ne.gov>Cc: Brian Schmidt < brian.schmidt@crete.ne.gov>

Subject: RE: BSE Quote 27189851, PO#

Thanks Tom, Happy Holidays Included is a Letter of Recommendation with supporting documents. Please call or reply with any questions. Respectfully

Dave Peterson

o: 402.371.6416 | m: 402.750.4820 JEO Consulting Group

From: Tom Ourada < tom.ourada@crete.ne.gov>
Sent: Wednesday, December 20, 2023 9:38 AM
To: Dave Peterson < dpeterson@jeo.com>
Cc: Brian Schmidt < brian.schmidt@crete.ne.gov>

Subject: RE: BSE Quote 27189851, PO#

Thanks Dave,

Do you have a recommendation we can take to the council?

Tom Ourada | City Administrator City of Crete | 243 East 13th Street | Crete, NE | 68333 Office: 402 826-4312 | Cell: 402 826-9758



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From: Dave Peterson < dpeterson@jeo.com>
Sent: Wednesday, December 20, 2023 8:19 AM
To: Tom Ourada < tom.ourada@crete.ne.gov>
Cc: Brian Schmidt < brian.schmidt@crete.ne.gov>

Subject: FW: BSE Quote 27189851, PO#

Hi Tom, Happy Holidays. Included are two updated quotes for the S&C switchgear. Border States \$93,422 + tax , 82 weeks WESCO \$95,545 + tax, 82 weeks

This is also the email from Border States for ordering. Please call or reply with any questions. Respectfully

Dave Peterson

o: 402.371.6416 | m: 402.750.4820 JEO Consulting Group

From: Neal Chromy < NChromy@borderstates.com > Sent: Wednesday, December 20, 2023 8:09 AM

To: Dave Peterson < dpeterson@jeo.com >

Cc: Jason Konecky < JKonecky@borderstates.com >

Subject: FW: BSE Quote 27189851, PO#

Morning Dave

Please see the attached updated quote for Crete. Let me know if you have any questions.

Thank you,



Neal Chromy

Inside Sales Representative | Utility
Nebraska | Iowa
Fremont | Lincoln | Omaha | Ames | Cedar Rapids
D 402.512.7090 |
C 402.720.2332
Nchromy@borderstates.com | borderstates.com



100% Employee-owned, American Company
Owners wanted-apply today

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