

**RESOLUTION NO. 2020-62**  
**RESOLUTION NO. PFA-03**  
**ORDINANCE NO. 2020-01**

## **AGENDA**

### **MISSION STATEMENT**

**"Our team is dedicated to protecting, enhancing, and developing our rich water resources to the highest beneficial use for Calaveras County, while maintaining cost-conscious, reliable service, and our quality of life, through responsible management."**

Regular Board Meeting  
Wednesday, September 9, 2020  
1:00 p.m.

Calaveras County Water District  
120 Toma Court, (PO Box 846)  
San Andreas, California 95249

**Based on guidance from the California Governor's Office, social distancing measures are imposed, Board chamber's capacity will be limited to 8 persons during public meetings. Social distancing and cloth facemasks are required.**

**The following alternatives are available to members of the public to watch these meetings and provide comments to the Board before and during the meeting:**

[Join meeting](#)

1-408-418-9388

Meeting number (access code): 126 360 7684

Meeting password: CCWDSept92020 (22937378 from phones and video systems)

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Administration Office at 209-754-3028. Notification in advance of the meeting will enable CCWD to make reasonable arrangements to ensure accessibility to this meeting. Any documents that are made available to the Board before or at the meeting, not privileged or otherwise protected from disclosure, and related to agenda items, will be made available at CCWD for review by the public.

## **ORDER OF BUSINESS**

### **CALL TO ORDER / PLEDGE OF ALLEGIANCE**

#### **1. ROLL CALL**

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#### **BOARD OF DIRECTORS**

Bertha Underhill, President                      Jeff Davidson, Vice President  
Scott Ratterman, Director                      Cindy Secada, Director                      Russ Thomas, Director

**2. PUBLIC COMMENT**

**At this time, members of the public may address the Board on any non-agendized item. The public is encouraged to work through staff to place items on the agenda for Board consideration. No action can be taken on matters not listed on the agenda. Comments are limited to three minutes per person.**

**3. CONSENT AGENDA**

**The following items are expected to be routine/non-controversial. Items will be acted upon by the Board at one time without discussion. Any Board member may request that any item be removed for later discussion.**

3a Approval of Minutes for the Board Meeting of August 12, 2020

3b Review Board of Directors Monthly Time Sheets for August, 2020

3c Approval of Purchase of a 550 kw Standby Generator for the Ebbett's Pass Service Area (Damon Wyckoff, Director of Operations)

3d Approval of Declaration of Surplus Equipment (Damon Wyckoff, Director of Operations)

**RES 2020-\_\_\_\_\_**

**4. NEW BUSINESS**

4a Discussion and Update for the Districtwide Enterprise Resource Planning Project (Rebecca Callen, Director of Administrative Services)

4b Update Regarding the Municode District Project (Rebecca Callen, Director of Administrative Services)

4c Discussion/Action regarding Selection of Consultant to Develop 2020 Urban Water Management Plan Update (Brad Arnold, Manager of Water Resources)

**RES 2020-\_\_\_\_\_**

4d Discussion/Action regarding Acceptance of the Jenny Lind (Kirby, Gabor, and Garner) Service Lateral Replacement Project, CIP No. 11066G (Bob Godwin, Senior Civil Engineer)

**RES 2020-\_\_\_\_\_**

**5. OLD BUSINESS**

None

**6. REPORTS**

6a Report on the August 2020 Operations Department (Damon Wyckoff, Director of Operations)

6b\* General Manager Report

**7.\* BOARD REPORTS / INFORMATION / FUTURE AGENDA ITEMS**

**8. NEXT BOARD MEETINGS**

- Wednesday, September 23, 2020, 1:00 p.m., Regular Board Meeting
- Wednesday, October 14, 2020, **9:00 a.m., Regular Board Meeting (Please note new time)**

**9. CLOSED SESSION**

9a Conference with Legal Counsel – Potential Litigation Government Code  
§54956.9(b)(1) – 2 cases

**10. REPORTABLE ACTION FROM CLOSED SESSION**

**11. ADJOURNMENT**



# CALAVERAS COUNTY WATER DISTRICT

## Board of Directors

District 1      Scott Ratterman  
District 2      Cindy Secada  
District 3      Bertha Underhill  
District 4      Russ Thomas  
District 5      Jeff Davidson

## Financial Services

Umpqua Bank  
US Bank  
Wells Fargo Bank

## CCWD Committees

\*Engineering Committee  
\*Finance Committee  
\*Legal Affairs Committee  
Strategic Planning Consultant  
Selection Committee (Ad Hoc)

## Joint Power Authorities

ACWA / JPIA  
CCWD Public Financing Authority  
Calaveras-Amador Mokelumne River Authority (CAMRA)  
Calaveras Public Power Agency (CPPA)  
Eastern San Joaquin Groundwater Authority  
Tuolumne-Stanislaus Integrated Regional Water  
Management Joint Powers Authority (T-Stan JPA)  
Upper Mokelumne River Watershed Authority (UMRWA)

## Other Regional Organizations of Note

Calaveras LAFCO  
Calaveras County Parks and Recreation  
Committee  
Highway 4 Corridor Working Group  
Mountain Counties Water Resources  
Association (MCWRA)  
Mokelumne River Association (MRA)  
Tuolumne-Stanislaus Integrated Regional Water  
Mgt. JPA Watershed Advisory Committee (WAC)  
Eastern San Joaquin Groundwater Authority-Technical  
Advisory Committee

## Legal Counsel

Matthew Weber, Esq.  
Downey Brand, LLP

## Auditor

Richardson & Company, LLP

## Membership\*\*

Davidson / Thomas (alt. Secada)  
Underhill / Secada (alt. Thomas)  
Ratterman / Davidson (alt. Thomas)

Ratterman / Secada

Ratterman (alt. Michael Minkler)  
All Board Members  
Ratterman / Underhill (alt. Secada)  
Michael Minkler (Alt. Brad Arnold)  
Thomas  
Secada (alt. Thomas)  
Davidson (alt. Ratterman)

Ratterman / Thomas  
Thomas (alt. Ratterman)

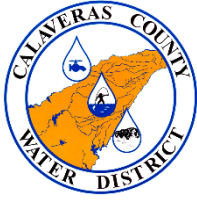
Thomas / Underhill  
All Board Members

All Board Members  
Brad Arnold

Brad Arnold

\* Standing committees, meetings of which require agendas & public notice 72 hours in advance of meeting.

\*\* The 1<sup>st</sup> name listed is the committee chairperson.



**RESOLUTION NO. 2020-59**  
**RESOLUTION NO. PFA-03**  
**ORDINANCE NO. 2020-01**

**Directors Present:** Bertha Underhill, President  
Jeff Davidson, Vice President  
Scott Ratterman, Director (via teleconference)  
Cindy Secada, Director (via teleconference)  
Russ Thomas, Director

**Staff Present:** Michael Minkler, General Manager  
Matt Weber, General Counsel  
Rebecca Hitchcock, Clerk to the Board  
Rebecca Callen, Director of Administrative Services  
Damon Wyckoff, Director of Operations  
Pat Burkhardt, Construction and Maintenance Manager  
Brad Arnold, Manager of Water Resources  
Tiffany Burke, Administrative Technician-Senior  
Mike Samorano, Mechanic II

**Others Present:** Dave Hicks, Blue Lake Springs Mutual Water Company

**ORDER OF BUSINESS**

**CALL TO ORDER / PLEDGE OF ALLEGIANCE**

**1. ROLL CALL**

President Underhill called the Regular Board Meeting to order at 1:00 p.m. and led the pledge of allegiance.

**2. PUBLIC COMMENT**

There was no public comment.

**3. CONSENT AGENDA**

**MOTION: Directors Thomas/Ratterman-Approved Consent Agenda Items:  
3a, 3b, 3c, 3d, 3e, 3f, and 3g, as presented**

3a Approval of Minutes for the Board Meeting of July 22, 2020

3b Review Board of Directors Monthly Time Sheets for July, 2020

- 3c Ratify Claim Summary #581 Secretarial Fund in the Amount of \$2,440,069.90 for July, 2020  
(Rebecca Callen, Director of Administrative Services) **RES 2020-59**
- 3d Adopt Position on State Legislation  
(Brad Arnold, Manager of Water Resources)
- 3e Consideration of Amendment to Policy 5070, Conflict of Interest Code  
(Rebecca Hitchcock, Clerk to the Board) **RES 2020-60**
- 3f Report on the Monthly Investment Transactions for July 2020  
(Rebecca Callen, Director of Administrative Services)
- 3g Consideration of Agreement for Legal Services with Downey Brand  
(Michael Minkler, General Manager) **RES 2020-61**

**AYES: Directors Thomas, Ratterman, Secada, Davidson, and Underhill**  
**NOES: None**  
**ABSTAIN: None**  
**ABSENT: None**

**4. NEW BUSINESS**

- 4a Recognition of Kelly Gerkenmeyer and Mike Samorano for their receipt of ACWA/JPIA's H.R. LaBounty Safety Award  
(Damon Wyckoff, Director of Operations)

**DISCUSSION:** Mr. Wyckoff presented Mr. Samorano with the ACWA JPIA H.R. LaBounty Safety Award and a \$50.00 check. He explained that Mr. Samorano and Mr. Gerkenmeyer won the award for a safety solution of installing a back up camera on the VacCon truck to prevent accidents. The award is designed to promote safe work practices and reward staff that demonstrate that Mr. Gerkenmeyer was not present to accept the award.

**PUBLIC COMMENT:** There was no public comment.

This item was for information only; no action was taken.

- 4b Development of Calaveras County Public Water Resources Data Packets  
(Brad Arnold, Manager of Water Resources)

**DISCUSSION:** Mr. Arnold presented the new Calaveras County Public Water Resources Data Packet that he created. It includes county data for accumulated precipitation, reservoir and lake water levels, stream flows, and state-wide drought conditions. All information originates from publicly available web sources that are gathered daily using the automated tool. The Public Data Packet will be available for download from the CCWD website. There was significant discussion between Mr. Arnold and the Board about the Data Packet.

**PUBLIC COMMENT:** There was no public comment.

This item was for information only; no action was taken.

- 4c Discussion/Action regarding Implementation of CCWD's Wholesale Water Agreement with Blue Lake Springs Mutual Water Company (Michael Minkler, General Manager)

**MOTION:** Directors Thomas/Secada—by Minute Entry Approved Waiving the 100,000 gpd through September 30, 2020 and revisit prior to May 1, 2021.

**DISCUSSION:** Mr. Arnold reviewed the 2015 agreement between CCWD and the Blue Lake Springs Mutual Water Company (BLSMWC). The agreement has a 100,000 gallons per day (gpd) cap through September 30 each year. He explained the increased demands on the system are due to a large influx of residents for summer tourism and COVID-19 restrictions. He advised that BLSMWC reached out to CCWD regarding the increased demand. If the level of demand continues, BLSMWC could require a permanent capacity increase. Staff proposes waiving the 100,000 gpd cap through September 30 and revisit the consumption prior to May 1, 2021. If the increased demand is sustained, then CCWD could require additional capacity fee payments pursuant to the Agreement.

**PUBLIC COMMENT:** Dave Hicks from the Blue Lake Springs Mutual Water Company responded to a few questions from the Board.

5. **OLD BUSINESS**

None

6. **REPORTS**

- 6a Report on the July 2020 Operations Department (Damon Wyckoff, Director of Operations)

**DISCUSSION:** Mr. Wyckoff started off by introducing Pat Burkhardt, the new Construction and Maintenance Manager. Then he presented the July 2020 monthly Operations report. He reviewed items of interest and answered questions from the Board.

**PUBLIC COMMENT:** There was no public comment.

This item was for information only; no action was taken.

- 6b General Manager Report

**DISCUSSION:** Mr. Minkler reported on the following activities: 1) the Ebbetts Pass line break last week. It was a monumental effort for all staff involved; 2) the Techite project is moving along well; 3) staff is trying to find ways to schedule town hall meetings in the different Districts to continue communication with rate payers and still comply with the COVID-19 restrictions; 4) the office is open by appointment only due to COVID-19 and it seems to be working well; 5) the County has had multiple blood drives recently and is reaching out to the larger employers in the area about having a blood drive at their location and CCWD could possibly host one soon; 6) the draft Joint Powers Agreement went out to the Groundwater Sustainability members and should receive feedback soon; 7) CCWD worked with Upper Mokelumne River Water Authority (UMRWA) on a press release announcing the 20<sup>th</sup> anniversary of the group; and 8) the person who received the offer for the External Affairs Manager position has declined the position.

7. **BOARD REPORTS / INFORMATION / FUTURE AGENDA ITEMS**

Director Ratterman is happy to announce he is unopposed for his re-election bid in November.

Director Davidson reported that he filed for re-election in November.

Director Secada reported she is attending the Tuolumne-Stanislaus Integrated Regional Water Management Joint Powers Authority meeting on Wednesday.

Director Thomas discussed the ACWA Groundwater Committee meeting regarding the impacts of the implementation of Sustainable Groundwater Management Act (SGMA) Legislation.

Director Underhill asked about the CCWD Scholarship awards.

**8. NEXT BOARD MEETINGS**

- Wednesday, August 26, 2020, 1:00 p.m., Regular Board Meeting
- Wednesday, September 9, 2020, 1:00 p.m., Regular Board Meeting

The meeting adjourned into Closed Session at approximately 2:30 p.m. Those present were Board Members: Russ Thomas, Bertha Underhill, Cindy Secada, Jeff Davidson, and Scott Ratterman; staff members Michael Minkler, General Manager, Damon Wyckoff, Director of Operations; and Matt Weber, General Counsel.

**9. CLOSED SESSION**

- 9a Conference with Legal Counsel – Potential Litigation Government Code §54956.9(b)(1) – 3 cases

**10. REPORTABLE ACTION FROM CLOSED SESSION**

The Board reconvened into Open Session at approximately 3:20 p.m. There was no reportable action.

**11. ADJOURNMENT**

With no further business, the meeting adjourned at 3:20 p.m.

Respectfully Submitted:

ATTEST:

\_\_\_\_\_  
Michael Minkler  
General Manager

\_\_\_\_\_  
Rebecca Hitchcock  
Clerk to the Board



# Agenda Item

DATE: September 9, 2020  
TO: Michael Minkler, General Manager  
FROM: Rebecca Hitchcock, Clerk to the Board  
SUBJECT: Review Board of Directors Time Sheets for August, 2020

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## **RECOMMENDED ACTION:**

For information only.

## **SUMMARY:**

Pursuant to direction from the Board of Directors, copies of the Board's monthly time sheets from which the Board is compensated from, are included in the monthly agenda package for information. Attached are copies of the Board's time sheets for the month of August, 2020.

Board Members can be reimbursed for mileage cost to travel to meetings/conferences and are paid at the current IRS rate.

## **FINANCIAL CONSIDERATIONS:**

Monthly compensation and mileage reimbursement costs are included in the FY 2019-20 budget.

*Attachments: Board of Directors Time Sheets for August, 2020*



**CALAVERAS COUNTY WATER DISTRICT**  
**2020 DIRECTOR REIMBURSEMENT FORM**

For Admin Use	Payroll Expense	<input checked="" type="radio"/>
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Month/Yr Aug-20  
 Name Cindy Secada

Activity Date	Meeting or Other Expense Description	Designated Rep.		Association List		Prior Approval		Cost		Total Miles
		Yes	No	Yes	No	Yes	No	Meeting	Expense	
12-Aug	Regular Board Meeting - Video							\$120.00		
18-Aug	Finance Meeting - Video	X						\$120.00		
19-Aug	IRWM JPA Meeting - Video	X						\$120.00		
<b>Total</b>	<i>For Totals line, multiply miles by the IRS rate:</i>	1/1/2020	\$0.575						0	0
<i>Pursuant to Board Policy 4030, receipts required; report /materials required.</i>				<b>Totals</b> (use IRS mileage rate)				\$360.00	\$0.00	\$0.00

The undersigned, under penalty of perjury states: This claim and the items set forth herein are true and correct; that expenses incurred, meetings attended and business conducted are necessary to District affairs; that this claim is proper and within the scope of California Water Code Section 20200 et seq, and District Ordinance 2015-02; that the service was actually rendered; and that the amount(s) herein are justly true.

**Signature of Claimant:**  


Administrative Review: 

Date: 8/25/2020 Orig to Finance Dept.

**CALAVERAS COUNTY WATER DISTRICT**  
**2020 DIRECTOR REIMBURSEMENT FORM**

For Admin Use	Payroll Expense	<input checked="" type="radio"/>
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Month/Yr Aug-20  
 Name Bertha Underhill

Activity Date	Meeting or Other Expense Description	Designated Rep.		Association List		Prior Approval		Cost		Total Miles
		Yes	No	Yes	No	Yes	No	Meeting	Expense	
31-Jul	Blue Lake Springs Mtg							\$120.00		6
12-Aug	CCWD Regular Board Meeting							\$120.00		64
17-Aug	White Pines Park Committee									6
18-Aug	Finance Committee Mtg-Teleconference							\$120.00		
<b>Total</b>	<i>For Totals line, multiply miles by the IRS rate: 1/1/2020 \$0.575</i>								0	76

*Pursuant to Board Policy 4030, receipts required; report /materials required.* **Totals** (use IRS mileage rate) \$360.00 \$0.00 \$43.70

The undersigned, under penalty of perjury states: This claim and the items set forth herein are true and correct; that expenses incurred, meetings attended and business conducted are necessary to District affairs; that this claim is proper and within the scope of California Water Code Section 20200 et seq, and District Ordinance 2015-02; that the service was actually rendered; and that the amount(s) herein are justly true.

**Signature of Claimant:**  
 Bertha Underhill

Administrative Review: *M. M...* Date: 8/25/2020 Orig to Finance Dept.



**CALAVERAS COUNTY WATER DISTRICT**  
**2020 DIRECTOR REIMBURSEMENT FORM**

For Admin Use	Payroll Expense	<input checked="" type="radio"/>
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Month/Yr Aug-20  
 Name Jeff Davidson

Activity Date	Meeting or Other Expense Description	Designated Rep.		Association List		Prior Approval		Cost		Total Miles
		Yes	No	Yes	No	Yes	No	Meeting	Expense	
12-Aug	CCWD Regular Board Meeting							\$120.00		28
4-Aug	CCWD Legal Affairs Committee Meeting							\$120.00		28
<b>Total</b>	<i>For Totals line, multiply miles by the IRS rate:</i>	1/1/2020	\$0.575						0	56
<i>Pursuant to Board Policy 4030, receipts required; report /materials required.</i>				<b>Totals</b> (use IRS mileage rate)				\$240.00		\$32.20

The undersigned, under penalty of perjury states: This claim and the items set forth herein are true and correct; that expenses incurred, meetings attended and business conducted are necessary to District affairs; that this claim is proper and within the scope of California Water Code Section 20200 et seq, and District Ordinance 2015-02; that the service was actually rendered; and that the amount(s) herein are justly true.

**Signature of Claimant:**  


Administrative Review: 

Date: 8/25/2020 Orig to Finance Dept.

# Agenda Item

DATE: September 9, 2020

TO: Michael Minkler, General Manager

FROM: Damon Wyckoff, Director of Operations

SUBJECT: Approval of Purchase of a 550 kw Standby Generator to be deployed within the Ebbett's Pass Service Area

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## **RECOMMENDED ACTION:**

Motion: \_\_\_\_\_ / \_\_\_\_\_ by Minute Entry to approve the purchase of a 550 kilowatt Stationary Standby Generator to be deployed within the Ebbett's Pass Service Area

## **SUMMARY:**

Standby Generator operations, maintenance, repair, and replacement is critical to ensuring the effective and responsible operation of District facilities during power outages. This fact is made all the more important in light of the recent implementation of PG&E's Public Safety Power Shut-off Program (PSPS Program).

CCWD Field Operations Staff identified generator replacement as one of the key needs for the District's 2020/21 Capital Outlay Budget. In doing so, CCWD allocated \$180K to replace aged generators and equipment.

The District's Purchasing Agent worked to obtain quotes to purchase generators based on a priority list developed by District Field Staff and Field Managers. The priority list assessed generators based on their ability to improve standby power operations, age, and availability. The generator identified as the highest priority for replacement provides standby power to the Hunter's Water Treatment Plant. The current generator is 30 years old and provides standby power to the District's largest potable water service area.

District Staff worked with an Electrical Engineering Consultant to identify the optimal need for the Water Treatment Plant. Quotes were obtained and a generator was selected for purchase. Of all the quotes obtained, the generator selected is the cheapest and most readily available. All generators requested for purchase from a vendor are currently made to order. Right now, it takes six months to receive a generator once an order is placed. The District's Purchasing Agent worked with a vendor to locate a brand-new generator in Calaveras County with immediate availability. Moreover, it has a 72-hour fuel tank that

is considered an upgrade and would be at considerable additional cost were the District to order it specifically. The generator was originally ordered for a farmer and due to unforeseen circumstances (it took too long for him to receive and a permanent alternative solution was found), it was no longer needed, and is the cheapest option.

In conclusion, District staff feel the purchase of an immediately available, 550kw Kohler Generator with upgraded 72-hour fuel tank is the most effective and responsible option to consider as the District works to continue to bolster the standby power reliability of CCWD infrastructure.

### **FINANCIAL CONSIDERATIONS:**

CCWD budgeted \$180K in Fiscal Year 2020/21's Capital Outlay Budget for the purchase of new Standby Generators and Equipment. The Cost for this generator including tax, 5-year comprehensive warranty, and delivery is \$126,121.25

*Attachments:*      *A) Purchase recommendation from CCWD Purchasing Agent*  
                          *B) 600 kw Loads and Banks from Holt*  
                          *C) Spec Sheet*





# CALAVERAS COUNTY WATER DISTRICT

120 Toma Court • Post Office Box 846 • San Andreas, CA 95249 • Main Line (209) 754-3543

## Recommendation for Purchase

**PROJECT NAME:** Generators

**DEPARTMENT:** 54

**CONTRACTOR:** Central California Generator

**DATE OF RECOMMENDATION:** 8/28/2020

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**QUOTES OR PROPOSALS RECEIVED:** CENTRAL CALIFORNIA GENERATOR 550KW: \$112,000; HOLT 600KW: \$111,657.00; CENTRAL CALIFORNIA GENERATOR 600KW: \$125,495.40; HOLLEY GENERATOR; NON-RESPONSIVE

**BACKGROUND INFORMATION & BASIS FOR AWARD:** The District currently has funds allocated towards the purchase of a new generator to help maintain its critical services during power outages. The District has recognized the need to upgrade critical assets that help maintain adequate fire protection, high levels of safe drinking water, and the collection of waste water for rate payers and surrounding communities. The implementation of PGE's Planned Power outages, rolling blackouts, and the danger of natural disasters has pushed the District to move quickly with adding a newer genset to its infrastructure.

The recommendation for award is to Central California Generator who came in with bid of \$112,000 on a stationary 500kw generator with an added 3,052-gallon diesel vault. The advantage of selecting this genset from Central California Generator was that they found a new generator that had already been built located in Calaveras County. With the current lead time on generator being 17-20 weeks, not counting delivery time, being able to purchase a brand new genset in county provides the relief of adding this critical asset to a facility in weeks over the alternative of waiting half of a year. Having the genset locally in the county would possibly put the 550kw as the lowest bid considering the amount of charges that can transpire from an out of state build and delays on delivery.

The addition of a 3,052-gallon fuel vault provides a treatment facility with extra days of run time, as well as a fuel storage station for other smaller satellite facilities and vehicles that need to be refueled during times of crisis. Our staff currently refuels generators during power outages and this generator gives staff much needed close-by storage with which to draw from and refuel generators.

Central California Generator has a long-standing relationship with Calaveras County Water District. It has provided quality products and service for years. The District has developed a level of commitment and trust with Central California Generator to continue to provide excellent service for years to come.

**FUNDING: Capital Outlay Project**

Prepared by: \_\_\_\_\_

Title: \_\_\_\_\_

Review: \_\_\_\_\_

**Date: August 18, 2020**

**Project: Calaveras County Water**

**Quote # ddh071520B – Sourcewell Pricing – Member's ID # 44749**

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**Holt of California, Inc is pleased to present the following quotation:**

**D600GC – C18 - 600kW Diesel Powered Generator Set **\$111,657.00****

EMERGENCY/STANDBY POWER APPLICATION  
EPA STATIONARY EMERGENCY  
UL2200 Listing - IBC SEISMIC CERT OF COMPLIANCE  
C18 D600GC - 60HZ 480 VOLT (WYE) - 600ekW, 60Hz, 1800rpm  
PERMANENT MAGNET (PM)  
ALT M3175L4 SE DW - 125C TEMP RISE OVER 40C AMB – SPACE HEATER  
PLATINUM PLUS 4-YEAR 2000HR STANDBY  
REMOTE NFPA ANNUNCIATOR  
INPUT EXPANSION MODULE - OUTPUT EXPANSION MODULE  
100A LOAD CENTER  
20A GFCI (CONTROLS SIDE)  
3 POLE CIRCUIT BREAKER  
1200A SINGLE MANUAL CB LS/I - BREAKER AUXILIARY CONTACTS  
REMOTE E-STOP BUTTON  
STANDARD ENCLOSURE ISOLATORS  
C18 SOUND ATTENUATED LEVEL 2 ENCLOSURE (WHITE) w/MUFFLER  
UL2200 LISTED ENCLOSURE  
C18 EXTENDED SUB-BASE FUEL TANK (24HR) UL142  
AUDIO & FUEL ALARM (90% LEVEL)  
FUEL LEVEL INDICATION  
5 GALLON FUEL FILL SPILL CONTAINMENT  
INTEGRATED VOLTAGE REGULATOR..  
BATTERY CHARGER 10 AMP DUAL  
JACKET WATER HTR (PUMP STYLE)  
PGS TEST REPORT @ 0.8 PF

**Start-Up & Test using available site load.  
Includes Training**

**Power Systems Division**

3850 Channel Drive  
West Sacramento, CA 95691-3443  
(916) 373-4197  
(888) 373-1359 Toll Free  
(916) 373-4146 Fax

1521 West Charter Way  
Stockton, CA 95206-1112  
(209) 466-6000  
(800) 347-4658 Toll Free  
(209) 467-4658 Fax

[www.holtca.com](http://www.holtca.com)

**Model: 5600 TRAILER READY LOAD BANKS:****56000750MAB1A30X,R20A3,R20C1 -****\$66,843.00****Load Bank Rating: 750 kW**

Load Step Resolution: 5 kW

Load Voltage: 240/480 VAC, 3 Phase

Frequency: 60Hz

Cooling System:

An integrally mounted blower motor with direct drive fan provides the necessary cooling air. Blower Power can be derived from either the source under test or from an external power source.

Operator Controls:

Manual Toggle Switch Control Panel. Load selection is provided by individual industrial lever-type toggle switches for on/off application of load segments, one provided for each load step.

Control Power: An integral Control Power Transformer is provided for control circuit operation.

Warranty: standard

**Packaged Weights and Dimensions:**

4830 lbs (2190.85 kg) / 215 in. X 88 in. X 90 in. (546.10 cm X 223.52 cm X 228.60 cm)

**R20A3 Included Option:****Load Bank will be mounted to a Heavy-Duty, Dual-Axle, DOT Road Legal Trailer Featuring;**

- 7,000 Pound Gross Vehicle Weight Capacity (Standard), complete with mating vehicle connectors
- Electric Brakes (Standard)
- 3" I.D. adjustable lunette eye hitch (Standard)
- 1 front tongue jack and 2 rear stabilizer jacks
- Safety chains and hooks

**R20C1 Included Option:**

MANUAL LOAD CABLE REEL, QTY 1 - : Reel is capable of storing approximately 1000 feet of # 4/0 AWG customer furnished load cable. Reel will be installed on the trailer.

**Power Systems Division**3850 Channel Drive  
West Sacramento, CA 95691-3443  
(916) 373-4197  
(888) 373-1359 Toll Free  
(916) 373-4146 Fax1521 West Charter Way  
Stockton, CA 95206-1112  
(209) 466-6000  
(800) 347-4658 Toll Free  
(209) 467-4658 Fax[www.holtca.com](http://www.holtca.com)

**56001000MAB1A30X,R20A3,R20C1 -****\$70,350.00****Load Bank Rating: 1000 kW**

Load Step Resolution: 5 kW

Load Voltage: 240/480 VAC, 3 Phase

Frequency: 60Hz

Cooling System:

An integrally mounted blower motor with direct drive fan provides the necessary cooling air. Blower Power can be derived from either the source under test or from an external power source.

Operator Controls:

Manual Toggle Switch Control Panel. Load selection is provided by individual industrial lever-type toggle switches for on/off application of load segments, one provided for each load step.

Control Power: An integral Control Power Transformer is provided for control circuit operation.

Warranty: Standard

**Packaged Weights and Dimensions:**

4830 lbs (2190.85 kg) / 215 in. X 88 in. X 90 in. (546.10 cm X 223.52 cm X 228.60 cm)

**R20A3 Included Option:**

Load Bank will be mounted to a Heavy-Duty, Dual-Axle, DOT Road Legal Trailer Featuring;

- 7,000 Pound Gross Vehicle Weight Capacity (Standard), complete with mating vehicle connectors
- Electric Brakes (Standard)
- 3" I.D. adjustable lunette eye hitch (Standard)
- 1 front tongue jack and 2 rear stabilizer jacks
- Safety chains and hooks

**R20C1 Included Option:**

MANUAL LOAD CABLE REEL, QTY 1 - : Reel is capable of storing approximately 1000 feet of # 4/0 AWG customer furnished load cable. Reel will be installed on the trailer.

**Estimated Shipment Period for Load Banks: 14 - 16 Week(s) (after final approval and release to Manufacturer)****Shipping Terms: US & Canada : FOB Shipping Point****(Sales tax not included in this quote)****Power Systems Division**3850 Channel Drive  
West Sacramento, CA 95691-3443  
(916) 373-4197  
(888) 373-1359 Toll Free  
(916) 373-4146 Fax1521 West Charter Way  
Stockton, CA 95206-1112  
(209) 466-6000  
(800) 347-4658 Toll Free  
(209) 467-4658 Fax[www.holtca.com](http://www.holtca.com)

**Delivery**

Pricing includes delivery on flat bed truck, off loading and setting Genset by customer. Depending on time of delivery lead-time can change. Currently approximate lead-time for genset is 10 to 12 weeks plus freight time from time of release to order the genset.

**Exception and Clarification:**

**This quote is based on verbal specifications with the following exceptions/clarifications. No other sections or single lines diagrams were provided and we take exception to any other specifications except the ones listed in this paragraph.**

**Note: The material listed in this quotation is our interpretation of the system requirements. We do not guarantee quantities, descriptions, etc. other than those shown. This quotation and Accompanying Bill of Material is to be considered as one entity. Any item not included in the Bill of Material is hereby excluded from our offer.**

**Any deviations or additions will be subject to a revised quotation and may result in additional charges.**

**Note: Allow 3 to 4 weeks lead-time when scheduling start-up and testing.**

SUBMITTALS: Submittal drawings will be available approximately 2 to 4 weeks after receipt of purchase order.

**Local AQMD Risk Management Policy may require a risk screening analysis, which is site specific. We can supply emission data and material for your use in this process. Based on the results of the risk screening analysis the equipment proposed may or may not be acceptable at your specific site. Any additional cost for emissions devices, parts, emission tests, or modifications to generator set will be the responsibility of contractor or/and owner.**

CREDIT: Subject to approval.

CANCELLATION POLICY: Rates for change orders and / or cancellations will be consistent with those of Holt of California and Caterpillar, Inc. at time of order.

This quote is valid for 30 days, and the following are **not** included, tax, installation (including genset concrete pad design/engineering), wiring, fuel, permitting, or permitting fees. FOB Job Site, unloading and placement by others. Holt of California, Inc is a material supplier, and is exempt from any contractor requirements. The engine quoted is emissions rated, but

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the owner/contractor is advised to inquire with the local air quality authority regarding any specific requirements for aftermarket products not included with bill of materials.

WITH APPROVED CREDIT, TERMS OF PAYMENT ARE NET (30) DAYS FROM INVOICE DATE. CUSTOMER SHALL PAY A LATE CHARGE OF 1.5% PER MONTH OF ALL AMOUNTS PAST DUE. THE PLACE OF PAYMENT IS P.O. BOX 100001, SACRAMENTO, CALIFORNIA 95813.

Thank you for this opportunity to quote **CATERPILLAR** products. Please call if we may answer any questions, or be of further service.

Sincerely,

Dave Harris  
Sales Engineer  
Power Systems Division  
916-373-4183 o  
916-826-3148 c  
916-373-4146 f  
[dharris@holtca.com](mailto:dharris@holtca.com)

1. **PARTIES.** This Sale Order/Quotation ("Agreement") is made by and between Holt of California or Holt Rental Services dba The CAT Rental Store as seller ("Holt") and Customer described on the front of this Agreement as buyer and is effective when signed by Holt and Customer. This Agreement may be executed and delivered by facsimile.
2. **SALE OF GOODS.** Seller shall transfer and deliver to Customer, and Customer shall pay for and accept, the material and equipment described on the front of this Agreement ("Goods"). The time of delivery of the Goods shall be on or about the Estimated Delivery Date, provided that Holt may change the Estimated Delivery Date without Customer's consent, and Holt shall not be liable for delays in delivery of the Goods. The place of delivery shall be Holt's place of business. Risk of loss shall pass to Customer upon delivery of the Goods to Customer or to Customer's shipper.
3. **INSPECTION.** Customer shall have the right to inspect the Goods at the time and place of delivery before paying for or accepting them. Upon Customer's acceptance of the Goods, Customer shall be conclusively presumed to be satisfied with the condition and conformance of the Goods.
4. **WAIVER/AMENDMENTS.** The failure by Holt to enforce any provision hereof shall not constitute a waiver by Holt of such provisions, nor of any subsequent breach of the same, nor of any other provision hereof. This Agreement constitutes the entire agreement between the parties, and supersedes all prior and contemporaneous agreements or understandings of the parties. No amendment shall be binding unless in writing and signed by the parties. No party has been induced to enter into this Agreement by, nor is any party relying on, any representation or warranty outside those expressly set forth in this Agreement. Any rule of construction to the effect that ambiguities are to be resolved against the drafting party shall not apply in interpreting this Agreement. No agent, employee or representative of Holt has the authority to bind Holt to any representation or warranty regarding the Goods that is not contained in this Agreement.

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5. **LIMITATION OF ACTIONS.** Any action for breach of this Agreement must be commenced within one year after the facts giving rise to the cause of action. Customer waives the right to a trial by jury.
6. **ASSIGNMENT.** This Agreement may be assigned by Holt to a third party without the prior consent of Customer.
7. **ATTORNEY'S FEES.** In any litigation, arbitration or other proceeding by which one party seeks to enforce its rights under this Agreement (whether in contract, tort, or both), the prevailing party shall be awarded reasonable attorney's fees, costs, and expert witness fees.
8. **VENUE.** Any dispute that arises between the parties shall be resolved in the Superior Court of California, County of Sacramento or County of San Joaquin, California.
9. **CALIFORNIA LAW.** This Agreement, and any dispute between the parties, shall be governed by California law. If any provision of this Agreement is held to be invalid in whole or in part, the validity of the remaining provisions shall not be affected.
10. **INDEMNITY.** Customer shall take all necessary precautions regarding the Goods and protect all persons and property from injury or damage. CUSTOMER SHALL INDEMNIFY AND HOLD HOLT FREE AND HARMLESS AGAINST ANY AND ALL CLAIMS, LOSS, DAMAGE, LIABILITY, EXPENSE (INCLUDING ATTORNEY'S FEES) AND PENALTY OF ANY KIND OR NATURE WHATSOEVER, INCLUDING WITHOUT LIMITATION INJURIES OR DEATH TO PERSONS AND DAMAGE TO PROPERTY ARISING OUT OF THE USE, MAINTENANCE, OPERATION, STORAGE, INSTRUCTION, DELAY (INCLUDING ANY DELAY IN OR FAILURE OF DELIVERY), SELECTION, PURCHASE, ACCEPTANCE OR REJECTION, OWNERSHIP, CONDITION, REPAIR OR POSSESSION OF THE GOODS OR ITS HANDLING OR TRANSPORTATION EXCEPT CLAIMS ARISING THROUGH THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF HOLT, WHETHER ATTRIBUTABLE TO A DEFECT IN THE GOODS, THE MATERIAL USED THEREIN OR THE DESIGN, MANUFACTURE OR TESTING OF THE GOODS, REGARDLESS OF WHETHER ANY SUCH DEFECT IS DISCOVERED, OR WHETHER THE GOODS ARE IN POSSESSION OF CUSTOMER OR THE LOCATION OF THE GOODS. CUSTOMER IS FULLY AWARE AND ACKNOWLEDGES THERE IS A RISK OF INJURY OR DAMAGE ARISING OUT OF THE USE OR OPERATION OF THE GOODS AND HEREBY ELECTS TO VOLUNTARILY ASSUME ALL OF THE ABOVE RISKS OF INJURY OR DAMAGE. CUSTOMER AGREES TO RELEASE AND DISCHARGE HOLT FROM ANY AND ALL RESPONSIBILITY OR LIABILITY FROM SUCH INJURY OR DAMAGE ARISING OUT OF THE USE OR OPERATION OF THE GOODS; AND CUSTOMER FURTHER AGREES TO WAIVE, RELEASE AND DISCHARGE ANY AND ALL CLAIMS FOR INJURY OR DAMAGE AGAINST HOLT WHICH CUSTOMER OTHERWISE MAY BE ENTITLED TO ASSERT.
11. **DISCLAIMER OF WARRANTIES/WAIVER OF DAMAGES.** EXCEPT AS OTHERWISE PROVIDED IN WRITING, NO WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE OR HAVE BEEN MADE OR AUTHORIZED BY HOLT WITH RESPECT TO THE GOODS AND ALL SUCH WARRANTIES ARE EXPRESSLY DISCLAIMED BY HOLT. CUSTOMER ACKNOWLEDGES THAT IF THERE IS A WARRANTY FOR THE GOODS, IT IS PROVIDED BY THE MANUFACTURER AND NOT BY HOLT. Customer acknowledges that it has selected the Goods on the basis of its own judgment and expressly disclaims any reliance upon any statements or representation made by Holt. Holt shall not be responsible to Customer for loss of use of Goods, loss of profits, or any other consequential damages. Holt shall not be liable for failure to deliver the Goods, or for any damages resulting from the selection, installation, operation or use of the Goods. Holt's liability regarding the Goods and/or this Agreement for any damages, whether arriving in contract, tort, or otherwise, shall be limited to the aggregate price of the Goods paid as of the date of the claim giving rise to the alleged damages.
12. **SECURITY INTEREST.** Customer hereby grants Holt a security interest in the Goods, including any attachments, accessions, and proceeds, to secure payment of the sales price and performance of Customer's obligations under this Agreement. Customer authorizes Holt to file such forms and documents as reasonably required by Holt to perfect its security interest, including but not limited to a UCC-1 financing statement with the California Secretary of State's Office. Holt shall have all of the rights of a secured party pursuant to the California Commercial Code until the Goods are paid in full.

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13. **SUCCESSORS AND ASSIGNS.** This Agreement shall be binding on Customer and its successors and assigns without regard to changes in the form of Customer's business entity or name or membership.

14. **PURCHASE ORDER.** Holt shall not be bound by the terms of any purchase order issued by Customer unless signed by Holt. In the event of a conflict between any such purchase order and this Agreement, this Agreement shall control.

**DATED: 08/18/2020**

**DATED:**

**HOLT OF CALIFORNIA**

**CUSTOMER**

X *David D. Harris*

X \_\_\_\_\_

By: David D. Harris

By: \_\_\_\_\_

Title: Power Systems Sales Engineer

Title: \_\_\_\_\_

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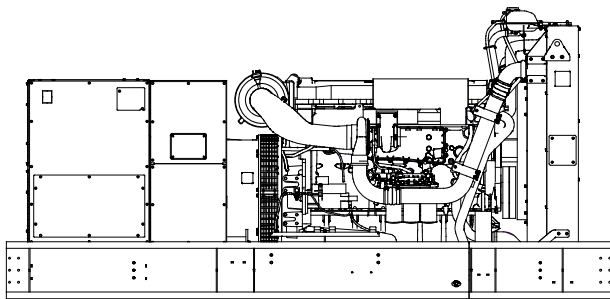
**KOHLER**Model: **550REOZVB****208- 600 V****Diesel**

**ISO 9001**  
**KOHLER**  
 NATIONALLY REGISTERED

**Tier 2 EPA-Certified for  
 Stationary Emergency  
 Applications**

## Ratings Range

		60 Hz
Standby:	kW	485- 550
	kVA	606- 688
Prime:	kW	475- 500
	kVA	594- 625



## Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- A standard one-year limited warranty covers all generator set systems and components. Two-, five-, and ten-year extended limited warranties are also available.
- Alternator features:
  - The pilot-excited, permanent magnet (PM) alternator provides superior short-circuit capability.
  - The brushless, rotating-field alternator has broadrange reconnectability.
- Other features:
  - Kohler designed controllers for one-source system integration and remote communication. See Controllers on page 3.
  - The low coolant level shutdown prevents overheating (standard on radiator models only).
  - Integral vibration isolation eliminates the need for under-unit vibration spring isolators.
  - An electronic, isochronous governor delivers precise frequency regulation.
  - Multiple circuit breaker configurations.

## Generator Set Ratings

Alternator	Voltage	Ph	Hz	150°C Rise Standby Rating		130°C Rise Standby Rating		125°C Rise Prime Rating		105°C Rise Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps
5M4028	120/208	3	60	535/669	1856	525/656	1822	485/606	1683	475/594	1648
	127/220	3	60	545/681	1788	545/681	1788	495/619	1624	495/619	1624
	139/240	3	60	545/681	1639	545/681	1639	495/619	1488	495/619	1488
	240/416	3	60	535/669	928	525/656	911	485/606	841	475/594	824
	277/480	3	60	545/681	819	545/681	819	495/619	744	495/619	744
5M4030	120/208	3	60	550/688	1908	550/688	1908	500/625	1735	500/625	1735
	127/220	3	60	550/688	1804	550/688	1804	500/625	1640	500/625	1640
	139/240	3	60	550/688	1654	550/688	1654	500/625	1504	500/625	1504
	220/380	3	60	485/606	921	485/606	921	485/606	921	485/606	921
	240/416	3	60	550/688	928	550/688	954	500/625	867	500/625	867
5M4032	277/480	3	60	550/688	827	550/688	827	500/625	752	500/625	752
	120/208	3	60	550/688	1908	550/688	1908	500/625	1735	500/625	1735
	127/220	3	60	550/688	1804	550/688	1804	500/625	1640	500/625	1640
	139/240	3	60	550/688	1654	550/688	1654	500/625	1504	500/625	1504
	220/380	3	60	550/688	1045	550/688	1045	500/625	950	500/625	950
5M4164	240/416	3	60	550/688	954	550/688	954	500/625	867	500/625	867
	277/480	3	60	550/688	827	550/688	827	500/625	752	500/625	752
5M4272	347/600	3	60	550/688	662	550/688	662	500/625	601	500/625	601

RATINGS: All three-phase units are rated at 0.8 power factor. *Standby Ratings:* The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. *Prime Power Ratings:* At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

# Alternator Specifications

Specifications	Alternator
Type	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet Pilot Exciter
Leads: quantity, type	10, Reconnectable
Voltage regulator	Solid State, Volts/Hz
Insulation:	NEMA MG1
Material	Class H, Synthetic, Nonhygroscopic
Temperature rise	130°C, 150°C Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Rotor balancing	125%
Voltage regulation, no-load to full-load	Controller Dependent
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby Current
Peak motor starting kVA:	(35% dip for voltages below)
480 V	5M4028 (10 lead) 1800
480 V	5M4030 (10 lead) 1775
<b>480 V</b>	<b>5M4032 (10 lead) 2200</b>
380 V	5M4164 (4 lead) 2300
600 V	5M4272 (4 lead) 1750

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state, volts-per-hertz voltage regulator with  $\pm 0.25\%$  no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.

## Application Data

### Engine

Engine Specifications	
Manufacturer	Volvo
Engine model	TAD1642GE
Engine type	4-Cycle, Turbocharged, Charge Air-Cooled
Cylinder arrangement	6 Inline
Displacement, L (cu. in.)	16.12 (984)
Bore and stroke, mm (in.)	144 x 165 (5.67 x 6.50)
Compression ratio	16.5:1
Piston speed, m/min. (ft./min.)	594 (1949)
Main bearings: quantity, type	7, Precision Half-Shell
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	604 (810)
Cylinder head material	Cast Iron
Piston: type, material	Swirl Chamber, Graphite-Coated Aluminum
Crankshaft material	Forged Steel
Valve material	Nimonic
Governor type	EMS II
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	$\pm 0.25\%$
Frequency	Fixed
Air cleaner type, all models	Dry

### Exhaust

Exhaust System	
Exhaust manifold type	Dry
Exhaust flow at rated kW, m <sup>3</sup> /min. (cfm)	117.6 (4153)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	512 (954)
Maximum allowable back pressure, kPa (in. Hg)	10 (2.95)
Exhaust outlet size at engine hookup, mm (in.)	See ADV drawing

### Engine Electrical

Engine Electrical System		
Battery charging alternator:		
Ground (negative/positive)		Negative
Volts (DC)		24
Ampere rating		80
Starter motor rated voltage (DC)		24
Battery, recommended cold cranking amps (CCA):		
Quantity, CCA rating each		Two, 950
Battery voltage (DC)		12

### Fuel

Fuel System		
Fuel supply line, min. ID, mm (in.)		8 (0.31)
Fuel return line, min. ID, mm (in.)		6 (0.25)
Max. fuel flow, Lph (gph)		204.4 (54)
Max. fuel pump restriction, kPa (in. Hg)		30 (8.9)
Max. return line restriction, kPa (in. Hg)		20 (5.9)
Fuel prime pump		Manual
Fuel filter: quantity, type		2, Primary, 10 Micron/Secondary w/Water Separator, 3 Microns
Recommended fuel		#2 Diesel

### Lubrication

Lubricating System		
Type		Full Pressure
Oil pan capacity, L (qt.) §		42.0 (44.4)
Oil pan capacity with filter, L (qt.) §		48.1 (50.8)
Oil filter: quantity, type §		3, Cartridge
Oil cooler		Water-Cooled
§ Kohler recommends the use of Kohler Genuine oil and filters.		

## Application Data

### Cooling

#### Radiator System

Ambient temperature, °C (°F) *	50 (122)
Engine jacket water capacity, L (gal.)	33 (8.7)
Engine jacket water capacity, L (gal.):	
IBC	33 (8.7)
Non- IBC	39.7 (10.5)
Radiator system capacity, including engine, L (gal.):	
IBC	60 (15.9)
Non- IBC	67 (17.7)
Engine jacket water flow, Lpm (gpm)	463.3 (122.4)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	248 (14104)
Heat rejected to air charge cooler at rated kW, dry exhaust, kW (Btu/min.)	159 (9042)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	890 (35)
Fan, kWm (HP)	19 (25.5)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H <sub>2</sub> O)	0.125 (0.5)

\* Weather and sound enclosures with internal silencer and weather housing with external silencer reduce ambient temperature capability by 5°C (9°F).

### Operation Requirements

#### Air Requirements

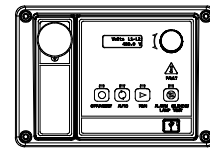
Radiator-cooled cooling air, m <sup>3</sup> /min. (scfm) †	598 (21120)
Combustion air, m <sup>3</sup> /min. (cfm)	46.6 (1646)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	24 (1365)
Alternator, kW (Btu/min.)	39 (2202)

† Air density = 1.20 kg/m<sup>3</sup> (0.075 lbm/ft<sup>3</sup>)

#### Fuel Consumption

Diesel, Lph (gph) at % load	Standby Rating
100%	151.2 (39.9)
75%	109.1 (28.8)
50%	72.4 (19.1)
25%	39.2 (10.4)
Diesel, Lph (gph) at % load	Prime Rating
100%	136.0 (35.9)
75%	98.6 (26.0)
50%	66.4 (17.5)
25%	36.9 (9.8)

## Controllers

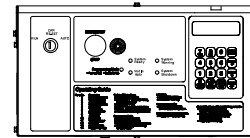


#### APM402 Controller

Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.

- Digital display and menu control provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or serial configuration
- Controller supports Modbus® protocol
- Integrated hybrid voltage regulator with ±0.5% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-161 for additional controller features and accessories.

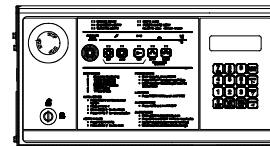


#### Decision-Maker® 550 Controller

Provides advanced control, system monitoring, and system diagnostics with remote monitoring capabilities.

- Digital display and keypad provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or modem configuration
- Controller supports Modbus® protocol
- Integrated voltage regulator with ±0.25% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-46 for additional controller features and accessories.



#### Decision-Maker® 6000 Paralleling Controller

Provides advanced control, system monitoring, and system diagnostics with remote monitoring capabilities for paralleling multiple generator sets.

- Paralleling capability with first-on logic, synchronizer, kW and kVAR load sharing, and protective relays
- Digital display and keypad provide easy local data access
- Measurements are selectable in metric or English units
- Remote communication thru a PC via network or modem configuration
- Controller supports Modbus® protocol
- Integrated voltage regulator with ±0.25% regulation
- Built-in alternator thermal overload protection
- NFPA 110 Level 1 capability

Refer to G6-107 for additional controller features and accessories.

Modbus® is a registered trademark of Schneider Electric.

## Standard Features

- Alternator Protection
- Battery Rack and Cables
- Customer Connection  
(standard with Decision-Maker® 6000 controller)
- Local Emergency Stop Switch
- Oil Drain Extension
- Operation and Installation Literature

## Available Options

### Approvals and Listings

- California OSHPD Approval
- CSA Certified
- IBC Seismic Certification
- UL 2200 Listing
- Hurricane Rated Enclosure

### Enclosed Unit

- Sound Enclosure/Tank Package
- Weather Enclosure/Tank Package

### Open Unit

- Exhaust Silencer, Hospital (kit: PA-354907)
- Exhaust Silencer, Critical (kit: PA-354894)
- Flexible Exhaust Connector, Stainless Steel

### Fuel System

- Flexible Fuel Lines, Rubber
- Flexible Fuel Lines, Stainless Steel
- Fuel Pressure Gauge

### Controller

- Common Failure Relay  
(Decision-Maker® 550 and 6000 controllers only)
- Communications Products and PC Software
- Customer Connection (Decision-Maker® 550 controller only)
- Decision-Maker® Paralleling System (DPS)  
(Decision-Maker® 6000 controller only)
- Dry Contact (isolated alarm)  
(Decision-Maker® 550 and 6000 controllers only)
- Two Input/Five Output Module (APM 402 controller only)
- Remote Audiovisual Alarm Panel  
(Decision-Maker® 550 controller only)
- Remote Emergency Stop
- Remote Mounting Cable
- Remote Serial Annunciator Panel
- Run Relay
- Manual Speed Adjust  
(Decision-Maker® 550 and APM402 controller only)

### Cooling System

- Block Heater, 4000 W, 190/208 V, 1 Ph
- Block Heater, 4000 W, 210/240 V, 1 Ph
- Block Heater, 4000 W, 380/480 V, 1 Ph  
Required for ambient temperatures below 0°C (32°F)
- Radiator Duct Flange

### Electrical System

- Alternator Strip Heater
- Battery
- Battery Charger, Equalize/Float Type
- Battery Heater
- Bus Bar

- Line Circuit Breaker (NEMA type 1 enclosure)
- Line Circuit Breaker with Shunt Trip (NEMA type 1 enclosure)

### Paralleling System

- Remote Voltage Adjustment Control  
(Decision-Maker® 550 controller only)
- Voltage Sensing (Decision-Maker® 6000 controller only)

### Miscellaneous

- Air Cleaner, Heavy Duty
- Air Cleaner Restriction Indicator
- Closed Crankcase Ventilation
- Engine Fluids (oil and coolant) Added
- Rated Power Factor Testing

### Literature

- General Maintenance
- NFPA 110
- Overhaul
- Production

### Warranty

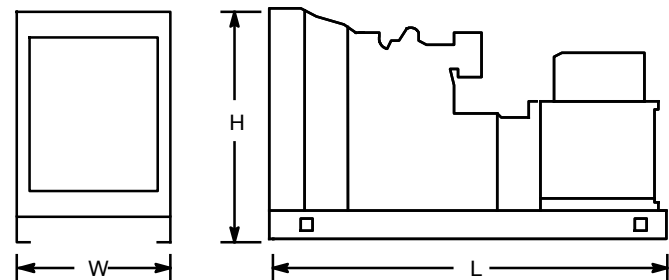
- 2-Year Basic Limited Warranty
- 2-Year Prime Limited Warranty
- 5-Year Basic Limited Warranty
- 5-Year Comprehensive Limited Warranty
- 10-Year Major Components Limited Warranty

### Other Options

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## Dimensions and Weights

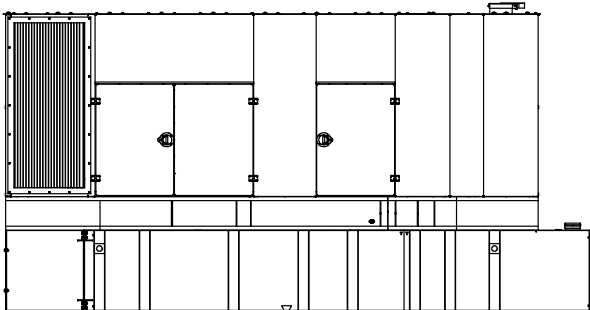
Overall Size, L x W x H, max., mm (in.): 4229 x 1939 x 1961  
 (166.5 x 76.3 x 77.2)  
 Weight (radiator model), wet, max., kg (lb.): 4400 (9700)



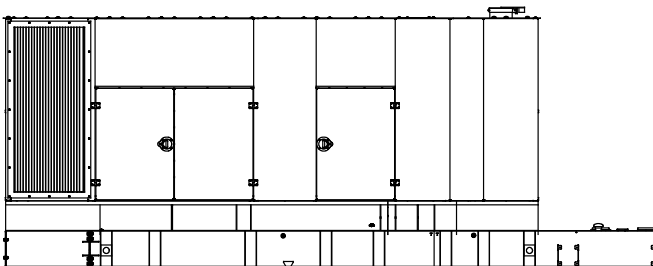
Note: This drawing is provided for reference only and should not be used for planning the installation. Contact your local distributor for more detailed information.

## DISTRIBUTED BY:

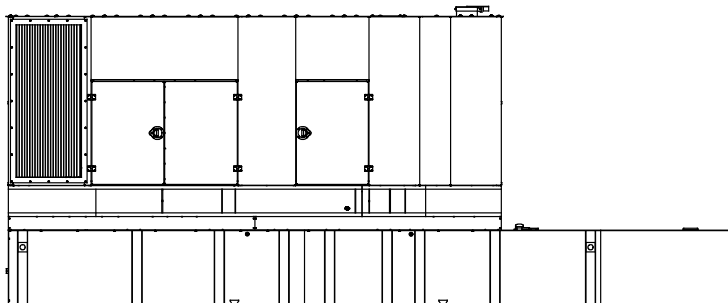
### Weather/Sound Enclosure and Subbase Fuel Tank Package



**Enclosure with Standard Tank (12- 48 Hour)**



**Enclosure with State Tank (12- 48 Hour)**



**Enclosure with State Tank (72 Hour)**

#### Available Approvals and Listings

- UL 2200 Listing
- CSA Certified
- IBC Seismic Certification
- California OSHPD Approval
- cUL Listing (fuel tanks only)
- Hurricane Rated Enclosure - Available on sound aluminum  
(Impact rated for Large Missile Level E and Wind load rated per Florida Building Code tested to TAS201- 94, TAS202- 94 and TAS203- 94 standards)

**NOTE:** Some models may have limited third-party approvals; see your local distributor for details.

#### Applicable to the following:

**500REOZVC  
550/600REOZVB**

#### Weather Enclosure Features

- Internal-mounted silencer, flexible exhaust connector, and rain cap.
- Skid mounted, steel or aluminum construction with hinged and removable doors.
- Fade-, scratch-, and corrosion-resistant Kohler® Power Armor™ automotive-grade textured finish.
- Enclosure has six large access doors which allow for easy maintenance.
- Lockable, flush-mounted door latches.
- Air inlet louvers reduce rain and snow entry.
- Steel weather enclosure is designed to 150 mph (241 kph) wind load rating.
- Aluminum weather enclosure is designed to 181 mph (291 kph) wind load rating.

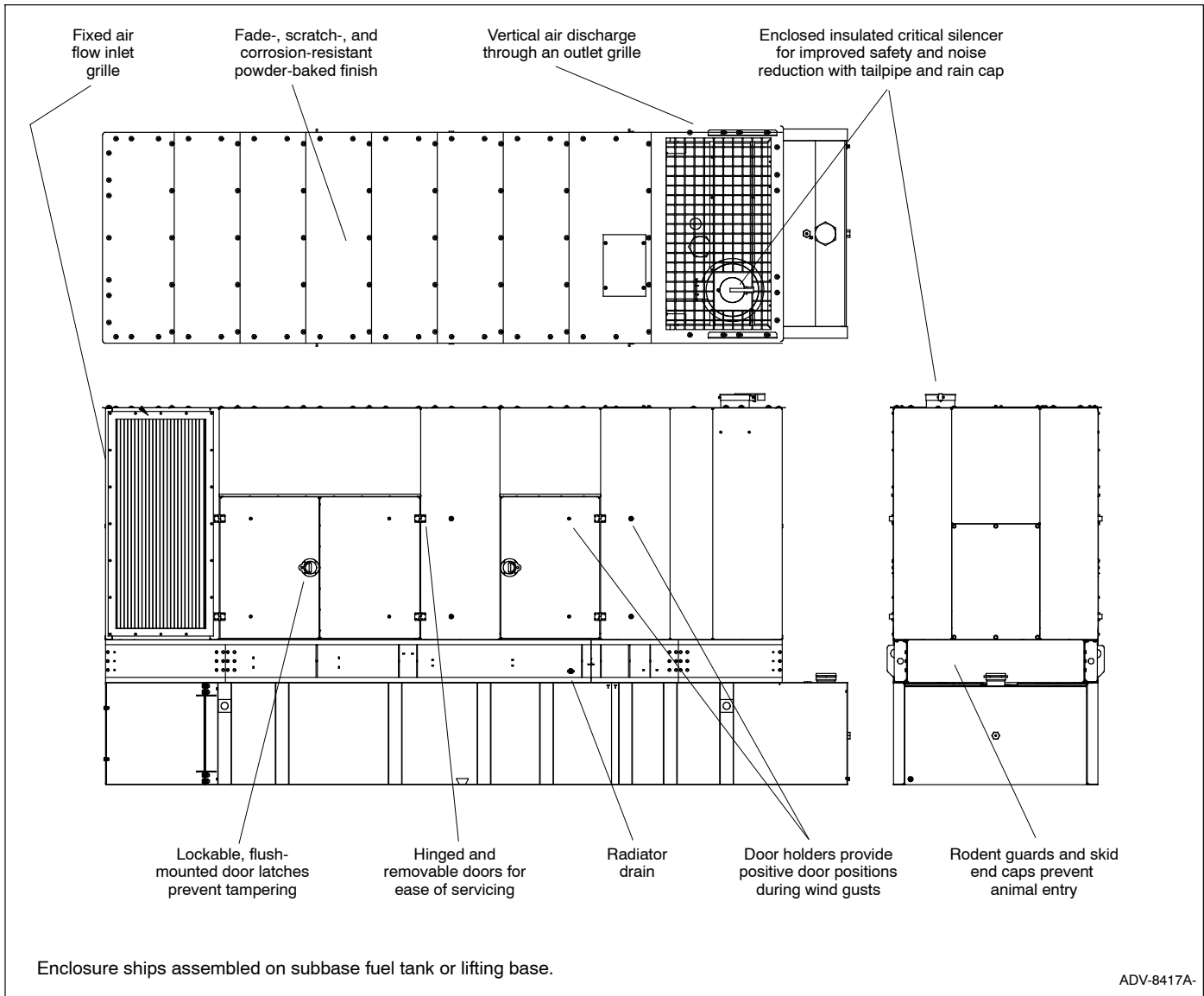
#### Sound Enclosure Features

- Includes all of the weather enclosure features with the addition of acoustic insulation material.
- Skid-mounted, steel or aluminum construction with hinged and removable doors. Aluminum enclosures recommended for high humidity and/or high salt/coastal regions.
- Vertical air outlet with 90 degree angles to redirect air and reduce noise.
- Acoustic insulation that meets UL 94 HF1 flammability classification.
- Steel sound enclosure is designed to 150 mph (241 kph) wind load rating.
- Aluminum sound enclosure is certified to 186 mph (299 kph) wind load rating.

#### Subbase Fuel Tank Features

- The fuel tank has a Power Armor Plus™ textured epoxy-based rubberized coating.
- The above-ground rectangular secondary containment tank mounts directly to the generator set, below the generator set skid (subbase).
- Both the inner and outer tanks have emergency relief vents.
- Flexible fuel lines are provided with subbase fuel tank selection.
- The secondary containment tank's construction protects against fuel leaks or ruptures. The inner (primary) tank is sealed inside the outer (secondary) tank. The outer tank contains the fuel if the inner tank leaks or ruptures.

## Weather Enclosure

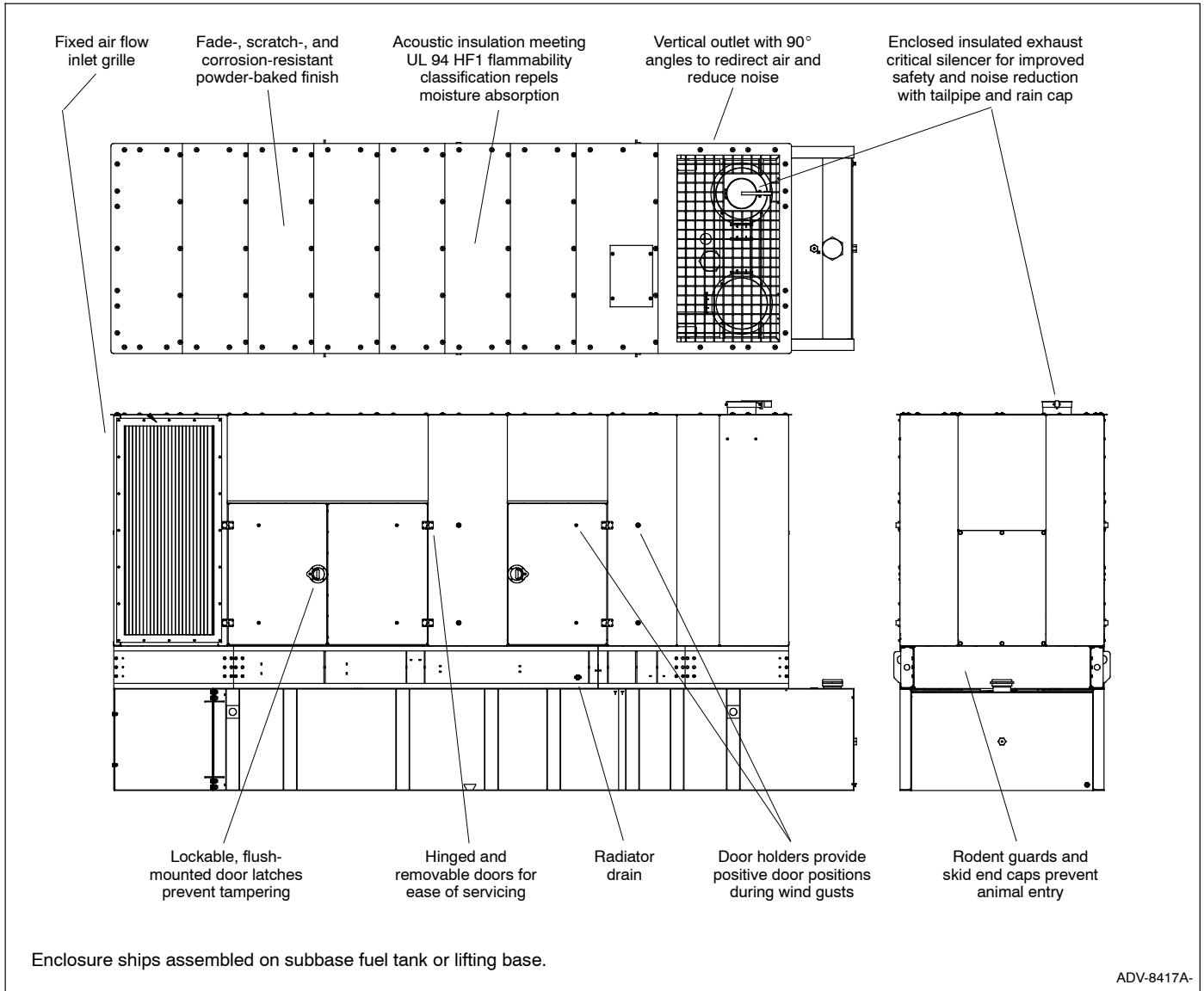


### Weather Enclosure Features

- Available in steel or aluminum panels providing solid construction. Preassembled package offering dent resilient structure mounting directly to lift base or fuel tank.
- Power Armor™ automotive-grade finish resulting in advanced corrosion and abrasion protection as well as enhanced edge coverage and color retention.
- Interchangeable modular panel construction. Allows complete serviceability or replacement without compromising enclosure design.
- Internal exhaust silencer. Offers maximum component life, operator safety, and includes rain shield and cap.
- Service access. Multi-personnel doors for easy access to generator set control and servicing of the fuel fill, fuel gauge, oil fill, and battery.
- Cooling/Combustion Air Intake.
  - Weather protective designs using fixed air inlet louvers.
  - Sized for maximum cooling airflow.
- Cooling Air Discharge.
  - Outlet grille design with 90° vertical air discharge.
  - Exhausts air through a punched air outlet grille.

**NOTE:** Installing an additional length of exhaust tail pipe may increase backpressure levels. Please refer to the generator set spec sheet for the maximum backpressure value.

## Sound Enclosure



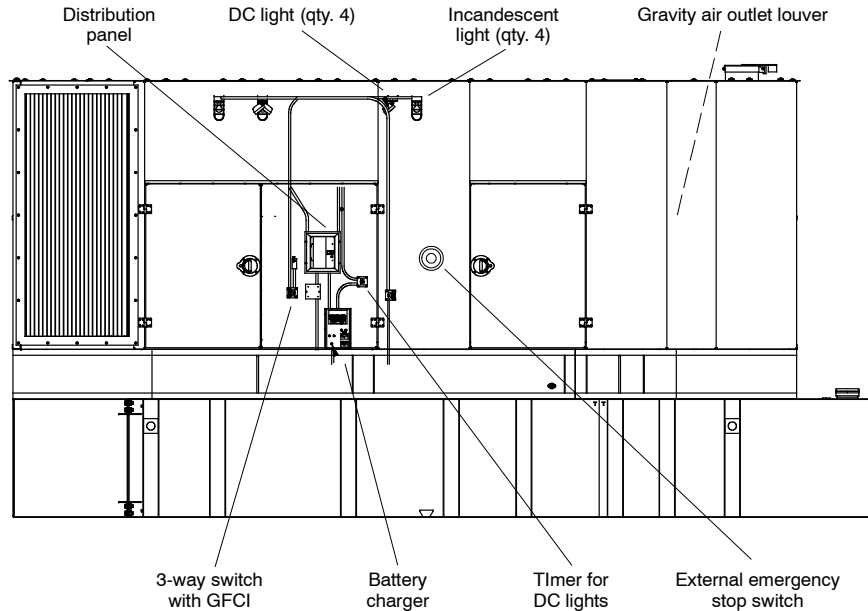
### Sound Enclosure Features

- Available in steel (14 gauge) or aluminum (3 mm [0.125 in.]) formed panel, solid construction. Preassembled package offering corrosion resistant (aluminum), dent resilient structure mounting directly to lift base or fuel tank.
- Power Armor™ automotive-grade finish resulting in advanced corrosion and abrasion protection as well as enhanced edge coverage and color retention.
- Interchangeable modular panel construction. Allows complete serviceability or replacement without compromising enclosure design.
- Internal critical exhaust silencer. Offers maximum component life, operator safety, and includes rain shield and cap.
- Attenuated design. Acoustic insulation UL 94 HF1 listed for flame resistance.
- Service access. Multi-personnel doors for easy access to generator set control and servicing of the fuel fill, fuel gauge, oil fill, and battery.
- Cooling/combustion air intake. Attenuated models offering weather protective designs using fixed air inlet louvers.
- Cooling air discharge. Attenuated models offering 90° vertical air outlet. Redirects cooling air up and above enclosures to reduce noise ambient.

**NOTE:** Installing an additional length of exhaust tail pipe may increase backpressure levels. Please refer to the generator set spec sheet for the maximum backpressure value.



## Weather and Sound Enclosure Options



**Note:** Enclosure heater and ventilation fan not shown.

ADV-8417C-

### Enclosure Design Options

- Aluminum Enclosure
- Steel Enclosure

### Basic Electrical Package (BEP)

**Distribution Panel/Load Center.** Prewired AC power distribution of all factory-installed features including block heater, two GFCI-protected internal 120-volt service receptacles, internal lighting, and commercial grade wall switch. Load center powered by building source power and protected by a main circuit breaker, rated for 100 amps (single phase) or 125 amps (three phase) with capacity and circuit positions for future expansion. AC power distribution installed in accordance with NEC and all wiring within EMT thin wall conduit. Four incandescent or fluorescent lights located within UL-listed fixtures designed for wet locations.

- BEP, single-phase load center, 100 A, 120/240 VAC.
- BEP, three-phase load center, 125 A, 120/208/240 VAC.

### Enclosure Heater

**Heater, 5 kW Ceiling Mounted.** Electrical utility heater prewired to load center internal to enclosure. Rated at 17100 Btu. Includes adjustable louvers offering down flow and horizontal air tuning and an enclosure-mounted thermostat with automatic fan delay controls.

- Heater, single phase at 240 VAC.
- Heater, three phase at 208 or 240 VAC.

### DC Light Package

- DC Light Package (DLP).** Prewired DC light package offering an economical alternative light source within the enclosure, as a complement to the BEP or a source of light when AC power is not available. Battery drain limited with fuse protection and controlled through a 0-60 minute, spring-wound, no-hold timer.

### Ventilation Fan and Louvers

#### Ventilation Fan, 22.6 cm/min. (800 cfm) Wall Mount.

Direct drive 3-blade 305 mm (12 in.) aluminum propeller fan with automatic shutters, driven by a totally enclosed air-over motor housed within a corrosion-resistant housing. Remote thermostatically controlled over a temperature range of 27°C to 54°C (80°F to 130°F). All components are prewired and installed.

- Aluminum construction
- Steel construction
- Gravity Air Outlet Louver.** Louvers closed when unit is not running. After the unit starts, the forced cooling air opens the outlet louvers.

### Miscellaneous Package Options

- Battery Charger, Mounted.** Mounting and prewiring of DC output and AC input when optional BEP is selected. Battery charger located inside the enclosure and accessible through an access door.

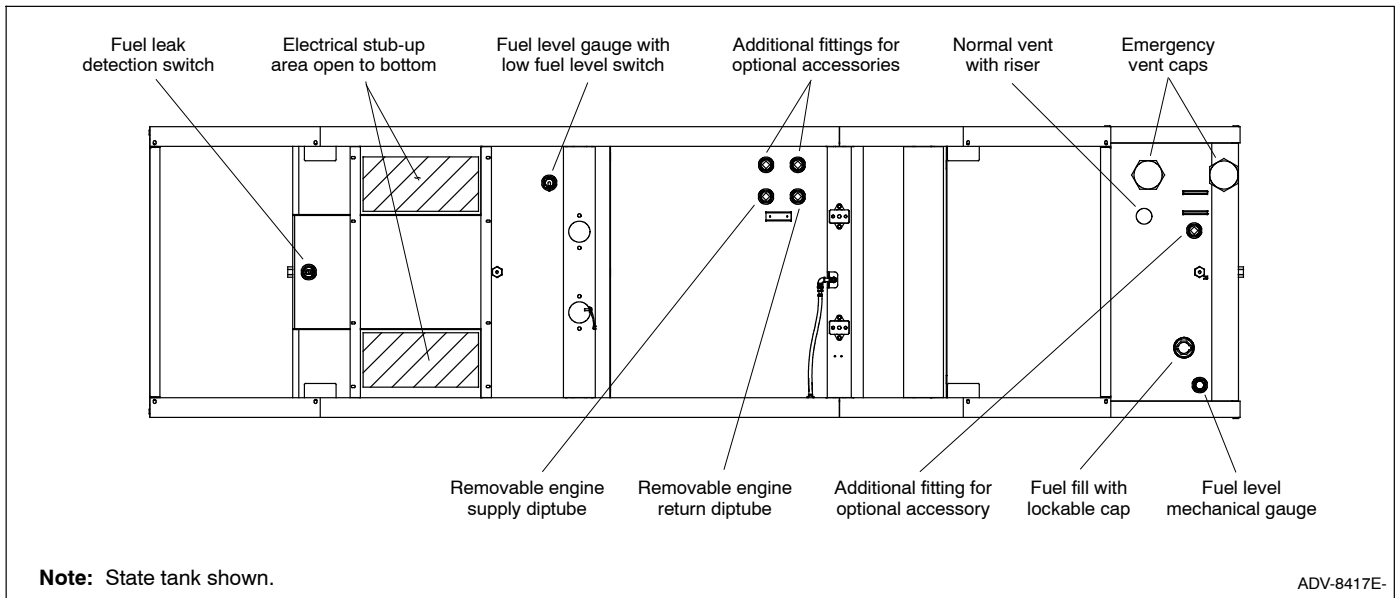
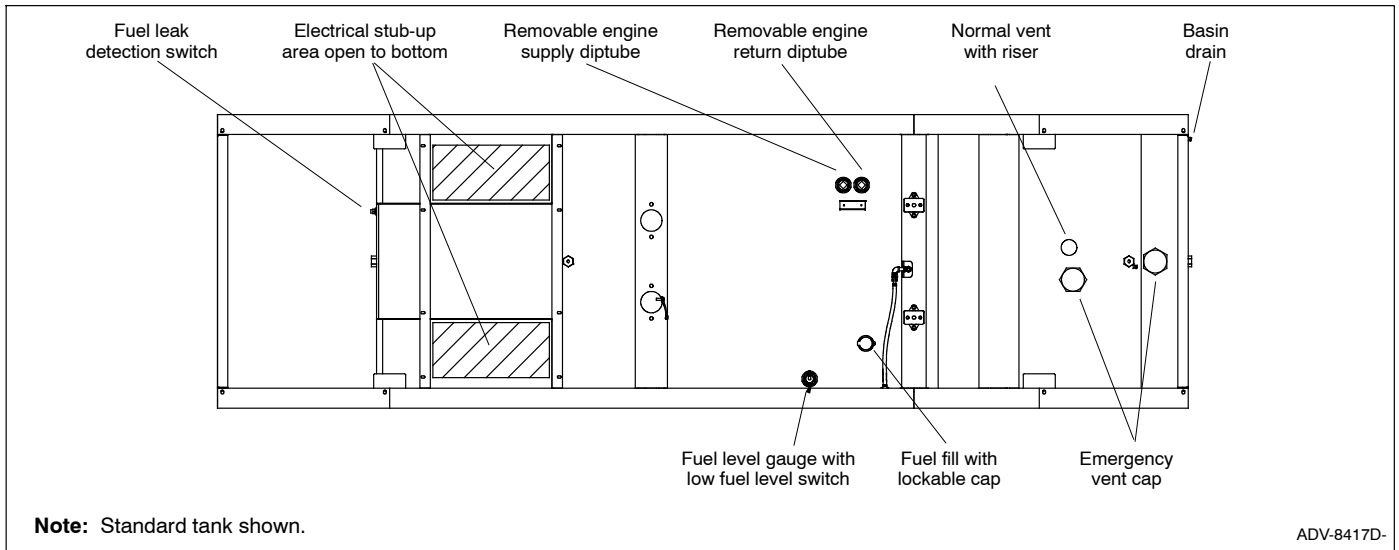
**Block Heater Wiring with Junction Box.** Factory-supplied block heater prewired to a steel junction box providing a convenient location for the customer wiring of the block heater.

- Heater available in single phase at 208 or 240 VAC.
- Aluminum construction
- Remote Emergency Stop Switch.** Externally mounted, recessed emergency stop switch.

### Stairway (Fuel Tank Option)

- Freestanding stairs
- Freestanding stairs with platform
- Freestanding stairs with catwalk

## Subbase Fuel Tank



## Standard Subbase Fuel Tank Features

- Extended operation. Usable tank capacity offers full load standby operation of up to 72 hours.
- Power Armor Plus™ textured epoxy-based rubberized coating that creates an ultra-thick barrier between the tank and harsh environmental conditions like humidity, saltwater, and extreme temperatures, and provides advanced corrosion and abrasion protection.
- UL listed. Secondary containment generator set base tank meeting UL 142 requirements.
- NFPA compliant. Designed to comply with the installation standards of NFPA 30 and NFPA 37.
- Integral external lift lugs. Enables crane with spreader-bar lifting of the complete package (empty tank, mounted generator set, and enclosure) to ensure safety.
- Emergency pressure relief vents. Meets UL requirements; ensures adequate venting of inner and outer tank under extreme pressure and/or emergency conditions.
- Normal vent with cap. Vent is raised above lockable fuel fill.
- Low fuel level switch. Annunciates a 50% low fuel level condition at generator set control.
- Leak detection switch. Annunciates a contained primary tank fuel leak condition at generator set control.
- Electrical stub-up.

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## State Code Subbase Fuel Tank Options

### Bottom Clearance/Coating

- I-beams, provides 106 mm (4.2 in.) of ground clearance

### Fuel in Basin Options

- Fuel in basin switch, Florida Dept. of Environmental Protection (FDEP) File No. EQ-682 approved

### Fuel Fill Options

- Fill pipe extension to within 152 mm (6 in.) of bottom of fuel tank
- 18.9 L (5 gallon) spill containment with 95% shutoff
- 18.9 L (5 gallon) spill containment
- 18.9 L (5 gallon) spill containment fill to within 152 mm (6 in.) of bottom of fuel tank
- 28.4 L (7.5 gallon) spill containment, Florida Dept. of Environmental Protection (FDEP) File No. EQ-345 approved
- 28.4 L (7.5 gallon) spill containment with 95% shutoff, Florida Dept. of Environmental Protection (FDEP) File No. EQ-345/EQ-257 approved

### Fuel Supply Options

- Fire safety valve (installed on fuel supply line)
- Ball valve (installed on fuel supply line)

### High Fuel Level Switch

- High fuel level switch
- High fuel level switch, Florida Dept. of Environmental Protection (FDEP) File No. EQ-682 approved
- Three alarm fuel tank panel
- Three alarm fuel tank panel, Florida Dept. of Environmental Protection (FDEP) File No. EQ-682 approved

### Normal Vent Options

- 3.7 m (12 ft.) above grade (without spill containment)
- 3.7 m (12 ft.) above grade (with spill containment)

### Tank Marking Options

- Decal, Combustible Liquids - Keep Fire Away (qty. 2)
- Decal, NFPA 704 identification (qty. 2)
- Decal, tank number and safe fuel fill height (qty. 2)

### Fluid Containment Options

- 100% engine fluid containment

### Stairway

- Freestanding stairs
- Freestanding stairs with platform
- Freestanding stairs with catwalk

## Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load	Weather Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) †
		Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width	Height	With Steel Enclosure	With Aluminum Enclosure		

### 500REOZVC and 550REOZVB

No Tank	0	6045 (238)	1883 (74)	2455 (97)	5727 (12625)	5103 (11250)	0	91	
2049 (541)	12			2979 (117)	7170 (15808)	6547 (14433)	406 (16)		
3910 (1033)	24			3309 (130)	7519 (16577)	6896 (15202)	737 (29)		
5730 (1513)	36			6629 (261)	3487 (137)	7927 (17478)	7304 (16103)		914 (36)
7645 (2019)	48			8026 (316)	8391 (18501)	7768 (17126)			

### 500REOZVC and 550REOZVB with State Code Fuel Tank

No Tank	0	6045 (238)	1883 (74)	2455 (97)	5727 (12625)	5103 (11250)	0	91
2039 (538)	12	6858 (270)		2953 (116)	7317 (16133)	6694 (14758)	381 (15)	
3930 (1038)	24			3233 (127)	7619 (16798)	6996 (15423)	660 (26)	
5757 (1520)	36	8458 (333)		3487 (137)	7903 (17425)	7280 (16050)	914 (36)	
7658 (2023)	48				8406 (18533)	7783 (17158)		
11554 (3052)	72		8890 (350)	2173 (86)	9931 (21895)	9308 (20520)		

### 600REOZVB

No Tank	0	6045 (238)	1883 (74)	2455 (97)	6212 (13695)	5588 (12320)	0	91
2049 (541)	12			2979 (117)	7555 (16658)	6932 (15283)	406 (16)	
3910 (1033)	24			3309 (130)	7904 (17427)	7281 (16052)	737 (29)	
5730 (1513)	36			3487 (137)	8312 (18328)	7689 (16953)	914 (36)	
7645 (2019)	48				8776 (19351)	8153 (17976)		

### 600REOZVB with State Code Fuel Tank

No Tank	0	6045 (238)	1883 (74)	2455 (97)	6212 (13695)	5588 (12320)	0	91
2039 (538)	12	6858 (270)		2953 (116)	7702 (16983)	7079 (15608)	381 (15)	
3930 (1038)	24			3233 (127)	8004 (17648)	7381 (16273)	660 (26)	
5752 (1520)	36	8458 (333)		3487 (137)	8288 (18275)	7665 (16900)	914 (36)	
7658 (2023)	48				8791 (19383)	8168 (18008)		
11554 (3052)	72		8890 (350)	2173 (86)	10316 (22745)	9693 (21370)		

**Note:** Data in table is for reference only, refer to the respective ADV drawings for details.

\* \*Max. weight includes the generator set (wet) with largest alternator option, enclosure, silencer, and tank (no fuel).

† Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft). Refer to TIB-114 for details.

## Enclosure and Subbase Fuel Tank Specifications

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz with Full Load	Sound Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Pressure Level at 60 Hz with Full Load, dB(A) †
		Dimensions, mm (in.)			Max. Weight, kg (lb.) *			
		Length	Width	Height	With Steel Enclosure	With Aluminum Enclosure		

### 500REOZVC and 550REOZVB

No Tank	0	6045 (238)	1883 (74)	2455 (97)	5883 (12970)	5259 (11595)	0	75	
2049 (541)	12			2979 (117)	7327 (16153)	6703 (14778)	406 (16)		
3910 (1033)	24			3309 (130)	7676 (16922)	7052 (15547)	737 (29)		
5730 (1513)	36			6629 (261)	3487 (137)	8084 (17823)	7460 (16448)		914 (36)
7645 (2019)	48			8026 (316)	8548 (18846)	7924 (17471)			

### 500REOZVC and 550REOZVB with State Code Fuel Tank

No Tank	0	6045 (238)	1883 (74)	2455 (97)	5883 (12970)	5259 (11595)	0	75
2039 (538)	12	6858 (270)		2953 (116)	7474 (16478)	6850 (15103)	381 (15)	
3930 (1038)	24			3233 (127)	7776 (17143)	7152 (15768)	660 (26)	
5757 (1520)	36	8458 (333)		3487 (137)	8060 (17770)	7436 (16395)	914 (36)	
7658 (2023)	48				8563 (18878)	7939 (17503)		
11554 (3052)	72		8890 (350)		2173 (86)	10088 (22240)		9464 (20865)

### 600REOZVB

No Tank	0	6045 (238)	1883 (74)	2455 (97)	6368 (14040)	5745 (12665)	0	76	
2049 (541)	12			2979 (117)	7712 (17003)	7088 (15628)	406 (16)		
3910 (1033)	24			3309 (130)	8061 (17772)	7437 (16397)	737 (29)		
5730 (1513)	36			6629 (261)	3487 (137)	8469 (18673)	7845 (17298)		914 (36)
7645 (2019)	48					8933 (19696)	8309 (18321)		

### 600REOZVB with State Code Fuel Tank

No Tank	0	6045 (238)	1883 (74)	2455 (97)	6368 (14040)	5745 (12665)	0	76
2039 (538)	12	6858 (270)		2953 (116)	7859 (17328)	7235 (15953)	381 (15)	
3930 (1038)	24			3233 (127)	8161 (17993)	7537 (16618)	660 (26)	
5752 (1520)	36	8458 (333)		3487 (137)	8445 (18620)	7821 (17245)	914 (36)	
7658 (2023)	48				8948 (19728)	8324 (18353)		
11554 (3052)	72		8890 (350)		2173 (86)	10473 (23090)		9849 (21715)

**Note:** Data in table is for reference only, refer to the respective ADV drawings for details.

\* \*Max. weight includes the generator set (wet) with largest alternator option, enclosure, silencer, and tank (no fuel).

† Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft). Refer to TIB-114 for details.

**DISTRIBUTED BY:**

# Agenda Item

DATE: September 9, 2020

TO: Michael Minkler, General Manager

FROM: Damon Wyckoff, Director of Operations

SUBJECT: Approval of Declared List of Surplus Items and Authorize their Disposal per the Surplus Policy

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## RECOMMENDED ACTION:

Motion \_\_\_\_\_/\_\_\_\_\_ adopting Resolution No. 2020 -\_\_\_\_ Declaring District Vehicles and Equipment Surplus.

## SUMMARY:

District Staff have identified the following items as past their useful life for District field operations work efforts. Staff have characterized these items as surplus and present them to the Board for surplus declaration:

- White M49 diesel forklift
- Coleman Light Trailer
- Bobcat 825
- 8' Tall by 3' wide Oak and Glass Doors
- Backhoe-Case 580E-1985
- Pontoon Boat Trailer
- Cement Mixer
- 2 16" Magnetic Flow Meters
- SnowCraft Thiokole Spryte 1201b Snowcat -1889 and Mack Superior Trailer - 1990
- International Dump Truck-1981
- Skidoo Snowmobile - 1996

## FINANCIAL CONSIDERATIONS:

Allows the District's Financial Department to clear the District's records of these aged, obsolete items.

*Attachments*      A) Resolution No. 2020-\_\_\_\_ Declaring District Vehicles and Equipment Surplus  
                              B) Surplus list 21-01

**RESOLUTION NO. 2020-**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE  
CALAVERAS COUNTY WATER DISTRICT**

**DECLARING DISTRICT VEHICLES AND EQUIPMENT SURPLUS**

**WHEREAS**, the Board of Directors of the CALAVERAS COUNTY WATER DISTRICT adopted Resolution 2019-55 on August 14, 2019 Financial Management Policy 5.09, Surplus Equipment; and

**WHEREAS**, the Financial Management Policy 5.09 sets forth the conditions under which assets that are no longer useful to the District are to be disposed of; and

**WHEREAS**, per Section 5.09.03, the District Board of Directors will take formal action to declare items surplus if the estimated value of the property exceeds \$2,500.

**NOW, THEREFORE BE IT RESOLVED** the Board of Directors of the CALAVERAS COUNTY WATER DISTRICT declares the equipment and vehicles listed on the Vehicle and Equipment Surplus List 21-01, attached hereto and made a part hereof, surplus.

**PASSED AND ADOPTED** this 9<sup>th</sup> day of September, 2020 by the following vote:

**AYES:**

**NOES:**

**ABSTAIN:**

**ABSENT:**

CALAVERAS COUNTY WATER DISTRICT

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Bertha Underhill, President  
Board of Directors

**ATTEST:**

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Rebecca Hitchcock  
Clerk to the Board

## Vehicle and Equipment Surplus List 21-01

Vehicle Number	Year	Make/ Model	Serial Number / Vehicle ID Number	Mileage	Status/ Condition
		White M49 diesel forklift			needs rehabilitation
		Coleman Light Trailer			needs rehabilitation
		Bobcat 825			does not run
	n/a	8' Tall by 3' wide Oak and Glass Doors			never installed
		Backhoe-Case 580E-1985			heavily used condition
		Pontoon Boat Trailer			
		Cement Mixer			heavily used Condition
		2 16" Magnetic Flow Meters			Never installed -
	1990	SnowCraft Thiokole Spryte 1201b Snowcat -1889 and Mack Superior Trailer -1990			Does not run
	1981	International Dump Truck-1981			Currently not running
	1996	Skidoo Snowmobile - 1996			



# Agenda Item

DATE: September 9, 2020

TO: Board of Directors

FROM: Rebecca Callen, Director of Administrative Services

SUBJECT: Discussion and Update for the Districtwide Enterprise Resource Planning Project

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## **RECOMMENDED ACTION:**

Discussion and update for the District's Enterprise Resource Planning (ERP) software.

## **SUMMARY:**

The Steering Committee met on Friday, August 28, 2020 and unanimously agreed that Tyler is the best option for the current and future needs of the District. Agreement to move forward with Utility Billing, to align with the AMI/AMR project will be the major initial focus. Finance implementation will follow.

The ability for the members of the Steering Committee to focus on the larger picture, future vision, and accept compromise to move forward on the selection of Tyler highlights the commitment that staff have made on making changes and moving forward in the best interest of this District and its rate payers.

ERP software systems integrate a variety of business processes from financial management and customer service to human resources and operations. CCWD has used Springbrook as its ERP software since 1999. Springbrook has been upgraded several times, but has not released a comprehensive release software since the on-site server was replaced and version 7.15 was installed in 2013. The District's server is now at the end of its useful life, Springbrook version 7.15 no longer serves the District's finance and accounting needs, and new release 7.18 made available June 2020 was evaluated and compared to Tyler's current version. Furthermore, the finance database is currently separate from the utility billing database, which has proven problematic for workflow and requires significant manual work arounds to incorporate fiscal information from one into the other.

## **ERP Next Steps**

District staff have been aware of the need to replace the ERP server and either upgrade or replace the software for the last couple years. Staff have been researching replacement options over the last eight months and are now ready to move to implementation of a new ERP system to replace the current version of Springbrook.

There are several ERP software options, but Tyler is the only one besides Springbrook that offers all of the functionality the District needs, so the options were narrowed down early on to either upgrade Springbrook or switch to Tyler.

## Implementation

The ERP software discussion and ultimate decision was not just about staying with our current software system or moving to a different software system. It was identifying why we need to change, why our current system (technical or physical) is not working, why our customers are feeling frustrated, why staff are feeling frustrated, and why we can't keep things as they have been. In order to provide for inclusiveness, we formed a steering committee made up of staff and management from different departments to give voice and productive discussions to answer these questions, identify opportunities and challenges, and implement necessary changes in a healthy, collaborative, and effective way.

Migrating an ERP system impacts all aspects of our business practices. An ERP implementation is difficult but not impossible. It will require significant effort and input from every member of the steering committee and from all staff members who utilize the ERP software. Identifying the benefits of integration (and what that means), business process automation/control, modern features, ensuring necessary information is integrated in the system, ensuring end users effectively use the system, and establishing ease of use are all critical parts of this project.

Staff communicated that this effort will be tremendous and need full District support and an understanding that while this process is underway, patience and assistance is going to be key from everyone. The end result will be a more effective workflow, better customer service (internal and external), better reporting capability, and improved management of our processes, assets, and communications overall.

The Steering Committee will continue to meet to address the following:

- Vision: Focus on business process
  - Through identification of goals. “Why are we doing this?” Adopt process improvements and best practices
- Plan: Project management and coordination is essential
  - Identify the project sponsor, project manager and, ensure adequate staffing and training is in place.
  - Document. Document. Document. This is a complex project that requires detailed organization and planning. Thorough documentation will be critical to identify problems early and implement solutions quickly.
- Scope.
  - Determine roles and requirements for responsive vendors and District staff.
  - Identify all affected business processes and develop implementation plans.
- Accountability. Track and monitor for quality outcomes

- Requirements tracing
- Testing
- Quality control and assurance

Our initial phase will be focused on Project Planning, Process Improvement, Documentation, Governance, Goals, Scope of Work, and Contract Finalization.

### **FINANCIAL CONSIDERATIONS:**

The costs for Tyler implementation were budgeted at \$97,780. Costs are as incurred and depend on the District's speed and effectiveness of moving through the implementation process for each module/business function.

The Modules that were included in this implementation are the Financial Management Suite (Core Financials, Purchasing, Fixed Assets, Project Accounting), Customer Relationship Management Suite (Misc. Accounts Receivable, Utility CIS System, Cashiering, Service Order API), Tyler Content Manager (Content Manager Standard Edition, Meeting Manager), Tyler Hosted Application (move to off premise hosting), Notifications and IVR for Utility Billing, Tyler U (cross functional online training).

Annual licensing for Tyler would be \$65,140, assuming that all models are implemented.

Questys will be decommissioned as part of this project, saving \$8,800 annually. OpenEdge, the preferred payment solution, would eliminate Paymentus and will reduce annual costs by \$2500-3600 annually in addition to real-time customer account information.

# Agenda Item

DATE: September 9, 2020  
TO: Board of Directors  
FROM: Rebecca Callen, Director of Administrative Services  
SUBJECT: Update Regarding the Municode District Project

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## **RECOMMENDED ACTION:**

Update for the District Municode Project.

## **SUMMARY:**

The District has struggled with having a centralized repository of all resolutions, ordinances, policies, and history of each. This poses an issue with quickly identifying and referring to the correct version across all aspects of the District's operations. Several discussions ensued regarding options for creating an internal repository, including self-hosting, utilizing existing software, and pursuing new alternatives to address all of the concerns identified.

Utilization of a software called Municode was selected as the most advantageous option to meet all of the District's needs. The proposal includes codification, supplementation (changes that occur after the initial implementation), and online code hosting services.

The Municode system is easy to use, easy to update, and will greatly improve the District's ability to manage and maintain the rules and regulations that we operate under, and this in turn creates a better customer experience.

Municode staff will assist the District with review of existing codes, identify which should be ordinance, versus which should be resolutions, ensure that they are free from internal conflicts and inconsistencies among other documents that we have, that they conform to the laws of the State of California, and are easily accessible in print and online to staff and citizens. Municode will also assist the District in creating a historical record of code changes to assist staff with version management.

Municode has over 69 years of experience and is the oldest and most trusted codifier in the nation. They currently provide codification services to over 4,000 municipalities through the US and host over 3,700 municipal codes online.

Currently, the District has been utilizing Questys which has operated as an archival tool. The District's version of Questys does not track versions of documents nor does it provide for a customer facing platform should the District choose to make the Codes public.

## **Implementation**

It is estimated to take 10-12 months and is based on 600-750 pages of documents.

## **FINANCIAL CONSIDERATIONS:**

The one-time project implementation costs are \$13,800 and was included as part of the 2020-21 Fiscal Year Operating Budget. The annual licensing costs are budgeted at \$1,195.

Questys is \$8,800 annually and is only being utilized for Resolutions, Ordinances, Board Agendas, and Packets. Staff have found it to be very difficult to use and has limited search capability. As part of the ERP project, the District is evaluating other options for Meeting Management to allow for more effective workflow, reduce staff time for preparation, publishing, and record retention related to regular Board meetings and committee meetings.

# Agenda Item

DATE: September 9, 2020  
TO: Board of Directors  
FROM: Brad Arnold, Water Resources Program Manager  
SUBJECT: Selection of Consultant to Develop 2020 Urban Water Management Plan Update

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## **RECOMMENDED ACTION:**

Receive and discuss information regarding the proposed selection of Woodard and Curran as the consultant to develop Calaveras County Water District's (CCWD) 2020 Urban Water Management Plan (UWMP) update, following a public post-and-bid process. Staff recommends the Board of Directors adopt the draft resolution, provided as Attachment A, to 'Authorize a Professional Services Agreement for the Preparation of the 2020 Urban Water Management Plan Update'.

## **SUMMARY:**

CCWD is required to submit an updated UWMP to the California Department of Water Resources (DWR) by July 1, 2021 (Due Date). The UWMP document will contain info on CCWD's water supply, water use, water conservation programs, water shortage contingency planning, and water supply reliability in Calaveras County under different planning scenarios. Additionally, the updated 2020 UWMP must incorporate new data and info as required by legislative changes and DWR since the last update from 2015.

CCWD released a Request for Proposals (RFP) on July 6, 2020 to solicit proposals from qualified consultants to develop CCWD's 2020 UWMP update (RFP #60-2021-01). The RFP was posted using the Public Purchase bid notification system, and closed 40-days later on August 14, 2020 (Closure Date). The basis for this consultant request was recognition of the significant time and staffing commitments, as well as expertise, necessary to update the UWMP to fulfill all requirements. To address this concern, the RFP defined a 'Scope of Work' which identified the needs for extensive data collecting (e.g., supply and demand projections, water loss audits, water shortage contingency planning), updates to existing UWMP content since 2015, and the development of new UWMP info (e.g., conservation reporting, supply risk assessments). Several of these considerations were highlighted in a UWMP Agenda Item and presentation provided to the Board of Directors on June 24, 2020.

Eight proposals were received by CCWD in response to the RFP by the Closure Date. The proposal packages were each reviewed per the RFP-defined 'Selection Process', evaluated for proposal organization, project understanding and approach, schedule, total fee, and familiarity with Calaveras County and local resources. CCWD staff developed a 'scoring matrix' to detail these criteria and rank the most-qualified consultants. Woodard and Curran received the highest score from staff's evaluation and was therefore selected

as the recommended consultant for development of CCWD's 2020 UWMP update. Their proposal clearly highlighted their knowledge of the new UWMP legislative requirements and provided details suggesting the highest likelihood of developing a compliant UWMP update without additional costs or CCWD staff requirements. Note that RMC Water and Environment, who was acquired by Woodard and Curran in 2016, also developed CCWD's last UWMP update in 2015. Their proposal Scope of Work included a 'Not to Exceed' total cost of \$108,733 and guaranteed adherence to key deadlines, including a March 2021 draft document and final submission to DWR by the Due Date. Copies of a draft 'Award of Contract' notice and CCWD's Professional Services Agreement (Agreement) to be provided to Woodard and Curran for this work are provided as Attachments B and C, respectively.

A majority of the 2020 UWMP update contents will be developed by this consultant, however, CCWD staff will be providing the methodology for the new 'Water Supply and Demand Assessments' (WSDAs) component – a formulaic approach to assess water supplies and demands for drought planning and supply reliability, required by DWR. The WSDAs are expected to be annually submitted by CCWD to DWR, starting with first due by July 2022, following the methodology provided by this component of the 2020 UWMP update. Woodard and Curran would review CCWD's WSDA components and will assist in validation of this content for submission with the UWMP.

With Board of Directors approval, next steps would include execution of the Agreement with Woodard and Curran and a formal 'Notice to Proceed', anticipated prior to September 18, 2020 per the RFP schedule. The first project checkpoint is release of the DWR Guidebook for 2020 UWMP Updates, anticipated during fall 2020, which will detail DWR's requirements for UWMP contents and their review process. Staff will update the Board of Directors as new info is received and as progress is made on the 2020 UWMP Update.

#### **FINANCIAL CONSIDERATIONS:**

Woodard and Curran's proposal for development of CCWD's 2020 UWMP update, to fulfill post-2015 legislative changes and DWR requirements by July 1, 2021, includes a 'Not to Exceed' total cost of \$108,733. This cost falls below the \$120,000 budgeted in FY 2020-21 by CCWD for the 2020 UWMP update effort (Water Resources Dept. 60, Fund 61450 'Mandated Plans' line-item). The Board of Directors approved the FY 2020-21 budget on June 24, 2020 (Resolution No. 2020-44).

*Attachments:*

- A) Draft Board of Directors Resolution*
- B) Award of Contract Notice*
- C) CCWD Professional Services Agreement*

**RESOLUTION NO. 2020-**

**A RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE CALAVERAS COUNTY WATER DISTRICT**

**AUTHORIZE A PROFESSIONAL SERVICES AGREEMENT FOR THE  
PREPARATION OF THE 2020 URBAN WATER MANAGEMENT PLAN UPDATE**

**WHEREAS**, Urban Water Management Plans (UWMPs) are prepared by urban water suppliers every five years to support long-term resource planning to ensure that adequate water supplies are available to meet existing and future water needs; and

**WHEREAS**, the California Urban Water Management Planning Act (Act), as codified in Water Code §10610-10657 and §10608, requires that every urban water supplier that either provides over 3,000 acre-feet of water annually, or serves more than 3,000 urban connections is required to submit an UWMP; and

**WHEREAS**, the 2020 UWMP update must be prepared and submitted to the California Department of Water Resources (DWR) by July 1, 2021, in full compliance with the Act and DWR's 2020 Urban Water Management Plan Guidebook for Water Suppliers; and

**WHEREAS**, funding for the 2020 UWMP update has been budgeted within the District's Fiscal Year 2020-21 budget for the Water Resources Program, adopted by the Board of Directors per Resolution No. 2020-44, on June 24, 2020; and

**WHEREAS**, the District posted a Request for Proposals (RFP) on July 6, 2020 to solicit proposals from qualified consultants to develop the District's 2020 UWMP update, which closed on August 14, 2020 (RFP #60-2021-01).

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Directors of CALAVERAS COUNTY WATER DISTRICT that the proposal by Woodard and Curran, Inc. for professional services to prepare the District's 2020 Urban Water Management Plan Update, attached hereto and made a part hereof.

**BE IT FURTHER RESOLVED** that the Board of Directors hereby authorizes the General Manager to execute said Professional Services Agreement with Woodard and Curran, Inc. for the scope and fee not to exceed the amount of \$108,733.

**PASSED AND ADOPTED** this 9<sup>th</sup> day of September , 2020 by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

CALAVERAS COUNTY WATER DISTRICT

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Bertha Underhill, President  
Board of Directors

ATTEST:

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Rebecca Hitchcock  
Clerk to the Board



**[DRAFT]**

Katie Cole  
Water Resources Planner  
Woodard & Curran, Inc.  
1010 Montgomery Street, Suite 1850  
San Francisco, CA 94104

Subject: Woodard and Curran selected to Develop 2020 Urban Water Management Plan Update

Dear Ms. Cole,

We are pleased to inform you that Woodard and Curran, Inc. (Woodard & Curran) has been selected to provide professional services for Calaveras County Water District (CCWD) for the preparation of CCWD's 2020 Urban Water Management Plan (UWMP) update. Consistent with the Scope of Work provided in your proposal response to CCWD's Request for Proposals (RFP) #60-2021-01 submitted on August 14, 2020, and subsequent revision to the proposed fee provided on August 28, 2020, CCWD's Board of Directors has approved the execution of a Professional Services Agreement (Agreement) for a total not-to-exceed amount of \$108,733. A copy of the Agreement for Woodard and Curran's execution is attached to this letter.

Thank you for the interest in CCWD's 2020 UWMP update effort, and for submitting a thorough and well-defined proposal. CCWD looks forward to working with Woodard and Curran on developing the updated UWMP and incorporating the new legislative requirements to comply with the California Department of Water Resources' (DWR) pending 2020 Guidebook for Urban Water Suppliers. We believe our work with Woodard and Curran will put us in the best position to satisfy DWR's requirements and the July 1, 2021 submission deadline for the 2020 update.

If you have any questions, please contact Brad Arnold, CCWD's Water Resources Program Manager at (209) 754-3094 or via e-mail at [brada@ccwd.org](mailto:brada@ccwd.org).

Sincerely,

Michael Minkler  
General Manager  
Calaveras County Water District

CC: Brad Arnold – Water Resources Program Manager  
Rebecca Callen – Director of Administrative Services

**Professional Services Agreement  
with  
Calaveras County Water District  
PO Box 846 – 120 Toma Court  
San Andreas, CA 95249  
Telephone 209-754-3543 Fax 209-754-1120**

*The terms on subsequent pages are incorporated in this document and will constitute a part of the agreement between the parties when signed.*

**To:** Woodard & Curran, Inc.  
101 Montgomery Street, Suite 1850, San Francisco, CA 94104

**Phone:** (415) 321-3400

**Fax:** (415) 321-3401

**Date:** \_\_\_\_\_

**Agreement No.** \_\_\_\_\_

**Purchase Order No.** \_\_\_\_\_

**The undersigned Consultant offers to furnish the following:** Provide the Calaveras County Water District (District) with professional services related to the 2020 Urban Water Management Plan Update, in accordance with the Scope of Work provided in District RFP #60-2021-01 and attached hereto and incorporated herein as Attachment A.

**Contract Price:** Not to exceed **\$108,733.00**, at the rates specified in Attachment B.

**Completion Date:** Completed by **July 1, 2021**.

For Technical Direction by the District: District project manager contact info below:

Brad Arnold, Water Resources Program Manager  
Phone: (209) 754-3094, E-mail: brada@ccwd.org

For Direction by Consultant: Consultant project manager contact info below:

Katie Cole, Water Resources Planner, Woodard & Curran  
Phone: (415) 321-3420, E-mail: kcole@woodardcurran.com

**Accepted:** Calaveras County Water District

**Consultant:** Woodard & Curran, Inc.

By: \_\_\_\_\_  
Michael Minkler, General Manager

By: \_\_\_\_\_  
Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_, 2020

Date: \_\_\_\_\_, 2020

**Attachment C – CCWD Professional Services Agreement  
Sept. 9, 2020 UWMP Agenda Item**

Consultant agrees with Calaveras County Water District (District) that:

- a. Hold-Harmless. When the law establishes a professional standard of care for the Consultant's services, to the fullest extent permitted by law, Consultant will defend, indemnify and hold harmless Calaveras County Water District, its directors, officers, employees, and authorized volunteers from all claims and demands of all persons that arise out of, pertain to, or relate to the Consultant's negligence, recklessness, or willful misconduct in the performance (or actual or alleged non-performance) of the work under this agreement. Consultant shall defend itself against any and all liabilities, claims, losses, damages, and costs arising out of or alleged to arise out of Consultant's performance or non-performance of the work hereunder, and shall not tender such claims to Calaveras County Water District nor to its directors, officers, employees, or authorized volunteers, for defense or indemnity.
- b. Indemnification. Other than in the performance of professional services, to the fullest extent permitted by law, Consultant will defend, indemnify and hold harmless Calaveras County Water District, its directors, officers, employees and authorized volunteers from all claims and demands of all persons arising out the negligent or reckless performance of the work or furnishing of materials; including but not limited to, claims by the Consultant or Consultant's employees for damages to persons or property except for the sole negligence or willful misconduct or active negligence of Calaveras County Water District, its directors, officers, employees, or authorized volunteers.
- d. Workers Compensation. By his/her signature hereunder, Consultant certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and that Consultant will comply with such provisions before commencing the performance of the professional services under this agreement. Consultant and sub-Consultants will keep workers' compensation insurance for their employees in effect during all work covered by this agreement. A sole-proprietor exempt from the requirements to provide such coverage, with no employees or using no sub consultants, shall so certify on the form provided by the District.
- e. Professional Liability. Consultant will file with Calaveras County Water District, before beginning professional services, a certificate of insurance satisfactory to the Calaveras County Water District evidencing professional liability coverage of not less than \$1,000,000 per claim and annual aggregate, requiring 30 days' notice of cancellation (10 days for non-payment of premium) to Calaveras County Water District. Coverage is to be placed with a carrier with an A.M. Best rating of no less than A-: VII, or equivalent, or as otherwise approved by Calaveras County Water District. The retroactive date (if any) is to be no later than the effective date of this agreement. Consultant shall maintain such coverage continuously for a period of at least three years after the completion of the contract work. Consultant shall purchase a one-year extended reporting period i) if the retroactive date is advanced past the effective date of this Agreement; ii) if the policy is canceled or not renewed; or iii) if the policy is replaced by another claims-made policy with a retroactive date subsequent to the effective date of this Agreement. In the event that the Consultant employs other consultants (sub-consultants) as part of the work covered by this agreement, it shall be the Consultant's responsibility to require and confirm that each sub-consultant meets the minimum insurance requirements specified above.

**Attachment C – CCWD Professional Services Agreement  
Sept. 9, 2020 UWMP Agenda Item**

- f. General Liability. Consultant will file with Calaveras County Water District, before beginning professional services, certificates of insurance satisfactory to Calaveras County Water District evidencing general liability coverage of not less than \$1,000,000 per occurrence (\$2,000,000 general and products-completed operations aggregate (if used)) for bodily injury, personal injury and property damage; auto liability of at least \$1,000,000 for bodily injury and property damage each accident limit; workers' compensation (statutory limits) and employer's liability (\$1,000,000) (if applicable); requiring 30 days (10 days for non-payment of premium) notice of cancellation to Calaveras County Water District. The general liability coverage is to state or be endorsed to state "such insurance shall be primary and any insurance, self-insurance or other coverage maintained by Calaveras County Water District, its directors, officers, employees, or authorized volunteers shall not contribute to it". The general liability coverage shall give Calaveras County Water District, its directors, officers, employees, and authorized volunteers insured status using ISO endorsement CG2010, CG2033, or equivalent. Coverage is to be placed with a carrier with an A.M. Best rating of no less than A-:VII, or equivalent, or as otherwise approved by Calaveras County Water District. In the event that the Consultant employs other consultants (sub-consultants) as part of the work covered by this agreement, it shall be the Consultant's responsibility to require and confirm that each sub-consultant meets the minimum insurance requirements specified above.
- g. Insurance Notification. If any of the required coverages expire during the term of this agreement, the Consultant shall deliver the renewal certificate(s) including the general liability additional insured endorsement to Calaveras County Water District at least ten (10) days prior to the expiration date.
- h. Direction/Orders. Consultant shall not accept direction or orders from any person other than the General Manager or the person(s) whose name(s) is (are) inserted on Page 1 as "other authorized representative(s)," subject to the limitations of paragraph "Changes", below. An Amendment to this Agreement will be issued in writing, incorporating Consultant's scope and mutually agreed-upon price and estimated schedule for completion. A fully executed Revised Purchase Order incorporating the additional/changed scope and price, shall also be issued, with a copy provided to Consultant.
- i. Invoices. Consultant shall submit to the District monthly invoices for time and expenses subject to the contract limitation. Invoices shall reference the Purchase Order and project number shown on the purchase order form. Each invoice shall also include the total invoiced and paid to date, and the remainder outstanding. Invoices received without this information shall be returned to Consultant unpaid, for revision and re-submittal. Invoices shall be submitted to:
- Calaveras County Water District  
PO Box 846  
San Andreas, CA 95249
- j. Payment. Payment, unless otherwise specified, is to be 30 days after receipt of an invoice deemed acceptable in accordance with paragraph h., above, by Calaveras County Water District and its acceptance in meeting the criteria of this Agreement.
- k. Permits. Permits required by governmental authorities will be obtained at Consultant's expense, and Consultant will comply with applicable local, state, and federal regulations and statutes including Cal/OSHA requirements.

**Attachment C – CCWD Professional Services Agreement  
Sept. 9, 2020 UWMP Agenda Item**

- l. Changes. Any change in the scope of the professional services to be done, method of performance, nature of materials or price thereof, or to any other matter materially affecting the performance or nature of the professional services will not be paid for or accepted unless such change, addition or deletion is approved in advance, in writing by a Agreement Amendment executed by the General Manager of Calaveras County Water District.
- m. Assignment. Consultant shall not assign, delegate, sublet, or transfer any interest in or duty under this Agreement without the express prior written consent of the Calaveras County Water District.
- n. Termination. Either party may terminate this agreement upon ten (10) calendar days' written notice to the other, and identifying the Consultant's final work date. In the case of such termination Consultant shall provide the Calaveras County Water District a final invoice for work performed and expenses incurred prior to termination within 30 calendar days following the final work date provided in the notice of termination. No additional invoices will be accepted nor charges paid by the Calaveras County Water District after this 30-day final invoicing period.
- o. Products. All work products resulting from this Agreement, including documents and reports, drawings, models, specifications, computer drawings and other electronic expression, and the like that may be drafted, assembled, compiled, or obtained by Consultant during the performance of assigned tasks, and delivered to the Calaveras County Water District as Consultant's work product shall be the property of the Calaveras County Water District for its exclusive use.
- p. Provided Information. Calaveras County Water District shall furnish the Consultant with drawings, specifications and schedules necessary to perform the work.
- q. Third Parties. The services to be performed by Consultant are intended solely for the benefit of the Calaveras County Water District. No person or entity not a signatory to this Agreement shall be entitled to rely on the Consultant's performance of its services hereunder, and no right to assert a claim against the Consultant by assignment of indemnity rights or otherwise shall accrue to a third party as a result of this Agreement or the performance of the Consultant's services hereunder. Notwithstanding the foregoing Consultant understands and agrees that Calaveras County Water District will be submitting the report to various State and/or Federal agencies for their review. Consultant agrees that the agencies receiving the report may and will rely on its accuracy. Moreover, this section in no way impairs Calaveras County Water District's rights to indemnity from Consultant as provided in this agreement, including any claims by third parties, whether or not, such claims are based upon the services provided by Consultant pursuant to this Agreement.
- r. Record Retention. Consultant shall retain all required records for three years after the Calaveras County Water District makes final payments and all other pending matters are closed.

**Attachments [Included with Executed Version]**

A – Professional Scope of Services

B – Consultant Rates and Charges

# Agenda Item

DATE: September 9, 2020

TO: Michael Minkler, General Manager

FROM: Bob Godwin P.E., Senior Civil Engineer

SUBJECT: Discussion/Action regarding Acceptance of the Jenny Lind (Kirby, Gabor, and Garner) Service Line Replacement Project, CIP No. 11066G

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## RECOMMENDED ACTION:

Motion \_\_\_\_\_/\_\_\_\_\_ adopting Resolution No. 2020 - \_\_ accepting the Jenny Lind (Kirby, Gabor, Garner) Service Line Replacement Project, CIP No.11066G, as constructed by T&S Intermodal Maintenance, Inc. dba T&S West, and directing a Notice of Completion to be recorded with the Calaveras County Recorder.

## BACKGROUND:

T&S West has completed the construction of the Jenny Lind (Kirby, Gabor, Garner) Service Lateral Replacement Project, CIP No. 11066G. Upon final acceptance of the project by the Board and recordation of the Notice of Completion, the effective date of the warranty bond and notification of final payment will commence. The release of all remaining retention and final payment will be made thirty (30) days after recording the Notice of Completion.

## FINANCIAL CONSIDERATIONS:

The final contract amount including change orders is shown below.

Bid Amount	\$ 460,800.00
Contract Change Orders	\$ 46,729.12
<b>FINAL CONTRACT AMOUNT</b>	<b>\$ 507,529.12</b>

Attachments: A) *Notice of Completion.*  
B) *Resolution 2020-\_\_ Awarding Construction Contract for Jenny Lind (Kirby, Gabor, Garner) Service Lateral Replacement Project, CIP No.11066G.*

Recorded at the Request of  
and Return to:

CALAVERAS COUNTY WATER DISTRICT  
POST OFFICE BOX 846  
SAN ANDREAS, CA 95249

## NOTICE OF COMPLETION

**OWNER:** CALAVERAS COUNTY WATER DISTRICT  
Post Office Box 846  
San Andreas, CA 95249

**PROJECT:** JENNY LIND (KIRBY, GABOR, GARNER) SERVICE LINE  
REPLACEMENT PROJECT, CIP NO. 11066G  
Plans and Specifications dated July 2019  
Contract dated October 4, 2019  
Resolution No. 2019-65, September 9, 2020

**CONTRACTOR:** T&S Intermodal Maintenance, Inc. dba T&S West  
Post Office Box 1592  
Linden, CA 95236

**NOTICE IS HEREBY GIVEN**, pursuant to Section 3093 of the Civil Code of the State of California, that I, Charles Palmer, P.E., District Engineer for the JENNY LIND (KIRBY, GABOR, GARNER) SERVICE LINE REPLACEMENT PROJECT, CIP NO. 11066G, CALAVERAS COUNTY WATER DISTRICT, hereby certify that the Project described above was constructed to the best of my knowledge in accordance with the plans, specifications, and any modifications thereto. The construction of improvements was completed on August 21, 2020.

Said work consisted of all labor, materials, equipment, and services for construction of approximately eight-five (85) potable water service laterals along Kirby Street., Gabor Street, and Garner Place in Rancho Calaveras. This work included removing and replacing existing services and installing new services with tap saddles, corporation stops, tubing, and meter boxes. Prior to completion, the right-of-way, project area, paving and private property was restored to satisfactory condition.

DATED: September \_\_ , 2020

CALAVERAS COUNTY WATER DISTRICT

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Charles Palmer, P.E.  
District Engineer

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA     )  
  ) ss.  
COUNTY OF CALAVERAS   )

Charles Palmer, being first duly sworn, deposes and says:

I am the District Engineer for CALAVERAS COUNTY WATER DISTRICT, County of Calaveras, California, for the Jenny Lind (Kirby Gabor, Garner) Service Lateral Replacement Project, CIP No. 11066G; that I have read the foregoing Notice of Completion and that the facts therein stated are true of my own knowledge except as to matters therein stated upon information and belief, and as to such matters I believe them to be true.

\_\_\_\_\_  
Charles Palmer, P.E.  
District Engineer

SUBSCRIBED AND SWORN to before me on September \_\_, 2020, by Charles Palmer, who proved to me on the basis of satisfactory evidence to be the person who appeared before me.

\_\_\_\_\_  
Rebecca Hitchcock, Notary Public  
Commission Expires February 24, 2023



**RESOLUTION NO. 2020 -**

**A RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE CALAVERAS COUNTY WATER DISTRICT**

**COMPLETION OF THE JENNY LIND (KIRBY, GABOR, GARNER)  
SERVICE LINE REPLACEMENT PROJECT, CIP NO.11066G**

**WHEREAS**, the District Engineer of the Calaveras County Water District has executed Notice of Completion for the JENNY LIND (KIRBY, GABOR, GARNER) SERVICE LINE REPLACEMENT PROJECT, CIP NO. 11066G, verifying that all work is completed pursuant to the contracts between the CALAVERAS COUNTY WATER DISTRICT and T&S Intermodal Maintenance, Inc. dba T&S WEST, and;

**WHEREAS**, it appears to the satisfaction of this Board that said work under the subject Construction Agreement has been fully completed and performed as required in said Agreement and the plans and specifications therein referred.

**NOW, THEREFORE, BE IT RESOLVED**, by the Board of Directors of CALAVERAS COUNTY WATER DISTRICT that:

1. Acceptance of completion of said work is hereby made and ordered.
2. The Clerk to the Board of Calaveras County Water District is hereby directed to record with the Calaveras County Recorder the Notice of Completion, pursuant to Section 3093 of the Civil Code of the State of California.

**PASSED AND ADOPTED** this 9th day of September, 2020 by the following vote:

**AYES:**

**NOES:**

**ABSTAIN:**

**ABSENT:**

CALAVERAS COUNTY WATER DISTRICT

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Bertha Underhill, President  
Board of Directors

ATTEST

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Rebecca Hitchcock  
Clerk to the Board

# Agenda Item

DATE: September 9, 2020  
TO: Michael Minkler, General Manager  
FROM: Damon Wyckoff, Director of Operations  
RE: Report on the August 2020 Operations Department

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## **RECOMMENDED ACTION:**

Receive Report on the Operations Department Report for Divisions 1 through 5.

## **SUMMARY:**

Attached is the monthly Operations Department Report for August 2020. This report will review the operational status and work completed by departmental administration and each of the five Divisions. The report will cover the following:

- Administration
- Water treatment plants
- Wastewater treatment plants
- Distribution
- Collections
- Construction
- Electrical
- Mechanical

Staff will be present the report to the Board of Directors and will available for questions

## **FINANCIAL CONSIDERATIONS:**

None.

*Attachment: August 2020 Operations Department Report for Division 1 through 5*

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# Operations Department Report

August 1<sup>st</sup> 2020 through August 31<sup>st</sup> 2020

## **Director of Operations:**

1. On-going work related to bringing the District's newly hired Construction & Maintenance Manager on-board and up-to-speed RE various plans, objectives, work-efforts, etc.
2. Worked with the District's Construction/Maintenance Manager to provide both technical and administrative assistance on multiple boil water advisories and associated repair efforts related to the District's Reach 1 Pipeline Replacement Project and Techite Pipeline Replacement Project
3. With the help of the Engineering Department, initiated a Cultural Assessment of the District's Bear Creek Diversion with Dudek Consulting as it relates to the District's Bear Creek Debris Removal Project
4. Participated in the hiring of the Jenny Lind Distribution System's Senior Distribution System Worker
5. Participated in the hiring of the District's Collections Crew Supervisor
6. Participated in ACWA's Water Quality Committee Meeting
7. On-going participation in the District's Business Process Steering Committee
8. Facilitated a Mobile MMS Training Session for District Staff – very productive
9. On-going review and optimization of the District's PG&E PSPS Emergency Action Plan (EAP)
10. Held a District Supervisor Meeting – Reviewed the District's Purchasing Policy, On-Call procedures, and discussed various Operations-based topics and issues

## **Administrative Technician:**

1. July Spray Reporting
2. Maintained Field Calendar
3. Received All USA North Line 811 Locates – Handled Associated Calls
4. 278 District Line Locates – 08/01 – 08/28
5. Facilitated Employee Reimbursements & Certificate Renewals
6. Field Training Course Ordering/Registrations
7. Process Purchase Order Batches
8. On Call Reminders, Transfers, Logs
9. Electronic Lab Report Filing
10. Organizing and Archiving Operations Department Documents
11. Safety Tailgate Meetings: Create, Track, & Archive
12. Continued Work Efforts for 2020 Backflow Program
13. Assisted with Ops Board Meeting Power Point Presentation
14. Viewed Webinars for both Tyler and Springbrook software companies
15. Attended Various Meetings - Business Process Steering Committee, Supervisor Meeting, Board Meetings, AMI/AMR, etc.
16. Miscellaneous Administrative Functions

## **Plant Operations Manager:**

1. Completed review of Monthly and annual water reports and submitted them to the State
2. Completed review of Monthly wastewater reports and submitted them to the State

3. On-going work associated with facilitating the installation of wildfire monitoring cameras at District facilities
4. On-going work to coordinate and implement the replacement of the existing filters at the Indian Rock Village WWTP
5. Coordinated pipeline sampling for portions of the newly constructed Techite Pipeline
6. Coordination of Treatment facility coverage to address illnesses and time-off requests
7. Reviewed Multiple Fire Sprinkler Applications from Contractors for Title 17 compliance
8. On-going work to facilitate timber harvest operation at the Arnold WWTP
9. Installed chemical dosing pumps at three lift stations now dosing Caustic Soda for odor control and treatment enhancement
10. On-going work with EBMUD related to providing information related to the Middle Fork of the Mokelumne River for stream gaging.
11. On-going work associated with the operation of the Jenny Lind WTP Actiflo Pre-Treatment System

### **Construction and Maintenance Manager:**

1. Started new position, (lots of moving, setting up and getting settled).
2. Walked the Kirby/Gabor/Garner project to go over punch list items with District Inspectors.
3. Assisted members of the Jenny Lind Distribution Crew with a hand dig leak in JL.
4. Met with the developer and home owners in the La Cobre Mina subdivision in Copperopolis about sewer odors coming out of manholes. Positive and productive meeting
5. Assisted the Director of Operations with developing and distributing Boil Water Advisories/Press release and notification to the state for leak near Hunters WTP for Ebbetts Pass Distribution.
6. Assisted the Ebbetts Pass Distribution Crew with troubleshooting low pressure in system (Hathaway Pines) after shutdown.
7. Also worked on getting Boil Water advisory lifted notices together and passed them out in the Pass.
8. Met with homeowner and Collection and Construction crews at 7019 Elizabeth Ct regarding septic tank install.
9. Developed a quote for manhole relining in La Cobre Mina.
10. Began the review of the District's SSMP and marked for necessary updates.
11. Field meet with Mozingo, KASL, and District Staff RE bypass piping for the Reach 1 Project.
12. Met with Archeologist in West Point to facilitate their completion of a Cultural Study at Bear Creek Diversion.
13. Reviewed Boil Water after action work efforts with the Director of Operations
14. Went up to the Pass to assist Distribution with low level at MM13 tank, took float valve off and put in a straight 90 for more flow.
15. Conducted interviews for the Senior Distribution Worker position in Jenny Lind
16. Met with the District's Collections Crew Supervisor at the Huckleberry LS to plan out caustic pump location.
17. Attended Supervisor 101 webinar.
18. Weekend work associated with making Boil Water Advisory notices passing them out on Meko for a main line leak. Checked on guys repairing leak and home at 5213 Meko for damage (none).
19. On-going work associated with pressure maps and researching master plans for JL service area.
20. Attended AWWA Water Education Seminar.
21. Worked on updating Construction schedule spreadsheet.
22. Meet on site with The Ebbetts Pass Distribution Supervisor and District Inspector about mainline leak at Hwy 4 & Horseshoe Dr.
23. Reviewed the District's PSPS Action Plan (Field Verification of all fuel cells and operation in the Pass)
24. Conducted interviews for Collections Trainee position.
25. Met with the Mechanical Supervisor onsite about possible new generator location for Hunters WTP.
26. Researched the Reed's Turnpike line and pump station.

### **Purchasing Agent:**

1. Completed PO and AP Entry's.
2. Finalized order for new Kenworth Dumptruck
3. Ordered Jar Test Device for the Jenny Lind WTP to optimize the operation of the Actiflo Pre-Treatment System

4. Reviewed Multiple quotes for budgeted Jetter Trailer and discussed course of action with the C&M Manager and the Collections Crew
5. Obtained multiple generator quotes and worked to develop a recommendation for purchase
6. On-going conversation with analytical equipment vendors in the effort to receive a quote for Treatment Plant Turbidimeter replacements (budgeted)
7. Followed up on quotes for manhole liners and lids and worked to purchase for the Collections Crew
8. Assessed 35kw generator for purchase with the Mechanical Department Supervisor and made purchase
9. Obtained and delivered additional piping and ancillary equipment for the Sawmill PRV installation project
10. Worked to obtain the services of a scrapper for the La Contenta Maintenance Shop and Wastewater Treatment Plant Area
11. Worked to obtain parts from various vendors, drove to warehouses to deliver, and obtained additional order requests for parts and material from Distribution Staff
12. Reviewed Pricing for lift station floats
13. Called for fuel deliveries for remote sites
14. Began developing list of surplus equipment
15. Coordinated delivery and rebuild of pump for the Saddle Creek Lift Station
16. Ordered Auma Actuators for the Vallecito WWTP – critical component
17. Purchased replacement motor for a pump at the lakeside lift station – Forest Meadows

## **Water Treatment Plants:**

### **Copper Cove Water Treatment Plant:**

1. Operations as usual
2. Ozone Generator #1 Failure – working to obtain parts and repair
3. Plugged extensive leak in the Tank B Redwood Tank

### **Hunter's (Ebbett's Pass) Water Treatment Plant:**

1. Operations as usual

### **Jenny Lind Water Treatment Plant:**

1. Operations as usual
2. Continued training of two new operators
3. Continued test run of the Pre-Treatment System
4. Sludge Thickener Tank Cleaned
5. Backwash Ponds Cleaned

### **Sheep Ranch Water Treatment Plant:**

1. Operations as usual

### **Wallace Lake Estates Well System:**

1. Operations as usual

### **West Point Water Treatment Plant:**

1. Operations by committee to accommodate the fact that the District's West Point System Operator is out on leave
2. Extensive grubbing and brushing of the Bear Creek Diversion Road
3. Rehab of the Bear Creek Diversion Road
4. Rehab of the Valentine Hill Road
5. Backwash Ponds cleaned

## **Wastewater Treatment Plants:**

### **Arnold Wastewater Treatment Plant:**

1. Operations as usual
2. Logging outfit masticating brush and harvesting timber

### **Copper Cove Wastewater Treatment Plant:**

1. Routine operations as required by permit.
2. Ponds slowly dropping due to the operation of the Reclamation Plant

3. Working to obtain a quote to replace the slide gate on Pond 6

**Copper Cove Wastewater Reclamation Plant:**

1. UV System lamp and sleeve replacement on-going
2. Replaced SC-200 on UVT Sensor with new unit, eliminating OT and Plant Shutdowns

**Country House Wastewater Facility:**

1. Operations as usual

**Forest Meadows Wastewater Treatment Plant:**

1. Operations as usual
2. Extensive grubbing and brushing of the Forest Meadows Golf Course Pond

**Indian Rock Vineyards Wastewater Facility:**

1. Operations as Usual - Weekly inspection of facility. Switched leach fields, tested pumps, changed chart, weekly reads for state compliance
2. On-going work with the District's Engineering Consultant on plan completion for the above-ground filter installation project

**La Contenta Wastewater Treatment Plant:**

1. Operations as usual
2. Began Dosing Caustic Soda at the Huckleberry Lift Station

**Mountain Retreat / Sequoia Woods Wastewater Facility:**

1. Operations as usual

**Six Mile Wastewater Collection System:**

1. Monthly reads taken and report submitted to the City of Angels Camp

**Southworth Wastewater Treatment Plant:**

1. Operations as usual

**Vallecito / Douglas Flat Wastewater Treatment Plant:**

1. Operations as usual

**West Point Wastewater Treatment Plant:**

1. Operations as usual
2. Engineering Site visit for Consolidation Project Design RFP
3. Repair on solenoid for sprinkler in the #4 Sprayfield

**Wilseyville Wastewater Facility:**

1. Operations as usual

**Distribution:**

**Copperopolis Distribution System:**

**SERVICE LINE WORK**

1. Copper Cove 1" 3gpm
2. Quail Creek 1" 10gpm
3. Hoko 1" 7gpm
4. Hoko 1" 3gpm
5. Duchess 1" 4gpm
6. Duchess 1" 5gpm
7. Foothill 1" 4gpm
8. 227 Pheasant Run 1" 3gpm
9. Sandy Bar 1" 5gpm
10. Quail Meadow 1" 4gpm
11. Quail Meadow 1" 4gpm
12. Brett Hart 1" 4gpm
13. Mother Shipton 1" 6gpm
14. Oak Hurst 1" 5gpm

**MAIN LINE WORK**

1. None at this time

**Additional Work**

1. USA's
2. Flushed 46,218 gals.
3. PRV Maintenance
4. 45 valves exercised
5. meter replacements
6. Facilitated closeout of the Bow Drive Emergency Water Main replacement project – coordinated final paving, striping, and County inspection
7. Completed multiple line-locates for Cal Tel's project (new fiber line installation)

**Ebbett's Pass Distribution System:**

**SERVICE LINE WORK**

1. Tipton House – 5 gpm
2. Cheyenne – 5 gpm
3. Dardanelle Vista – 5 gpm
4. Dardanelle Vista – 5 gpm

**MAIN LINE WORK**

1. Northwood Drive – 50 gpm
2. US Forest Service Road – Across from Hunter Dam Rd – 200 gpm
3. Reach 1 – 100 gpm

**Additional Work**

1. Customer Service Work Orders
2. USA Line Locates
3. Multiple Reach 1 shut-downs to facilitate the Project's implementation

**Jenny Lind Distribution System:**

**SERVICE LINE WORK**

1. O'Reilly St
2. O'Reilly St
3. Baldwin St
4. Partridge Dr
5. Stinson View Rd
6. Owens Way
7. Hartvickson Ln
8. Bartelink Dr
9. Demin Ct
10. Thornicroft Dr
11. Seigel St
12. Baldwin St
13. Holmquist Ln
14. Baldwin St
15. Baldwin St
16. Hedgepeth Rd
17. Pardini Pl
18. Demin Ct
19. Schuman Ct
20. Crosby Ct
21. Thornicroft Dr
22. Antonovich Rd
23. McAtee St
24. Hautley Ln
25. Dunn Rd
26. Dunn Rd
27. Hanley Dr
28. Hautley
29. Sparrowk
30. Owens
31. Hanley

### **MAIN LINE WORK**

1. Dunn Rd

### **ADDITIONAL WORK**

1. Troubleshoot Pressure issues on DaLee Court – Identified PRV issues and worked to resolve
2. Service Requests for the JL area
3. USA line locates for JL area
4. Weekly tank and pump station checks
5. Replaced ARV, pressure gauge, and CRD on the Main PRV on Usher
6. Replaced the high-pressure control line on the bypass PRV on Jenny Lind Rd

## **West Point Distribution System:**

### **SERVICE LINE WORK**

1. West Point Pioneer
2. Barney Way

### **MAIN LINE WORK**

1. Charles Street
2. Pioneer
3. Winton Rd

### **ADDITIONAL WORK**

1. 40 USA Line locates
2. 4 Service Requests ranging from Read/Leave Ons, Restores, Pressure issues, Re-reads.
3. Attended meeting on Barney Way to review Asphalt Patch Paves
4. Locked off service with special locking mechanism due to continued re-connection (even with the meter removed)

## **Collections:**

1. Pumped and cleaned Country Houses Septic Tank in Big Trees
2. Pumped and cleaned MT. Retreat septic tanks and wet well.
3. Called out to backed up septic tank at 3958 Juniper in Six Mile Pumped and cleaned tank.
4. Replaced frames and covers on 9 of the manholes behind La Cobra Mina with new closed pick hole lids we had in -- stock.
5. Checked lift stations once a week as required.
6. Performed vehicle inspections at the beginning of the month.
7. Called out to septic tank alarm at 981 Cabernet Ct. customers breaker had failed.
8. Pumped and cleaned Avery lift station septic tanks.
9. Pumped thickener tank for the Operations Staff at Jenny Lind WTP
10. Called out to 7400 stage stop septic tank alarm bad float issue.
11. Hydro'd the headworks at Vallecito WWTP as required on a bi monthly schedule.
12. Greased all dry can pumps as required on a yearly schedule and changed filters as needed.
13. Pulled pump 2 at lift station 2 in Saddle Creek due to clogging issue caused by Zip ties.
14. Pulled pumps at lift station 17 and de-ragged them.
15. Lost pump 2 motor at Lakeside lift station sent to industrial had it back and replaced in 3 days
16. Replaced Force main paddle markers torn out by logging contractor at Arnold WWTP.
17. Called out to lift station 14 high level due to power issues that caused supply power breaker to trip.
18. Gathered pictures of pump tag information for pump replacement and passed on to the District's Purchasing Agent.
19. Pumped and cleaned lift station 7.
20. Pumped and cleaned Saddle Creek 3 due to customer abuse issues with surgical gloves.
21. Pumped and cleaned headworks pump station vault for the Operations Staff at the Copper Cove WWTP.
22. Pumped and cleaned back wash ponds for the Operations Staff at the Jenny Lind WTP.
23. Continued to mark normal daily USA work orders along with continued marking in Forest Meadows for PG&E Contractor.
24. No spills reported



## **Construction:**

1. Assisted the Copper Cove Distribution Crew with service line leak repairs
2. Assisted the Ebbett's Pass Distribution Crew with service line leak repairs
3. Assisted the La Contenta Distribution Crew with service line leak repairs
4. Provided Construction Inspection coverage for the Jenny Lind Service Lateral Replacement Project (punch list items and work to facilitate project close-out), the Reach 1 Pipeline Replacement Project in Ebbetts Pass, and residential inspections
5. Coordinated Crews and prepared for the replacement of a Septic Tank in Southworth
6. Poured a concrete pad at the Connor's Main Lift Station for the placement of diesel fuel storage
7. On-going work on the FEMA funded road repair projects in West Point
8. Constructed a concrete pad form at the Wilseyville pressure station in order to install a new stationary generator at the site
9. Provided Distribution System vacation coverage for the Ebbetts Pass Service Area

## **Electrical:**

1. Troubleshoot and repaired start contact wires for Wallace WTP well #3
2. Repaired Win911 SCADA alarming software remotely after a crash at AWWTP
3. Rebuilt turbidimeter head at VWWTP
4. Replaced/reprogrammed ViPR radio at Copper Cove LS #12 after failure
5. Installed transfer switch at B-Tank pressure system in Valley Springs
6. Replaced failed coax end at ViPR radio, Copper Cove LS #12
7. Repaired 1500 UPS at Copper Cove connex, stock unit, replaced failed battery cartridge
8. Replaced failed pc control board for the Trojan UV system at LCWWTP
9. Troubleshoot/repared control system at the LCWWTP belt press
10. Replaced failed UPS Arnold LS #3
11. Adjusted communications alarm timer remotely for Copper Cove LS #12
12. Replaced failed 2200 UPS with 1500 UPS off the shelf at JLWTP, ordered new 2200 UPS battery cartridge
13. Added louvers to switchgear door for the backwash soft starter at Hunters effluent building
14. Added cooling fan to soft starter cabinet for backwash pump at Hunters effluent building
15. Replaced failed cooling fan thermostat for effluent pump #2 at Hunters WTP
16. Troubleshoot/repared septic tank at 7400 Stage Stop Court
17. Troubleshoot/repared failed UPS and reset radio at Copper Cove C-Tank master polling site
18. Troubleshoot/repared failed 0-15 psi transducer at Jenny Lind A-Tank after hours
19. After hours troubleshoot/repair remote I/O card at JLWTP PLC
20. Troubleshoot/repared failed Pump #2 at Saddle Creek lift station #2
21. Hooked up new pump #1 at Saddle Creek lift station #2
22. Pulled wire, added new starters and controls at AWWTP new 15hp effluent pumps
23. Adjusted SCADA callout lists due to personnel changes districtwide
24. Troubleshoot failed pump at Lakeside lift station
25. Dealt with Dennis Court pump failures and communications failures after hours, Jenny Lind area, during heat wave rolling blackouts
26. Troubleshoot/repared PG&E alarm in the JLWTP SCADA system
27. Made cord to hook up portable generator at D-Tank in Valley Springs
28. Added Construction & Maintenance Manager to all SCADA systems and set up a remote access account for him
29. Met with construction crew at Wilseyville pressure system for new stationary generator install
30. Worked with collections crew to clear plastic debris clog at Saddle Creek lift station 2, pump #2
31. Installed/programmed new SC200 at Copper Cove reclaim UVT
32. Adjusted Copper Cove B-Tank generator exerciser forward to 1pm per operator
33. Troubleshoot Copper Cove B-Tank generator, C-phase CT program failure
34. Adjusted polling timer in SCADA for UVT at Copper Cove Reclaim plant
35. Installed new electrical for Algae blaster and aerator at the West Point Regulator
36. Troubleshoot lack of generator run indicator in SCADA system at Hunters WTP for Dorrington Pump Station and Big Trees #1 tank site
37. Troubleshoot/repared pump failure at Copper Cove lift station #14

38. Extended communication timer remotely in the Comm 71 PLC at AWWTP for Arnold Lift Station #3
39. Climbed radio tower after hours at Larkspur pump station, re-aimed telemetry antenna per online radio diagnostics for optimal RF signal transfer
40. Replaced 2200 UPS battery cartridge and removed temporary 1500 UPS at JLWTP
41. Replaced failed UPS battery at Copper Cove LS #10
42. Replaced failed 750 UPS with 1500 UPS at Copper Cove LS #6, waiting for new 750 stock order UPS's to come in
43. Troubleshoot/repared automatic transfer switch at Big Trees #2 tank site
44. Troubleshoot/repared failed polyphaser at Arnold LS #3 after hours
45. Ran conduit under slab from new stationary backup generator to automatic transfer switch at Wilseyville pressure station
46. Replaced 1500 UPS with proper sized 750 UPS at copper cove LS #6, returned 1500 UPS back to stock
47. Troubleshoot possible bad floats at Calypso Bay Lift Station #14
48. Added tag and graphics to Hunters WTP SCADA system for Larkspur PS low level reset
49. Troubleshoot gen running/trouble and PG&E power fail graphics for Dorrington PS and Big Trees #1 site on the Hunters WTP SCADA system
50. Confirmed proper radio communications at Copper Cove LS #3 after 2am failure alarm
51. Troubleshoot Saddle Creek lift station #2 pumps not alternating
52. Troubleshoot/repared Copper Cove lift station #3 radio communications
53. Troubleshoot/repared Copper Cove lift station #14 pump #2 fail to start
54. Hooked up new polymer dosing pump at JLWTP with new quick release plug

## **Mechanical:**

1. Re-installed valve stem on Wilseyville Pressure Station PRV after is worked itself loose
2. Adjusted the skimmer on the clarifier at the Arnold WWTP
3. Tightened Packing on Effluent Pumps at the Arnold WWTP
4. Flushed check valves and adjusted leveler weights at the Forest Meadows WWTP
5. Set 1,000-gal fuel tank at the Connor's Estates Lift Station
6. Created Stainless Steel numbered plates to identify sprayfield zones
7. Repaired tail lights on Truck 592
8. Assessed 550 KW Generator for potential purchase
9. Replaced timing belt, resurfaced the cylinder heads, and installed a new head gasket, plugs, cap, and rotor on the Wallace WWTP Generator. Also set the ignition timing to the manufacturer specs, topped off the cooling system and tested for leaks
10. Truck #135(Barn VacCon) – Diagnosed exhaust brakes not functioning properly – found defective clutch switch- removed and replaced
11. Replaced leaking hydraulic hose on the backhoe in Copperopolis
12. Installed a new coolant level sensor in Truck #128 (Kenworth Dumptruck)
13. Topped off all generators in Copperopolis with fuel
14. Replaced both front tires and battery on Truck 132 (Ford F-350)
15. Serviced newly purchased (used) 35kw generator
16. Replaced tire on truck 538 (Ford F-350)
17. Troubleshoot B Tank Generator-pulled a fault code and kept shutting down – Found the generators control panel was reading the wrong voltage from the stator and shutting down. Reprogramed the control panel and reconfigured the settings – Restored to proper ops
18. Installed new catalytic converter on Truck #529 (2007 Ford F150)
19. Aux fault code on the Generator at the Jenny Lind WTP – found battery charger not charging battery – replaced fused and replaced generator batteries
20. Complete brake job on Truck #150 (Ford F 150) front, rear, and rotors
21. Replaced dead battery on the on the generator at the Saddle Creek Lift Station #3
22. Highway 4 Area Generator Checks
23. Jenny Lind and Wallace Area Generator Checks
24. Pulled pump and motor at the Lakeside Lift Station – failed motor
25. Repaired valve at the West Point WWTP's Sprayfield

**Prepared by: Damon Wyckoff, Director of Operations**