

INSTRUCTIONS FOR COMPLETING THE MONTHLY OPERATING LOG (MOL) FOR THE INTENSITY SETPOINT APPROACH

INSTRUCTIONS FOR COMPLETING LOG:

This log is for one reactor. A separate log must be completed for each reactor each day the UV facilities are in operation and must be made available for review upon request.

PUBLIC WATER SYSTEM INFORMATION

PWS Name: Print or type name of public water system (PWS).

STU Name: Print or type source treatment unit (STU) name.

PWSID: Enter the PWS ID number.

STUID: Enter the STU ID number.

Reporting Period: Enter month and year in which data was collected.

UV Reactor: Enter the number of the reactor.

Maximum Validated Flow Rate: Enter the maximum flow rate which was validated and approved as part of the plan approval for the UV facilities. This will remain the same every month.

Minimum Validated UVT: Enter the minimum UVT which was validated and approved as part of the plan approval for the UV facilities. This will remain the same every month.

Target Log Inactivation: Enter the log inactivation credit the system is requesting for this reporting period. This must be equal to or less than the credit indicated in the plan approval for the UV facilities.

Target Pathogen: Enter the name of the target pathogen (i.e. Giardia, Cryptosporidium, and/or Viruses). The target pathogen must be identified in the plan approval for the UV facilities.

Intensity Setpoint: Enter the intensity setpoint which was validated and approved as part of the plan approval for the UV facilities.

The following correspond to each of the columns in the table.

Operational Data:

Run Time (hrs): Enter the number of hours, to the tenth of an hour, the UV reactor was operated during the day.

Total Flow Through Reactor (MG): Enter the total volume of water treated by the UV reactor during the day.

Min Flow Rate (MGD). Enter the minimum flow rate treated by the UV reactor during the day.

Ave Flow Rate (MGD). Enter the average flow rate treated by the UV reactor during the day.

Max Flow Rate (MGD). Enter the maximum flow rate treated by the UV reactor during the day.

Intensity Requirements:

Intensity Setpoint (W/m²) (Column [A] on the log): Enter the minimum UV intensity recorded for the reactor during the day.

Sensor Correction Factor* (Column [B] on the log): If a sensor correction factor was needed, enter the sensor correction factor which was calculated on the UV Sensor CF Calibration Worksheet. If no correction factor was needed, enter "1" in Column [B].

*[Note: A sensor correction factor is only necessary if the UV duty sensor fails the calibration criterion and cannot be replaced immediately. This is not for long term operation and the duty sensor must be replaced as quickly as possible.]

Adjusted Intensity Setpoint (W/m²) ([A] x [B]) (Column [C] on the log): Multiply the intensity setpoint in Column [A] by the sensor correction factor in Column [B]. The result is the adjusted intensity setpoint and this value should be entered in Column [C].

Daily Minimum Intensity:

Daily Minimum Intensity (W/m²) (Column [D] on the log): Enter the minimum intensity measured during the day for the reactor.

Minimum Daily Intensity > Adjusted Intensity Setpoint (Y/N). Is the minimum daily intensity in Column [D] greater than the adjusted intensity setpoint in Column [C]? Enter yes or no.

Total Off-Specification:

Total Flow Off-specification* (MG): Enter the total off-specification volume for the day. This number should be determined by completing the Monthly Operating Log: Off-Specification Worksheet.

*[Note: If UV intensity or flowrate off-specification events occur simultaneously, the off-specification time should only be counted once.]

Print the name and certification number of the Operator of Record, the signature of the Operator of Record, and the date the report was completed.