

## Instructions for Form UV-OFF SPEC

## **General Instructions**

This form is to be submitted for UV reactors that are complying with 310 CMR 22.00, and have operated outside their validated range for any parameters (flow, UV transmittance, UV intensity) during the reporting month. Unique validated ranges for each UV reactor have been approved by MassDEP. The form is to be submitted along with either form UV-ISA or UV-CDA.

The form can be used for a total of 10 individual 'off specification' events occurring in the reporting month. More than 10 events in a month will require additional forms. The completed form must be signed and submitted to the appropriate MassDEP region by the 10<sup>th</sup> of the following month.

Form **UV-OFF SPEC** does <u>not</u> need to be submitted if 100% of the water delivered to the public was treated by the UV reactor(s) operating within the validated range for all parameters during the reporting month.

## **Detailed Instructions**

Date	Reactor ID #	Start Time Off Spec. Event <sup>2</sup>	End Time Off Spec. Event <sup>2</sup>	Vol. of Off Spec. Water (gal. or MG)	Tot. Vol. of Treated Water (gal. or MG)	Off Specification Event Description
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Date - Date that the off specification event occurred.

Reactor ID # - The identifying number of the UV reactor that operated off specification on the indicated date.

Start Time - Start time that the off specification event began is considered to be that time when the particular parameter was outside the validated range as monitored and recorded at least every 5 minutes.

- End Time End time of the off specification event is considered to be that time when the particular parameter returned to within the validated range as monitored and recorded at least every 5 min.
- Volume of Off Specification Water The volume of water that passed through the identified reactor from the recorded 'start time' to the 'end time' of the off specification event.

Total Volume of Treated Water - The total volume of water that passed through the identified reactor on the date noted.

*Event Description -* Parameters (flow, transmittance or intensity) that were outside the validated range and any reason(s) for the occurrence must be described. Attach additional notes as needed.

III. Off Specification Su	mmary:		
	Number of	Total Volume of Off Specification	Total Volume of
Reactor ID #	Off Specification	Water Through Reactor	Treated Water Through
	<b>Events This Month</b>	(gal. or MG)	Reactor (gal. or MG)
	Total Volume All Reactors:	(Sum Off Spec)	(Sum Treated)

## Percent of Treated Volume that Is Off Specification (100 x [Sum Off Spec/Sum Treated]):

Is the percent of total off specification water  $\leq 5\%^3$ : Yes No

Reactor ID # - All reactors must be reported to properly calculate the percentage of off specification water.

Number of Events - The total number of off specification events that occurred for the identified reactor in the month. Enter zero for any reactor that was not off specification.

- **Total Volume Off Specification -** The total volume of off specification water that passed through the identified reactor in the month. Enter zero for any reactor that was not off specification.
- Total Volume Treated The total volume of water that passed through the identified reactor in the month.

Total Volume All Reactors – The total of <u>all</u> off specification water and <u>all</u> treated water through <u>all</u> UV reactors for the month.

Percent of Treated Volume that is Off Specification - Calculate the % of all off specification water to all treated water through all UV

reactors for the month. Indicate whether total of all off spec water is <5% of the all water treated.