

Operations Update

Plant Operations – Plant operations and treatment were good for the month of December.

Maintenance Update

Laser Flow System Meters – Two of the three flow meters installed are working well and tracking close to the existing meters. There have been some difficulties at Meter Station 5-North due to a drop from the pipe into the channel. The level transducer measures the channel level; the laser measures the pipe level and velocity. There can be an offset programed in but that offset is too great to have good accuracy. A new meter is ordered that has an external level transducer and this will enable the measurement in the pipe verses the channel and will eliminate the need for an offset being programed in. The flow meter that is in M.S. 5 North will be relocated to another meter station.

HOV Agricultural Land (Grass Buffers) – No update.

ATAD Jet Mix Pump Quotation – Received the quote for the ATAD Jet Mix pumps. Option 1 & 2 being complete pumps with rotating assemblies, Option 1 with pump casing being stainless steel, Option 2 being cast which the plant currently has. Option 3 is just the rotating assembly and Option 4 being the parts list to rebuild current rotating assemblies.

Currently Thermal Process Systems are installing all stainless steel pump casings in all their projects. Being that the pump casing and rotating assemblies need to be replaced it is recommended to go with Option 1. The life on the stainless steel pump casings are expected to be two times or more of the cast casings. The rotating assemblies will still need to be replaced or rebuilt approximately every five to six years. The pump replacements will be under the replacement budget.

Looking for authorization to move forward with Option 1.

Kevin Skogman
Director of Operations & Maintenance



Thermal Process Systems

Parts Quotation

December 17, 2018

Reference: Thermal Process Systems Offering No. TPS- P181217A
Pump Options
Heart of the Valley

Mr.Skogman,

Thermal Process Systems is pleased to provide the following offering per your conversation with Nathan Cook.

Option 1

Item	Quantity	Cost / Item	Total Cost
APT 54-20 Jet Pump SS	2	\$61,270.77	\$122,541.54
		Total	\$122,541.54

Option 2

Item	Quantity	Cost / Item	Total Cost
APT 54-20 Jet Pump Cast	2	\$45,018.46	\$90,036.92
		Total	\$90,036.92

Option 3

Item	Quantity	Cost / Item	Total Cost
APT 54-20 Rotating Assembly	2	\$39,191.62	\$78,383.24
		Total	\$78,383.24

Option 4

Item	Quantity	Cost / Item	Total Cost
APT 54 -20 Side Plate w/ Kit	2	\$11,283.76	\$22,567.52
APT 54-20 Cover Plate	2	\$648.38	\$1,296.76
APT 54-20 Expeller	2	\$11,460.42	\$22,920.84
APT 54-20 Impeller w/ Kit	2	\$20,197.75	\$40,395.50
APT 54 DS Seal Kit w/ Extra Seal	2	\$568.30	\$1,136.60
		Total	\$88,317.22

Notes

- 1) **Shipping charges are no longer added to the price. All shipping charges will be added to your invoice.**
- 2) Delivery is estimated at 12-16 weeks for complete pump, 6-8 weeks Rotating Assembly, 2-4 weeks for pump parts, after order is received.
- 3) Please fill out the Plant Information form attached to proceed.

Work, installation, and material not included

Validity of Quotation

Prices are valid for Six (6) Months from date of quotation.

Terms of Payment

Net thirty (30) days from date of invoice.

Conditions of Sale

See attached Thermal Process Systems "Terms and Conditions," which are hereby made part of this quotation.

