

# **2019 Aquatic Venue – Operating Check List**

## ***REQUIREMENTS FOR ALL AQUATIC VENUES (POOLS, SPAS, SPRAY PADS, WATERSLIDES)***

- ❑ Vacuum outlets must have an approved device cover 5.6.10.6.3 MAHC
- ❑ All aquatic venues on recirculation systems must have automated disinfectant and PH controller (ORP)- 4.7.3.2.8.1 MAHC
- ❑ Certified operator on staff or under contract – 6.1.1 MAHC
- ❑ Main drain covers, and equalizer port covers must be ASME/ANSI A112.19.8-2007 (VGB 2008) compliant. The federal VGB Act requires that older covers be replaced. Please have a copy of the certificate of compliance for the drain cover.
- ❑ Dual main drains at least three feet apart center to center. Single main drains must be retrofitted with safety devices, such as a safety vacuum release system (SVRS), to prevent entrapment. In addition, the certified operator must demonstrate at each inspection that the SVRS is properly working.

## ***SAFETY REQUIREMENTS***

- ❑ Check Lifeguard requirements
- ❑ Aquatic operators, attendants, or owners shall verify adult supervision of children under the age of 14, in pools where lifeguards are not required – 6.4.2.2.3.4 MAHC
- ❑ Check Ring Buoy –with ropes of length at least 1.5 times max. pool width
- ❑ Check Rescue pole to verify they are sturdy, non-telescoping and at least 12 feet in length with a "shepherd's hook" attached.
- ❑ Check Lifeline to assure it is in good condition.
- ❑ Working telephone must be on the premises with emergency numbers posted.
- ❑ Ladders in the deep end have non-slip treads, and hand rails for steps are secure.
- ❑ Gates and doors, are self-closing with a self-latching device that is lockable from the exterior to prevent unauthorized access. Exiting gates for emergency use must have proper signage and must open away from venues.
- ❑ Aquatic Facility Operations Plan
- ❑ Check and Restock First Aid Kit - 5.8.5.2.2.2 MAHC
  - 1) A First Aid Guide,
  - 2) Absorbent compress,
  - 3) Adhesive bandages,
  - 4) Adhesive tape,
  - 5) Sterile pads,
  - 6) Disposable gloves,
  - 7) Scissors,
  - 8) Elastic wrap,
  - 9) Emergency blanket,
  - 10) Resuscitation mask with one-way valve, and
  - 11) Blood borne pathogen spill kit.

## ***SIGNAGE***

- ❑ If no lifeguard present, post: "WARNING -NO LIFEGUARD SERVICE IS PROVIDED. ALL CHILDREN UNDER THE AGE OF 14 MUST BE ACCOMPANIED BY AN OBSERVER 18 YEARS OR OLDER. IN CASE OF EMERGENCY, CONTACT: \_\_\_\_"
- ❑ Post Bather Load for each aquatic venue
- ❑ Post Spa precaution sign – 6.4.2.2.3.7 MAHC
- ❑ Post Signs that explain proper way to use pool slide or waterslide
- ❑ Post an updated American Red Cross CPR chart.
- ❑ Post sign with facility address at emergency phone.

## ***WATER SUPPLY & RECIRCULATION***

- ❑ Check that skimmers work; check skimmer baskets, hair/lint catcher and equalizer valves.
- ❑ Check overflow gutter system grates
- ❑ Check that drains and equalizer lines have anti-entrapment covers or grates.
- ❑ Check that filters and the pressure gauge work; check the flow meter and its location;
- ❑ Check for minimum turnover/flow rate (6-hour for most pools, (1-hour for spas built before 3/30/05), and 30-minutes for newly built or remodeled spas and spray pads, 1-hour for wading pools). To calculate turnover rate (Volume of pool) ÷ (gpm) ÷ 60 = hours and (Volume of spa or spray pad) ÷ (gpm) = minutes. See 4.7.1.10 for turnover times.
- ❑ Check backwash water disposal; check that backflow is prevented at backwash/drain discharge by air gap
- ❑ Check cross connections–vacuum breakers on hose bibs, vacuum line connections, verify air gaps to sewer connection, verify protection of water supply.
- ❑ Check that the manual emergency pump shut-off switch and audible alarm is in place and functional. Turn on jets when checking spa to ensure jets turn off also.

## ***PHYSICAL/STRUCTURAL ELEMENTS***

- ❑ Check Ventilation – excessive condensation, rust on vents and/or sprinklers, odor and humidity will indicate a problem with air exchanges or humidity level.
- ❑ Check that handrails, steps, and ladders are securely fastened
- ❑ Check that spa jet timer is at out of reach from the edge of the spa and does not exceed 15 minutes
- ❑ Verify that a 1”-2” contrasting marking is on the leading edge of each step-in pools/spas, and ¾”- 2” contrasting markings on the leading edge of benches.
- ❑ Verify that depth markings are in contrasting colors, at least 4” high on wall and runway.
- ❑ Verify that runways (4 feet from the edge of the pool) are clear of furniture and tripping hazards.
- ❑ Eliminate hazards - toe stubbers, head bashers, foot cutters, sharp edges, protrusions, exposed electric wires and chemicals, etc.;

## ***RECREATIONAL WATER ILLNESSES (RWIs) GUIDELINES FROM THE CENTERS FOR DISEASE CONTROL (CDC)***

- ❑ Go to <https://www.cdc.gov/healthywater/swimming/swimmers/rwi.html> for guidelines provided by the Center for Disease Control (CDC)
- ❑ Consider regular hyperchlorination (e.g., weekly) at levels known to kill Crypto. Hyperchlorination levels are found at <https://www.cdc.gov/healthywater/swimming/aquatics-professionals/fecalresponse.html#fecal-incident> Implement and enforce diarrhea-exclusion policies for bathers
- ❑ Consider adding supplemental disinfection (UV system or ozonation)

## WATER QUALITY

- ❑ Check if a functional DPD test kit is onsite for chlorine (or bromine), pH, or cyanuric acid (outdoor venues).
- ❑ Check and record chemical readings.

Chemical/Parameter	Pools	Spas	Spray pads	Comments
Maximum temperature	104 °F	104 °F	104 °F	
Free available chlorine for venues not using cyanuric acid	1-10ppm	3-10ppm	1-10ppm	
Free available chlorine for venue using cyanuric acid	2-10ppm	3-10ppm	2-10ppm	
Combined chlorine	0.4 ppm max	0.4 ppm max	0.4 ppm max	
Total available bromine	3-8 ppm total	4-8ppm total	3-8 ppm total	
Cyanuric acid (stabilizer) <b><u>NMED prohibits cyanuric acid in indoor pool/spas.</u></b>	100 ppm max	100 ppm max	100 ppm max	Ideal 30 ppm
pH	7.2 – 7.8	7.2 – 7.8	7.2 –7.8	Ideal 7.5-7.6
Clarity	Check if drain visible in deepest part	Check if drain visible		

- ❑ Check connections of disinfectant system and pH adjuster and that the ORP manual is available to the operator
- ❑ Restock chemicals for the chemical test kit, and store in area away from direct exposure to sunlight.
- ❑ Note that hand dosing of disinfectant is prohibited, except to super-chlorinate or hyper-chlorinate (“shock”). Anytime chemicals are added directly to the venues, the venue must be closed to bathers until chemical balance is restored to acceptable ranges.
- ❑ Note that Spas must be drained and refilled. See 5.12.7.2.1 MAHC for water replacement calculation.