

Minnesota Department of Health

Proposed Permanent Rules Relating to Pool Operations

4717.0650 POOL OPERATION AND MAINTENANCE; OPERATOR TRAINING.

[For text of subparts 1 to 4, see Minnesota Rules]

Subp. 5. **Operator training.** The owner or operator must ensure that the designated trained operator is trained to operate the pool in compliance with parts 4717.0150 to 4717.3975.

[For text of items A to D, see Minnesota Rules]

E. Acceptable training courses are:

- (1) the National Swimming Pool Foundation Certified Pool Operator course;
- (2) the National Spa and Pool Institute Tech I and Tech II courses (both required); ~~or~~
- (3) the National Recreation and Park Association Aquatic Facility Operator course;
- (4) the Aquatic Training Institute Certified Pool Technician course; or
- (5) the Human Kinetics Starfish Aquatics Institute Aqua Tech course.

[For text of item F, see Minnesota Rules]

4717.1350 POOL FACILITY CAPACITY.

[For text of subpart 1, see Minnesota Rules]

Subp. 2. **Pool user capacity.** User capacity must be determined as specified in this subpart.

[For text of items A and B, see Minnesota Rules]

~~C. Three hundred square feet of pool water surface area must be reserved around each diving board, diving platform, or slide. The area in this item must not be included when computing the user capacity in item B. Ten persons must be included in the user capacity for each diving board, diving platform, and slide.~~

~~⊘ C.~~ Spa pools must be limited to one user for each three linear feet of seating space provided in the spa pool, measured along the front edge of the seats.

4717.1750 POOL WATER CONDITION.

[For text of subparts 1 and 2, see Minnesota Rules]

Subp. 3. **Disinfection residual.** When in use, a pool must be continuously disinfected with a chemical that imparts an easily measured, free available residual.

[For text of items A to E, see Minnesota Rules]

~~F. Where a cyanuric acid compound is used to stabilize chlorine, the concentration of cyanuric acid in the pool must not exceed 100 parts per million.~~

[For text of subparts 4 to 8, see Minnesota Rules]

Subp. 9. [See repealer.]

Subp. 10. [See repealer.]

Subp. 11. **Use of cyanuric acid.**

A. Use of cyanuric acid in any new indoor pool is prohibited after the effective date of this rule.

B. Use of cyanuric acid in any existing indoor pool is prohibited two years after the effective date of this rule.

C. Use of cyanuric acid in any pool requires testing and recording of the cyanuric acid level at least once a week.

D. Where cyanuric acid is used to stabilize chlorine, the concentration of cyanuric acid in the pool must not exceed 100 parts per million.

4717.2570 RECIRCULATION EQUIPMENT.

[For text of subparts 1 to 3, see Minnesota Rules]

Subp. 4. **Rate-of-flow indicator.** A rate-of-flow indicator, reading in gallons per minute, must be installed and located, preferably on the pool return line, so the rate of recirculation and backwash rate are indicated. The indicator must be capable of reading flows measuring at least 1-1/2 times the design flow rate, be accurate within ten percent of the true flow, and be easy to read.

[For text of subparts 5 to 7, see Minnesota Rules]

4717.2595 SKIMMERS.

Subpart 1. **Skimmers.** Skimmers are permitted in lieu of a gutter if the suction outlets induce enough motion to the pool water to remove floating oil and waste from the entire pool surface, and the edge of the pool deck provides a handhold for swimmers.

[For text of items A to F, see Minnesota Rules]

~~G. Provision must be made to prevent airlock in the skimmer suction line.~~

~~(1) Where an equalizer pipe is used, it must be sized to meet the capacity requirements of the filter and pump and not be less than two inches in diameter. If equalizer lines are not provided on skimmers, the main drain must be sized based on the total recirculation flow. The equalizer pipe must be located at least one foot below the lowest overflow level of the skimmer. It must be provided with a valve or equivalent device that automatically opens when the water level drops below the lowest weir level.~~

~~(2) If any other device, surge tank, or arrangement is used, enough water for pump suction must be assured.~~

~~(3) Equalizer pipe is not required on a pool with an automatic water level control and on spa pools with less than a 1,000-gallon capacity.~~

G. If skimmer equalizer pipes exist, or are constructed, they must include an ASME/ANSI VGB approved suction fitting, or be permanently plugged.

[For text of subpart 2, see Minnesota Rules]

4717.3450 LIGHTING, VENTILATION, AND ELECTRICAL REQUIREMENTS.

Subpart 1. **Lighting.** Lighting must meet the criteria in this part.

~~A. When underwater lighting is used, not less than 0.5 watts shall be employed per square foot of pool water surface area.~~

B A. Light must be located to provide illumination so all portions of the pool, including the bottom, may be seen without glare.

€ B. Area lighting must provide at least ten footcandles of illumination at all locations on the pool surface and on any deck within five feet of the pool whenever the pool is in use.

Ð C. A pool used for education, training, or competition must have at least 30 footcandles of illumination on the pool surface and on any deck within five feet of the pool.

~~E. Security lighting, when provided, must illuminate the entire pool area to make it readily visible.~~

[For text of subparts 2 and 3, see Minnesota Rules]

4717.3850 SPA POOLS.

[For text of subparts 1 to 9, see Minnesota Rules]

Subp. 10. **Signs.** In addition to the signs required in parts 4717.1050, ~~4717.1250~~, 4717.1350, and 4717.1650, signs with the warnings in items A to C must be posted and plainly visible in the spa pool area.

[For text of items A to C, see Minnesota Rules]

4717.3970 POOL CLOSURE.

When any of the conditions in items A to E are found, a public pool must be immediately closed to use when so ordered by the commissioner. The owner of the pool or the owner's agent must place a sign at the entrance to the pool indicating that the pool is closed. The pool must remain closed until the condition is corrected and approval to reopen is granted by the commissioner. A pool must be closed when:

[For text of items A and B, see Minnesota Rules]

C. the disinfection residual specified in part 4717.1750, subpart 3, item A or B, is not met;

[For text of items D and E, see Minnesota Rules]

REPEALER. Minnesota Rules, parts 4717.0310; 4717.1250; 4717.1450, subpart 5; and 4717.1750, subparts 9 and 10, are repealed six months after adoption of this rule.

EFFECTIVE DATE. The amendments to Minnesota Rules, parts 4717.0650 to 4717.3970, are effective six months after adoption.