

**2ND REVISED NOTICE OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE 2**

**February 26, 2024
9:00 am.**

NOTICE IS HEREBY GIVEN that a Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee 2 was called to be held on **February 26, 2024, at 9:00 am.** SOCWA staff will be present and conducting the meeting at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California.

THE SOCWA MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS, PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5452 AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING TO REQUEST SUCH ACCOMMODATIONS. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING. MEMBERS OF THE PUBLIC HAVE THE OPTION TO PARTICIPATE IN AND MAY JOIN THE MEETING REMOTELY VIA VIDEO CONFERENCE FOR VISUAL INFORMATION ONLY (USE ZOOM LINK BELOW) AND BY TELECONFERENCE FOR AUDIO PARTICIPATION (USE PHONE NUMBERS BELOW). THIS IS A PHONE-CALL MEETING AND NOT A WEB-CAST MEETING, SO PLEASE REFER TO AGENDA MATERIALS AS POSTED ON THE WEBSITE AT WWW.SOCWA.COM. ON YOUR REQUEST, EVERY EFFORT WILL BE MADE TO ACCOMMODATE PARTICIPATION. FOR PARTIES PARTICIPATING REMOTELY, PUBLIC COMMENTS WILL BE TAKEN DURING THE MEETING FOR ORAL COMMUNICATION IN ADDITION TO PUBLIC COMMENTS RECEIVED BY PARTIES PARTICIPATING IN PERSON. COMMENTS MAY BE SUBMITTED PRIOR TO THE MEETING VIA EMAIL TO ASSISTANT SECRETARY DANITA HIRSH AT DHIRSH@SOCWA.COM WITH THE SUBJECT LINE "REQUEST TO PROVIDE PUBLIC COMMENT." IN THE EMAIL, PLEASE INCLUDE YOUR NAME, THE ITEM YOU WISH TO SPEAK ABOUT, AND THE TELEPHONE NUMBER YOU WILL BE CALLING FROM SO THAT THE COORDINATOR CAN UN-MUTE YOUR LINE WHEN YOU ARE CALLED UPON TO SPEAK. THOSE MAKING PUBLIC COMMENT REQUESTS REMOTELY VIA TELEPHONE IN REAL-TIME WILL BE ASKED TO PROVIDE YOUR NAME, THE ITEM YOU WISH TO SPEAK ABOUT, AND THE TELEPHONE NUMBER THAT YOU ARE CALLING FROM SO THE COORDINATOR CAN UN-MUTE YOUR LINE WHEN YOU ARE CALLED UPON TO SPEAK. ONCE THE MEETING HAS COMMENCED, THE CHAIR WILL INVITE YOU TO SPEAK AND ASK THE COORDINATOR TO UN-MUTE YOUR LINE AT THE APPROPRIATE TIME.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE 2 IN CONNECTION WITH A MATTER SUBJECT FOR DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE PROJECT COMMITTEE 2 ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY ADMINISTRATIVE OFFICE LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE") OR BY PHONE REQUEST MADE TO THE AUTHORITY OFFICE AT 949-234-5452. IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE PROJECT COMMITTEE 2 LESS THAN TWENTY-FOUR (24) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE PROJECT COMMITTEE 2 AND SENT TO ANY REMOTE PARTICIPANTS REQUESTING EMAIL DELIVERY OR POSTED ON SOCWA'S WEBSITE. IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE MEETING ROOM OR IMMEDIATELY UPON VERBAL REQUEST TO BE DELIVERED VIA EMAIL TO REQUESTING PARTIES PARTICIPATING REMOTELY.

**THE PUBLIC MAY PARTICIPATE REMOTELY BY VIRTUAL MEANS. FOR AUDIO OF MEETING USE
THE CALL IN PHONE NUMBERS BELOW AND FOR VIDEO USE THE ZOOM LINK BELOW.**

Join Zoom Meeting
<https://socwa.zoom.us/>

Meeting ID: 856 7814 5902
Passcode: 446291

Dial by your location:
+1 669 900 6833 US (San Jose) +1 253 215 8782 US (Tacoma)
+1 346 248 7799 US (Houston) +1 312 626 6799 US (Chicago)
Find your local number: <https://socwa.zoom.us/j/kZE2kUiHx>

2ND REVISED
AGENDA

1. Call Meeting to Order

2. Public Comments

THOSE WISHING TO ADDRESS THE ENGINEERING COMMITTEE ON ANY ITEM LISTED ON THE AGENDA WILL BE REQUESTED TO IDENTIFY AT THE OPENING OF THE MEETING AND PRIOR TO THE CLOSE OF THE MEETING. THE AUTHORITY REQUESTS THAT YOU STATE YOUR NAME WHEN MAKING THE REQUEST IN ORDER THAT YOUR NAME MAY BE CALLED TO SPEAK ON THE ITEM OF INTEREST. THE CHAIR OF THE MEETING WILL RECOGNIZE SPEAKERS FOR COMMENT AND GENERAL MEETING DECORUM SHOULD BE OBSERVED IN ORDER THAT SPEAKERS ARE NOT TALKING OVER EACH OTHER DURING THE CALL.

3. Contract Award for MCC M, Switchgear Circuit Breaker, and Portable Generator Connection Pre-Procurement [Project Committee 2] 1

ACTION Staff recommends that the PC 2 Board of Directors approve the contract to Pacific Parts & Controls for a total of \$217,545, including a 10% contingency for the JBL MCC-M, switchgear circuit breaker, and portable generator connection pre-procurement.

4. J.B. Latham Treatment Plant (JBL) Effluent Pump Station and Energy Building Design Contract [Project Committee 2]..... 16

ACTION Staff recommends that the PC 2 Board of Directors approve the contract to Carollo Engineers for a total of \$175,516 for the JBL Effluent Pump Station and Energy Building improvements.

5. Closed Session

A. Closed Session Conference with Legal Counsel – Anticipated Litigation (Gov. Code 54956.9(d)(2)) – One potential matter

B. Closed Session Conference with Legal Counsel – Existing Litigation (Gov. Code 54956.9(d)(1)) – *CSI Electrical Contractors, Inc. v. Olsson Construction, Inc., South Orange County Wastewater Authority, et. al.*

Orange County Superior Court Case No. 30-2024-01379217-CU-CO-CJC

C. Report out of Closed Session

Adjournment

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Project Committee 2 at least 24 hours prior to the scheduled time of the Special Meeting referred to above.

I hereby certify that the foregoing Notice was posted at least 24 hours prior to the time of the above-referenced Project Committee meeting at the usual agenda posting location of the South Orange County Wastewater Authority and at www.socwa.com.

Dated this 23rd day of February 2024.



Danita Hirsh, Assistant Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Agenda Item

3

PC 2 Committee Meeting

Meeting Date: February 26, 2024

TO: PC 2 Board Members

FROM: Jim Burror, Acting General Manager/Director of Operations

STAFF CONTACT: Roni Grant, Associate Engineer

SUBJECT: Contract Award for MCC-M, Switchgear Circuit Breaker, and Portable Generator Connection Pre-Procurement [Project Committee 2]

Overview

SOCWA staff is currently working on a project to replace MCC-M, switchgear circuit breaker, and add a portable generator connection at the J.B. Latham treatment plant (JBL) under Project 3252-000, MCC M and G Replacement. The lead time for the MCC and appurtenances is approximately 60 weeks.

SOCWA staff has been looking into pre-purchasing this and other equipment due to the reported long lead times. Pre-purchasing would allow SOCWA to coordinate the construction bidding with the equipment delivery date. This approach will reduce the contractor's scheduled time and reduce the contractor's overhead costs.

SOCWA staff solicited quotes through Sourcewell for MCC-M, switchgear circuit breaker, and portable generator connection. One quote was received from Pacific Parts & Controls, representing the manufacturer Eaton. The vendor for Square D was non-responsive at this point.

SOCWA was recently notified by Pacific Parts & Controls that all purchase orders placed before March 14, 2024, will avoid an Eaton-planned 8% inflation adjustment of \$15,822.

Cost Analysis

The quote from Pacific Parts & Controls is \$197,768, including tax, freight, startup, and testing. The engineer estimated \$350,000 for the MCC, portable generator connection, and switchgear circuit breaker. Staff requests a 10% contingency in the amount of \$19,777, totaling \$217,545, to cover other fees that might not be included in the quote. Table 1 shows the allocation of costs by member agencies.

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Table 1 – Cost Allocation by Member Agency

Agency	Cost
Moulton Niguel Water District	\$50,209
Santa Margarita Water District	\$104,596
South Coast Water District	\$62,740
Total	\$217,545

The FY2023-24 budget for Project 3252-000 (MCC M and G Replacement) is \$1M, which was intended for pre-purchasing equipment.

Prior Related Project Committee or Board Action (s)

This item was reviewed and discussed at the Board of Directors Meeting on January 11, 2024.

Recommended Action: Staff recommends that the PC 2 Board of Directors approve the contract to Pacific Parts & Controls for a total of \$217,545, including a 10% contingency for the JBL MCC-M, switchgear circuit breaker, and portable generator connection pre-procurement.

1/5/2024

J.B. LATHAM TREATMENT PLANT MCC-M AND MCC-G REPLACEMENT PROJECT
Quotation – Revision 3

ADDER FOR SC, AF, AND COORD. STUDY:

Available upon request

ADDER FOR ACCEPTANCE TESTING/TRAINING:

Available upon request

Note that with power system short circuit and coordination studies and EESS site acceptance testing per EESS or NETA standard work scopes only, an extra year of warranty is provided by the factory to the customer at no extra cost.

PLANS DATED: May 2023

Plan Sheets provided for this quotation: E-Sheets

ORDER MUST BE RELEASED FOR MANUFACTURE WITHIN 90 DAYS OF DATE OF ORDER ENTRY OR BE SUBJECT TO ESCALATION COSTS. DUE TO EXTENDED DELIVERY DATES, PRICING MAY NOT BE HELD CONSTANT BETWEEN ORDER RELEASE AND SHIPMENT. PRICING MAY BE ADJUSTED PRIOR TO SHIPMENT.

GENERAL COMMENTS, CLARIFICATIONS, SPECIAL CONDITIONS

1. Eaton shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.
2. Cable terminations use mechanical type lugs, not compression type lugs, unless shown in the description of the equipment. Mechanical lugs will accept either copper or aluminum cables. Standard termination lugs are provided based on the ampacity of each circuit. Optional lugs are available that generally allow for the next larger standard cable size. Oversized lugs and/or additional quantities of parallel cables must be accommodated by the contractor's installation method (e.g. insulated cable splices in the equipment gutter, power terminal blocks, etc.) and are not part of this quotation.
3. Not included unless shown as a separate item within this bill of materials: safety switches, enclosed circuit breakers, starters meter sockets, spare parts / renewal parts and other miscellaneous equipment, 600 Volt or 250V fuses (others supplied only if noted specifically), extended warranty, seismic calculations, and selective coordination.
4. Dry type transformers (DOE 2016) - primary or secondary terminal lugs are not included. DTDI supplied with factory standard impedance and reactance levels unless shown otherwise.
5. Panels and switchboards- Eaton is not responsible for Title 24 design compliance unless Title 24 requirements are an integral part of the design. *** SPD and customer metering are only included where shown on single line or panel schedules. ***
6. Motor Control Centers – Overload heaters for motor starters are included in the price. However, these heaters will not be shipped until a verified list of full load amps or the specific heater sizes have been submitted to Eaton Electrical in writing
7. Eaton not responsible for Utility Meter Maximum center-line Height or CEC/NEC 6'-7" center of OCPD handle violation if the surface for electrical equipment supplied by Eaton – Enclosed Control, Fused or MCCB Switching Devices, Panelboards, Switchboards, LV Switchgear, MV Switchgear, etc.... – is installed on a surface more than 1" (i.e., housekeeping pads) above the level plane in front of the equipment as required by Utilities and NEC/CEC.
8. Order Entry- Eaton does not send utility approval drawings unless requested by customer. Customer to provide utility contact information. Lift gate truck requirement for switchboard delivery must be requested at or before time of order entry. Liquidated damages will not be accepted.
9. Defense Priorities & Allocations System (DPAS)- All prime contracts, subcontracts or purchase orders in support of an authorized program are given a priority rating. Eaton must be notified of the priority rating and ship date at time of bid.
10. The following (4) key elements must be referenced on the purchase order. If they are not, then the order is not considered compliant with 15 CFR Part 700.12 and will be rejected by Eaton.
 - Priority Rating
 - A required delivery date (on or about or asap will not do)
 - Manual or electronic signature from the customer (issuer of the purchase order)
 - A statement that reads in substance: "This is a rated order certified for national defense use, and you are required to follow all provisions of the Defense Priorities and Allocations System regulation (15 CFR 700)." (FAR 52.211-15)"

PROJECT COMMENTS AND CLARIFICATIONS:

1. Specification for the power breaker options is needed to provide an accurate part. In this BOM we have attempted to assume most the required functionality for the "Portable Generator Breaker".
2. The MCC is quoted as indoor NEMA1 Gasketed.



Pricing:

<u>Item</u>	<u>Price</u>	<u>Estimated Lead-Time</u>
Motor Control Center (MCC)	\$123,151.00	Approval drawings: 8 weeks Lead-time: 60 weeks
Magnum Breaker-Generator Feed for existing Switchgear	\$30,949.00	30-34 weeks
Generator Docking Station	\$17,290.00	Approval drawings: 7-10 working days Lead-time: 10-16+ weeks
Site Acceptance Testing and Training for MCC (non-taxable labor)	\$13,095.00	
Prices above are plus tax, and include freight prepaid (FOB Source). Add 1 week to lead-times for transit time. Lead-times are after return of approved drawings, if required.		

Notes:

Eaton supplies the Key Interlock provisions only. The customer is responsible for the locks, which can be Kirk or Castell. All items are non-cancellable and non-returnable.

Magnum Breaker-Generator Feed for existing Switchgear

- For the Magnum breaker being added to the switchgear, that cell will need to be upgraded to accommodate the larger breaker. A cell upgrade kit is included in this quote. Note from Eaton: Any time we modify or replace a riser or cell components containing copper, we will send a new rating name plate for that section without a U.L. sticker. It is then up to the installing contractor to get a U.L. representative to come to the field and inspect modifications and issue a new U.L. sticker.

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

Kevin Renek
Sr. Application Engineer
909-590-6802
krenek@pacificparts.com

BILL OF MATERIAL:

Item No.	Qty	Product	Description
	1	Motor Control Center	60 Hz, Class 1B wiring, 480V 3-Phase Service, 65,000 Bracing, 65 Short Circuit Rating, Top Incoming, NEMA 1 Gasketed 21" Front Mt Only enclosure, 600A Copper Main Horizontal Bus, No Neutral, Main Breaker. Used X-Space: 81, Blank X-Space: 15, Future X-Space: 0, MCC Lead Time Code: B.
		Designation	MCC-M
	Qty	List of Materials	
	3	HLD Main Bkr (350A trip), Lugs: 2-#400-500Kcmil	
	2	PXM2260 METER/DISPLAY 60HZ 5A 90-265V AC/DC	
	2	PXM2260	
	4	600V Potential transformer	
	6	600A Current transformer	
	4	FVNR Starter Size 1 [HMCP]	
	1	FVNR Starter Size 2 [HMCP]	
	3	FVNR Starter Size 4 [HMCP]	
	1	E125HCompact Bkr (15A trip)	
	1	E125HCompact Bkr (20A trip)	
	2	HFD Bkr (15A trip)	
	1	HFD Bkr (25A trip)	
	5	Size 1&2 FVNR-100VA Typical	
	11	Size 3&4 FVNR-150VA Typical	
	16	Size 1-4 Starter - Normally Closed	
	16	Size 1-4 Starter - Normally Open	
	8	1 Unit PB (Reset)	
	8	Red Run	
	8	Terminal Block - Latching Pull-Apart, Std.	
	8	2 Unit PB 10250T (Start/Stop)	
	8	Solid State Overload Relay (Standard C440)	
	32	D7 2P Relay	
	8	Wiremarkers at Each End	
	8	#16awg, MTW Control Wire	
	8	Additional X-Space	
	16	D15 On/Off Delay Timer	
	32	Amber Fault	
	16	3 Pos. Sel. Sw. (Hand-Off-Auto)	
	8	Pilot Light-PTT-10250T-LED (Stopped)	
	8	Pilot Light-PTT-10250T-LED (Run)	
	3	Key Interlock Provision	
	16	Standard Trip	
	1	Thermal Magnetic Trip	
	8	Pilot Light-PTT-10250T-LED (Overload Trip)	
	1	30 Kva 3 ph, 440-480V / 120-208V High Efficiency Xfmr, 50A Pri., 110A Sec. Bkr.	
	1	PL1A Panelboard 225A 120/208V 3PH 4W 42 CKT	
	42	Pnlbd Bkr, BAB 1 Pole 20A bkr	
	2	250KA, SPD Standard + Surge Counter Features Package, with Circuit Breaker	
	1	12" Door	
	3	18" Door	

Qty	List of Materials
4	6" Door
8	Tin Plated horizontal bus
8	600A Vertical Bus (Tin-plated cu)
8	Labyrinth, Isolated/Insulated vertical bus barrier with shutters
8	600A Horiz. Cu Gnd Bus, 1/4" x 2" Bar
8	65KA Bus Bracing
8	Fire Wall Barriers between each section
8	Bottom Vertical Bus Barrier
8	600A 50Deg C, Copper Frnt Mtd 21" NEMA 1 Gasketed

Magnum Breaker-Generator Feed for existing Switchgear

Item No.	Qty	Product	Description
	1	Magnum Air Circuit Breaker	MDS3

Catalog No MDN6203XEA201GNMNNNNNNNFX

Catalog No	Qty	List of Materials
MDN6203XEA201GNMNNNNNNNFX	1	Breaker, MDN-620, 3 Poles, 2000 Amps, Drawout Current Sensors / Rating Plug, 2000 Trip Unit 1150 ARMS LSIG, 120-Vac Power Supply Trip Indicator NEUTRAL SENSOR 2000:1 Key Interlock Provision No Lugs, provide by others CELL UPGRADE KIT to 2000A -- CELL 2A

Site Acceptance Testing and Training

Item No.	Qty	Product	Description
	1	EES SAT	

A Coordination Study does not exist.

Designation Site Acceptance Testing & Training

Qty	List of Materials
1	1 Test Equipment Setup Locations
1	One (1) trip of one (1) working day during the installation and startup of the equipment.
	One (1) trip of one (1) working day two (2) months before the warranty expiration to identify any issues to be corrected under warranty.
	One (1) trip of one (1) working day to perform training as specified herein.



Generator Docking Station

Qty Item

1	3622-0028	ESL 3622 Series TempTap – Pad Mount Inlet Box Transfer Switch Accessory 2000A Max, Assembly Rating: 42kA at 240V, 480V & 600V UL/cUL 1008 Listed (For Internal Use Only)
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TempTap Base Configuration

TempTap Series	3622 - 2000A Max, Pad Mount
Voltage & System Phases	480Y/277 (3-Phases + Neutral + Ground)

TempTap Options

Load Mechanical Lugs	Mechanical Lugs (8) 300-800 kcmil
Connection Type	Cams
Ground Cam(s)	Male
Field Ground Connection	Default (6) #2AWG - 600kcmil
Enclosure Material	304SS
Environmental Rating	3RX
Enclosure Color	RAL-7035 – Wrinkle Light Gray
Phase Rotation / SPD / TB	Phase Rotation Monitor, Remote Start 3 Point TB

The Generator Docking Station does not include any installation or on-site services, start-up, testing or training.

MCC General Information

MCC General Information

Wiring Diagram Type Eaton Standard
MCC Quantity
Standards UL845, NEMA, NEC
Special Codes UL
Service Voltage (3 Phase) 480
Frequency 60
System 3PH3W
Witness Testing No

Ind. Light Type
PL Color (On) Push to Test
PL Color (Off) Red
PL Color (O.L. Trip) Green
PL Color (Rev/Slow) Blue
Amber

Structure Schedule

There are 8 structure(s).
All structures have a 600 A vertical bus.
Total width of all sections is 164"
Height of all sections is 90"

Enclosure Specifications

Total Structures 8
Type NEMA 1 Gasketed
Depth 21" Front Mt Only
Height 90"
Horizontal Wireways 9" High, Top & Bottom
Vertical Wireways 4"
Channel Sills No
Bottom Plates None
150 Watt Space Heaters No
Space Heater Thermostat No
Master Terminal Block Location None
IBC/CBC Seismic Qualified No
ABS Certified No

Unit Modifications

#16awg, MTW Control Wire
Wiremarkers at Each End
Solid State Overload Relay (Standard C440)
Terminal Block - Latching Pull-Apart, Std.

Bus System Specifications

Main Bus Amps 600
Main Bus Material Copper
Main Bus Bar Plating Tin
Insulated Horiz. Bus No
1000A/sq in. Cu Bus No
Vertical Bus Amps See Structure Schedule
Vertical Bus Material Tin Plated Copper
Vertical Bus Barrier Labyrinth, Isolated/
Insulated with shutters
Bus Bracing 65,000
Ground Bus 600
Ground Bus Location Top
Ground Bus Lug Size 1-#6-350Kcmil
Ground Bus Lug Type Screw
Plug-in 300A Vert. Gnd. Bus No
Neutral None
Horizontal Bus Temperature Rise 50 deg C
Bottom Vert. Bus Barrier Yes
Vertical Ground Bus No

Incoming Line Termination

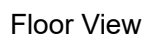
Device: HLD Main Bkr (350A trip), Lugs: 2-#400-500Kcmil
Cable Entry Top
Splice Kit / Transition None
MCC Type Match Up
MCC Type Match Up GO# ** None **

MCC Starter Specifications

Wiring Class 1B
Control Voltage 120
Control Voltage Src Ind CPT
Nameplate Size 1" X 2.5"
Nameplate Color Black / White Letters
Pilot Dev. Model 10250T

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY		DATE	Eaton Fayetteville, NC		
	JASON D ALLINGTON		12/6/2023			
	APPROVED BY		DATE	JOB NAME		
				South Orange County Wastewater Authority JB Latham Trea		
				DESIGNATION		
				MCC-M		
	VERSION			TYPE		DRAWING TYPE
	1.0.3.3			Freedom+ MCC		Customer Appr.
NEG-ALT Number	REVISION		DWG SIZE	G.O.		ITEM
LAED0917X0K2-0002			A			SHEET
						1 of 6

Figure 10 shows a schematic diagram of the 8F floor plan. The floor is divided into eight rectangular zones, labeled 1F through 8F. Each zone has a width of 5.41 and a length of 17.5, except for zone 4F which has a length of 21.5. Red dashed vertical lines separate the zones. Arrows indicate the flow of movement between zones.



PREPARED BY		DATE		<div style="display: flex; justify-content: space-between;"> Eaton Fayetteville, NC </div>	
JASON D ALLINGTON		12/6/2023			
APPROVED BY		DATE		JOB NAME South Orange County Wastewater Authority JB Latham Trea DESIGNATION MCC-M	
VERSION		TYPE		DRAWING TYPE	
1.0.3.3		Freedom+ MCC		Customer Appr.	
REVISION	DWG SIZE	G.O.		ITEM	SHEET
	A				2 of 6

Unit	Nameplate	Description	Class	Starter Size HP/FLA Wire Diag.	Bkr/Sw Poles Trip/Clip	Unit Features
1G	SWGR-MA	HLD Main Bkr (350A trip), Lugs: 2-#400- -#400-500Kcmil		NONE	HLD 3P 350	1 Thermal Magnetic Trip 1 Standard Trip 1 Key Interlock
1J		PXM2260		NONE		
1M		18" Door				
2C		250KA, SPD Standard + Surge Counter Features Package, with Circuit Breaker		NONE		
2H	MAIN-2 NPWP-2	FVNR Starter Size 4 [HMCP]	F206	4 60 NONE	HMCP 3P 150	2 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
2L	JOCKEY-1 NPWP-1	FVNR Starter Size 1 [HMCP]	F206	1 10 NONE	HMCP 3P 30	1 Size 1&2 FVNR-100VA Typical 1 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
2M	STRAINER-1	E125HCompact Bkr (15A trip)			E125H 3P 15	1 Standard Trip
3E	SPARE	FVNR Starter Size 4 [HMCP]	F206	4 60 NONE	HMCP 3P 150	2 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run
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		JASON D ALLINGTON	12/6/2023			
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				DESIGNATION		
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		1.0.3.3	Freedom+ MCC	Customer Appr.		
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET	
LAED0917X0K2-0002		A			3 of 6	

Unit	Nameplate	Description	Class	Starter Size HP/FLA Wire Diag.	Bkr/Sw Poles Trip/Clip	Unit Features
						4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
3G	AHU-1R	HFD Bkr (15A trip)		5599A85.DWF	HFD 3P 15	1 Standard Trip
3H		6" Door				
3L	SPARE	FVNR Starter Size 1 [HMCP]	F206	1 10 NONE	HMCP 3P 30	1 Size 1&2 FVNR-100VA Typical 1 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
3M		6" Door				
4F	LP-M	PL1A Panelboard 225A 120/208V 3PH 4W 42 CKT		5A10398.DWF		42 Pnlbd Bkr, BAB 1 Pole 20A bkr
4M	XMFR LP-M	30 Kva 3 ph, 440-480 / 120-208V High Efficiency Xfmr, 50A Pri., 110A Sec. Bkr.		5A10398.DWF		
5G	TIE	HLD Main Bkr (350A trip), Lugs: 2-#400- -#400-500Kcmil		NONE	HLD 3P 350	1 Standard Trip 1 Key Interlock
5J		12" Door				
5M		18" Door				
6B	STRAINER-2	HFD Bkr (15A trip)		5599A85.DWF	HFD 3P 15	1 Standard Trip
6G	MAIN-3 NPWP-3	FVNR Starter Size 4 [HMCP]	F206	4 60 NONE	HMCP 3P 150	2 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
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		JASON D ALLINGTON	12/6/2023	JOB NAME	South Orange County Wastewater Authority JB Latham Trea	
		APPROVED BY	DATE	DESIGNATION	MCC-M	
		VERSION	TYPE	DRAWING TYPE		
		1.0.3.3	Freedom+ MCC	Customer Appr.		
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET	
LAED0917X0K2-0002		A			4 of 6	

Unit	Nameplate	Description	Class	Starter Size HP/FLA Wire Diag.	Bkr/Sw Poles Trip/Clip	Unit Features																																													
6K	JOCKEY-4 NPWP-4	FVNR Starter Size 1 [HMCP]	F206	1 10 NONE	HMCP 3P 30	1 Size 1&2 FVNR-100VA Typical 1 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer																																													
6L		6" Door																																																	
6M	MUFFIN MONSTER	E125HCompact Bkr (20A trip)		5599A85.DWF	E125H 3P 20	1 Standard Trip																																													
7C		250KA, SPD Standard + Surge Counter Features Package, with Circuit Breaker		NONE																																															
7F	DECANT PUMP 02P26013	FVNR Starter Size 1 [HMCP]	F206	1 10 NONE	HMCP 3P 30	1 Size 1&2 FVNR-100VA Typical 1 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer																																													
7H	LP-K	HFD Bkr (25A trip)		5599A85.DWF	HFD 3P 25	1 Standard Trip																																													
7L	SCUM PUMP 02P26112	FVNR Starter Size 2 [HMCP]	F206	2 15 NONE	HMCP 3P 50	1 Size 1&2 FVNR-100VA Typical 1 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run																																													
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Unit	Nameplate	Description	Class	Starter Size HP/FLA Wire Diag.	Bkr/Sw Poles Trip/Clip	Unit Features
						4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
7M		6" Door				
8G	SWGR-MAR-EAST	HLD Main Bkr (350A trip), Lugs: 2-#400- -#400-500Kcmil		NONE	HLD 3P 350	1 Standard Trip 1 Key Interlock
8J		PXM2260		NONE		
8M		18" Door				

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	1.0.3.3		Freedom+ MCC		Customer Appr.	
	REVISION	DWG SIZE	G.O.	ITEM	SHEET	
		A			6 of 6	

TempTap™ Generator Docking Station

UL 1008 Listed

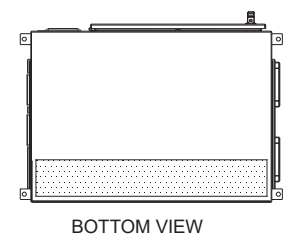
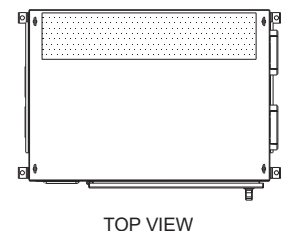
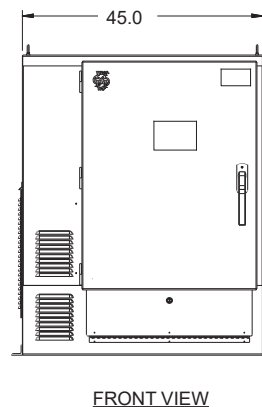
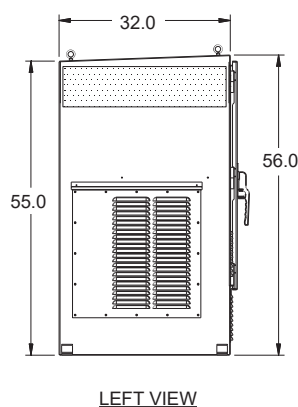
2000A, up to 600VAC
Series: 3622

Features



- Quick connect solution for a backup portable generator
- Hinged, padlockable access door & dead front panel for safe generator connection and operation
- Type 3R double coated, cold-rolled steel enclosure with gray powdercoat RAL 7035 (stainless steel & additional colors optional)
- Color-coded cam style male connectors for easy generator connection
- Unit does not provide overcurrent protection. Must be used with appropriately sized feeder disconnect for intended application
- Pad mount

Drawing



Available incoming conduit entry locations shown shaded.

Approvals

- UL/cUL 1008 Listed assembly
- UL 1691 Listed receptacles

Specifications

UL 1008 Listed

TempTap Generator Docking Station Series: 3622

System Voltage	208Y/120 (3-Phases + Neutral + Ground) 208 (3-Phases + Ground) (no Neutral) 240 Delta (3-Phases + Ground) (no Neutral) 240/120 Delta (3-Phases + Neutral + Ground) (High Leg) 480 Delta (3-Phases + Ground) (no Neutral) 480Y/277 (3-Phases + Neutral + Ground) 600 Delta (3-Phases + Ground) (no Neutral) 600Y/347 (3-Phases + Neutral + Ground)	
Assembly Rating	42kAIC @ 240VAC, 480VAC, 600VAC,	
Terminals	Load terminals: (8) 300 - 800kcmil per phase & neutral Ground lug: (4) #2 - 600kcmil Other options available	
Enclosure Material	Standard: Double coated, cold-rolled steel Optional: 304SS , 316SS	
Environmental Rating	Standard: 3R Optional: 3RX for stainless steel	
Enclosure Color Options (additional cost may be required)	Standard: RAL-7035 - Wrinkle Light Gray Optional: RAL-1015 - Wrinkle Light Ivory RAL-1023 - Wrinkle Traffic Yellow RAL-2004 - Wrinkle Pure Orange RAL-3020 - Wrinkle Traffic Red RAL-5002 - Wrinkle Ultramarine Blue	RAL-6024 - Wrinkle Traffic Green RAL-7004 - Wrinkle Signal Gray RAL-7038 - Wrinkle Agate Gray RAL-8017 - Wrinkle Chocolate Brown RAL-9003 - Wrinkle Signal White RAL-9005 - Wrinkle Jet Black
Standard Accessories	Phase Rotation monitor Remote Start 3 Point TB	
Optional Accessories	Pilot Light - Primary Source (Red) Pilot Light - Primary Source (Green) Pilot Light - Alternate Source (Red) Pilot Light - Alternate Source (Green) Infrared Window Kirk Key	Surge Protection Device (SPD) Heater/Thermostat/De-Humidistat Receptacle - 20A, 120V Duplex Receptacle - 20A, 120V GFCI Duplex Receptacle - 20A, 120V Twist Lock Receptacle - 30A, 120V Twist Lock Receptacle - 20A, 120V Straight Blade
Approximate Product Weight:	650 lbs.	
Approximate Shipping Weight:	730 lbs.	

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Agenda Item

4

PC 2 Committee Meeting

Meeting Date: February 26, 2024

TO: PC 2 Board Members

FROM: Jim Burror, Acting General Manager/Director of Operations

STAFF CONTACT: Roni Grant, Associate Engineer

SUBJECT: J. B. Latham Treatment Plant (JBL) Effluent Pump Station and Energy Building Design Contract [Project Committee 2]

Overview

SOCWA staff removed the Effluent Pump Station and Energy Building Improvements from the Package B Improvements scope of work. The energy building work was primarily removed due to contractor difficulties complying with the construction requirement to maintain the operability of the foul air system during construction. The outfall work was primarily removed due to ongoing Package B daytime and nighttime noise issues for the recently constructed residents adjacent to the work area.

The proposed Scope of Services includes revising and re-packing the drawings and specifications into two (2) bid packages. SOCWA procured the effluent valves for the Effluent Pump Station improvements and the Energy Building stiffeners as part of Package B. There will be additional efforts associated with the Energy Building Improvements, which include:

- Jib-crane addition at the upper level of the Energy Building
- Seismic retrofit of the roof framing and wall anchorage connections
- Safety upgrades include guardrails, skylights, and other items.

Carollo proposed a total fee of \$175,516. Staff broke down the costs of \$66,710 for the Energy Building Roof improvements, \$44,471 for the hoist system, and \$64,335 for the Effluent Pump Station improvements.

Cost Analysis

The Effluent Pump Station Improvements will be funded by 32226L-000 and have a budget of \$200,000 for the 23/24 fiscal year. Table 1 shows the allocation of costs by member agency.

Table 1 – Cost Allocation by Member Agency (32226L-000)

Agency	Cost
Moulton Niguel Water District	\$14,849
Santa Margarita Water District	\$30,932
South Coast Water District	\$18,554
Total	\$64,335

The Energy Building Roof improvements will be funded by 32225S-000 (solids) and have an available fund previously collected of \$75,000. Table 2 shows the allocation of costs by member agency.

Table 2 – Cost Allocation by Member Agency (32225S-000)

Agency	Cost
Moulton Niguel Water District	\$14,423
Santa Margarita Water District	\$38,945
South Coast Water District	\$13,342
Total	\$66,710

The hoist system will be funded by 3216-000 (common) and has a previously collected fund of \$49,999. Table 3 shows the allocation of costs by member agency.

Table 3 – Cost Allocation by Member Agency (3216-000)

Agency	Cost
Moulton Niguel Water District	\$9,939
Santa Margarita Water District	\$23,671
South Coast Water District	\$10,861
Total	\$44,471

Table 4 shows the total for all three (3) project elements by member agency.

Agency	Cost
Moulton Niguel Water District	\$39,211
Santa Margarita Water District	\$93,548
South Coast Water District	\$42,757
Total	\$175,516

Prior Related Project Committee or Board Action (s)

This item was reviewed and discussed at the January 11, 2024 Board Meeting.

Recommended Action: Staff recommends that the PC 2 Board of Directors approve the contract to Carollo Engineers for a total of \$175,516 for the JBL Effluent Pump Station and Energy Building improvements.



December 6, 2023

Roni Young
South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629

Subject: J.B. Latham Treatment Plant (JBLTP) Facility Effluent Pump Station & Energy Recovery Building Re-package

Dear Ms. Young:

Pursuant to your request, Carollo Engineers, Inc. (Carollo) has prepared this letter proposal for the South Orange County Wastewater Authority (SOCWA) to provide engineering services associated with re-packaging of the Effluent Pump Station and Energy Recovery Building improvements that were removed from the Package B Improvements at the J.B. Latham Treatment Plant. The scope of services related to a re-package effort are outlined below.

Scope of Services

The proposed Scope of Services includes the revision and re-package of drawings and specifications. References to work in other areas from the previous Package B Improvements Project will be removed from the drawings and specifications, and only reflect the work to the Effluent Pump Station and the Energy Recovery Building. These documents will be re-packaged for SOCWA approval and become a new bid package for the work. Work at the Energy Recovery Building will include the following new work:

- Jib-crane addition at the 2nd floor of the Energy Recovery Building.
- Seismic retrofit of the roof framing and wall anchorage connections at the Energy Recovery Building.
- Safety Upgrades at Energy Recover Building roof including guardrail, skylights, and other items identified as part of Package B project.

Carollo will evaluate a proposed location for the jib-crane and develop strengthening details as required at the Energy Recovery Building 2nd floor and supporting elements to accommodate the installation. The 2019 California Building Code will be used as the basis for design of the structural support and strengthening. The crane hoist will be electric however the boom rotation will be manual. It is assumed the crane will not have any monitoring or alarm status to SCADA.

Carollo shall perform an update to the seismic retrofit design so that it complies with the 2019 California Building Code. Significant changes are not anticipated, but some adjustments may be necessary. An alternative attachment detail will be needed where the foul air ducting interferes with access to the roof/wall interface.

Carollo will update/adapt the Energy Recovery Building safety improvement details that were prepared for the Package B project. Significant changes are not anticipated but some adjustments may be necessary to address differing existing conditions identified during the Package B project.

Page 2

Carollo will prepare general and discipline drawings to support the design elements listed above. Carollo will prepare applicable administrative and technical specifications to support the design elements listed above. Carollo will develop a cost estimate at the draft submittal. The estimate will be updated at the final submittal milestone.

Carollo will also review the Contractor's "As-Built" drawings from the Package B Improvements Project construction for any design clarifications that may have occurred in the Effluent Pump Station area. These potential changes will be review with SOCWA to confirm the approach to the design documents.

Deliverables

Plans/Specifications packages in electronic format (PDF file of Plans and Microsoft® Word file of Specifications, with 11-inch by 17-inch pages and 8.5-inch by 11-inch pages, respectively) at the Draft and Final Submittal design stages.

Schedule

Assuming approval of this amendment by January 1, 2024, the schedule for the overall project will be revised as follows:

- Draft Submittal to SOCWA: 4/1/2024
- SOCWA Draft Review Time: 4/1/2024 – 4/16/2024
- Final Submittal to SOCWA: 6/1/2024

Roni Young
South Orange County Wastewater Authority
December 6, 2023

Page 3

Budget

A table with the estimated level of effort and fee is appended as Exhibit B. The exhibit also includes a list of drawings that are anticipated to be required as new or modified sheets.

Please let us know if you have any questions.

Sincerely,
CAROLLO ENGINEERS, INC.

Jeff Weishaar, P.E.
Vice President

JW:bg

Enclosures: Fee Table

cc:

South Orange County Wastewater Authority

JB Latham WWTP
Effluent Pump Station Energy Recovery Building Design

Exhibit A - Proposed Fee

TASK	Project Manage	Project Engineer	Structural	Electrical	CAD	Admin	Total Hours	Total Labor	Other Direct Costs	Task Total
Energy Recovery Building										
Project Management & Meetings	8	16	8	6			38	\$ 8,140	\$ 532	\$ 8,672
Site Visit	4	4	8	8			24	\$ 5,020	\$ 1,086	\$ 6,106
Energy Recovery Building										
Draft Bid Documents	16	48	56	34	110	8	272	\$ 51,430	\$ 4,308	\$ 55,738
Final Bid Documents	12	28	20	20	54	6	140	\$ 26,840	\$ 2,460	\$ 29,300
Effluent Pump Station										
Draft Bid Documents	8	24	24	22	70	8	156	\$ 29,070	\$ 2,684	\$ 31,754
Final Bid Documents	4	20	16	16	42	6	104	\$ 19,260	\$ 1,956	\$ 21,216
Prebid Meeting	4	4	4				12	\$ 2,740	\$ 168	\$ 2,908
Addendum (1 Total)	4	36	24	8	20	6	98	\$ 18,450	\$ 1,372	\$ 19,822
HOURS TOTAL	60	180	160	114	296	34	844	\$ 160,950	\$ 14,566	\$ 175,516
RATE	\$305	\$190	\$190	\$190	\$175	\$135				
COST TOTAL	\$ 18,300	\$ 34,200	\$ 30,400	\$ 21,660	\$ 51,800	\$ 4,590		\$ 160,950	\$14,566	\$ 175,516