

UV DISINFECTION PROJECT UPDATE



Issue 6

August 26, 2016

Bypass In place and Demolition in Progress

On Wednesday night August 17th at approximately 10:30 pm Lambda Construction the sub-contractor with Environmental Improvements, completed the bypass installation of the final effluent line that was previously routed through the old UV reactors, by re-routing the effluent directly to the chlorination basins.

What advantage this provides us is that the contractor can work in demolition of the existing obsolete UV reactors and install the newly designed and purchased UV reactors and ancillary equipment without interrupting services to our customers during the installation.



As can be seen in these photographs the above left photo shows how the piping was in operation. As the above right photo depicts the process of installing valves and actuators as well as connecting the vertical pipe that was going into the UV reactors is now rerouted to the outside Chlorine Contact structure.

It took approximately 10 hours to complete the entire job working through the night; however, no interruption of service was seen.

As this project progresses we have entered into the piping demolition and removal of materials from the existing UV disinfection room.

As can be seen in the following photographs contracted employees are disassembling all pipe, valves, and reactors and making room for the new equipment and controls to be placed into service.



Influent piping and reactors are in line to see removal.

It is expected that all demolition of removal will be completed by end of week, September 2, 2016.

At this time we will see a new crew return with Lambda Construction that will be assembling piping system that will be leading water to the new UV Reactors.



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	50%
8	Electrical Installation	0%
9	Instrumentation Controls Installation	0%
10	Pipe Installation with Valves and Actuators	0%
11	Installation of Wedeco UV Reactors (Quantity = 3)	0%
12	Installation of Flow Monitoring Equipment <ul style="list-style-type: none"> Continuous Flow Rate for each disinfection channel. 	0%
Sequence	Action	% Complete
13	Installation of Regulatory Monitoring Equipment <ul style="list-style-type: none"> Relative Intensities Transmissivity of UV Light Number of Hours in Operation 	0%
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%