Industry Training for 2018 Aquatic Health Regulations

Chapter 3 – Facility Operation and Maintenance

Southern Nevada Health District



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Training Materials

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New Regulations- General Information

The Nevada Administrative Code Sections 444.010 -444.546 is being replaced with a 117-page document which is based on the CDC's Model Aquatic Health Code (MAHC). The contents of the MAHC were modified in some places to accommodate the unique needs of aquatic health venues in Clark County.

New Regulations – Implementation and SND Orientation

The complete set of Aquatic Health Regulations can be found on the SNHD website at <u>www.southernnevadahealthdistrict.org</u>.

Implementation for **new** facilities under construction and orientation for **existing** facilities will begin August, 2018.

After the one-year orientation period, enforcement of new regulations will begin July 1, 2019.



New Regulations - History

The Nevada Administrative Code Sections 444.010 - 444.546 served as SNHD's governing document to regulate the operation of public bathing places. Due to changes to industry and safety standards, SNHD developed and proposed regulations based on the CDC's Model Aquatic Health Code.

Following more than 3 years of collaboration with industry groups including HOAs, resort representatives, pool companies and other interested parties, the 2018 Aquatic Facility Regulations were approved by the Board of Health in April 2018 and approved by the Nevada State Board of Health on June 8, 2018.



New Regulations - Overview

Chapter 1: Glossary, Acronyms and Initialisms, Definitions Chapter 2: Facility Design and Construction **Chapter 3: Facility Operation and Maintenance** Chapter 4: Policies and Management Chapter 5: Compliance and Enforcement Appendix A: Residential Facility Self-Management Program

This presentation only covers Chapter 3 revisions.



Scope of Training Materials

- This presentation covers major changes from the NAC.
 Regulations that have not changed may not be mentioned, but are still required. Not all new language revisions are included.
 The complete set of regulations can be found here: <u>www.southernnevadahealthdistrict.org</u>
- Your management has the right to be more strict than the regulations. If the information in this presentation contradicts your operational practices, please see your management for guidance.



Scope of Training Materials

- Words in CAPITAL LETTERS in the regulations (and items copied from the regulations) have definitions specified in Chapter 1.
- Where possible, links to sections in other chapters are provided.
- Meanings of acronyms used in this presentation are provided on the next slide.



Acronyms use in this presentation

ANSI	American National Standards Institute	STV	Single Test Value
ASTM	American Society for Testing and Materials	TA	Total Alkalinity
CFU	Colony-Forming Units	UV	Ultraviolet
СҮА	Cyanuric Acid	UVT	Ultraviolet Transmissivity
EPA	Environmental Protection Agency		
FAC	Free Available Chlorine		
ml	Milliliter		
NSF	National Sanitation Foundation		
PPM	Parts per Million		
PVC	Polyvinyl Chloride		
ORP	Oxidation Reduction Potential		



3-1 Operating Permits

3-1 Operating Permits

The provisions of this Section apply to all AQUATIC FACILITIES covered by these Regulations regardless of when constructed, unless otherwise noted .

3-101 Owner Responsibilities

3-101.2 A separate PERMIT is required for each newly constructed or SUBSTANTIALLY ALTERED AQUATIC VENUE at an existing AQUATIC FACILITY.

3-101.4 The PERMIT to operate shall:

- A. Be issued in the name of the OWNER,
- B. Be specific to a single AQUATIC VENUE, and
- C. Specify the period of time APPROVED by the HEALTH AUTHORITY.



3-201 Closure and Reopening

3-201.1 If an AQUATIC VENUE is not open for use the following conditions shall be met to protect health and safety:

A. Where the AQUATIC VENUE has a separate ENCLOSURE per Section 2-604:

(1) The water shall be recirculated and treated to meet the criteria of these Regulations;

(2) The water shall be drained; or

(3) An APPROVED safety cover that is listed and labeled to ASTM F1346-91 by an ANSIaccredited certification organization shall be installed provided no public health nuisances are present.

Cont'd...



3-201 Closure and Reopening

- B. Where the AQUATIC VENUE does not have a separate ENCLOSURE per Section 2-604 and other parts of the AQUATIC FACILITY are open for use:
 - (1) The water shall be recirculated and treated to meet the criteria of these Regulations and the AQUATIC VENUE shall be staffed to keep BATHERS out; or

(2) An APPROVED safety cover that is listed and labeled to ASTM F1346-91 by an ANSIaccredited certification organization shall be installed provided no public health nuisances are present or created



3-201 Closure and Reopening

C. Where the AQUATIC VENUE does not have a separate ENCLOSURE per Section 2-604, and the AQUATIC FACILITY is closed for use:

(1) The water shall be recirculated and treated to meet the criteria of these Regulations;

(2) The water shall be drained; or

(3) An APPROVED safety cover that is, listed and labeled to ASTM F1346-91 by an ANSIaccredited certification organization shall be installed provided no public health nuisances are present.



3-202 Preventive Maintenance Plan

3-202.1 Written Plan

- A. A written comprehensive preventive maintenance plan for each AQUATIC VENUE shall be available at the AQUATIC FACILITY.
- B. The AQUATIC FACILITY preventive maintenance plan shall include details and frequency of OWNER/operator's planned routine facility inspection, maintenance, and replacement of recirculation and water treatment components.



3-302 Pool Shell and Interior Surface Maintenance

3-302.2 Surface cracks under 1/8 inch wide shall be documented and monitored for any movement or change including opening, closing, and/or lengthening.

3-302.3 Any sharp edges shall be removed.

3-302.4 When cracks or chips in the finish expose BATHERS to the POOL shell, the AQUATIC VENUE must be repaired or resurfaced prior to reopening for use.





- A. The AQUATIC FACILITY OWNER shall ensure that glare conditions are assessed to ensure that the AQUATIC VENUE bottom and objects in the POOL are clearly visible throughout operating hours.
- B. If the AQUATIC VENUE requires LIFEGUARDS, the AQUATIC FACILITY OWNER shall ensure that glare conditions are assessed from each LIFEGUARD STATION to ensure that the AQUATIC VENUE bottom and objects in the POOL are clearly visible throughout operating hours.
- C. Windows and lighting equipment shall be adjusted, if possible, to minimize glare and excessive reflection on the water surface.

3-401.4 Emergency lighting shall be tested and maintained according to manufacturer's recommendations.



3-402 Indoor Aquatic Facility Ventilation

3-402.1 AIR HANDLING SYSTEMS shall be maintained and operated by the OWNER/operator to protect the health and safety of the facility's PATRONS.

3-402.2 AIR HANDLING SYSTEMS shall be maintained and operated to comply with all requirements of the original system design, construction, and installation.

3-402.3 Indoor Facility Areas

- A. The AIR HANDLING SYSTEM operation and maintenance requirements shall apply to an INDOOR AQUATIC FACILITY including:
 - (1) The AQUATIC VENUES, and
 - (2) The surrounding BATHER and SPECTATOR/STADIUM SEATING area;
- B. But does not include:
 - (1) Mechanical rooms,
 - (2) HYGIENE FACILITIES and locker rooms, and
 - (3) Any associated rooms which have a direct opening to the AQUATIC FACILITY.





3-405.2 Drinking Fountains

- A. Drinking fountains shall be maintained clean and in good repair.
- B. Drinking fountains shall have sufficient water pressure to allow correct adjustment to accommodate water dispensing to prevent PATRON facial contact with common surfaces and prevent water from landing outside the catch basin.

3-405.3 Waste Water

3-405.4 Removal of water from the POOL and replacement with make-up water shall be performed as needed to maintain water quality.





3-406.1 Outside trash and recycling receptacles and storage areas shall be maintained in good repair and clean condition.

3-406.2 Solid waste and recycled materials shall be removed at a frequency to prevent the attraction of vermin or cause odors and disposed of in compliance with applicable law.



3-408 Aquatic Facility Maintenance

All appurtenances, features, signage, safety and other equipment, and systems required by these Regulations shall be provided and maintained.

3-408.2 Steps and Guardrails

- A. Steps and guardrails shall be secured so as not to move during use.
- B. The profile and surface of steps shall be maintained to prevent slips and falls.

3-408.3 The profile and surface of starting platform steps shall be in good repair to prevent slips, trips, falls, and pinch hazards.



3-501 Recirculation Systems and Equipment

3-501.3 INLETS shall be checked at least weekly for rate and direction of flow and adjusted as necessary to produce uniform circulation of water and to facilitate the maintenance of a uniform disinfectant residual throughout the POOL.



3-501 Recirculation Systems and Equipment

3-501.4 Surface Skimming Devices

- A. The perimeter overflow systems shall be kept clean and free of debris that may restrict flow. Removable grates must be in place during operation in order to prevent entrapment.
- B. The automatic fill system, when installed, shall maintain the water level at an elevation such that the gutters must overflow continuously around the perimeter of the POOL.
- C. The water levels shall be maintained near the middle of the SKIMMER openings.
- D. The flow through each SKIMMER shall be adjusted to maintain skimming action that will remove all floating matter from the surface of the water.





3-501 Recirculation Systems and Equipment

- E. The strainer baskets for SKIMMERS shall be maintained in good repair, not broken or missing and cleaned as necessary to maintain proper skimming. Damaged strainer baskets shall be replaced.
- F. Weirs shall remain in place and in working condition at all times. Broken or missing SKIMMER weirs shall be replaced.
- G. A flotation test may be required by the HEALTH AUTHORITY to evaluate the effectiveness of surface skimming.



3-501 Recirculation Systems and Equipment

3-501.5 Submerged Drains/Suction Outlet Covers or Gratings

- A. Loose, broken, or missing suction outlet covers and sumps shall be secured or replaced immediately and installed in accordance with the manufacturer's requirements.
 (1) POOLS shall be closed until the required repairs can be completed.
 (2) AQUATIC FACILITIES shall follow procedures for closing and re-opening as applicable in Section 3-201.
- B. The manufacturer's documentation on all outlet covers and sumps shall be made part of the permanent records of the AQUATIC FACILITY.



3-502 Filtration

Filters and filter media shall be listed and labeled to NSF/ANSI 50 by an ANSI-accredited certification organization. Filters shall be operated, backwashed, cleaned and maintained according to the manufacturer's instructions.



3-503.2 Secondary Disinfection Systems

A. UV Light

(1) UV systems shall only operate while the RECIRCULATION SYSTEM is operating.

(2) UV systems shall be operated and maintained not to exceed the maximum validated flow rate and meet or exceed the minimum validated output intensity needed to achieve the required dose for a 3-log inactivation.

(3) UV sensors shall be calibrated at a frequency in accordance with manufacturer recommendations.

(4) Records of calibration shall be maintained by the facility.





3-503.2 Secondary Disinfection Systems

B. Ozone

(1) Ozone systems shall be operated and maintained according to the manufacturer's instructions to maintain the required design performance.

(2) Residual ozone concentration in the AQUATIC VENUE water shall remain below 0.1 PPM.

(3) A printed standard operating manual shall be provided containing information on the operation and maintenance of the ozone generating equipment, including the responsibilities of workers in an emergency.

(4) All employees shall be properly trained in the operation and maintenance of the equipment.



3-503.2 Secondary Disinfection Systems

- C. Copper/Silver lons
 - (1) Only those systems that are EPA-REGISTERED for use as sanitizers or disinfectants in AQUATIC VENUES or SPAS in the United States are permitted.

(2) Copper and silver concentrations shall not exceed 1.3 PPM for copper and 0.10 PPM for silver for use as disinfectants in AQUATIC VENUES and SPAS in the United States.

(3) FAC or bromine levels shall be maintained in accordance with <u>Section 3-503.1</u>.



3-503.3 Other Sanitizers, Disinfectants, or Chemicals

A. Other sanitizers, disinfectants, or chemicals used must:

(1) Be U.S. EPA-REGISTERED under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and,
(2) Not create a hazardous condition or compromise disinfectant efficacy when used with required bromine or CHLORINE concentrations, and

B. Not interfere with water quality measures meeting all criteria set forth in these Regulations.

C. CHLORINE Dioxide

(1) CHLORINE dioxide added through the recirculation system shall only be used for remediation for water quality issues when the AQUATIC VENUE is closed and BATHERS are not present.(2) Safety training and safety precautions related to use of CHLORINE dioxide shall be in place.

D. Clarifiers, flocculants, and defoamers shall be used per manufacturer's instructions.



3-503.5 Feed Equipment

- A. Any disinfectant and PH control chemicals delivered through an automatic chemical feed system shall meet the following requirements:
 - (1) All chemical feed system components must be dedicated to a single chemical and clearly labeled to prevent the introduction of incompatible chemicals.

(2) Chemical feed system components shall be installed and interlocked so it cannot operate when the RECIRCULATION SYSTEM is in low or no flow circumstances as per Section 2-504.2(B).

(3) Chemical feed system components shall incorporate failure-proof features so the chemicals cannot feed directly into the AQUATIC VENUE, the venue piping system not associated with the RECIRCULATION SYSTEM, source water supply system, or area within proximity of the AQUATIC VENUE DECK under any type of failure, low flow, or interruption of operation of the equipment to prevent BATHER exposure to high concentrations of AQUATIC VENUE treatment chemicals.

(4) All chemical feed equipment shall be maintained in good working condition. Cont'd...



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3-503.5 Feed Equipment

- B. Chemical feeders shall be installed such that they are not over a different chemical, stored chemicals, other feeders, or electrical equipment.
- C. Chemicals shall be kept dry to avoid clumping and potential feeder plugging for mechanical gate or rotating screw feeders. The feeder mechanism shall be cleaned and lubricated to maintain a reliable feed system.
- D. Adequate pressure shall be maintained at the venturi INLET to create the vacuum needed to draw the chemical into the RECIRCULATION SYSTEM.
- E. Erosion feeders shall only have chemicals added that are approved by the manufacturer.
 (1) A feeder shall only be opened after the internal pressure is relieved by a bleed valve.
 (2) Erosion feeders shall be maintained according the manufacturer's instructions.



3-503.5 Feed Equipment

F. Tubing and connections shall be checked on a daily basis for leaks.

(1) All chemical tubing that runs across walkways in non-PATRON areas shall be routed in PVC piping to support the tubing and to prevent leaks.

(2) The double containment PVC pipe shall be of sufficient size to allow for easy replacement of tubing.

(3) Any necessary turns in the piping shall be designed so as to prevent kinking of the tubing.

- G. The Chlorine Institute requirements for safe storage and use of CHLORINE gas shall be followed.
- H. Carbon dioxide feed shall be permitted to reduce PH and control total alkalinity.
 - (1) Carbon dioxide feed shall be controlled using a gas regulator.
 - (2) CO^2/O^2 monitor and alarm shall be maintained in working condition.
 - (3) Carbon dioxide is heavier than air, so forced ventilation shall be maintained in the storage room.



3-503.7 AUTOMATED CONTROLLERS and Equipment MONITORING

- A. AQUATIC VENUES with AUTOMATED CONTROLLER as outlined in Section 2-504.3(V) shall be capable of measuring the disinfectant residual of FAC, bromine, or the system ORP to maintain the disinfectant residual.
- B. AUTOMATED CONTROLLERS shall be interlocked per Section 2-504.2(B).
- C. The sample line for all probes shall be upstream from all primary, SECONDARY, AND SUPPLEMENTAL DISINFECTION injection ports or devices.
- D. AUTOMATED CONTROLLERS shall be monitored at the start of the operating day to ensure proper functioning.
- E. MONITORING shall include activities recommended by manufacturers, including but not limited to alerts and leaks. Cont'd...



3-503.7 AUTOMATED CONTROLLERS and Equipment MONITORING

- F. AUTOMATED CONTROLLERS shall be calibrated per manufacturer directions.
- G. When an ozone system is utilized as a SECONDARY DISINFECTION SYSTEM, the system shall be monitored continuously for the following: ORP, the control system indicating O³ being created, and operational indicators indicating the system is in range. The MONITORING data must be recorded every four hours.
 - (1) At the time the ozone generating equipment is installed, again after 24 hours of operation, and annually thereafter, the air space within six (6) inches of the AQUATIC VENUE water shall be tested to determine compliance of less than 0.1 PPM gaseous ozone.

(2) Results of the test shall be maintained on site for review by the HEALTH AUTHORITY.

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3-503.7 AUTOMATED CONTROLLERS and Equipment MONITORING

- H. When a UV system is utilized for SECONDARY DISINFECTION, the system shall be monitored continuously for the following and the data recorded as indicated: flow rate every four hours, intensity every four hours, water temperature daily, set point for intensity daily, and UV lamp on/off cycles recorded weekly with the total cycles/week. In addition the following must be monitored and recorded as indicated: iron, calcium hardness weekly, UVT analyzer calibration weekly, calibration intensity monitored annually and recorded at the time of calibration, and the calibration of the flow meter per manufacturer's requirements and recorded the time of calibration.
- The automated UV shut-down alarm required in Section 2-504.3(F)(7) shall be tested weekly and maintained as needed.



3-504 Water Sample Collection and Testing

3-504.1 Routine Sample Collection

When routine samples are collected from in-line sample ports, the QUALIFIED OPERATOR shall also ensure water samples are acquired from the bulk water of the AQUATIC VENUE at least once per day.

Water quality data from these AQUATIC VENUE samples shall be compared to data obtained from in-line port samples to assess potential water quality variability in the AQUATIC VENUE.



3-504.2 AQUATIC VENUE Water Chemical Balance

- A. Total alkalinity shall be maintained in the range of 60 to 180 PPM.
- B. The OWNER shall ensure the AQUATIC FACILITY takes action to reduce the level of CHLORAMINES in the water when levels exceed 1.0 PPM. Such actions may include but are not limited to:

 (1) SUPERCHLORINATION;
 (2) REFAKEOINT CHLORINATION;
 - (2) BREAKPOINT CHLORINATION;
 - (3) Water exchange; or
 - (4) PATRON adherence to appropriate BATHER hygiene practices.
- C. Calcium hardness should not exceed 1000 PPM.
- D. Algaecides may be used in an AQUATIC VENUE provided:
 - (1) The product is labeled as an algaecide for AQUATIC VENUE or SPA use;
 - (2) The product is used in strict compliance with label instructions; and,
 - (3) The product is registered with the US EPA and applicable state agency.



3-504.4 AQUATIC VENUE water shall be chemically balanced.

3-505 Water Quality Chemical Testing Frequency

3-505.1 FAC or bromine, and PH shall be tested at all AQUATIC VENUES prior to opening each day or at least once every 24 hours at evenly spaced intervals when the AQUATIC VENUE remains open 24 hours a day.

3-505.2 For all AQUATIC VENUES not associated with residential living units, the FAC (or bromine) and PH shall be tested prior to opening and every four (4) hours while accessible to BATHERS.

3-505.3 In-line ORP readings, if such systems are installed, shall be recorded at the same time the FAC (or bromine) and PH tests are performed.



3-505 Water Quality Chemical Testing Frequency

3-505.4 Total Alkalinity (TA) and combined available chlorine shall be tested weekly at all AQUATIC VENUES.

3-505.5 CYA shall be tested monthly at all AQUATIC VENUES utilizing CYA.

- A. CYA shall be tested 24 hours after the addition of CYA to the AQUATIC VENUE.
- B. If AQUATIC VENUES utilize stabilized CHLORINE as its primary disinfectant, the operator shall test CYA every week.



3-505 Water Quality Chemical Testing Frequency

3-505.6 For heated AQUATIC VENUES, water temperature shall be recorded at the same time the FAC (or bromine) and PH tests are performed.

3-505.7 If in-line electrolytic chlorinators are used, salt levels shall be tested at least weekly or per manufacturer's instructions.

3-505.8 Copper and silver shall be tested daily at all AQUATIC VENUES utilizing copper/silver systems as a SUPPLEMENTAL DISINFECTION SYSTEM.



3-506 Water Clarity

3-506.2 This reference point shall be visible at all times at any point on the DECK up to 30 feet away in a direct line of sight from the main drain. For SPAS, this test shall be performed when the water is in a non-turbulent state and bubbles have been allowed to dissipate.



3-6 Decks and Equipment

3-601 Spectator Areas

3-601.1 BACKFLOW prevention devices shall be in good working order, and shall be tested as required by the HEALTH AUTHORITY.

3-602 Starting Blocks

3-602.1 Starting platforms shall only be used for competitive swimming and training.

3-602.2 Starting platforms shall only be used under the direct supervision of a coach or instructor.

3-602.3 Starting platforms shall be removed, if possible, or prohibited from use during all recreational or non-competitive swimming activity by covering platforms with a manufacturer-supplied platform cover or with another means or device that is readily visible and clearly prohibits use.



3-6 Decks and Equipment

3-603 Lifeguard and Safety Related Equipment

3-603.1 AQUATIC FACILITIES shall not be open to PATRONS unless the equipment listed under this Section is present and in a safe and working condition.

3-603.5 LIFEGUARD Chair and Stand Design

- A. The chairs/stands must be designed:
 - (1) With no sharp edges or protrusions;
 - (2) With sturdy, durable, and UV resistant material.
- B. When a chair or stand is provided, it shall be equipped with overhead protection from or in a location without direct sun exposure or glare to allow for optimal bather surveillance.



3-6 Decks and Equipment



3-604.3 Gates or doors used solely for after-hours maintenance shall remain locked at all times when not in use by authorized staff.



3-7 Chemical Storage and Use

3-701 Chemical Storage

3-701.2 Storage, handling and use of each chemical shall be in compliance with the manufacturer's SDS and labels.

3-701.3 AQUATIC VENUE chemicals shall be stored to prevent access by unauthorized individuals.



3-7 Chemical Storage and Use

3-702 Chemical Handling

3-702.1 Containers of chemicals shall be labeled, tagged, or marked with the identity of the material and a statement of the hazardous effects of the chemical according to OSHA and/or EPA materials labeling requirements.

3-702.2 Chemicals shall be measured using a dedicated measuring device where applicable. These measuring devices shall be clean, dry, and constructed of material compatible with the chemical to be measured to prevent the introduction of incompatible chemicals.



3-7 Chemical Storage and Use

3-702 Chemical Handling

3-702.3 Chemical Addition Methods

A. DISINFECTION and PH control chemicals shall be automatically introduced through the RECIRCULATION SYSTEM.

 Superchlorination or shock chemicals and other chemicals other than DISINFECTION and PH control may be added manually to the AQUATIC VENUE.
 Chemicals added manually directly into the AQUATIC VENUE shall only be introduced in the absence of BATHERS.

B. Chemicals shall be diluted (or mixed with water) prior to application and as per the manufacturer's directions.

(1) Chemicals shall be added to water when diluting as opposed to adding water to a concentrated chemical.

(2) Each chemical shall be mixed in a separate, labeled container.

(3) Two or more chemicals shall never be mixed in the same dilution water.



3-801 Plumbing Fixture Requirements

3-801.1 HYGIENE FACILITY fixtures, dressing area fixtures, and furniture shall be cleaned and SANITIZED as often as necessary with an EPA-REGISTERED product to provide a clean and sanitary environment.

3-801.2 HYGIENE FACILITY floors, walls, and ceilings shall be kept clean and free of visible mold and mildew.

3-801.3 HAND WASH STATIONS shall include the following items: A. Hand wash sink,

- B. Adjacent soap dispenser,
- C. Hand drying device or paper towels and dispenser, and
- D. Trash receptacle.



3-801 Plumbing Fixture Requirements

3-801.4 CLEANSING SHOWERS

CLEANSING SHOWERS shall be cleaned and SANITIZED as often as necessary with an EPA-REGISTERED product to provide a clean and sanitary environment.

3-801.5 RINSE SHOWERS

- A. RINSE SHOWERS shall be cleaned as necessary with an EPA-REGISTERED product to provide a clean and sanitary environment.
- B. RINSE SHOWERS shall be easily accessible.
- C. Equipment and furniture on the DECK shall not block access to RINSE SHOWERS.
- D. Soap dispensers and soap shall be prohibited at RINSE SHOWERS.
- E. RINSE SHOWER drains shall discharge to the sanitary sewer according to applicable law.



3-801 Plumbing Fixture Requirements

3-801.6 Non-PLUMBING FIXTURE Requirements

- A. If paper towels are used for hand drying, a dispenser and paper towels shall be provided for use at HAND WASH STATIONS.
- B. Soap dispensers shall be provided at HAND WASH STATIONS and CLEANSING SHOWERS and shall be kept full of liquid or granular soap. Bar soap shall be prohibited.
- C. A minimum of one hands-free trash receptacle shall be provided in areas adjacent to hand washing sinks. Trash receptacles shall be emptied daily and more often if necessary to provide a clean and sanitary environment.
- D. Non-permanent floor coverings shall be removable and maintained in accordance with Section 3-801.1. Wooden racks, duckboards, and wooden mats shall be prohibited on HYGIENE FACILITY and dressing area flooring.



3-801 Plumbing Fixture Requirements

3-801.7 Sharps

- A. A Biohazard Action Plan shall also be on file as required by local, state or federal regulations and included as part of the AQUATIC FACILITY SAFETY PLAN.
- B. Sharps within approved containers shall be disposed of as needed by the AQUATIC FACILITY in accordance with applicable law.



3-802 Provision of Suits, Towels, and Shared Equipment

3-802.2 Equipment provided by the AQUATIC FACILITY that comes into contact with BATHER'S eyes, nose, ears, and mouth (including but not limited to snorkels, nose clips, and goggles) shall be cleaned, SANITIZED between uses, and stored in a manner to prevent biological growth.

3-802.3 Other shared equipment provided by the AQUATIC FACILITY, including but not limited to fins, kickboards, tubes, lifejackets, and noodles, shall be kept clean and stored in a manner to prevent mold and other biological growth.

3-802.4 Shared equipment shall be maintained in good repair.

3-802.6 Non-absorbent, easily cleanable receptacles shall be provided for collection of used shared equipment.



3-903 Moveable Floors

3-903.1 Platforms

The use of starting platforms in the area of a MOVEABLE FLOOR shall be prohibited when the water depth is shallower than the minimum required water depth of four (4) feet.

3-903.2 Diving Boards When a MOVEABLE FLOOR is installed into a DIVING POOL, diving shall be prohibited unless the DIVING POOL depth meets criteria set in Section 2-602.1.





3-904.1 If a BULKHEAD is operated with an open area underneath, no one shall be allowed to swim beneath the BULKHEAD.

3-904.2 The BULKHEAD position shall be maintained such that it cannot encroach on any required clearances of other features such as diving boards.



3-905 Interactive Water Play Aquatic Venues

3-905.1 Cracks in the INTERACTIVE WATER PLAY AQUATIC VENUE shall be repaired when they may be a potential for leakage, present a tripping hazard, a potential cause of lacerations, or impact the ability to properly clean and maintain the INTERACTIVE WATER PLAY AQUATIC VENUE area.

3-907.2 When cleaning the INTERACTIVE WATER PLAY AQUATIC VENUE contaminants shall be removed or washed to the sanitary sewer. If no sanitary sewer drain is available, then debris shall be directed to the nearest DECK drain or removed in a manner that prevents contaminants from reentering the INTERACTIVE WATER PLAY AQUATIC VENUE.



3-906 Spas

3-906.1 SPA filtration systems shall be operated 24 hours per day except for periods of draining, filling, and maintenance.

3-906.2 SPAS shall be drained, cleaned, scrubbed, and water replaced as needed to maintain water quality and water clarity requirements.

3-906.3 SPA surfaces, including interior of SKIMMERS, shall be scrubbed or wiped down, and all water drained prior to refill.



3-907 Natural Bathing Places

3-907.4 Water samples shall be submitted to a state-licensed laboratory each week. Such samples must meet the following criteria: E. coli at a geometric of 126 CFU per 100 mL and an STV (single test value) of 410 CFU per 100 mL measured using EPA Method 1603, or any other equivalent method that measures E. coli.

3-907.5 Failure to meet any of the criteria noted in Section 2-10012.1(B)-(F) shall result in the immediate closure of the NATURAL BATHING PLACE.