A Special Meeting of the

BOARD OF DIRECTORS
OF THE
CENTRAL COAST WATER AUTHORITY

will be held at 2:00 p.m., on Monday, November 18, 2019
at 255 Industrial Way, Buellton, California
and telephonically at
additional locations:

Carpinteria Valley Water District
1301 Santa Ynez Avenue
Carpinteria, CA 93013

Goleta Water District
4699 Hollister Avenue
Goleta, CA 93110

City of Guadalupe
918 Obispo Street
Guadalupe, CA 93434

Montecito Water District
583 San Ysidro Road
Montecito, CA 93108

Santa Barbara City Hall
735 Anacapa Street
Mayor and Council Conference Room
Santa Barbara, 93101

Pg. #

I. Call to Order and Roll Call

II. Public Comment – (Any member of the public may address the Board relating to any matter within the Board's jurisdiction. Individual Speakers may be limited to five minutes; all speakers to a total of fifteen minutes.)

III. Executive Director's Report

A. Contract Assignment Update

B. Delta Conveyance Project Contract Amendment Negotiations Update

✷ C. Procurement of Santa Ynez Pumping Plant Electrical Switchboard Replacement Project 1

IV. Reports from Board Members for Information Only

V. Items for Next Regular Meeting Agenda

VI. Date of Next Regular Meeting: January 23, 2020

VII. Adjournment

255 Industrial Way
Buellton, CA 93427
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✷ Indicates attachment of document to original agenda packet.

CENTRAL COAST WATER AUTHORITY

MEMORANDUM

November 12, 2019

TO: CCWA Board of Directors

FROM: John Brady, Deputy Director

SUBJECT: Procurement of Santa Ynez Pumping Plant Electrical Switchboard Replacement Project

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BACKGROUND

The Santa Ynez Pumping Plant (SYPP) is provided electrical service from Pacific Gas & Electric at voltages of 480 Volts. To protect the various electrical systems within the SYPP from excessively high current caused by a short circuiting failure, a switchgear system is in place. Switchgear will typically receive power directly from the electrical utility and will subsequently transmit the power to electrical equipment within the facility receiving service and are designed to cut off all power to the facility receiving electrical service in the event of a short circuiting event of a defined magnitude and duration.

A switchgear system involves the use of a “breaker” and a “relay”. A breaker is designed to stop the path of current flow through a physical process of disconnection of the wiring. This will result in the loss of power to the facility receiving the electrical power from the utility. A relay is a device that monitors current and time. If a relay detects a high current for a certain amount of time, it will trigger the “breaker” to activate and all current flow will cease. Typically, the level and duration of high current can be selected within the relay device to create a set point that will result in activating the breaker.

Due to the importance of protecting the electrical systems within the SYPP, CCWA retained the services to HDR Engineering to conduct an electrical evaluation of the electrical switchgear at the Santa Ynez Pumping Plant (SYPP). The evaluation was documented in a Technical Memorandum, which identified some critical issues that required attention. A design was prepared to address these issues, specifically to address the soft starter for the pump motors, replacement of the distribution switchboard and installation of a remote switchgear operation system to enhance operator arc-flash safety.

DISCUSSION

In September 2019, CCWA staff prepared a Request for Bids (RFB) using the design prepared by HDR Engineering for the SYPP Switchboard Replacement Project. This RFB was utilized to solicit competitive Bids. Upon Bid Opening, CCWA staff found that the Bids were much higher than the available budget for the project. Consequently, CCWA staff recommended to the Board to reject all Bids. Staff also committed to working with HDR Engineering to make design changes that would reduce costs without comprising functionality. Staff also committed to more proactively advertising the revised RFB to a wider group of equipment manufacturers and contractors.

CCWA Staff worked with HDR Engineering and modified the design and prepared a revised RFB. This RFB was (1) emailed to an established CCWA bidder's list, (2) posted to the Santa Barbara and San Luis Obispo County Contractors Associations websites, (3) emailed to known switchboard equipment manufacturers, (4) posted on the CCWA website and (5) advertised through posting notification in the legal section of the Santa Maria Times on October 25 and November 1, 2019. An optional pre-bid job site meeting was conducted on Tuesday October 29, 2019. In addition, there was one Addendum issued to provide clarification on acceptable contractors licensing.

Sealed bids were scheduled to be received and publically opened on Tuesday November 5, 2019. The following Bids were received:

Central Coast Water Authority
2019 Santa Ynez Pumping Plant Switchboard Replacement Project

Item	Description	Taft Electric			Santa Maria Electric			Smith Electric		
		QTY	$/Unit	Total	QTY	$/Unit	Total	QTY	$/Unit	Total
1	Service Metering Switchboard	1	$120,919.60	$120,919.60	1	$79,834.00	$79,834.00	1	$117,769.00	$117,769.00
2	300 Hp VFD	1	$54,413.82	$54,413.82	1	$63,120.00	$63,120.00	1	$44,774.00	$44,774.00
3	300 Hp RVSS	4	$24,183.75	$96,735.00	4	$37,650.00	$150,600.00	4	$30,456.75	$121,827.00
4	Panelboard	2	$9,068.97	$18,137.94	2	$6,192.00	$12,384.00	2	$14,682.50	$29,365.00
5	Transformer	1	$12,091.96	$12,091.96	1	$13,695.00	$13,695.00	1	$8,531.00	$8,531.00
				$302,298.32			$319,633.00			$322,266.00

CCWA staff reviewed the Bids and found that the lowest responsive and responsible bid was from Taft Electric, with a Bid of $302,298.32. Staff did note one irregularity in Taft Electric's Bid. Bid item #3, the unit price was shown as $24,183.75 for a total of 4 units. This translates to a total of $96,735.00. However, the Taft Electric Bid showed a total of $96,735.68, which is a difference of $0.68. The Bid Instructions states that when there is a discrepancy, the final price will be the unit cost multiplied by the required number of units. This difference is considered insignificant.

FINANCIAL

The lowest responsive bidder in the initial advertising of this project in September 2019 was $377,314. Due to receiving only two bids, the elevated bid price, and one of the bids being non-responsive to the Bid Document requirements, CCWA staff recommended to the Board to reject all bids, which the Board approved. While moving forward with re-bidding the project was effective in lowering the project pricing, a budget deficit of $84,048.32 remains, as the current project budget is $236,250.

This upgrade to the Santa Ynez Pumping Plant addresses a critical issue that was identified in the Plant's electrical evaluation by HDR Engineering. Consequently, staff recommends moving forward with the project. To address the budget deficit, staff has identified sources of funding that could be transferred to this project. The additional sources of funding are as follows:

- Riser Repair to Air Vacuum/Air Release Valves – Phase 1 (C-19RISERP). This project has a budget of $131,250. Phase 1 was redefined to accommodate the design ($52,000) and a pilot repair at one location ($16,000). Through this approach, approximately $60,000 of funding can be made available for transfer to the SYPP Switchboard replacement Project.

- Electrical Upgrades at the WTP (C-19WTPUPG). This project has a budget of $68,040. Due to completing some of the work under budget and the postponement of purchasing one piece of equipment until next fiscal year, approximately $20,000 of funding can be made available for transfer to the SYPP Switchboard replacement Project.

- Tank 2 Electrical Vault Rewiring (C-19T2WIRE). This project has a budget of $68,250. Through phasing this project into two phases, approximately $10,000 of funding can be made available for transfer to the SYPP Switchboard replacement Project.

The sum of these three budget transfers will increase the SYPP Switchboard replacement Project by $90,000 to a total budget of $326,250. This budget level will allow for contingency funding for unanticipated change orders. Also, the re-phasing of the three of the three projects utilized as a source of funding will not impact the CCWA's operations. The new phases will be presented as Phase 2 Projects in the FY 2020/2021 Budget, which the Board will consider in April 2020.

RECOMMENDATION

That the Board:

- Authorize the Executive Director to award the contract for the Santa Ynez Pumping Plant Switchboard Replacement Project to Taft Electric following the procedures outlined in the project contract documents in the amount of $302,298.32.

- Authorize the Executive Director to transfer funds from Project C-19RISERP (Riser Repair to Air/Vacuum release Valves) to Project C-19SYPPEU (Santa Ynez Pumping Plant Switchboard Replacement) in the amount of $60,000.

- Authorize the Executive Director to transfer funds from Project C-19WTPUPG (Electrical Upgrades at the WTP) to Project C-19SYPPEU (Santa Ynez Pumping Plant Switchboard Replacement) in the amount of $20,000.

- Authorize the Executive Director to transfer funds from Project C-19T2WIRE (Tank 2 Electrical Vault Re-wire) to Project C-19SYPPEU (Santa Ynez Pumping Plant Switchboard Replacement) in the amount of $10,000.

JLB