

901:9-1-14.1            **Ultraviolet disinfection systems for full body contact aquatic devices.**

~~(A)~~ As used in this rule, "third-party" means a registered engineer or pool designer with sufficient appropriate experience.

~~(B)~~(A) For all aquatic devices, existing on or before December 31, 2011 and which are regulated pursuant to paragraph (A) of rule 901:9-1-14 of the Administrative Code, an ultraviolet disinfection system (UVDS) shall be added to their filtration system according to the following schedule:

- (1) All indoor aquatic devices by December 31, 2014;
- (2) All aquatic devices at large outdoor aquatic parks (aquatic parks with annual attendance greater than two hundred fifty thousand people) by December 31, 2017; and,
- (3) All other aquatic parks and devices by December 31, 2020.

~~(C)~~(B) After December 31, 2011, all All newly constructed aquatic devices operating to the public for the first time which are regulated pursuant to paragraph (A) of rule 901:9-1-14 of the Administrative Code must have a UVDS as part of their filtration system.

~~(D)~~(C) A UVDS is not required if another treatment process is used which the department has determined to be capable of providing a 3-log (99.9 per cent) reduction of cryptosporidium at the peak flow rate of the entire recirculation flow. Such performance must be validated by an industry recognized and capable third party.

~~(E)~~(D) UVDS' must be certified to meet the NSF/ANSI Standard 50 for pools, spas, hot tubs, and other recreational water facilities.

~~(F)~~(E) All UVDS' must include an automatic alarm to warn of a malfunction or impending shutdown.

~~(G)~~(F) All UVDS' must be installed in an enclosure designed to protect the operator against electrical shock, excessive radiation, and protection from sunlight.

~~(H)~~(G) The ultraviolet equipment, electrical components, wiring, and installation shall comply with all local and national electrical codes and Underwriters Laboratory standards.

~~(I)~~(H) All UVDS must have an accurately calibrated ultraviolet light intensity readout with ~~sensor(s)~~sensors capable of accurately reading the ultraviolet dosage. Sensors shall be calibrated at a frequency in accordance with the manufacturer's recommendations

and records of valid calibration shall be maintained by the facility. The minimum dosage of the UVDS will not go below forty millijoules per square centimeter.

⊕(1) The UVDS shall be installed per the design of an industry recognized and capable third party registered engineer or third party pool designer with sufficient appropriate experience.

Effective: 1/7/2018

Five Year Review (FYR) Dates: 10/18/2017 and 01/07/2023

CERTIFIED ELECTRONICALLY

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Certification

12/27/2017

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Date

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