

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) 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 250,000 people) by December 31, 2017; and,
 - (3) All other aquatic parks and devices by December 31, 2020.
- (C) After December 31, 2011, 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) 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%) 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) UVDS' must be certified to meet the NSF/ANSI Standard 50 for Pools, Spas, Hot Tubs, and other Recreational Water Facilities.
- (F) All UVDS' must include an automatic alarm to warn of a malfunction or impending shutdown.
- (G) All UVDS' must be installed in an enclosure designed to protect the operator against electrical shock, excessive radiation and protection from sunlight.
- (H) The ultraviolet equipment, electrical components, wiring and installation shall comply with all Local National Electrical Codes and Underwriters Laboratory standards.
- (I) All UVDS must have an accurately calibrated ultraviolet light intensity readout with sensor(s) 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 40 millijoules per square centimeter.
- (J) The UVDS shall be installed per the design of an industry recognized and capable

third party.

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CERTIFIED ELECTRONICALLY

Certification

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Date

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