

Checklist for Approval to use Process Controls in Place of Day Tanks

30 TAC §290.42 (f)(1)(B) Requires that day tanks be provided to minimize the possibility of severely overfeeding liquid chemicals. Day tanks are not required if adequate process control instrumentation and procedures are employed to prevent chemical overfeed incidents.

Day tanks serve to reduce the volume of chemical that is supplied to the chemical feed pumps limiting the chance of contaminating the potable water by overfeeding of chemicals. If a Public Water Supplier (PWS) wishes to use process controls/procedures in place of day tanks, the PWS must demonstrate that they are adequate to prevent overfeeding of disinfection chemicals. In order for TCEQ to determine the adequacy of the process controls/procedures, the following information must be provided. In the case where the PWS has not already installed the process controls/procedures and some of the required information is not available, provide what information is available. Please note that each request for approval will be evaluated on a case-by-case basis.

- A copy of the Standard Operating Procedure (SOP) which describes the procedure for verifying the Supervisory Control and Data Acquisition (SCADA) system output with the actual amount of chemical dosed. Include the signed and dated training roster to document that all of the operators have been properly trained on the SOP.
- Provide the data acquired from periodic verification of chemical feed rates such as that produced from drawdown tests. This must occur at a minimum at every shift change.
- If a SCADA system is used, provide documentation of the manual backup system used for times when the SCADA system is inoperable. This should include the appropriate SOP and the signed and dated training roster to document that all of the operators have been properly trained on the SOP.
- Confirmation that the operators on duty have the appropriate license level or additional training to remedy an over or underfeeding occurrence.
- Elevation differences between the chemical storage tanks and the feed points will allow for gravity feeding of chemicals when the pumps are not in use. Please provide documentation showing how this condition is addressed, or that the elevation differences do not exist.
- A specification sheet for the chemical feed pumps.
- A diagram showing the plumbing of the chemical feed system.
- A description of how the pumps are activated. Are water flow sensors employed to interrupt the pump operation to prevent overfeeding?
- If the water treatment plant is not continuously staffed, please provide documentation showing how chemical feed is controlled when operators are not present.
- The types of chemicals conveyed by the chemical pumps.
- The system for notification (alarms) used when the operating parameters (fluid levels, flow rates, feeding rates) have been exceeded.

Please send this information, along with a signed cover letter to:

Plan and Technical Review Section (MC-159)
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087