



Instructions for Form UV-ISA

General Instructions

This form is to be used for UV reactors that are to comply with 310 CMR 22.00 and operate at a fixed UV intensity (also known as the “Intensity Setpoint Approach”). UV reactors using the Intensity Setpoint Approach must have a MassDEP approved Validation report that specifies the operating ranges for flow, transmittance, and UV intensity

Form **UV-ISA** must be completed for any month, or portion of any month, that the UV unit was in operation. A separate **UV-ISA** form must be completed for each UV unit that was in operation. The completed form must be signed and submitted to the appropriate MassDEP region by the 10th of the following month.

Form **UV-ISA** must also be submitted along with forms **UV-CAL** and **UV-OFF SPEC** (if applicable).

Detailed Instructions

III. DAILY REPORTING FOR REACTOR ID #								
Day	Run Time (Hrs.)	Total Production (gal. or MGD)	Max. Flow ² (gpm or MGD)	Min. UV Dose ² (mJ/cm ²)	Min. UVT ² (%)	Off Spec. Events? (Y/N) ³	Instrument Calibration ⁴ (“S”, “T”, “Q”)	Operational Notes <i>(Attach additional sheets as needed)</i>

- **Run Time** - Report the number of hours the UV reactor was treating water.
- **Total Production** - Report the volume of water treated by the UV unit each day.
- **Max Flow** - Report the volume of water treated by the UV unit each day.
- **Minimum UV Dose** - select value from daily record as recorded every 5 min. The UV dose is the RED calculated using the dose-monitoring equation developed during validation testing.
- **Minimum UVT** - select value from the daily record as recorded every 5 min.
- **Off Specification Events** - Indicate whether or not the UV unit operated outside any of the validated ranges. If ‘Y’ you must also complete form UV-OFF SPEC.
- **Instrument Calibration** - Indicate when Intensity Sensors (S), Transmittance Analyzers (T) or Flow Meters (Q) were calibrated. Must also complete form UV-CAL.