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## Seal Rock Water District

General Manager's Report:  
 Board Meeting May 12, 2022

*This report is an executive summary provided with this Board agenda to Commissioners with recommended actions if any. Detailed information, staff reports, and supporting materials are provided within the full agenda packet.*

### PHASE-IV BEAVER CREEK SOURCE WATER PROJECT:

On May 2<sup>nd</sup> the district learned that the breakers in the main electrical panel at the intake pump station tripped out. When the contractor reset the breakers they tripped out again. After further evaluation, it was determined that the Variable Frequency Drives (VFD) that operate the motors received an overload of power damaging both drives. While we have district engineers along with the engineers from Consumer Power Incorporated (CPI) evaluating the cause, it is uncertain at this time what caused the surge in power. CPI reports that they did not experience an unusual overvoltage or surges during the 24 hours in the Bayview substation which is the source of power for the intake site. Further evaluation is being completed to determine what caused this condition and how best to prevent this from occurring in the future.

Some alternative repair options being considered include repairing/rebuilding the existing VFDs. However, the damage is considered extensive by the engineer and power professionals such that the VFDs may be beyond repair.

If the VFDs cannot be salvaged, then the only other option is to replace the drives. The Board may recall from Board Meeting discussions that the VFDs were the subject of lengthy delay by the contractor. We are being told that replacement VFDs are as much as 25-weeks out.

The Board may recall that we had scheduled with the Portland Engineers of Oregon (PEO) to host a tour of the Water Treatment Facility on May 4<sup>th</sup>. After discussing conditions with representatives of PEO it was decided to cancel the tour. However, the scheduled project presentation provided by Jacobs and the district planned for this Friday, May 6<sup>th</sup> at the Salishan Resort was provided.

After several conversations with Jacobs engineers, Consumer Power Inc. (CPI), and the Contractor I believe we have a successful path forward. At the moment CPI has installed equipment on the newly installed and dedicated transformer located just outside the intake building to measure/record power flow (fluctuation) through the transformer to measure spikes. This information seems key to understanding if a power surge or overload on CIP's grid is the cause of the damage to the VFDs. We hope to have this information from CPI very soon.

The good news... We have located three VFD units in Portland that are identical to the damaged VFDs in the pump station. The vendor has three VFDs on the shelf at a cost of \$12,500.00 each. Because these units are becoming more difficult to locate, I have also briefed representatives with USDA-RD regarding the possibility of using contingency in the project funds to purchase the third unit to use as a spare. USDA-RD agreed with the justification for this purchase.

*Seal Rock Water District is an Equal Opportunity Service Provider and Employer.*

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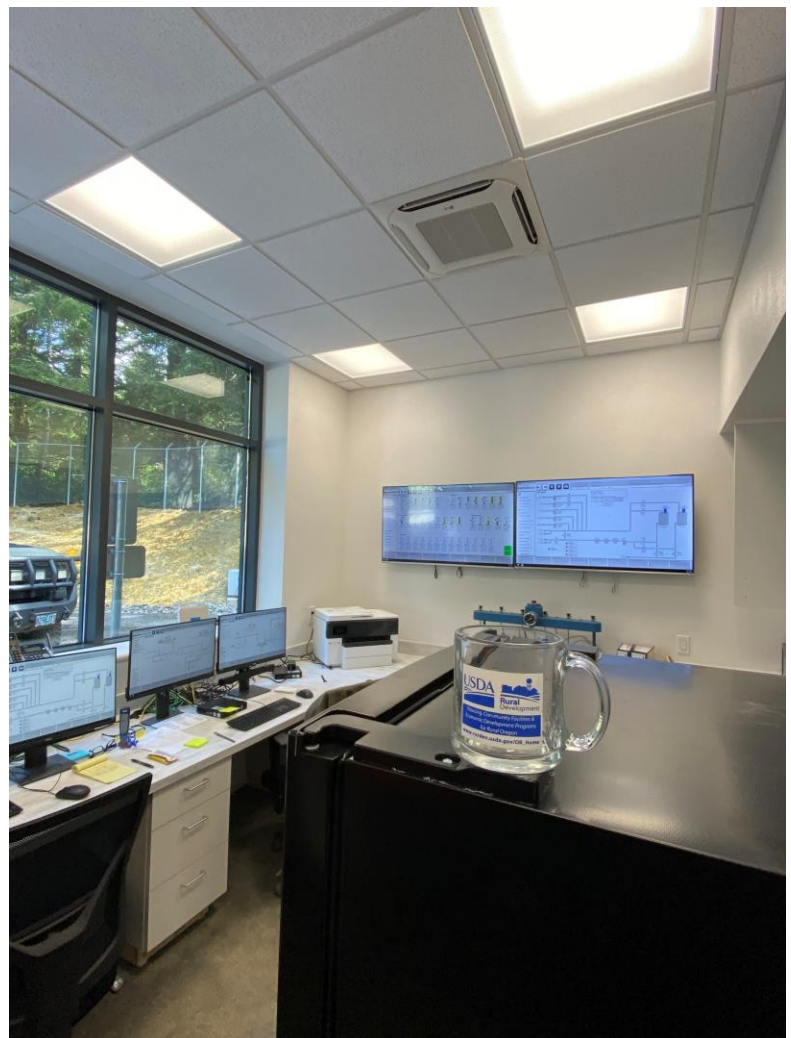
All three units are scheduled to be picked up in Portland and delivered to the WTP where they will be integrated with Ethernet cards and set up for installation. Once we receive the data from the power company verifying the safety of the transformer, the contractor will schedule the installation of the new VFDs. This could be as early as Monday next week. If the transformer does not perform as designed, CPI will schedule to replace the transformer. If data supports that the transformer caused the damage to the VFD, the district is prepared to support a claim for damages against CPI to include; replacement of damaged equipment, installation of new equipment, lost time, and the additional purchase of wholesale water.

• **General Site Activities:**

The Contractor continues to work on site restoration activities at the Beaver Creek intake site and the water treatment plant. Jacobs engineers are tracking several punch-list items that must be completed before the end of the project.



Membrane Filter Racks:



SCADA Control Room:



Beaver Creek Intake:



Water Treatment Plant:

Other notable activities for the month include:

- Attended on-site Beaver Creek water quality and flow monitoring field data collection.
- Attended OWRD Place Based Planning Evaluation of the Mid-Coast Water Planning Partnership.
- Attended Water Treatment Plant Startup Demonstration test.
- Attended video conferences with engineers, contractors, and USDA to discuss submittals and schedule for work on the Beaver Creek Source water project.
- Attended OWRD and state agency review of the MC-WPP final plan.
- Participated in the State Supported Water Planning and Management meeting.
- Participated in the SDAO Legislative Committee Meeting.
- Met with Newport representatives to discuss joint water use MOU.
- Attended National Special Districts Coalition Meeting.
- Attended onsite server room clean up at the WTP.
- Met with developer to discuss distribution system improvements on Wenger Lane.
- Attended several conversations related to discussing legislative language affecting municipal water suppliers.

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