

**INSTRUCTIONS FOR COMPLETING THE MONTHLY OPERATING LOG (MOL)
UV SENSOR CALIBRATION**

INSTRUCTIONS FOR COMPLETING LOG:

This log must be completed when sensors are calibrated 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.

CF used (if applicable): Enter.....

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

Date: Enter the date the sensor was calibrated.

Reactor Number: Enter the reactor number.

Duty Sensor Number: Enter the duty sensor number.

UV Sensor Operating Time (hrs): Enter the number of hours the sensor has been in operation since its last calibration.

Reference Sensor Serial Number: Enter the serial number for the sensor being calibrated.

Duty UV Sensor Reading (Column [A] on the log): During the calibration procedure, measure and record the UV intensity with the duty UV sensor.

Reference UV Sensor Reading (Column [B] on the log): During the calibration procedure, measure and record the UV intensity with the reference sensor.

Calibration Ratio [A]/[B]: Divide the intensity measured by the duty sensor in Column [A], by the intensity measured by the reference sensor in Column [B]. This is the calibration ratio.

Calibration Ratio ≤ 1.2 : Is the calibration ratio calculated above less than or equal to 1.2? Enter yes or no.

Sensor Correction Factor Used: If the calibration ratio is greater than 1.2, then a sensor correction factor must be calculated and used to determine the adjusted required dose. The correction factor must be at least the calibration ratio minus 0.2. Once the

correction factor is determined, it must be multiplied by the required dose found in the table in OAC Rule 3745-81-68. This will be the required dose.

If CF is used, Calibration Ratio – 0.2 \leq to CF: Is the calibration ratio minus 0.2 less than or equal to the correction factor? Enter yes or no.

Number of UV sensors calibrated: Enter the total number of sensors calibrated during the reporting period.

Number of UV sensors out of calibration: Enter the total number of UV sensors out of calibration during the reporting period.

Number of UV sensor(s) sent to manufacturer for recalibration: Enter the answer.

The following information for UV intensity sensors sent to manufacturer for calibration should be recorded:

Sensor Serial Number: Enter the serial number of the sensor being sent to the manufacturer.

Unit No.: Enter the sensor number

Date Sent: Enter the date the sensor is sent to the manufacturer.

Date Received: Enter the date the sensor is received from the manufacturer.

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.