



City of Pocatello
P.O. Box 4169
Pocatello, ID 83205-4169
www.pocatello.us/wpc

Water Pollution Control Department
Office: (208) 234-6254
Fax: (208) 237-3927

Levi Adams
Superintendent

#15

Executive Summary

March 18, 2021

To: Mayor Blad and City Council

From: Levi Adams, WPC Superintendent

Re: Cogeneration Electrical System Upgrade

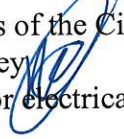
Discussion

Water Pollution Control (WPC) is seeking approval to contract Hunt Electric, Inc. to upgrade the cogeneration electrical system. The scope of work exceeds the department's ability to complete in-house. Three quotes were obtained for the upgrade, the lowest of which was submitted by Hunt Electric, Inc. at \$51,276.50. Funds for the upgrade are budgeted in the WPC FY21 budget.

Recommendation

Council may wish to consider WPC's recommendation and accept the quote from Hunt Electric, Inc. to perform the cogeneration electrical system upgrade.

MEMORANDUM

TO: Brian C. Blad, Mayor; Members of the City Council
FROM: Rich Diehl, Deputy City Attorney 
RE: WPC Department Bid Award for electrical work
DATE: March 17, 2021

I have reviewed the documents which pertain to the WPC's Bid Award for electrical work on the WPC Building and they are in order. It is appropriate to follow the recommendations of Levi Adams, Superintendent of WPC, in awarding the bids as outlined in his Executive Summary.

I further would recommend that the Council authorizes the Mayor to sign any necessary documents to effectuate these purchases. If you have any questions, please feel free to contact me.

CO-GEN ELECTRICAL UPGRADE CITY OF POCA TELLO WPC

GENERAL SCOPE OF WORK

- 1- Provide and install a new Allen Bradley MCC (see attached submittal). The MCC is to be installed on a 4" housekeeping pad.
- 2- Provide and install a 120/208 200 amp 3 phase panel (see attached submittal).
- 3- Provide and install a 277/480 200 amp 3 phase panel (see attached submittal).
- 4- Remove all unused wiring from panels and conduits.
- 5- Provide new and complete panel schedules.
- 6- Replace the conduit feeding the sludge pump located inside the co-gen building. 23 amp

This work includes but not limited to –

- 7- Refeeding #2 generator exhaust fan. 7 amp
- 8- Refeeding the re-circulation pumps #1, 11.8 amp and #2, 12 amp.
- 9- Refeeding the three circuits in the existing MCC 120 vac panel from the new 120 vac panel. Water heater, heater and generator control panel circuit.
- 10- Refeeding the sludge loading pumps (one inside co-gen building, 23 amps and one in the pit, 36 amps). These two pumps will need to operate in unison from a single remote hand station.
- 11- Removal of any unused wiring for the load out valve in the truck bay.
- 12- Removal of all old equipment from the facility.
- 13- Start up and test.
 - Line items 8 and 9 are critical and must remain running.
 - One of the two boiler systems will be critical and must remain running.
 - Depending on the timing of this upgrade and the operations at the plant line item 10 may be critical. If so, they will need to remain running.
 - This scope of work is a general outline of the work required and in no way represents all of the work required to accomplish this upgrade.

HUNT ELECTRIC, INC.
JOHN HUNT
237 ROOSEVELT ST
OFFICE (208)226-5626
EMAIL: jhunteelectric@yahoo.com

DATE: 3/2/21

PROPOSAL SUBMITTED TO : CITY OF POCATELLO/ DARREL CLEMENS

JOB NAME: CO-GEN UPGRADE CITY OF POCATELLO WPC

BID BASED ON: GENERAL SCOPE OF WORK

INSTALL NEW MCC ON 4" HOUSE KEEPING PAD

INSTALL NEW 120/208 200 AMP PANEL 3 PHASE UP DATE PANEL SCHULE

INSTALL NEW 277/480 VOLT PANEL 3 PHASE UP DATE PANEL SCHULE

REMOVE ALL UNUSED CONDUIT AND WIRE FROM BOTH PANELS

NEW S.S. RAIN TIGHT DISCONNECT FOR PIT PUMP

INSTALL NEW CONDUIT TO POWER UP 3 CIRCUITS IN OLD CONTROL ROOM
WATER HEATER, GENERATOR CONTROL, HEATER

INSTALL NEW CONDUIT TO SLUDGE PUMP, EXHAUST FAN, RE CIRCULATION
PUMPS, SLUDGE LOADING PUMPS,

CONTROLS FOR THE SLUG PUMPS AND NEW PUSH BUTTON STATION FOR
CIRCULATION PUMPS

REMOVAL OF ALL OLD UN USED EQUIPMENT

START AND RUN THE NEW EQUIPMENT

WE HEREBY FURNISH MATERIALS AND LABOR TO COMPLETE IN ACCORDANCE WITH
THE SPECIFICATIONS AS OUTLINED FOR THE PRICE OF: \$ 51,276.50

JOHN HUNT

ACCEPTANCE OF PROPOSAL:
THE OUTLINED PRICES, SPECIFICATIONS AND CONDITIONS ARE SATISFACTORY AND
ARE HEREBY ACCEPTED. HUNT ELECTRIC, INC. IS AUTHORIZED TO DO THE WORK AS
SPECIFIED.

DATE OF ACCEPTANCE:

SIGNATURE

Brad C. Blad, Mayor

CES POCATELLO
CED INDUSTRIAL SOLUTIONS
234 S 2ND AVE
POCATELLO ID 83201
TEL: 208 232-2585 FAX: 208 232-2230

SLS: 0449
INSL: 0449
BY: VF
FOB: SHIPPING POINT
FRT: PREPAID

PAGE: 001 OF 001
QUOTE #: 1035545
DATE: 02/16/21
REV #: 002
REV DATE: 02/23/21

CONTACT: VINNIE FAY

QUOTE FOR: COD-CHECK

ACCT #: MG-00026 COD-CHECK

SHIP NAME: CONTRACTOR

ATTN:
CONTRACTOR

QUOTE EXPIRES 03/18/2021

234 SOUTH 2ND AVE
POCATELLO, ID 83201
TEL: (208) 232-2585

CUS PO #:
JOB NAME: WPC COGEN MCC & GEAR

LN	QTY	MFR	CATALOG #/DESCRIPTION
01	1	AB	2100 WPC COGEN MCC
02			RA QUOTATION 25381736 PROJECT ID # 5253444/3
03	1	MISC	FREIGHT ALLOWANCE INCLUDED
04	1	SIEM	P1E42ML250CTST PANEL H 480Y/277 3 PHASE 4W
05	1	SIEM	P1G42ML250GTST PANEL L 208Y/120 3 PHASE 4W
06	1	SIEM	LOT PANEL BOARDS

MDSE: 15,045.00
TAX: 902.70
TOTAL: 15,947.70

PLEASE NOTE: THIS IS NOT AN OFFER TO CONTRACT, BUT MERELY A QUOTATION OF CURRENT PRICES FOR YOUR CONVENIENCE AND INFORMATION. ORDERS BASED ON THIS QUOTATION ARE SUBJECT TO YOUR ACCEPTANCE OF THE TERMS AND CONDITIONS LOCATED AT SALES.OUR-TERMS.COM, WHICH WE MAY CHANGE FROM TIME TO TIME WITHOUT PRIOR NOTICE. WE MAKE NO REPRESENTATION WITH RESPECT TO COMPLIANCE WITH JOB SPECIFICATIONS.

CUSTOMER COPY

Rockwell Automation
Centerline 2100 Motor Control Center
Basic Structure Information

Project Name: WPC CoGen MCC Replacement
 Project Item: WPC
 Project ID #: 5253444/3

Salesperson: Tim Franklin
 Created By: Tim Franklin
 Date/Time: 02/23/21 - 13:26

Motor Control Center Details

This MCC(s) was developed using an available fault current of 35,001 to 42,000 A.
 MCC configuration & pricing subject to change, if actual Available Fault Current differs.

Motor Control Center Details

Power System Type: Wye, 3-phase, 3-wire with solidly grounded neutral
 Voltage: 480 Volts / 60 Hertz
 Available Fault Current: 35,001 to 42,000 A
 Unit Nameplate Type: Card Holder
 Wiring Type: B-T Control and Power Terminal Blocks
 Wiring Diagram Location: Within each unit
 Arc Resistant MCC: No
 IntelliCENTER Network: None

Horizontal Ground Bus Size: 1/4" X 1"
 Horizontal Ground Bus Plating: Unplated Copper
 Horizontal Ground Bus Location: Bottom
 Vertical Ground Bus Type: Plug-in Zinc Plated Steel
 Incoming Ground Lug Size: #6 AWG - 250 kcmil (2 Supplied as Standard)
 Incoming Ground Cable Size: None Selected

Incoming Line Details

MCC Connection Type: Main Circuit Breaker
 Incoming Line Cable Entry: Top Mounted

Enclosure Details

Enclosure Type: 1 - General Purpose
 NEMA 3R/4 Lifting Angle: No
 Section Depth: Front Mounted, 15" Deep
 Section Height: 80" High
 Stab Opening Protection: Protective Caps

Bus Details

Main Bus Rating: 800A
 Main Bus Material: Copper / Tin Plated
 Main Bus Bracing: 42kA (rms symmetrical)
 Insulated Bus: None Selected

Total Shipping Block(s): 2
 Total Section(s): 2
 Total Unit(s): 11

Section Modifications (Qty/Mods)

Section Number	Section Width (Inches)	Options/Modifications
1	20"	N/A
2	20"	N/A

Rockwell Automation

Centerline 2100 Motor Control Center

Unit Description

Project Name: WPC CoGen MCC Replacement	Salesperson: Tim Franklin
Project Item: WPC	Created By: Tim Franklin
Project ID #: 6263444/3	Date/Time: 02/23/21 - 13:26

General Information

Line Voltage / Frequency: 480 Volts / 60 Hertz
 Power System Configuration: Wye, 3-phase, 3-wire with solidly grounded neutral
 Class I Wiring Type: B-T Control and Power Terminal Blocks
 NEMA Enclosure Type: 1 - General Purpose
 Available Fault Current: 35,001 to 42,000 A
 Unit Nameplate Type: Card Holder
 Delivery Program: SCII

Unit Information

Description	Unit Features
<p>Unit Loc: 01A Del Prog: SCII Unit ID: 1 MCB - Main Circuit Breaker</p> <p><u>Rating</u> 150A</p> <p><u>Wiring Diagram</u> 10004171331</p>	<p>Catalog Number: 2193MT-CKG-42TJM Total Space Factor = 1.5 Circuit Breaker: Thermal Magnetic, 65kA at 480V (150) with Frame Rating of 250A (-NONE- Frame), Top Mounted, 150A Trip Lugs Supplied: Std Mech/Lug Pads, 250 kcmil Size Wire, 1 Cables per Phase</p>
<p>Unit Loc: 01D Del Prog: SCII Unit ID: 2 FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><u>Rating</u> 1 HP</p> <p><u>Overload Relay(s)</u> E100 Electronic Overload (7FE1) Trip setting adjustment from 1-6 AMPS Motor RPM = 1800 Motor Full Load Current (FLC) = 1.84 Motor Service Factor = 1.15</p>	<p>Catalog Number: 2113B-BABD-7FE1C-17-21-35TGA Size: NEMA Size 1 Total Space Factor = 1 Wiring: NEMA Type B wiring Circuit Breaker: Instantaneous MCP, 65kA at 480V (G&P Frame) (3A Trip) Control: Separate/External Source, 120V/60Hz Control Wiring: #16 AWG MTW(TEW) Cu</p> <p><u>Features Included</u> Contactor Surge Suppressor (-17) 1 control circuit fuse for separate control (-21)</p>

<p>Unit Loc: 01F Del Prog: SCII Unit ID: 3 FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><u>Rating</u> 10 HP</p> <p><u>Overload Relay(s)</u> E100 Electronic Overload (7FE1) Trip setting adjustment from 5.4-27 AMPS Motor RPM = 1800 Motor Full Load Current (FLC) = 13.65 Motor Service Factor = 1.15</p>	<p>Catalog Number: 2113B-BABD-7FE1E-17-21-41TGA Size: NEMA Size 1 Total Space Factor = 1 Wiring: NEMA Type B wiring Circuit Breaker: Instantaneous MCP, 100kA at 480V (G8P Frame) (30A Trip) Control: Separate/External Source, 120V/60Hz Control Wiring: #18 AWG MTW(TEW) Cu</p> <p><u>Features Included</u> Contactor Surge Suppressor (-17) 1 control circuit fuse for separate control (-21)</p>
<p>Unit Loc: 01H Del Prog: SCII Unit ID: 3 FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><u>Rating</u> 10 HP</p> <p><u>Overload Relay(s)</u> E100 Electronic Overload (7FE1) Trip setting adjustment from 5.4-27 AMPS Motor RPM = 1800 Motor Full Load Current (FLC) = 13.65 Motor Service Factor = 1.15</p>	<p>Catalog Number: 2113B-BABD-7FE1E-17-21-41TGA Size: NEMA Size 1 Total Space Factor = 1 Wiring: NEMA Type B wiring Circuit Breaker: Instantaneous MCP, 100kA at 480V (G8P Frame) (30A Trip) Control: Separate/External Source, 120V/60Hz Control Wiring: #18 AWG MTW(TEW) Cu</p> <p><u>Features Included</u> Contactor Surge Suppressor (-17) 1 control circuit fuse for separate control (-21)</p>
<p>Unit Loc: 01K Del Prog: SCII Unit ID: 5 FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><u>Rating</u> 30 HP</p> <p><u>Overload Relay(s)</u> E100 Electronic Overload (7FE1) Trip setting adjustment from 20-100 AMPS Motor RPM = 1800 Motor Full Load Current (FLC) = 36.18 Motor Service Factor = 1.15</p>	<p>Catalog Number: 2113B-DABD-7FE1G-17-21-45TGA Size: NEMA Size 3 Total Space Factor = 1.5 Wiring: NEMA Type B wiring Circuit Breaker: Instantaneous MCP, 100kA at 480V (G8P Frame) (100A Trip) Control: Separate/External Source, 120V/60Hz Control Wiring: #18 AWG MTW(TEW) Cu</p> <p><u>Features Included</u> Contactor Surge Suppressor (-17) 1 control circuit fuse for separate control (-21)</p>
<p>Unit Loc: 02A Del Prog: SCII Unit ID: 4 FVNR - Full Voltage Non-Reversing Starter w/CB</p> <p><u>Rating</u> 20 HP</p> <p><u>Overload Relay(s)</u> E100 Electronic Overload (7FE1) Trip setting adjustment from 11-55 AMPS Motor RPM = 1800 Motor Full Load Current (FLC) = 25.79 Motor Service Factor = 1.15</p>	<p>Catalog Number: 2113B-CABD-7FE1F-17-21-43TGA Size: NEMA Size 2 Total Space Factor = 1 Wiring: NEMA Type B wiring Circuit Breaker: Instantaneous MCP, 100kA at 480V (G8P Frame) (50A Trip) Control: Separate/External Source, 120V/60Hz Control Wiring: #18 AWG MTW(TEW) Cu</p> <p><u>Features Included</u> Contactor Surge Suppressor (-17) 1 control circuit fuse for separate control (-21)</p>

Unit Loc: 02C Unit ID: 6 DOOR - Blank Unit Door	Del Prog: SCII	Catalog Number: 2100-BK10 Total Space Factor = 1
Unit Loc: 02E Unit ID: 6 DOOR - Blank Unit Door	Del Prog: SCII	Catalog Number: 2100-BK10 Total Space Factor = 1
Unit Loc: 02G Unit ID: 6 DOOR - Blank Unit Door	Del Prog: SCII	Catalog Number: 2100-BK10 Total Space Factor = 1
Unit Loc: 02J Unit ID: 6 DOOR - Blank Unit Door	Del Prog: SCII	Catalog Number: 2100-BK10 Total Space Factor = 1
Unit Loc: 02L Unit ID: 6 DOOR - Blank Unit Door	Del Prog: SCII	Catalog Number: 2100-BK10 Total Space Factor = 1

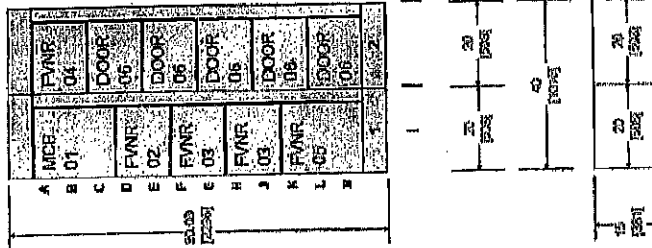
Rockwell Automation

Centerline 2100 Motor Control Center
Front Elevation

Project Name: WPC CoGen MCC Replacement
Project Item: WPC
Project ID #: 5253444/3

Salesperson: Tim Franklin
Created By: Tim Franklin
Date/Time: 02/23/21 - 13:26

Rockwell Automation/Allen-Bradley
PowerControl Builder Linestp



NOTE: Dimensions are subject to change after design rev/new.
ENCLOSURE: NEMA Type 1 (General Purpose)
Estimated Heat Loss: 411 watts
BTU/hr Required: 1402
Air Conditioning Tons: 0.12
Estimated Weight: 1000 lb (454 kg)

Quality Service



Reasonable Rates

MOUNTAIN WEST ELECTRIC INC.
Electrical Construction & Maintenance

Bid Proposal

Date: 2 February 2021

To: Beau Scharfen

Tel: 208-234-6256

Project: Pocatello WWP MCC and Panels Upgrade.

We offer the following electrical estimate as per conversation and walk through for the above referenced project. We will provide and install a new MCC (see attached submittal), 120/208 200amp 3 phase panel, 277/480 200amp panel, remove unused circuits, provide new panel schedules. This work includes refeeding exhaust fan 7 amp, hot water pumps 1 & 2 30 amp, sludge pump 50 amp, pit pump 50 amp, and refeed the 120 volt circuits in the MCC small panel.

Base Bid	\$79,400.00
Add 3 rd MCC Spare	\$ 8,000.00

Acknowledgments: MCC, 208 panel, 480 panel, labeling, startup/test, and circuit demo.

Exclusions: Overtime/weekend work, all work not in scope, and rigid conduit.

Bid shall be good for 30 calendar days.

Bid includes all applicable taxes and State Electrical Fee.

Idaho Electrical Contractor's License No.: C 3802

Public Works Contractor's License No.: PWC-C-12193-UNLIMITED-4 (16000, 02310, 02820, 02810, 13850, 16700)

Please do not hesitate to contact me at (208) 684-5463 should you have any questions regarding the above bid.

Thank you

Sincerely,

Bart Grover
Project Manager



Wheeler
ELECTRIC, INC.
DEDICATED TO EXCELLENCE SINCE 1962

469 W. 16TH STREET
IDAHO FALLS, ID 83402

OFFICE: 208-522-1906

FAX: 208-522-5927

WWW.WHEELERELECTRIC.COM

FEBRUARY 24, 2021

**POCATELLO WATER POLLUTION
CONTROL DEPARTMENT**

ATTN: DARREL CLEMENS

PHONE: 208.241.4632

EMAIL: DCLEMENS@POCATELLO.US

CO-GEN ELECTRICAL UPGRADES
POCATELLO, IDAHO

ELECTRICAL WORK COMPLETE - **\$ 101,600.00**

❖ **WE ARE INCLUDING** THE FOLLOWING:

- PROVIDE AND INSTALL NEW ELECTRICAL SERVICES PER "CO-GEN ELECTRICAL UPGRADE CITY OF POCATELLO WPC - GENERAL SCOPE OF WORK."
- PURCHASE AND INSTALL ITEMS QUOTED TO OWNER.
- PROVIDE ELECTRICAL PERMITS AS REQUIRED.
- PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT FOR A COMPLETE PROJECT.

❖ **WE ARE EXCLUDING** THE FOLLOWING:

- ALL OWNER PROVIDED AND/OR INSTALLED ITEMS.
- BREAKER COUNTS FOR NEW PANELS WILL BE OWNER/SUPPLIER RESPONSIBILITY.

THANK YOU FOR THE OPPORTUNITY TO PROVIDE THIS PROPOSAL.

Cody Wheeler

codyw@wheelerelectric.com

WHEELER ELECTRIC, INC.

IDAHO LICENSE # C-1950 + IDAHO DPW LICENSE # 12483-U-4

- AN EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER -

*FAILURE BY WHEELER ELECTRIC, INC. TO SPECIFICALLY EXCLUDE ANY PARTICULAR ITEM SHALL NOT BE INTERPRETED AS AN INCLUSION OF THAT ITEM IN THE SCOPE OF WORK. ANYTHING NOT COVERED IN THE SCOPE OF WORK WILL BE ADDRESSED AS A CHANGE ORDER.