

## Operations Update

Plant operations and treatment were exceptional during the month of November. The disc filters ran continuously throughout the month of November without chemicals and provided very good results. The Biostyr optimization seems to be helping the overall quality of the effluent.

## Maintenance Update

**Atad PanelView:** The panelview for Atad would not update to match the other TPS screens after the SNDR panelview was changed, which limited its ability to be used. The panelview was from the 2007 upgrade and since we had Thermal Process Systems coming onsite for SNDR programming and liquid level sensor replacement, it made sense to have them replace this so it is fully functional with the rest of the panelviews and only get charged for one trip charge which is \$2,962. The cost was \$9,088.27 to upgrade to the new panelview.

**SNDR Liquid Sensors and Cooling Program:** The liquid level on SNDR #2 has been off by 1.5 to 2 feet for the last year or more and we just kept the tank level lower to account for the issue. The new level transmitters were \$2,524 each and are reading 2 feet higher on both tanks than the old sensors. The programming to be able to cool the SNDRs similar to the Atad where the program shuts down the process when the desired temperature is met was something that can help the cooling process of the tanks. This didn't cost any more than programming and a trip charge that we were going to be charged either way to replace the level sensors. The total cost of replacing the two liquid level sensors, cooling program, and trip charge was \$8,010.

### Updates from the Filter Project

**Disc Filter #6 Drum Motor:** The correct drum motor and drive is onsite and will be installed next week.

**Chlorine Contact Splitter Box:** The Auma actuators for contact tank bypass and partial feed gate have been out of service since early in the year due to moisture in the actuators. The actuators have been ordered and are onsite. They will be replaced under warranty this week.

### Purchase Approval

**Process Return Pump #3:** This pump was installed in 1996 and had the bearing and mechanical seal rebuilt in 2010. Currently, the impellor clearance cannot be adjusted on the unit because the mechanical seal is stuck in place and needs to be replaced. More recently the volute had a hole form that started to leak which caused the unit to be taken out of service. We got a quote for all the rebuild parts that should be needed and that came to \$33,800. We also requested a complete pump price and that came in at \$52,378. Considering the age and condition of the pump, my recommendation is to go with the complete replacement pump rather than rebuilding a 25-year old pump.

I'm looking for commission approval to go forward with the purchase of the complete pump replacement at a cost of \$52,378.



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