



April 28th, 2011

CULLIGAN DOOR COUNTY
SERVICE
JEFF TEBON
63 E. OAK
STURGEON BAY WI 54235

Re: Description: SITE SPECIFIC WATER TREATMENT DEVICE
Manufacturer: CULLIGAN DOOR COUNTY
Product Name: EGG HARBOR TOWN HALL (POE/UV)
Model Number(s): EGG HARBOR TOWN HALL (POE/UV)
(Transaction I.D. No.: 1882358)
Product File No: 20110051

The specifications and/or plans for the installation of the point-of-entry (POE) UV devices have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of April 2016.

This approval is contingent upon compliance with the following stipulation(s):

- These point-of-entry (POE) UV devices have undergone sufficient testing to document the devices ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturer's published instructions.
- Where the Department of Natural Resources (DNR) has jurisdiction, a written approval may be required prior to installation of these POE UV devices in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 267-9787.
- These POE UV devices must be installed with a 254 nanometer wavelength narrow band ultra violet monitor. The monitor must energize the normally closed inlet solenoid at a minimum ultra violet dosage of 40,000 microwatt-seconds per square centimeter (40 millijoules) at a wavelength of 254 nanometers.
- These POE UV devices must be installed with automatic fixed flow rate controls that prevent flow above the manufacturer's maximum rated flow over the operating pressure range recommended by the manufacturer. The flow controls must be installed on the outlets of these devices.
- The normally open solenoid valves must be installed on the inlets of these POE UV devices.
- If these approved POE UV devices are modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.

- This installation must undergo a final inspection prior to the POE UV devices being put into service. The Plumbing Consultant having jurisdiction in this area is Tom Braun. Mr. Braun can be contacted via the following:

Phone: 715-340-5384
Fax: 608-283-7455
E-mail: tbraun@commerce.state.wi.us

When the final inspection has been completed, this department will notify the Wisconsin Department of Natural Resources (WDNR). The WDNR will then monitor the performance of the device(s) to its satisfaction. A suggested frequency and overall duration of monitoring is provided elsewhere in this letter.

If these devices are installed and put in service prior to obtaining a final inspection, then any pertinent approval for the site specific devices is immediately rendered null and void and the devices may be ordered removed.

- The POE UV devices being installed are approved under DComm product file number 20100329. The approval letter can be viewed at:

<http://commerce.wi.gov/sb/docs/sb-ppalopp/wtd/20100329.pdf>

All stipulations displayed in the approval letter for product file number 20100329 must be adhered to.

- The water distribution system shall be sized for a uniform pressure loss of 38 psig per 100 ft. of piping.

The urinal is the controlling fixture.

Based on testing data submitted to and reviewed by the department, this approval recognizes that these POE UV devices will reduce the concentration of contaminants as specified on pages 1 through 3 of this letter.

**HEALTH EFFECTING BIOLOGICAL CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20110051
TABLE 1 OF 1**

Flow Rate: Pro 15[‡] = 67.4 lpm (17.8 gpm)

Lamp Replacement Interval: 12 months (max.)

Tested Contaminant	Influent Challenge (PFU/ml) ²
MS2 Bacteriophage ¹	≥ 5.0 x 10 ⁴

Other Conditions: the contaminant reduction performance capabilities displayed for Table 1 of 1 were verified by testing conducted in accordance with NSF *International* Standard 55. To qualify for Class A performance, the device must reduce the influent challenge concentrations by an amount ≥ that achieved using an UV dosage of 40 mJ.

¹ = ATCC 15597-B
≥ = greater than or equal to

² = plaque forming units per milliliter
[‡] = two devices are installed in parallel

These Class A POE UV devices conform to NSF Standard 55 for the disinfection of microbiologically contaminated water that meets all other public health standards. These devices are not intended for the treatment of water that has an obvious contamination source (i.e. raw sewage), nor are these systems intended to convert wastewater to microbiologically safe drinking water. These devices are intended for installation on optically clear water (not colored, cloudy, or turbid water) with a minimum UV transmittance (UVT) of 75%.

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These POE UV devices were tested under controlled laboratory, or field, conditions. The actual performance of these devices for a specific end use installation will vary from the tested conditions based on local factors such as water pressure, water temperature and water chemistry.

The department is in no way endorsing these POE UV devices or any advertising, and is not responsible for any situation which may result from their use.

Sincerely,

Glen W. Schlueter
Engineering Consultant-Plumbing Product Reviewer
Bureau of Integrated Services
Safety and Buildings Division
Department of Commerce
(608) 267-1401 **Phone**
(608) 267-9566 **Fax**
glen.schlueter@wi.gov **Email**
8:00AM – 4:30PM CDT **Work Hours**

GWS:gws