Turbidimeter Setting or Activity

Written SOPs for turbidimeter settings	Required
Sample Flowrate	Measure at least monthly. Meet the manufacturer's specifications.
Error Hold Mode	Transfer to 0.0 NTU
Signal Averaging	30 sec
Weekly Verification Check *	Required. Record numbers. Can use ice pik method.
Bulb replacement	At least annually or as the manufacturer recommends
Instrument specific maintenance log	Required
Primary Calibration	At least quarterly.
Signal Span **	0 to 5 NTU for finished water.
Data recorder ***	Required. Must be calibrated to sensor output.
Bubble reject	On
Sensor datalog interval (if no SCADA or recorder)	1 or 5 minutes (1 minute preferred unless data storage or processing limitations exist).

* You must compare the continuous turbidimeters to a calibrated bench top turbidimeter. This 1) Verifies that the continuous units maintain accuracy between quarterly calibrations, and 2) Maintains operator proficiency with the bench top unit. If a continuous unit fails, ongoing turbidity monitoring is required using the bench top unit. Results between the continuous unit and the bench top may not match. An acceptable difference between the values is 10% or +/- 0.05 NTU. If the difference between units is inconsistent or too large, call our regional office or the instrument manufacturer. We recommend recording the weekly verification values in the turbidimeter specific maintenance logbook.

** You must set the signal span / maximum value above the regulatory limit for that monitoring location. The CFE turbidimeter must be able to measure and record turbidities exceeding 1.0 NTU and IFE turbidimeters must be able to measure and record turbidities exceeding 2.0 NTU.

*** The instrument output scale must match the SCADA or recorder scale.