Attachment #1

Value Engineering Item #1
New 4160V Electrical Switchgear Revisions

VE Scope

Prepared By: Corrie Bukle Key Account Manager

corrie.bukle@se.com

Proposal Name: Camp Creek WWTP

Quote Name: Excel Takeoff MV gear only

Proposal Number: P-200220-1436685

Quote Number: Q-2562127 Through Addenda Number: 4

Sales Representative: Corrie Bukle

Conditions of Sale

Except as otherwise provided below, this Quotation is subject to Coordinated Project Terms. See https://www.schneider-electric.us/en/download/document/0100PL0043

Notwithstanding any provision to the contrary in the referenced Coordinated Project Terms or any other documentation provided in connection with this proposal, this quote is valid for 30 days. Quoted lead times are approximate and subject to change.

Schneider Electric reserves the right to amend, withdraw or otherwise alter this submission without penalty or charge as a result of any event beyond its control arising from or due to the current Covid-19 epidemic or events subsequent to this epidemic / pandemic including changes in laws, regulations, by laws or direction from a competent authority.

Clarifications

- 1. Coordination Studies by others.
- 2. Startup is included for the metalclad switchgear lineup.
- 3. Standard Terms and Conditions apply.
- 4. Spare relay included.
- 5. Add to existing not included.
- 6. Witness testing for Metal Clad gear only.

Digital Power:

SCOPE:

Digital Power (DP) is providing local and remote HMI panel and protection relay configuration and startup services per Camp Creek WRF UV Replacement specification 4 page 374 [no indicated date] and 60% design drawing package dated 1/15/2021.

CLARIFICATIONS:

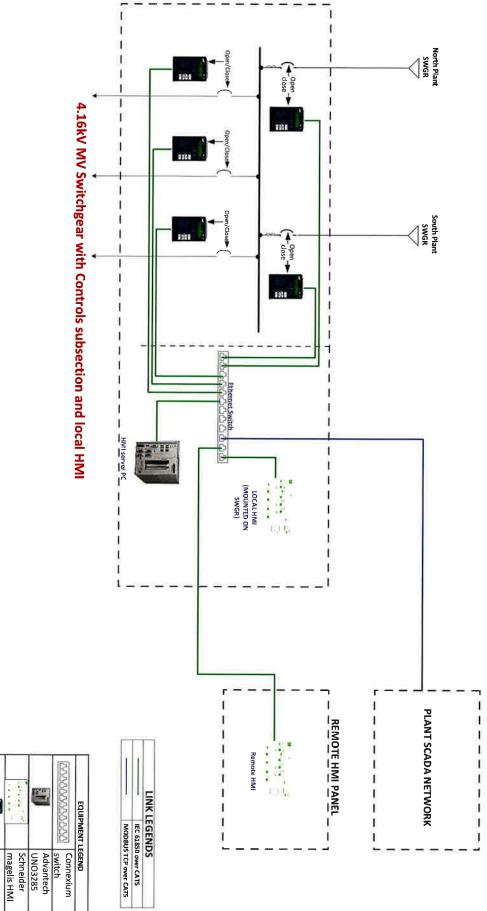
Local and Remote HMI (Refer Figure 1):

- A total of 5 breakers part of the 4.16kV MV gear are assumed to be monitored and controlled from the HMI.
- The breakers will be monitored and controlled via the SEL 751 relay connected to each breaker.
 No other meter or device other than the 5 SEL relays will be interfaced with the HMI
- Communication between the SEL relays and the HMI is assumed to be over IEC 61850
- An HMI screen is expected to be door mounted on the controls subsection of the 4.16kV MV gear. This shall be the local HMI
- A total of 2 screen views will be made available on the HMI- one view showing the overall one line of the 4.16 kV system and another view showing the communications status of the 5 SEL 751 relays
- Only manual open/close operation of the breakers is considered here. No automation logic or sequence of operation will be built inside the HMI
- The remote HMI panel will be a NEMA 12 wall mountable enclosure
- The remote HMI shall have the same views as the local HMI.
- No seismic certification or specific UL certification considered for the remote HMI panel
- Installation of the remote HMI panel is considered to be done by others
- Communication cabling between the local Hmi in the 4.16 kV gear and the remote HMI panel is assumed to be done by others
- All the breaker statuses will be made available to the plant SCADA over MODBUS TCP
- On site start-up included
- One day of post-startup basic operational training included
- An 18.5" touchscreen HMI is considered instead of 24" as required in the spec

Protection Relay Services

- Protection settings to be programmed into the relays shall be provide by others
- SWGR drawings to be done by others
- All relays assumed to be equipped with IEC 61850 option
- Communication of the relays to the HMI is assumed to be over IEC 61850

SEL 751



Internal



SCOPE OF WORK COMMENTS:

General Scope Comments:

Items designated as "provided by others" are not included in this quote.

Items not listed on the bill of material are assumed to be provided by others.

Physical installation and wiring between supplied equipment is provided by others.

It is assumed that the Ethernet network is supplied by others. This quotation does not include any network components other than what is on the bill of material.

Quote assumes services will take place during daytime hours, Mon-Fri, roughly 7 AM CST to 4 PM local time.

Proposal/Order information Comments:

Schneider Electric will provide pre-startup documentation to customer which needs to be completed before startup can be scheduled.

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It is the purchaser's obligation to review the proposal/quotation carefully and to immediately advise Schneider Electric of any differing interpretations the purchaser has so that any necessary changes can be made prior to purchase.

Important notice: Please check the following link for additional Terms and Conditions => https://download.schneider-electric.com/files?&p Doc Ref=0100PL1901

26 13 19 MV Vacuum Interrupter SWGR

5.02E - The gear provided is Arc Resistant

5.11B - SEL751 relays are not drawout

5.12A,5 – Ground and test device is only furnished with mains having feeder circuits. There are none in this configuration and we did not provide.

26 18 39 MV Motor Starters

2.02C - Schneider Electric contactor is 250,000

2.03D - 200A provided because the max CT ration is 200:5

2.10A - We do not offer N12, only N1 gasketed.

Life Is On

Proposal Name: Camp Creek WWTP

Quote Name: Excel Takeoff

Quote Number: Q-2562127

Quote Date:

Qty Seq#

Product Description
Designation: SECTION 26 13 19

Product Details:

1 - MetalClad Switchgear-Metal Clad Switchgear

METAL CLAD Switchgear Assembly Consisting of the following: 4 Section Line-up

Door Mounted Ethernet Port 1 - Com'X 510 Communication Gateway / Energy Server 1 Set of Certified Test Reports included with Final Drawings IBC/ASCE7 Seismic Qualification Indoor (Type 1) Label Requirements: UL With Front and Rear Access Required AC Panel - Branch Breakers per Plans and Spec

If Customer Witness Testing Required, must add in separately from this Bill of Material and price in at Standard Square D daily rate.

Equipment Ratings

Nominal System Voltage: 4.16kV, 3 Phase, 3 Wire, Ungrounded Delta Maximum Bus Continuous Current: 1200A Maximum Short Circuit Current: 40kA (RMS Symmetrical) Maximum Voltage: 4.76KV One-Minute Withstand Voltage: 19kv RMS Impulse Withstand Voltage (BIL): 60kV Frequency: 60 Hertz

Lineup Options

1 - CPT Transfer - 2 CPTs 1 - Test Cabinet, 8 ft. cable 1 - Test Jumper, 14 ft. cable only Breaker Lift Truck Cable Support/Clamp for each breaker Control wiring terminations: 9080G R6 Compression Type Electric racking motor accessory w/ 50 ft. cord, requires 120Vac or optional CPT & recepticle Manual Ground and Test, 5/15kV, 1200/2000A w/o Remote Control

Structure Information

1200A Silver Plated Copper Main Bus Bus Bracing: 50kA (RMS Symmetrical) Bus Supports: Glass Polyester Glass Polyester Pass-Through Inserts in Glass Polyester Bus Barrier (between sections)(Std) Ground Bus: Silver Plated Copper Aluminum Compression Lugs - AL/CU Cables 1 - Strip Heaters (Internal Power Source) w/ Thermostat (per section) 2 Infrared Viewing Windows per Cubicle Cable Compartment Ammeter and Circuit Breaker for Strip Heater Circuit Breaker Close Control Power: Customer Supplied 125VDC Breaker Trip Control Power: Customer Supplied 125VDC

Life Is On

Proposal Name: Camp Creek WWTP Quote Name: Excel Takeoff

Quote Number: Q-2562127 Addendum: 0

Date:

Exterior Paint Color: ANSI #61, Light Gray Indication Lights - LED Type lamps Rear Access, Bolted Panel White Interior LV Panels

Dimensions:

Width of Lineup: 122.75" - 3117.85mm Height @ Highest Point: 95.10" 2416 mm Depth @ Base: 92.00" 2337 mm

Special Features or TAG Items (per line-up)

If Special Features are included in this Bill of Material, they will NOT appear on the Front-Elev or One-line Drawing and may alter the final layout and dimensions.

Detailed Bill of Material

This Metal Clad Switchgear shall be depicted in the attached drawing and shall include the following:

Section 1 - 14.75W, Full-height section, -Managed Ethernet Switch 4 - Ethernet Cat5E cabling Transition Section to Motorpact - MVMcc

Section 2 - 36W, -2 - Ethernet Cat5E cabling 1 - Set Cable Termination Boots - Incoming **Power Connection**

Section 2 - 36W, Upper - Auxiliary 1 - VT Drawer with (2) VTs, (2) Primary Fuses per VT 1 - 15kVA, Single Phase CPT

Section 2 - 36W, Lower - Breaker 1200A, - Main A -Catalog Number: V5D3133Y000 1 - TOC Switch Supplying 10 Additional Contacts (5a, 5b) 1 - 4.76kV Max. Voltage, 250MVA / 40KA, 1200A, Vacuum Breaker Type: VR-05025-12 1 - Key Interlock (per key) Manufacturer :

1 - Breaker Control Switch 1t, 1c

1 - MOC Switch Supplying 10 Additional Contacts (5a, 5b)

2 - Test Blk/Sw for Ctrl Schematic

1 - Local/Remote Switch

Kirk

1 - Schweitzer Relay SEL 751

1 - Quantity 3 Al Comp Lug for Al/Cu Cable Size 600 kcmil

3 - Single Ratio 1200A:5A CT - Standard Accuracy - Model 780 - Set#1

Section 3 - 36W, -Managed Ethernet Switch

Section 3 - 36W, Upper - CPTTransfer

Section 3 - 36W, Lower - Blank

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Proposal Name: Camp Creek WWTP Quote Name: Excel Takeoff

Quote Number: Q-2562127 Addendum: 0

Date:

Section 4 - 36W, -2 - Ethernet Cat5E cabling 1 - Set Cable Termination Boots - Incoming Power Connection

Section 4 - 36W, Upper - Auxiliary 1 - VT Drawer with (2) VTs, (2) Primary Fuses per VT

1 - 15kVA, Single Phase CPT

Section 4 - 36W, Lower - Breaker_1200A,
- Main A Catalog Number: V5D3133Y000
1 - TOC Switch Supplying 10 Additional
Contacts (5a, 5b)
1 - 4.76kV Max. Voltage, 250MVA / 40KA,
1200A, Vacuum Breaker Type: VR-05025-12
1 - Key Interlock (per key) Manufacturer:
Kirk

1 - Breaker Control Switch 1t, 1c

1 - MOC Switch Supplying 10 Additional

Contacts (5a, 5b)

2 - Test Blk/Sw for Ctrl Schematic

1 - Local/Remote Switch

1 - Schweitzer Relay SEL 751

1 - Quantity 3 Al Comp Lug for Al/Cu Cable Size 600 kcmil

3 - Single Ratio 1200A:5A CT - Standard

Accuracy - Model 780 - Set#1

Estimated days to ship, excluding transit: The estimated shipping days cannot be determined at this time, please contact your field office representative for more information.

Seq # Qty Product Description

2 1 Designation: 125VDCBATTERY SYSTEM

Product Details: 125VDC BATTERY SYSTEM FOR 4160v METAL CLAD VACUUM INTERRUPTE SWITCHGEAR.

Seq # Qty Product Description 4 1 Designation: 1200A 4160V Feeders

Product Details:

1 - Metal Enclosed Switchgear-METAL ENCLOSED SWITCHGEAR > 1000 VOLTS

GENERAL PRODUCT INFORMATION
THIS METAL-ENCLOSED SWITCHGEAR SHALL BE
DEPICTED IN THE ATTACHED DRAWINGS AND SHALL
INCLUDE THE FOLLOWING:

PRODUCT TYPE: HVLcc
3 SECTION LINE-UP
Enclosure Type: Type 1
1 - SET OF CERTIFIED TEST REPORTS INCLUDED
WITH FINAL DRAWINGS.
OVERALL DIMENSIONS: 60.00 IN 1524.00 mm WIDE
See Attached Drawings for Lineup Height
37.25 IN 946mm DEEP

APPROXIMATE WEIGHT: 2100.00 LBS. 952.56 kg.

SWITCHGEAR RATINGS

NOMINAL SYSTEM VOLTAGE: 4160V SWITCHGEAR MAXIMUM VOLTAGE RATING: 5kV MAIN BUS: 1200A TIN-PLATED COPPER GROUND BUS: BARE COPPER BIL: 60 KV

SWITCHGEAR MAXIMUM AVAIL FAULT CURRENT: 25kA

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Proposal Name: Camp Creek WWTP Quote Name: Excel Takeoff

Quote Number: Q-2562127 Addendum: 0

1000/10

Date:

HVLcc does not support relay protection for fault currents

INTEGRATED SHORT CIRCUIT CURRENT RATINGS FOR SWITCHES WITH FUSES:

THE INTEGRATED SHORT CIRCUIT CURRENT RATINGS FOR SWITCHES WITH FUSES CAN BE FOUND IN THE INTEGRATED RATINGS TABLES. REFER TO THE CATALOG SECTIONS FOR EACH PRODUCT LINE.

SPECIFIC APPLICATION INFORMATION

SYSTEM GROUNDING: 3 Wire 3 Phase Wye Solidly Grounded FREQUENCY: 60Hz MAX AVAILABLE SHORT CKT CURRENT: 25kA (RMS) FRONT AND REAR ACCESS REAR ACCESS IS REQUIRED FOR THIS EQUIPMENT!

STANDARD & OPTIONAL ITEMS COMMON TO LINEUP

Customer Requirements: None - Build per Q2C EXTERIOR PAINT COLOR: ANSI 61 LIGHT GREY INSULATORS: EPOXY INSULATED BUS: HEAT SHRINK AC CONTROL POWER PROVIDED BY: FROM ADJACENT CONNECTED EQUIPMENT HOT STICK WITH FUSE HANDLING TOOL TOUCH UP PAINT PROVIDED Lineup Plastic Nameplate White Surface/Black Letters STANDARD ENCLOSURE HARDWARE APPLIES TO CATEGORY B APPLICATIONS WHERE THE GENERAL PUBLIC WILL NOT HAVE ACCESS TO THE SWITCHGEAR Space Heaters 1000W-240VAC (250W-120VAC) Infrared Viewing Windows Up to 3 PADLOCK PROVISIONS FOR UP TO 3 LOCKS LABEL REQUIREMENTS: UL STANDARDS: ANSI 4.0 IN PAINTED BASE CHANNEL LUGS ARE BURNDY COMPRESSION TYPE YA ONE HOLE ANTI-ROTATION (COPPER ONLY)

SPECIAL FEATURES OR TAG ITEMS (PER LINE-UP)

IF SPECIAL FEATURES ARE LISTED BELOW IN THIS BILL OF MATERIAL, THEY WILL NOT APPEAR ON THE FRONT ELEV OR ONE-LINE DRAWING AND MAY ALTER THE FINAL LAYOUT AND DIMENSIONS.

Section 1 UPR Feeder 20W, Unit 1, 1 - BUS TRANSITION SECTION TO MASTER-CLAD
SWITCHGEAR - FO 0
1 - SPACE HEATER 1000W-240VAC (250W-120VAC)
1 - 3 PHASE SET OF #4 AWG COPPER
COMPRESSION LUGS PER PHASE
LOADSIDE (UL LISTED)
3 - SQUARE D CURRENT LIMITING 5.5 KV 100E
FUSES
1 - FUSELOGIC BLOWN FUSE FLAG ON THE FRONT OF
MECHANISM COVER
1 - 600A SQUARE D TYPE HVLCC OVER TOGGLE

1 - 600A SQUARE D TYPE HVLCC OVER TOGGLE
MECHANISM (OTM) SWITCH, MANUALLY OPERATED,
STARTERS/CONTACTORS

Schneider

Proposal Name: Camp Creek WWTP Quote Name: Excel Takeoff

Quote Number: Q-2562127 Addendum:

Date:

APPLICATION A 600A CONTINUOUS & INTERRUPTING CURRENT 1 - INTERNAL GROUND SWITCH TO GROUND LOADSIDE 1 - Device Plastic Nameplate (Door) White Surface / Black Letters

Section 2 UPR Feeder 20W, Unit 2, .

1 - SPACE HEATER 1000W-240VAC (250W-120VAC)

1 - 3 PHASE SET OF #4 AWG COPPER COMPRESSION LUGS PER PHASE

LOADSIDE (UL LISTED)

3 - SQUARE D CURRENT LIMITING 5.5 KV 200E **FUSES**

1 - FUSELOGIC BLOWN FUSE FLAG ON THE FRONT OF MECHANISM COVER 1 - 600A SQUARE D TYPE HVLCC OVER TOGGLE

MECHANISM (OTM) SWITCH, MANUALLY OPERATED, APPLICATION A

600A CONTINUOUS & INTERRUPTING CURRENT

1 - INTERNAL GROUND SWITCH TO GROUND LOADSIDE

1 - Device Plastic Nameplate (Door) White

Surface / Black Letters

THESE ARE THE SWITCHES VERSES STARTERS/CONTACTORS

THESE ARE THE SWITCHES VERSES

STARTERS/CONTACTORS

Section 3 UPR Feeder 20W, Unit 3, -

1 - SPACE HEATER 1000W-240VAC (250W-120VAC)

1 - 3 PHASE SET OF #4 AWG COPPER COMPRESSION LUGS PER PHASE LOADSIDE (UL LISTED)

3 - SQUARE D CURRENT LIMITING 5.5 KV 200E

FUSES

1 - FUSELOGIC BLOWN FUSE FLAG ON THE FRONT OF MECHANISM COVER

1 - 600A SQUARE D TYPE HVLCC OVER TOGGLE MECHANISM (OTM) SWITCH, MANUALLY OPERATED, APPLICATION A

600A CONTINUOUS & INTERRUPTING CURRENT

1 - INTERNAL GROUND SWITCH TO GROUND LOADSIDE

1 - Device Plastic Nameplate (Door) White

Surface / Black Letters

Estimated days to ship, excluding transit: 100 working days after customer release to manufacturer. See Conditions of Sale.

Product Description

Designation: START-UP & TRAINING

Product Details:

1 - SRVSQDSER-Startup Services - Straight Time

The following startup scope of work is Schneider Electrics manufacturer recommended scope of work for Startup Services

If specific tests are needed during startup or if there are specifications for the startup of the equipment a separate quote will need to be provided. Schneider Electric will perform the Scope of Work per Schneider Electric document 1910DB1302-120213 Scopes of Work for Electrical Acceptance Testing. Work will be performed during Straight Time (any scheduled 8 hour period between 06:00

and 18:00 hours Monday thru Friday).

It is estimated that the service will be performed using one technician with all equipment and tests performed in immediate succession, unless otherwise specified.

If equipment is not available or prepared to

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Proposal Name: Camp Creek WWTP Quote Name: Excel Takeoff

Quote Number: Q-2562127 Addendum: 0

Date:

be tested in the number of days specified, additional travel and expense charges may apply.

For each hour that SE Services is delayed at the job site due to the unavailability of the equipment for any reason, a charge at the applicable T&M rates will be added to the invoice.

Startup scope of work includes Schneider Electric technician supervision during energization of equipment. Quote price is based on energization during final day of inspection and testing. If additional trips are required in order to provide energization supervision, additional travel, expense and labor charges will apply. To schedule date for start of work, call: 1-888-SQUARED (1-888-778-2733).

Schneider Electric services must be contacted prior to 2 weeks from the required date of service to avoid additional charges.

Reference SE Terms and Conditions of Sale for Proposal Based Projects 0100PL0043R12/12 dated 12/2012.

Formal test report(s) will be provided upon completion of the startup service.
Trip summary:
Round Trip Distance: Up to 150 Miles
Technician will make 1 trip to the job site per day of service (total of trips)
2 Days Informal Training
Equipment to be started up and included in this complimentary warranty is listed below.
Sel Rev: (20160224/20160224)
Tra Rev: 5/28/2021 1:10:32 AM/ 5/27/2021

Following user entered devices included in startup: None

12 month complimentary extended warranty. Schneider Electric Services is pleased to offer a complimentary 12 month warranty extension above and beyond our standard warranty and any purchased extended warranties.

Std equipment warranty is 18 months from date of shipment or 12 months from issuance of a substantial completion letter by the customer subject to Schneider Electric Terms and Conditions of Sale for Proposal Based Projects 0100PL0043R12/12 dated 12/2012. The 12 month warranty extension only applies to equipment that is successfully tested, started up, invoiced by SE, and paid in full by the customer. If startup with SE Services is not completed and paid in full, the bonus 12 month warranty will be invalid, but the standard warranty and any purchased extended warranties will still be in effect.

Drives are not included in this complimentary warranty upgrade and are

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Proposal Name: Camp Creek WWTP

Quote Name: Excel Takeoff

Quote Number: Q-2562127

Addendum:

Date:

covered by a 30 month warranty extension with startup completion.

Serviced item - Line Item 40935463

Qty 1 - Motorpact

Designation: SECION 26 18 39

Serviced item - Line Item 69948758 Qty 1 - Standard Metal Clad Designation: SECTION 26 13 19 Includes optional test for CT/PT: Basic Testing

Includes optional test for CT/PT:

Dielectric Withstand

Includes optional test for CT/PT: Total

Burden

Includes optional test for Ground

Resistance Testing

Includes optional test for Relays: System

Testing

1 - SIBS12MONTHEXTWARRWSTARTUP-SIBS 12 MO EXTENDED WARRANTY W/ STARTUP

Schneider Electric Services is pleased to offer a complimentary 12 month warranty extension above and beyond our standard warranty and any purchased extended warranties.

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Drives are not included in this complimentary warranty upgrade and are covered by a 30 month warranty extension with startup completion.

Seg # Qty Product Description

6 1 Designation: FACTORY WITNESS TEST

Product Details:

1 - Metal-Clad Witness Test-Metal Clad Witness Test

Metal-Clad Witness Testing 0003 Sections, 001 Days (est)

Seq # Qty Product Description

7 2 Designation : Box PC for HMI

Product Details: HMIG5U2-HMI GTU CPU Box Open Type

Seq# Qty Product Description

8 2 Designation : Touch Screen

Product Details: HMIDT952-19W Touch Smart Display FWXGA

Seq# Qty Product Description

9 2 Designation : Ethernet Switch

Schneider

Proposal Name: Camp Creek WWTP Quote Name: Excel Takeoff

Quote Number: Q-2562127

Addendum:

Date:

Product Details: TCSESU103F2CS0-CONNEXIUM UNMANAGED SWITCH 8TX/2FX SM

Estimated days to ship, excluding transit: 31 working days after customer release to manufacturer. See Conditions of Sale.

Seq# Qty **Product Description** 10

Designation: EPAS HMI Software

Product Details: EPASHMIAPP-EPAS_HMI(Svr,Clnt,WebHMI);1 lic per PC

Estimated days to ship, excluding transit: 30 working days after customer release to manufacturer. See Conditions of Sale.

Seq# Qty **Product Description**

11 Designation: EPAS GTW Software

Product Details: EPASGTWAPP-EPAS_GTW; Windws; 61850, SCADA, legcy protoc

Estimated days to ship, excluding transit: 30 working days after customer release to manufacturer. See Conditions of Sale.

Seq# Qty **Product Description**

12 Designation: 20 In-office days

Product Details:

1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing:

Qty 20 - In Office Engineering

Qty **Product Description**

Designation: In-Office (Relay) 13

Product Details:

1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing:

Qty 4 - Project Management

Qty Seq# **Product Description**

14

1 Designation: On-Site

Product Details:

1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing:

Qty 12 - On-Site

Qty Sea # **Product Description** 15

Designation: Hardware Prices

Product Details:

1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing:

Qty 1 - Wall Mount Enclosure

Qty 1 - HMI Servicer

Qty 1 - Misc

Qty Seq# **Product Description**

Designation: Project Management (Relay 16

Product Details:

1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing:

Qty 1 - Project Mgmt (Relay)

Qty **Product Description**

Designation: On-Site (Relay) 17

Product Details:

1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing:

Qty 4 - On-Site (Relay)



Prepared By:

Corrie Bukle Key Account Manager corrie.bukle@se.com

Proposal Name: Camp Creek WWTP

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Proposal Number: P-200220-1436685

Quote Number: Q-2562127

Through Addenda Number: 0

Sales Representative: Corrie Bukle

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Clarifications

- 1. Coordination Studies by others.
- 2. Add to existing equipment to be furnished by Schneider and installed by electrical contractor
- 3. Startup is included for the metalclad switchgear lineup.
- 4. Standard Terms and Conditions apply.
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Digital Power:

SCOPE:

Digital Power (DP) is providing local and remote HMI panel and protection relay configuration and startup services per Camp Creek WRF UV Replacement specification 4 page 374 [no indicated date] and 60% design drawing package dated 1/15/2021.

CLARIFICATIONS:

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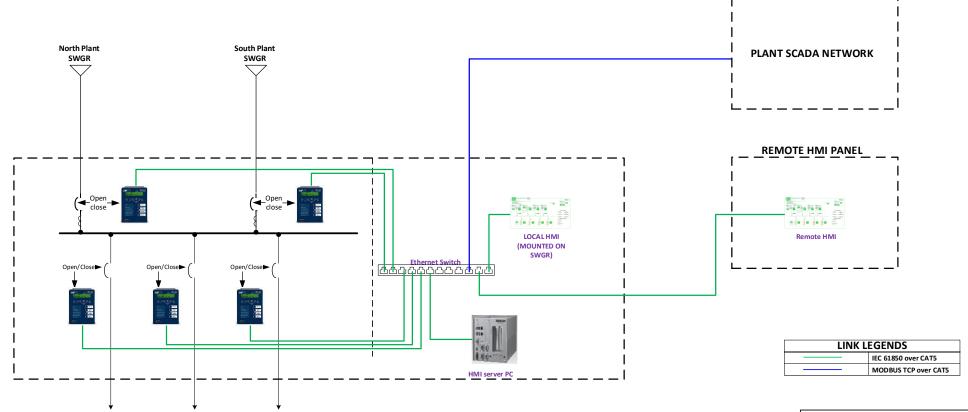


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- SWGR drawings to be done by others
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- Communication of the relays to the HMI is assumed to be over IEC 61850





4.16kV MV Switchgear with Controls subsection and local HMI

EQUIPMENT LEGEND			
000000000000000000000000000000000000000	Connexium		
	switch		
# N	Advantech		
THE STATE OF THE S	UNO3285		
27 - 70 00 00 - 22 -	Schneider		
	magelis HMI		
	SEL 751		

Figure 1 System Architecture





SCOPE OF WORK COMMENTS:

General Scope Comments:

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PRINTED: 5/28/2021 9:53 AM Internal



Proposal Name: Camp Creek WWTP Quote Name: Excel Takeoff

Quote Number: Q-2562127

Quote Date:

Seq# Qty **Product Description**

Designation: SECTION 26 13 19

Product Details:

1 - MetalClad Switchgear-Metal Clad Switchgear

METAL CLAD Switchgear Assembly Consisting of the following: 4 Section Line-up

Door Mounted Ethernet Port 1 - Com'X 510 Communication Gateway / Energy Server 1 Set of Certified Test Reports included with Final Drawings IBC/ASCE7 Seismic Qualification Indoor (Type 1) Label Requirements: UL With Front and Rear Access Required AC Panel - Branch Breakers per Plans and Spec

If Customer Witness Testing Required, must add in separately from this Bill of Material and price in at Standard Square D daily rate.

Equipment Ratings

Nominal System Voltage: 4.16kV, 3 Phase, 3 Wire, Ungrounded Delta Maximum Bus Continuous Current: 1200A Maximum Short Circuit Current: 40kA (RMS Symmetrical) Maximum Voltage: 4.76KV One-Minute Withstand Voltage: 19kv RMS

Impulse Withstand Voltage (BIL): 60kV

Frequency: 60 Hertz

Lineup Options

- 1 CPT Transfer 2 CPTs
- 1 Test Cabinet, 8 ft. cable
- 1 Test Jumper, 14 ft. cable only

Breaker Lift Truck

Cable Support/Clamp for each breaker Control wiring terminations: 9080G R6 Compression Type Electric racking motor accessory w/ 50 ft. cord, requires 120Vac or optional CPT & recepticle

Manual Ground and Test, 5/15kV, 1200/2000A w/o Remote Control

Structure Information

1200A Silver Plated Copper Main Bus Bus Bracing: 50kA (RMS Symmetrical) Bus Supports: Glass Polyester Glass Polyester Pass-Through Inserts in Glass Polyester Bus Barrier (between sections)(Std) Ground Bus: Silver Plated Copper Aluminum Compression Lugs - AL/CU Cables 1 - Strip Heaters (Internal Power Source) w/ Thermostat (per section)

2 Infrared Viewing Windows per Cubicle Cable

Compartment Ammeter and Circuit Breaker for Strip Heater

Breaker Close Control Power: Customer

Internal Page 5 of 14

Date:

Supplied 125VDC Breaker Trip Control Power: Customer Supplied 125VDC Exterior Paint Color: ANSI #61, Light Gray (Std) Indication Lights - LED Type lamps Rear Access, Bolted Panel White Interior LV Panels

Dimensions:

Width of Lineup: 122.75" - 3117.85mm Height @ Highest Point: 95.10" 2416 mm Depth @ Base: 92.00" 2337 mm

Special Features or TAG Items (per line-up)

If Special Features are included in this Bill of Material, they will NOT appear on the Front-Elev or One-line Drawing and may alter the final layout and dimensions.

Detailed Bill of Material

This Metal Clad Switchgear shall be depicted in the attached drawing and shall include the following:

Section 1 - 14.75W, Full-height section, -Managed Ethernet Switch 4 - Ethernet Cat5E cabling Transition Section to Motorpact - MVMcc

Section 2 - 36W, -

2 - Ethernet Cat5E cabling

1 - Set Cable Termination Boots - Incoming **Power Connection**

Section 2 - 36W, Upper - Auxiliary 1 - VT Drawer with (2) VTs, (2) Primary Fuses per VT

1 - 15kVA, Single Phase CPT

Section 2 - 36W, Lower - Breaker_1200A, - Main A -

Catalog Number: V5D3133Y000 1 - TOC Switch Supplying 10 Additional

Contacts (5a, 5b)

1 - 4.76kV Max. Voltage, 250MVA / 40KA, 1200A, Vacuum Breaker Type: VR-05025-12

1 - Key Interlock (per key) Manufacturer : Kirk

1 - Breaker Control Switch 1t, 1c

1 - MOC Switch Supplying 10 Additional

Contacts (5a, 5b)

2 - Test Blk/Sw for Ctrl Schematic

1 - Local/Remote Switch

1 - Schweitzer Relay SEL 751

1 - Quantity 3 Al Comp Lug for Al/Cu Cable Size 600 kcmil

3 - Single Ratio 1200A:5A CT - Standard Accuracy - Model 780 - Set#1

Section 3 - 36W, -Managed Ethernet Switch

Section 3 - 36W, Upper - CPTTransfer

Date:

Section 3 - 36W, Lower - Blank

Section 4 - 36W, -

2 - Ethernet Cat5E cabling

1 - Set Cable Termination Boots - Incoming

Power Connection

Section 4 - 36W, Upper - Auxiliary

1 - VT Drawer with (2) VTs, (2) Primary Fuses

per VT

1 - 15kVA, Single Phase CPT

Section 4 - 36W, Lower - Breaker 1200A,

- Main A -

Catalog Number: V5D3133Y000

1 - TOC Switch Supplying 10 Additional

Contacts (5a, 5b)

1 - 4.76kV Max. Voltage, 250MVA / 40KA,

1200A, Vacuum Breaker Type: VR-05025-12

1 - Key Interlock (per key) Manufacturer :

Kirk

1 - Breaker Control Switch 1t, 1c

1 - MOC Switch Supplying 10 Additional

Contacts (5a, 5b)

2 - Test Blk/Sw for Ctrl Schematic

1 - Local/Remote Switch

1 - Schweitzer Relay SEL 751

1 - Quantity 3 Al Comp Lug for Al/Cu Cable

Size 600 kcmil

3 - Single Ratio 1200A:5A CT - Standard

Accuracy - Model 780 - Set#1

Estimated days to ship, excluding transit: The estimated shipping days cannot be determined at this time, please contact your field office representative for more information.

Seg # Qty Product Description

1 Designation: 125VDCBATTERY SYSTEM

Product Details: 125VDC BATTERY SYSTEM FOR 4160v METAL CLAD VACUUM INTERRUPTE SWITCHGEAR.

Seq # Qty Product Description

Designation: 125VDC Panelboard

Product Details:

1 - ILINE MB PNLB (INT BOX TRIM)-I-Line Panelboard

Consisting of

125Vdc 2W SCCR: 10kA

Fully Rated

Single Main: 150A/2P HD Circuit Breaker Incoming Conductors: 1 - #14 - 3/0 AWG

AL Ground Bar

Bus: 250A Rated Aluminum: Tin Plated

45" of Mounting Inches

Type 1,Box: 73H x 32W x 9.5D

Incoming: Bottom Trim: Surface with Door

Box Cat No: HC3273DB9 Front Cat No: HCM73TSD

Ref. Drawing: PBA470 Type: HCJ

Feeders:

8 - 20A/2P BD

Optional Features:

Ship Completely Assembled, Standard Ground

Bar, Standard Mains and Feeders

Mechanically Restrained

Estimated days to ship, excluding transit: 30 working days after customer release to manufacturer. See Conditions of Sale.

Seq # Qty Product Description

4 1 **Designation**: SECTION 26 18 39

Product Details:

Addendum: Date:

Quote Number: Q-2562127

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1 - Medium Voltage Motor Control Cent+-General Equipment Ratings Motor Control Center > 1000 Volts

Section (Unit Sequence) Line-up Consisting of the following: Nominal System Voltage: 4000/4160 V System Type: 3 Wire Solid Ground System Frequency: 60 Hertz

Control Voltage: Customer Supplied 125 VDC Ctl Pwr for Protection Relays: 125 VDC

BIL: 60kV (std)

Exterior Color: ANSI #61, Light Gray (Std.) Label Requirements: CUL

NEMA Standard/Design Ambient Air Temperature: >-30C(-22F) & <40C(104F) (Std.) Altitude: 0 - 3299 feet above sea level (Std) System Calculated Full Load Amps: If Total System Amps Exceeds Main Bus Rating, Then Customer Should Confirm They Know This and Accept Responsibility For Proper System Loading Not To Exceed Main Bus Rating.

Warning: This product can expose you to chemicals including Nickel compounds, which are known to the State of California, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

General Structure Information

Exterior Color: ANSI #61, Light Gray (Std.) Unplated CU Ground Bus Power Cable Lugs: Supplied By Customer (Std.)

Terminal Block and Lug Type: Two-Tier, Compression Box

Overall Dimensions: Width: 60" 1524mm Height: 90.60" 2300mm

Depth: 37.25" 946mm (foot print) Relays: Drawout Case Style Relays: Communications Required

Factory Determined Shipping Splits (75" Max) Fuse Brand: Square D Class R and Class E, DIN Line-up Indicating Light Type: LED (Std)

Low Voltage Control Wiring THHN (Std.)

Free-Standing Lineup Configuration Front and Rear Access Indoor Gasketed Enclosure Type 1A (1) Set of Certified Test Reports

Detailed Bill of Material Special Features or TAG Items (per line-up)

If Special Features are included in this Bill of Material, they will NOT appear on the

Date:

the final layout and dimensions. **Network Communications Only System Communications** Ethernet Switch with RJ-45 Port. All Modbus devices pre-wired and pre-tested at the factory 1 - Com'X 510 Communication Gateway / Energy Server

Controller Type Key for abbreviations: FVNR = Full Voltage Non-Reversing

FVNR Latched = FV Non-Reversing Latched

FVR = Full Voltage Reversing

RVNR AT = RV Non-Reversing Autotransformer

RVNR Reactor = RV Non-Reversing Reactor

RVR AT = RV Reversing Autotransformer

RVR Reactor = RV Reversing Reactor

Sync = Synchronous Type Controller

FVS = Full Voltage Starter for S3
S3 = Sequential Soft Start Type Controller

SS = Soft Start Type Controller

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This MV Motor Control Lineup shall be

depicted in the attached drawing and shall

include the following:

Touch-up Paint included in carton pack

Incoming

Connected to New MasterClad Equipment

Incoming Source Location - Right

Cable Termination Boots

1 Ground Lug

Equipment Front Aligned

Distribution Class Surge Arresters

Low Voltage Compartment

Section 1 - Controller - 20W. -

Thermostat for Strip Heaters

Circuit Breakers for Cabinet Strip Heater

Circuits

Unplated Copper Ground Bus

1200 CU w/ Tin Plating (Std.) Insulated Main

1 - Spare Low Voltage Terminal Blocks - 10% -

Strip Heaters - 240V Rated, 120V Applied

1 - Latched FVNR Controller, 200A, Drawout

Latched Trip Coil Voltage: 125VDC

Trip Coil Voltage by: Customer (external)

Non-Motor Load Application

User Entered Horsepower:

1 - Shorting TB for 3 Phase CT

12 Gauge CT Wiring in LV Compartment (Std)
1 - Zero Sequence CT

1 - Contactor Open/Close Status Window

1 - Cable Support
Class E Fuses, 5kV DIN 100E
1st 3 Phase CT use: Protective Relay

Schweitzer 751A (current only)

1 - 3-Phase 200/5 CT

2 - Spare Sets Class E Fuses, 5kV DIN 100E

1 - 500 kcmil Cable (per phase) Loadside

1 - BFI or LDA Status Window

1 - Basic Control Package: (1) Start

Pushbutton, (1) Stop Pushbutton, (1) Red

Run Pilot, (1) Green Off Pilot Light (Std)

THE THREE SWITCHES TAKE AWAY ALL HIGHLIGHTED ITEMS

Date:

1 - BF Trip & Indication w/2 Form C Aux

Motor Service Factor: 1.00 (Std.)

Section 2 - Controller - 20W. -

Thermostat for Strip Heaters

Circuit Breakers for Cabinet Strip Heater

Circuits

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Unplated Copper Ground Bus

1200 CU w/ Tin Plating (Std.) Insulated Main

Bus

1 - Spare Low Voltage Terminal Blocks - 10% -

Legend:

Strip Heaters - 240V Rated, 120V Applied

1 - Latched FVNR Controller, 200A, Drawout

Latched Trip Coil Voltage:125VDC

Trip Coil Voltage by: Customer (external)

Non-Motor Load Application

User Entered Horsepower:

1 - Shorting TB for 3 Phase CT

12 Gauge CT Wiring in LV Compartment (Std)

1 - Zero Sequence CT

1 - Contactor Open/Close Status Window

1 - Cable Support

Class E Fuses, 5kV DIN 100E

1st 3 Phase CT use: Protective Relay

Schweitzer 751A (current only)

1 - 3-Phase 200/5 CT

2 - Spare Sets Class E Fuses, 5kV DIN 100E

1 - 500 kcmil Cable (per phase) Loadside

1 - BFI or LDA Status Window

1 - Basic Control Package: (1) Start

Pushbutton, (1) Stop Pushbutton, (1) Red

Run Pilot, (1) Green Off Pilot Light (Std)

1 - BF Trip & Indication w/2 Form C Aux

Contacts

Motor Service Factor: 1.00 (Std.)

Section 3 - Controller - 20W, -

Thermostat for Strip Heaters

Circuit Breakers for Cabinet Strip Heater

Circuits

Unplated Copper Ground Bus

1200 CU w/ Tin Plating (Std.) Insulated Main

Bus

1 - Spare Low Voltage Terminal Blocks - 10% -

Legend:

Strip Heaters - 240V Rated, 120V Applied

1 - Connection to New MasterClad on Right

Front-Aligned

1 - Latched FVNR Controller, 200A, Drawout

Latched Trip Coil Voltage:125VDC

Trip Coil Voltage by: Customer (external)

Non-Motor Load Application

User Entered Horsepower:

1 - Shorting TB for 3 Phase CT

12 Gauge CT Wiring in LV Compartment (Std)

1 - Zero Sequence CT

1 - Contactor Open/Close Status Window

1 - Cable Support

Class E Fuses, 5kV DIN 100E

1st 3 Phase CT use: Protective Relay

Schweitzer 751A (current only)

1 - 3-Phase 200/5 CT

2 - Spare Sets Class E Fuses, 5kV DIN 100E

1 - 500 kcmil Cable (per phase) Loadside

1 - BFI or LDA Status Window

Date:

1 - Basic Control Package: (1) Start Pushbutton, (1) Stop Pushbutton, (1) Red Run Pilot, (1) Green Off Pilot Light (Std) 3 - 6 kV Distribution Class LAs on Loadside 1 - BF Trip & Indication w/2 Form C Aux Contacts Motor Service Factor: 1.00 (Std.)

Estimated days to ship, excluding transit: 165 working days after customer release to manufacturer. See Conditions of Sale.

Qty **Product Description**

Designation: START-UP & TRAINING **Product Details:**

1 - SRVSQDSER-Startup Services - Straight Time The following startup scope of work is Schneider Electrics manufacturer recommended scope of work for Startup Services.

If specific tests are needed during startup or if there are specifications for the startup of the equipment a separate quote will need to be provided. Schneider Electric will perform the Scope of Work per Schneider Electric document 1910DB1302-120213 Scopes of Work for Electrical Acceptance Testing. Work will be performed during Straight Time (any scheduled 8 hour period between 06:00 and 18:00 hours Monday thru Friday).

It is estimated that the service will be performed using one technician with all equipment and tests performed in immediate succession, unless otherwise specified.

If equipment is not available or prepared to be tested in the number of days specified, additional travel and expense charges may apply.

For each hour that SE Services is delayed at the job site due to the unavailability of the equipment for any reason, a charge at the applicable T&M rates will be added to the invoice.

Startup scope of work includes Schneider Electric technician supervision during energization of equipment. Quote price is based on energization during final day of inspection and testing. If additional trips are required in order to provide energization supervision, additional travel, expense and labor charges will apply. To schedule date for start of work, call: 1-888-SQUARED (1-888-778-2733).

Schneider Electric services must be contacted prior to 2 weeks from the required date of service to avoid additional charges. Reference SE Terms and Conditions of Sale for Proposal Based Projects 0100PL0043R12/12 dated 12/2012.

Formal test report(s) will be provided upon completion of the startup service. Trip summary: Round Trip Distance: Up to 150 Miles

Date:

Technician will make 1 trip to the job site per day of service (total of trips) 2 Days Informal Training Equipment to be started up and included in this complimentary warranty is listed below. Sel Rev: (20160224/20160224) Tra Rev: 5/28/2021 1:10:32 AM/ 5/27/2021

Following user entered devices included in startup:

None

12 month complimentary extended warranty. Schneider Electric Services is pleased to offer a complimentary 12 month warranty extension above and beyond our standard warranty and any purchased extended

warranties. Std equipment warranty is 18 months from date of shipment or 12 months from issuance of a substantial completion letter by the customer subject to Schneider Electric Terms and Conditions of Sale for Proposal Based Projects 0100PL0043R12/12 dated 12/2012. The 12 month warranty extension only applies to equipment that is successfully tested, started up, invoiced by SE, and paid in full by the customer. If startup with SE Services is not completed and paid in full, the bonus 12 month warranty will be invalid, but the standard warranty and any purchased extended warranties will still be in effect.

Drives are not included in this complimentary warranty upgrade and are covered by a 30 month warranty extension with startup completion.

Serviced item - Line Item 40935463 Qty 1 - Motorpact Designation: SECION 26 18 39

Serviced item - Line Item 69948758 Qtv 1 - Standard Metal Clad Designation: SECTION 26 13 19 Includes optional test for CT/PT: Basic Testing Includes optional test for CT/PT: Dielectric Withstand Includes optional test for CT/PT: Total

Burden

Includes optional test for Ground

Resistance Testing

Includes optional test for Relays: System

Testing

1 - SIBS12MONTHEXTWARRWSTARTUP-SIBS 12 MO EXTENDED WARRANTY W/ STARTUP

Schneider Electric Services is pleased to offer a complimentary 12 month warranty extension above and beyond our standard warranty and any purchased extended warranties.

Std equipment warranty is 18 months from date of shipment or 12 months from

Date:

issuance of a substantial completion letter by the customer subject to Schneider Electric Terms and Conditions of Sale for Proposal Based Projects 0100PL0043R12/12 dated 12/2012. The 12 month warranty extension only applies to equipment that is successfully tested, started up, invoiced by SE, and paid in full by the customer. If startup with SE Services is not completed and paid in full, the bonus 12 month warranty will be invalid, but the standard warranty and any purchased extended warranties will still be in effect. Drives are not included in this

complimentary warranty upgrade and are covered by a 30 month warranty extension

Seq # Qty Product Description
6 1 Designation : FACTORY WITNESS TEST
Product Details:

with startup completion.

1 - Metal-Clad Witness Test-Metal Clad Witness Test Metal-Clad Witness Testing 0003 Sections, 001 Days (est) MVMCC Witness Test MVMCC Witness Testing 0003 Sections, 001 Days (est)

1 - MVMCC Witness Test-MVMCC Witness Test

MVMCC Witness Testing 0003 Sections, 001 Days (est)

Designation: Ethernet Switch

Seq # Qty Product Description
7 2 Designation: Box PC for HMI

Product Details: HMIG5U2-HMI GTU CPU Box Open Type

Seq # Qty Product Description 8 2 Designation: Touch Screen

Product Details: HMIDT952-19W Touch Smart Display FWXGA

Seq # Qty Product Description

Product Details: TCSESU103F2CS0-CONNEXIUM UNMANAGED SWITCH 8TX/2FX SM

Estimated days to ship, excluding transit: 31 working days after customer release to manufacturer. See Conditions of Sale.

Seq # Qty Product Description

10 1 Designation: EPAS HMI Software
Product Details: EPASHMIAPP-EPAS HMI(Svr,CInt,WebHMI);1 lic per PC

Estimated days to ship, excluding transit: 30 working days after customer release to manufacturer. See Conditions of Sale.

Seq # Qty Product Description

11 1 Designation: EPAS GTW Software Product Details: EPASGTWAPP-EPAS GTW;Windws;61850,SCADA,legcy protoc

Estimated days to ship, excluding transit: 30 working days after customer release to manufacturer. See Conditions of Sale.

Seq #QtyProduct Description121Designation : 20 In-office days

PRINTED: 5/28/2021 9:53 AM

2

Date:

Product Details:

1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing: Qty 20 - In Office Engineering

Seq # Qty **Product Description**

13 Designation: In-Office (Relay)

Product Details:

1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing:

Qty 4 - Project Management

Product Description Seq # Qty

14 1 Designation: On-Site

Product Details:

1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing:

Qty 12 - On-Site

Seq # Qty **Product Description** 15

Designation: Hardware Prices

Product Details:

1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing:

Qty 1 - Wall Mount Enclosure

Qty 1 - HMI Servicer

Qty 1 - Misc

Seq # Qty **Product Description**

16 **Designation:** Project Management (Relay

Product Details:

1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing:

Qty 1 - Project Mgmt (Relay)

Seq # Qty **Product Description**

17 Designation: On-Site (Relay)

Product Details:

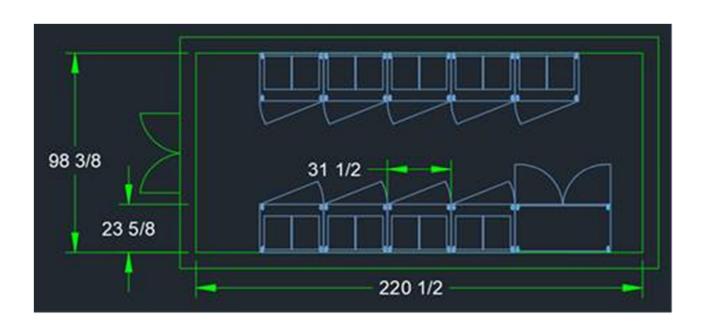
1 - DPPRTCTRLETO-PCA Protection & CTRL Systems Line Containing:

Qty 4 - On-Site (Relay)

Attachment #2

Value Engineering Item #2
Provide and Install Prefabricated Electrical Building

Proposed Preliminary Layout of the Prefabricated Building



https://www.orenco.com/products/composite-products



Innovative fiberglass products

June 17, 2021

Customer: Wedeco Contact: Julia Beilsmith

Project Name: UGA - Camp Creek Wedeco

Product Type: DuraFiber® Building(s)

DuraFiber: the stronger, better pre-fabricated fiberglass building:

- Molded using vacuum infusion, an environmentally-friendly closed-molding
 - Allows single monolithic molded structures no seams, no leaks, no assembly required
 - Provides super-strong, durable structures through the use of high strength fiberglass fabrics
 - O Superior to the conventional spray up molding process in virtually every way
- 100% composite structure, no wood to rot, no steel to rust
- Insulated walls and roof, R18 R24 insulation value is standard
- Installation of building is very quick, simply bolt to a concrete pad/foundation
- Structurally pre-engineered for the toughest environments

Important Notes:

• Refer to notes section at the bottom of the quote for important notes and assumptions



Innovative fiberglass products

Project Name	UGA - Camp Creek Wedeco VE Building		
Date	6/17/21		
Document Type	Budgetary Estimate		
Description	DuraFiber Building - 12' Width x 9' Height x 20' Length		
ltem	Description	Qty	
Building			
Dimensions	12' Width x 9' Height x 20' Length	1	
Construction Type	4" Foam Core, 100% Composite, Molded Construction, R24 Insulation Value, Lifting Eye(s)	1	
Design	Single Piece Construction	1	
Color Option	Torque Tan	1	
Resin Option	n/a	0	
Install Kit/Anchor Bolts	Anchor, Wedge, Stainless Steel, Trubolt 1/2" x 5-1/2"	21	
Install Kit/Butyl	Concrete Gasket, 5/8" x 3/4" x 88"	9	
Partition Wall(s)	n/a	0	
Mounting Harware Kit	1 Rivet Nut Hand Tool, 25 Rivet Nuts, 50 Walldog Screws	1	
Door/Hardware			
Entry Door	36" Wide FRP Constructed Door w/ FRP Door Frame, SS Hinges, FRP Drip Cover	2	
Entry Door Hardware	oor Hardware Door Hardware, Entry Lockset, Lever With Stainless Hardware, Keyed, Grade 1, Corbin Russwin CL3351 NZD 626		
Door Closer	Door Hardware, Hydraulic Closer With Hold-Open, Norton 8301H	1	
Door Seal	Door seal, hollow bulb silicone, Pemko 303 D PK 84	2	
	Door bottom sweep, dark bronze, aluminum with brush, Pemko 18062D NB	2	
Electrical - Lighting			
	Lighting, Interior: LED, 4', Vapor Tight Fixture, Lithonia XVML L48 5000LM MVOLT 40K 80CRI	3	
Exterior Light	Lighting, Exterior: LED, 120V, 19W, 1017 Lumens, Photo Sensor,	1	
Electrical - Load Center/Outlets	Lithonia TWS LED 1 50K 120PE		
	Load Center TBD, estiamted at 120/230V single phase 125A	1	
	Breaker, 15A, 1P, 120/240V, 10 kAIC, 1,800W, Eaton BR115	3	
	Breaker Breaker, 20A, 1P, 120/240V, 10 kAIC, 2,400W, Eaton BR120		
GFCI	Receptacle, Duplex, GFCI, 15A, 125V, 20A Feed-Thru, White, Leviton	2	
	GFWT1-W w/ Weatherproof Carlon Cover and Gang Box		
Toggle Switch	Switch, 20A, 120/277V, Leviton 1221-2W w/ Weatherproof Covers, Carlon E98TSCN or E9G2SSN	4	
Wire/Conduit	Wire/Conduit Wiring, Typical 12 awg, PVC Conduit and Installation of Components		
Construction Note Building will come with lighting, gfci(s) and HVAC wired to locenter.			
Heating/Cooling/Ventilation			
noung/ocomig/remalation			

	<u> </u>	1
HVAC System	Marvair or Bard unit, dual 5 ton units with heat and economizer	2
<u>Construction Note</u>		
Options		
Design Calculations	Structural design calculations, sealed by PE	1
Lead Time Estimate From Signed		6 - 8 weeks
Submittals		0 - 8 WEEKS
F.C. (1W):16		
Estimated Weight	Notes:	4380 lbs
1.	The building will be manufactured to the above specifications. Only the items specifically listed are included. It is the responsibility of the customer to review this quote for accuracy and conformance with all related project documents and to contact Orenco Composites directly for revisions. The lead time estimate provided is approximate and may vary based on	
	demand at the time the order is placed. Lead time estimates represent the expected time from receipt of signed submittal drawings to the time of shipment. Lead time estimates are meant to reflect the manufacturing time requirements for the structure and do not include considerations for submittal procedures, freight and/or other processes.	
5.	The estimated weight provided shall be considered approximate. Actual structure weight may vary significantly based on the specific details of the quoted structure and the individual equipment provided within. It is the responsabilty of the customer to contact Orenco Composites for an acurate weight estimate prior to handling the structure and/or estimating costs associated with such activities.	

Attachment #3

Updated Bid Form Base Bid Items

Fulton ITB: 21ITB129828K-JAJ

Project: Camp Creek WRF UV System Replacement

BID FORM

BASE BID ITEMS (Revised 7-8-21 to Include VE Items)

	- (
1. LUMP SUM ITEMS		
	1.1. UV SYSTEM UPGRADES	\$2,360,500.00
	1.2. UV SYSTEM CANOPY	\$76,500.00
	1.3. ELECTRICAL BUILDING	\$355,000.00
	1.4. ELECTRICAL EQUIPMENT	\$416,000.00
	1.5. 4160V SWITCH GEAR	\$592,000.00
2. OWNER-DIRECTED ALLOWANCE		
	2.1. CONTINGENCY	\$200,000.00
	2.2. INSPECTIONS & TESTING	\$5,000.00
	2.3. MISCELLANEOUS CONCRETE REPAIR	\$10,000.00
	2.4. LANDSCAPING/GRASSING	\$10,000.00
	2.5. Engineering Continuance	\$75,000.00
BASE BID TOTAL (SUM OF ITEMS 1 AND 2)		\$4,100,000.00

Attachment #4

Subcontractor Utilization Summary

Camp Creek WRF UV Replacement - Exhibit C (Revised 7-8-21 to Include VE Items)

Subcontractor Name	Address	Contact Name, Phone and Email		County	Work to be Performed	Estimated Contract Value	
			Ethnic Group	Certified			Participation (%)
Anasteel Supply Company, LLC	2272 Mabros Industrial Pkwy Ellenwood GA 30294	Anna Cablik: 707-675-9501 tel@anasteel.com	WFBE	Yes	Rebar	\$ 7,349	0.18%
Baker Building Services	4205 1st Ave #300 Tucker, GA 30084	Zack Slabiak: 678-502-7176 zslabiak@bakerbldgservices.com	N/A	No	Painting	\$ 5,200	0.13%
Excel Electrical Technologies, Inc.	1990 Vaughn Rd. Suite 320 Kennesaw GA 30144	Russell Stover: 770-970-4108 Russell.Stover@excelelectrical.com	N/A	No	Electrical	\$ 946,582	23.09%
Mayer Electric Supply Co. Inc.	3405 4th Avenue South Birmingham, Al 35222	Nancy Goedecke: 770-447-6800 nancygoedecke@mayerelectric.com	WFBE	Yes	Electrical Apparatus Supply (2-nd tier)	\$ 338,000	8.24%
Global Controls Systems	3297 Millwood Trail SE Smyrna, GA 30080	Kishor Gandhi: 678-908-8392 kishor@globalcontrolsystems.com	WFBE	Yes	I&C	\$ 42,800	1.04%
Cantsink Manufacturing Inc.	71 1st Ave. NW Lilburn GA 30047	Jeff Schade: 404-271-5044 jeff@cantsink.com	N/A	No	Helical Piles	\$ 18,544	0.45%
						\$ -	0.00%
						\$ -	0.00%
						\$ -	0.00%
						\$ -	0.00%
TOTAL PROJECTED UTILIZATION						\$ 1,358,475	

Subcontractor Percentage:

33.13%

Certified Firms Percentage:

9.47%

8/18/2020 B2Gnow





Department of Purchasing & Contract Compliance

Mario Avery, MBA, MCA Contract Compliance Administrator Suite 1168 130 Peachtree Street, S.W. Atlanta, GA 30303 www.fultoncountyga.gov

Main: (404) 612-6300

August 18, 2020

Ms. Nancy C Goedecke MAYER ELECTRIC SUPPLY CO., INC. 3405 4th Avenue South Birmingham, AL 35222-2300

Dear Ms. Goedecke:

The Fulton County Office of Contract Compliance has reviewed your application for Minority/Female Business Enterprise ("MFBE") recertification. Based on our evaluation of the information submitted, your firm has met the requirements for certification renewal.

Your firm's certification will last for a period of two (2) years beginning with the effective date of this letter. You may apply for recertification as a MFBE three months prior to the certification expiration date. Failure to recertify your company within six (6) months after certification has expired will require your company to repeat the certification process in its entirety. If at any time during your certification period there is a change in management, ownership or control of your firm, you are required to update your firm's profile. If your firm relocates during the certification period please update your profile as well. Failure to maintain accurate information on your firm may result in removal of your firm from the Minority/Female Business Enterprise (MFBE) Directory.

If you have any questions or require further assistance, please feel free to contact our office at (404) 612-6300. We wish you continued success in your business endeavors.

Sincerely,

Mario Avery

Contract Compliance Administrator

Main & Aver