

UV DISINFECTION PROJECT UPDATE



Issue 9

October 28, 2016

Electrical Power has been completed making available our contractor to commence installing controls and monitoring.

Electrical connections have been completed to all reactor units. Contractor responsible for assuring that controls including the ability to monitor the performance of the UV disinfection process has taken over the site and continue to work.

They will be connecting all terminals of the reactors control points to the appropriate control panels that will route information to the SCADA system. Although the flow through of water that passes the UV lights occurs continuously, the monitoring points must assure in documented record that effective exposure of UV light is in contact with the water at all times.

In discussion with the contractor this is a very tedious process due to the fact that the reactors capacity and control is different than the original UV system placed at this plant.

They are predicting a completion near the end of November in time for the service implementation by WEDECO.

In addition, Webb County Utilities is coordinating a multiple person team from TCEQ to provide us with training in regards to the documentation needed on our monthly operating reports. This will be critical to the assurances to our community that the system is not only running at optimum levels, but that the system will continue running without downtime in the future.

Webb County Utilities is excited to see this implementation become a reality, and we hope to be in full compliance by the end of November.



Sequence	Action	% Complete
1	Ordering of Instruments for UV Disinfection <ul style="list-style-type: none"> UV Disinfection Reactors are to be ordered preliminarily to assure equipment is received timely. 	100%
2	Ordering of Non-specific Materials and Equipment <ul style="list-style-type: none"> Actuators, Valves, Pipe Support Materials as an example have been ordered and due for delivery. 	100%
3	TCEQ Construction Submittal Request <ul style="list-style-type: none"> We have submitted the second information request from TCEQ and awaiting either an approval or additional information requests. 	100%
4	Issuance of "Notice to Proceed" to Contractor	100%
5	Ordering of Specific Materials and Equipment <ul style="list-style-type: none"> Completion of full Supplies order is finalized such as specific measured and order materials for this custom installation. Additional Equipment as required by TCEQ has been placed on order. Awaiting delivery. 	100%
6	Installation of Temporary Construction Bypass <ul style="list-style-type: none"> Consists of a Pipe supported channel to allow treated water to be routed around existing UV System. This off course will allow contractor to fully work on the installation. 	100%
7	Begin complete demolition of existing equipment	100%
8	Electrical Installation	100%
9	Instrumentation Controls Installation	25%
10	Pipe Installation with Valves and Actuators	100%
11	Installation of Wedeco UV Reactors (Quantity = 3)	100%
12	Installation of Flow Monitoring Equipment <ul style="list-style-type: none"> Continuous Flow Rate for each disinfection channel. 	100%
13	Installation of Regulatory Monitoring Equipment <ul style="list-style-type: none"> Relative Intensities Transmissivity of UV Light Number of Hours in Operation 	25%
14	Equipment Calibration and Certification	0%
15	Operator Wedeco Equipment Training <ul style="list-style-type: none"> Scheduled for Three (3) Complete days of on-site training. 	0%
16	Monthly Operator Report Training <ul style="list-style-type: none"> TCEQ has agreed to provide additional on-site assistance in confirming the monthly report is completed and submitted corrected. 	0%
17	Operational Trail Period	0%
18	Initiate Live Treatment	0%

