

**WEST VIRGINIA  
SECRETARY OF STATE  
JOE MANCHIN, III  
ADMINISTRATIVE LAW DIVISION**

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OFFICE WEST VIRGINIA  
SECRETARY OF STATE

Form #6 ☐

**NOTICE OF FINAL FILING AND ADOPTION OF A LEGISLATIVE RULE AUTHORIZED  
BY THE WEST VIRGINIA LEGISLATURE**

AGENCY: Bureau for Public Health - DHHR TITLE NUMBER: 64

AMENDMENT TO AN EXISTING RULE: YES ☐ NO ☒

IF YES, SERIES NUMBER OF RULE BEING AMENDED: \_\_\_\_\_

TITLE OF RULE BEING AMENDED: \_\_\_\_\_

IF NO, SERIES NUMBER OF RULE BEING PROPOSED: 16

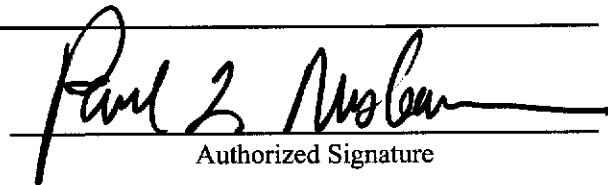
TITLE OF RULE BEING PROPOSED: Recreational Water Facilities

THE ABOVE RULE HAS BEEN AUTHORIZED BY THE WEST VIRGINIA LEGISLATURE.

AUTHORIZATION IS CITED IN (house or senate bill number) HB 4205

SECTION 64-5-1(e), PASSED ON March 9, 2002

THIS RULE IS FILED WITH THE SECRETARY OF STATE. THIS RULE BECOMES EFFECTIVE ON THE  
FOLLOWING DATE: July 1, 2002

  
Authorized Signature

**SCANNED**

**TITLE 64  
LEGISLATIVE RULE  
BUREAU FOR PUBLIC HEALTH**

**SERIES 16  
RECREATIONAL WATER FACILITIES**

**FILED**

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OFFICE WEST VIRGINIA  
SECRETARY OF STATE

**§64-16-1. General.**

1.1. Scope. -- This legislative rule establishes the minimum requirements for the design, construction, management and operation of recreational water facilities. The W. Va. Code is available in public libraries and on the Legislature's web page, <http://www.legis.state.wv.us/>.

1.2. Authority. -- W. Va. Code §16-1-4.

1.3. Filing Date. -- April 17, 2002.

1.4. Effective Date. -- July 1, 2002.

1.5. Repeal and Replacement of Former Rules. -- This legislative rule repeals and replaces Division of Health rule 64CSR16, "Swimming Pool and Bathing Beach", effective April 22, 1992, and repeals Division of Health rule 64CSR25, "Design Standards for Swimming Pools", effective May 5, 1980.

1.6. Applicability. -- This rule applies to the owners and operators of recreational water facilities.

1.7. Enforcement. -- This rule is enforced by the Director of the Division of Health.<sup>1</sup>

**§64-16-2. Definitions.**

2.1. Bathing Beach. -- An organized and controlled bathing place located on a natural stream, pond or lake, or on an artificial pond or lake which is formed by impounding a natural waterway.

2.2. Director. -- The Director of the Division of Health or his or her designee.

2.3. Fecal Accident. -- The release of visible fecal matter into the water of a recreational water facility.

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<sup>1</sup> The Department of Health and Human Resources (DHHR) was created by the Legislature's reorganization of the executive branch of State government in 1989. The Department of Health was renamed the Division of Health and made a part of the DHHR (W. Va. Code § 5F-1-1 et seq.). Administratively within the DHHR the Bureau for Public Health through its Commissioner carries out the public health function of the Division of Health.

2.4. First Aid Kit. -- A packaged set of materials used for emergency treatment of injured or sick persons before professional medical care is available that includes a minimum of: adhesive compresses or band-aids of various sizes; adhesive tape; eye dressing pads (4" x 4" and 3" x 3"); gauze pads (4" x 4" and 3" x 3"); roller gauze (2", 3" and 4" widths); scissors; tweezers; triangular bandages; cold packs; personal protective equipment, including latex or other impermeable gloves; and resuscitation masks with one-way valves.

2.5. Operator. -- A person responsible for the operation of a recreational water facility.

2.6. Patron. -- A customer, client, or paying or non-paying guest at a recreational water facility.

2.7. Permit. -- A written document issued by the Director giving a designated person permission to establish, construct, renovate, or operate a recreational water facility.

2.8. Person. -- An individual, city, town, partnership, association, company, corporation, government agency, institution, apartment, motel, country club, camp, or any other legal entity.

2.9. Private Residential Swimming Pool -- An indoor or outdoor structure, chamber, or tank containing a body of water for swimming, diving, or bathing located at a single residential dwelling that houses no more than three families and used exclusively by the residents and their non-paying guests.

2.10. Qualified Water Facility Operator. -- An individual who has passed a recognized Certified Pool Operator certification course, such as those offered by the National Spa and Pool Institute, the YMCA, or an equivalent course approved by the Director.

2.10.a. Recreational Water Facility. -- A body of water, under the control of a person, that has been modified, improved, constructed or installed for the purpose of public swimming or bathing. It includes, but is not limited to, bathing beaches; swimming, wading, and diving pools; water slides, spray pools, lazy rivers, and wave pools; spas, hot tubs, therapeutic pools, hydrotherapy pools, and whirlpools; facilities operated by communities, subdivisions, apartment complexes, condominiums, clubs, camps, schools, institutions, parks, mobile home parks, hotels, and similar recreational and public facilities. A recreational water facility does not include a private residential swimming pool as defined in this rule.

2.11. Shallow End. -- The part of a recreational water facility that has a depth of five (5) feet or less.

2.12. Spa. -- A unit designed for recreational use, including a hot tub, that is not drained, cleaned, or refilled for each user, and that may include hydrojet circulation, hot water, or air induction bubbles.

2.13. Swimming Pool. -- An artificial basin, chamber, or tank intended to be used for swimming, diving, therapy, competition, instruction, or recreational type bathing. The term does

not include residential or individual therapeutic tubs or tanks.

2.14. Wading Pool. -- A small, shallow swimming pool not more than twenty-four (24) inches deep intended to be used for wading.

2.15. Wave Pool. -- A swimming pool designed for the purpose of producing wave action in the water.

### **§64-16-3. Construction Permit.**

3.1. A person shall not establish, construct or renovate a recreational water facility without first obtaining a construction permit from the Director.

3.2. The applicant shall submit four (4) sets of completed applications, plans and specifications to the Director for review and approval at least forty-five (45) days prior to the date on which he or she requests that the construction permit takes effect.

3.3. The applicant shall submit a written permit application on a form obtained from the Director. The application, plans, and specifications shall include, but not be limited to:

3.3.a. Vicinity and site plans;

3.3.b. Detailed construction drawings;

3.3.c. Water source and treatment detail; and

3.3.d. Specifications for filtration, chlorination, testing equipment and other pertinent factors necessary for a complete operative system.

3.4. The Director may suspend or revoke a construction permit if a person fails to comply with the provisions of the permit or this rule.

3.5. The Director shall deny a construction permit if the information on the application form is incomplete, inaccurate, false or misleading, or indicates that the applicable provisions of this rule cannot be met.

3.6. A person whose application for a construction permit has been denied, or whose permit has been suspended or revoked, may submit a written petition to the Director requesting a hearing on the matter, and the Director shall grant a hearing on the matter within ten (10) days after he or she has received the petition.

3.7. The recreational water facility shall be constructed or renovated in accordance with the plans and specifications approved by the Director, unless the Director grants written approval for a deviation from the approved plans and specifications.

#### **§64-16-4. Operating Permit.**

4.1. A person shall not in any manner conduct, control, manage, maintain, or operate a recreational water facility without obtaining an operating permit from the Director.

4.2. The applicant shall submit to the Director a written operating permit application on a form obtained from the Director and signed by the applicant.

4.3. The applicant shall submit to the Director an application for an operating permit at least fifteen (15) days before the operation of the recreational water facility is scheduled to begin.

4.4. The Director shall deny a permit if the information on the application form is incomplete, inaccurate, false, or misleading, or indicates that the applicable provisions of this rule cannot be met.

4.5. A person shall comply with the applicable provisions of this rule in order to receive and retain an operating permit.

4.6. Recreational water facilities that are in operation on the date this rule becomes effective, and that meet all applicable prior rules, are eligible for a permit to operate. Construction, modification, installation, or renovations proposed for a recreational water facility after the effective date of this rule shall comply with all applicable provisions of this rule.

4.7. Permits are not transferable and become invalid immediately upon a change of ownership, suspension or revocation.

4.8. In the event of a proposed or an actual change in ownership of a recreational water facility, an applicant shall submit an application for an operating permit to the Director at least fifteen (15) days prior to the date of the proposed or actual change.

4.9. The Director may suspend or revoke a permit if he or she finds that the recreational water facility is in violation of this rule.

4.10. The Director shall not reinstate an operating permit until he or she determines by an inspection that the recreational water facility is in compliance with all applicable provisions of this rule.

4.11. The operator shall prominently display the operational permit in a conspicuous place at the recreational water facility.

4.12. A person whose application for an operating permit has been denied, or whose permit has been suspended or revoked, may submit a written petition to the Director requesting a hearing on the matter, and the Director shall grant a hearing on the matter within ten (10) days after he or she has received the petition.

#### **§64-16-5. Inspections, Closure Orders.**

5.1. The Director shall inspect each recreational water facility not less than two (2) times per year.

5.2. The owner, operator, or person in charge of a recreational water facility shall provide the Director immediate access to the premises for the purpose of inspection, and shall provide requested information for the inspection.

5.3. When the Director inspects a facility and finds that the recreational water facility is not in compliance with any of the provisions of this rule, he or she shall provide the operator with a written inspection report noting the violations. The operator shall correct the violations within the time frame specified in the inspection report.

5.4. The Director may order the immediate closure of a recreational water facility when he or she finds:

5.4.a. A condition at the recreational water facility that endangers the life, health, or safety of the patrons or employees;

5.4.b. Excessive turbidity as determined by a standard clarity sight disk; or

5.4.c. A disinfectant residual that is less than that permitted under the provisions in subdivisions 7.1.d and 7.1.e of this rule.

5.5. An issued closure order shall remain in effect until the Director determines that necessary corrections have been made.

#### **§64-16-6. Design, Construction.**

6.1. A recreational water facility that is designed, constructed, or renovated after the effective date of this rule shall comply with the National Spa and Pool Institute ANSI/NSPI-1 1991 Standard for Public Swimming Pools and ANSI/NSPI-2 1999 Standard for Public Spas. These standards are available through the internet at: <http://www.nspi.org>.

#### **§64-16-7. Water Quality.**

7.1. Disinfection.

7.1.a. A recreational water facility, with the exception of bathing beaches, shall be disinfected continuously by the use of chemical feed equipment.

7.1.b. A recreational water facility may not use hand batch feeding of disinfecting chemicals except when performing super-chlorination or shocking.

7.1.c. Disinfecting materials and methods shall:

7.1.c.1. Be used only with the approval of the Director.

7.1.c.2. Not create an undue safety hazard;

7.1.c.3. Be handled, stored, and used according to directions;

7.1.c.4. Be compatible for use with other chemicals commonly used in pool water treatment, or be clearly identified as having a use limitation;

7.1.c.5. Not impart toxic properties to the water when used according to directions;  
and

7.1.c.6. Provide an effective residual which can be easily and accurately measured by a field test procedure.

7.1.d. When chlorine is used as the disinfectant, the recreational water facility shall maintain a free chlorine residual of at least one (1) milligram per liter (mg/l) to a maximum of five (5) milligrams per liter (mg/l) throughout.

7.1.e. When bromine is used as the disinfectant, the recreational water facility shall maintain a residual of at least two (2) milligrams per liter (mg/l) to a maximum of five (5) milligrams per liter (mg/l) throughout.

7.1.f. Disinfecting materials or methods other than chlorine and bromine:

7.1.f.1. Shall be approved by the Director prior to being used;

7.1.f.2. Shall be registered as a bactericidal agent by the U.S. Environmental Protection Agency; and

7.1.f.3. May be used if they provide a satisfactory residual which is easily measured and is as effective under conditions of use as the chlorine concentrations required in this rule.

7.1.g. When cyanuric acid is used as a stabilizer, it must be maintained at a level between ten (10) and one hundred (100) milligrams per liter (mg/l).

7.2. Chemical Requirements.

7.2.a. The water in a recreational water facility, except for bathing beaches, shall conform to the chemical limits specified in Division of Health rule, "Public Water Systems," 64CSR3.

7.2.b. Bathing beach water shall conform to the standards prescribed for Category A in Appendix E of the Environmental Quality Board's rule, "Requirements Governing Water Quality Standards," 46CSR01.

### 7.3. Bacteriological Requirements.

7.3.a. The Director shall collect a series of water samples for bacteriological analysis from each recreational water facility. A series shall consist of one (1) water sample each from the deep end, the shallow end, and the wading pool, if applicable, or two (2) water samples from different locations of a bathing beach.

7.3.b. Within thirty (30) days of the opening of seasonal recreational water facilities, the Director shall collect not less than one (1) series of samples, and during the same season of operation, he or she shall collect not less than one (1) additional series of samples. For indoor recreational water facilities, the Director shall collect not less than one (1) complete series of samples every six (6) months.

7.3.c. A laboratory approved by the Director shall examine water samples after the residual disinfectant in the samples is deactivated.

7.3.d. The Director shall collect water samples while the recreational water facility is in use.

7.3.e. If laboratory results of a water sample from a recreational water facility, except for bathing beaches, indicate the presence of coliform organisms:

7.3.e.1. The operator shall super-chlorinate the recreational water facility, and the water shall be retested immediately; and

7.3.e.2. The operator shall investigate the cause of the unsatisfactory sample and initiate, or cause to be initiated, corrective action.

7.3.f. If laboratory results of a water sample from a bathing beach indicate that e. coli exceeds two hundred thirty-five (235) per one hundred (100) milliliters in any single sample:

7.3.f.1. The bathing beach shall cease operation and the water shall be retested immediately;

7.3.f.2. The operator shall investigate the cause of the unsatisfactory sample and initiate, or cause to be initiated, corrective action.

### 7.4. pH and Alkalinity Control.

7.4.a. A recreational water facility, except for bathing beaches, shall maintain the pH of the water in an alkaline condition of not less than seven point two (7.2) nor greater than seven



point eight (7.8) at any time the facility is in use.

7.4.b. A recreational water facility that is equipped with gaseous chlorination feeders shall provide a mechanical chemical feeder to continuously control the pH. Hand batch feeding of chemicals to control pH is prohibited.

7.4.c. When the pH of the water at a bathing beach is less than six point five (6.5) or greater than eight point five (8.5), the operator shall close the beach to bathers.

7.4.d. A recreational water facility, except for bathing beaches, shall maintain the total alkalinity at a level between sixty (60) and one hundred eighty (180) milligrams per liter (mg/l) as calcium carbonate.

#### 7.5. Water Clarity.

7.5.a. A recreational water facility, except for bathing beaches, shall maintain sufficient water clarity to allow the main drain or a six (6) inch black disk on the bottom of the deepest part of the recreational water facility to be readily visible when viewed from the recreational water facility sidewall.

7.5.b. The operator shall use Table 64-15 C at the end of this rule as a guideline to assist him or her in maintaining optimum water quality at the recreational water facility.

### **§64-16-8. Control Tests and Operation Records.**

8.1. Except for bathing beaches, recreational water facilities shall have available at all times approved testing equipment for determining pH, free chlorine, total chlorine, total alkalinity, and other tests required by the Director.

8.2. Equipment used for testing free or total chlorine shall use the DPD (N, N-Diethyl-P-Phenylenediamine) method. Test strips or Oxidation Reduction Potential (ORP) may be used as a measuring parameter, but shall not be used when registering required readings on daily operational reports required by the Director.

8.3. The operator shall maintain for a minimum of one (1) year written results of required tests, attendance data, number of hours of equipment operation, and any other information required by the Director.

8.4. The operator shall submit on forms obtained from the Director a weekly summary of operation and tests to the Director.

8.5. Except for bathing beaches, the operator shall conduct tests to determine the pH and free chlorine residual of the water not less than twice daily, and record the results on the weekly summary required under subsection 8.4 of this section.

8.6. The operator shall properly maintain test kits and shall renew reagents semi-annually for indoor facilities and prior to the annual opening for seasonal use facilities. Only those reagents manufactured for the test kit in use shall be used.

8.7. Except for bathing beaches, when a control test indicates that the free chlorine residual is less than or equal to zero point five (0.5) milligrams per liter (mg/l), the recreational water facility shall cease operations until the free chlorine level is one (1) milligram per liter (mg/l) or above.

8.8. Except for bathing beaches, when a control test indicates that the free bromine residual is less than or equal to one (1) milligram per liter (mg/l), the recreational water facility shall cease operations until the free bromine level is two (2) milligrams per liter (mg/l) or above.

#### **§64-16-9. Supervision of Patrons.**

9.1. Except for bathing beaches, a qualified water facility operator shall be available for consultation at all times the recreational water facility is open for use.

9.2. The operator shall have the authority to:

9.2.a. Exclude from the premises any patron who does not follow the safety and sanitation rules; and

9.2.b. Evacuate the facility as needed to protect the health and safety of the employees.

9.3. The operator shall supervise the patrons and enforce the following rules:

9.3.a. An individual shall not urinate, defecate, spit, spout water, or blow his or her nose in the water.

9.3.b. Patrons who have open sores, or an infectious disease that is transmissible by water may not use the recreational water facility.

9.3.c. Patrons and the apparel they wear in the water shall be visibly clean.

9.3.d. Children who are not toilet trained shall wear tight fitting plastic underwear that will prevent leakage, or use other appropriate apparel approved by the Director.

9.3.e. Patrons under the influence of drugs or alcohol or exhibiting disruptive behavior are not permitted in the recreational water facility.

9.3.f. Except for service animals, animals shall not be allowed in the recreational water facility.

9.3.g. Food, drink, gum, and tobacco may be used only in designated and controlled

areas.

9.3.h. Glass containers or other materials that might create hazardous conditions or interfere with efficient operation of the facility are not allowed.

9.3.i. Diving from the deck shall be permitted only in designated areas where the water is more than five (5) feet in depth.

9.4. The recreational water facility shall prominently post the rules applicable to patron behavior so as to be readily visible to the patrons.

#### **§64-16-10. Safety Requirements.**

10.1. A recreational water facility shall have a Shepherd's crook and reach pole available for use.

10.2. At recreational water facilities with lifeguards, the facility shall provide one (1) rescue tube for each lifeguard on duty that is readily accessible for emergency use.

10.3. At recreational water facilities without lifeguards, the facility shall provide a minimum of one (1) unit of life saving equipment available for patron use as approved by the Director.

10.4. A recreational water facility shall maintain all equipment in good repair.

10.5. A recreational water facility shall be equipped with a readily available, fully stocked first aid kit according to the provisions in subsection 2.5 of this rule.

10.6. Operators shall not permit employees who have open sores or an infectious disease that is transmissible by water in the water or to serve as lifeguards.

10.7. Each lifeguard on duty shall have immediate access to personal protective equipment including, but not limited to, a resuscitation mask and latex or other impermeable gloves.

10.8. Except for spas, hot tubs, and whirlpools, if a recreational water facility requires an admission fee such as a gate receipt, annual pass, or membership dues, or is used by an organized camp or a child care center, the facility shall provide certified lifeguards on duty at all times the facility is open according to the following:

10.8.a. The number of lifeguards required shall be determined by the size of the recreational water facility and the number of patrons as described in Table 64-16 B at the end of this rule. The operator may request in writing from the Director a variance in the number of lifeguards required.

10.8.b. A lifeguard shall have a current life guarding certificate from the American Red Cross, Ellis and Associates, the YMCA, or an equivalent organization approved by the Director.

10.8.c. A lifeguard shall have a current cardiopulmonary resuscitation (CPR) certificate from the American Red Cross, the American Heart Association, the National Safety Council, or an equivalent organization approved by the Director.

10.8.d. A lifeguard shall have a current first aid certificate, equal to or better than the American Red Cross Standard First Aid or National Safety Council First Aid Certification or an equivalent organization approved by the Director.

10.8.e. Parents or accompanying adults shall not leave children unattended in a wading pool.

10.8.f. The employment of lifeguards is recommended, but not mandatory at:

10.8.f.1. Mobile home parks, travel trailer camps, hotels, motels, apartment complexes, or condominiums that have recreational water facilities that are available for use only to the residents; and

10.8.f.2. Mobile home parks, travel trailer camps, hotels, motels, apartment complexes, or condominiums that have recreational water facilities with a depth of five (5) feet or less.

10.8.g. If the facility employs no lifeguards, the management shall post a sign in a prominent location near the recreational water facility stating "Warning: No lifeguard on duty – All persons under the age of fourteen (14) must be accompanied by an adult."

10.9. Each recreational water facility shall have a blood-borne pathogen plan based on the Occupational Safety and Health Administration's standards.

10.10. Telephone service shall be available within one hundred (100) feet of the recreational water facility, and emergency phone numbers for rescue agencies shall be posted.

10.11. Each recreational water facility shall have a written emergency action plan that includes all life-threatening emergencies, non-life-threatening emergencies, chemical spills, and environmental emergencies.

10.12. The recreational water facility shall take appropriate measures to avoid entrapment of patrons on drains.

10.12.a. Recreational water facilities in operation at the time this rule becomes effective must upgrade single drains to meet National Spa and Pool Institute ANSI/NSPI-1 1991 Standard for Public Swimming Pools and ANSI/NSPI-2 1999 Standard for Public Spas within three years of the effective date of this rule. These standards are available through the internet at: <http://www.nspi.org>.

10.12.b. Spas constructed, installed, or modified after the effective date of this rule shall provide an emergency shut-off switch and an audible alarm placed within twenty (20) feet of the spa.

10.13. Recreational water facilities shall comply with applicable provisions of the State Fire Commission's rule, "Fire Code," 87CSR01.

10.14. The patron load shall be determined by the National Spa and Pool Institute ANSI/NSPI-1 1991 Standard for Public Swimming Pools.

#### **§64-16-11. Routine Maintenance and Operation.**

11.1. The following requirement applies to all recreational water facilities:

11.1.a. A recreational water facility shall keep deck areas, sidewalks and other areas around the recreational water facility and bath house clean.

11.2. The following requirements apply to all recreational water facilities except bathing beaches:

11.2.a. The operator shall remove visible debris from the bottom of the recreational water facility every twelve (12) hours or as often as necessary to maintain visibility and maximize safety.

11.2.b. The operator shall maintain the water surface of a recreational water facility free of visible scum and floating matter.

11.2.c. The operator shall drain the recreational water facility as necessary for inspection, cleaning, or repair.

11.2.d. The operator shall ensure that the recreational water facility operates the water treatment equipment twenty-four (24) hours per day.

11.1. A recreational water facility shall ensure that ventilation for indoor recreational water facilities meets ANSI/ASHRAE Standard 62-1999 Ventilation for Acceptable Indoor Air. This standard is available through the internet at: <http://www.ashrae.org>.

#### **§64-16-12. Bathhouses, Concessions, and Other Appurtenant Facilities.**

12.1. A recreational water facility shall provide toilets, lavatories, showers and drinking fountains as required by the State Fire Commission rule, "State Building Code," 87CSR04.

12.2. A recreational water facility shall keep bathhouses, clothing storage facilities, toilet facilities, shower facilities and other appurtenant facilities in good repair and in a clean, sanitary

condition.

12.3. A recreational water facility shall ensure that a supply of toilet tissue is available at each toilet.

12.4. A recreational water facility shall provide hand cleanser and an approved hand drying device at each lavatory or group of adjacent lavatories.

12.5. A recreational water facility shall ensure that hot and cold running water is supplied from mixing faucets for showers and lavatories, or that tempered water is provided in lieu of hot and cold running water supplied from mixing faucets.

12.6. A recreational water facility that provides a concession stand shall operate the concession stand in accordance with Division of Health rule, "Food Establishments," 64CSR17.

12.7. A recreational water facility shall provide a placard in the filter room that lists the water volume and gallons per minute of water needed for the pool's turnover rate.

#### **§64-16-13. Compliance.**

13.1. Except for bathing beaches, if any of the following events described in subdivisions 13.1.a through 13.1.i of this section occur while a recreational water facility is in use, the operator shall close the recreational water facility and take the corrective action specified in Table 64-16 A at the end of this rule before reopening the facility:

13.1.a. The free chlorine residual of water is less than or equal to zero point five (0.5) milligrams per liter (mg/l).

13.1.b. The pH of water is greater than seven point eight (7.8).

13.1.c. The pH of water is less than seven point two (7.2).

13.1.d. An inadequate number of lifeguards or lifesaving equipment is provided as required under this rule.

13.1.e. An accident occurs that causes a lifeguard to leave his or her station or results in the discharge of body fluids into the water.

13.1.f. The free bromine residual is less than or equal to one (1) milligram per liter (mg/l).

13.1.g. A failure of the circulation pump or disinfectant pump occurs.

13.1.h. A fecal accident occurs or blood or vomitus is released into the water.

13.2. Except for bathing beaches, the operator shall close only the affected area of the recreational water facility if the water clarity is not in compliance with subsection 7.5 of this rule.

13.3. At a bathing beach, if an inadequate number of lifeguards or lifesaving equipment is provided or an accident occurs that causes a lifeguard to leave his or her station, the operator shall close the bathing beach immediately and not reopen the facility until it is in compliance.

13.4. The operator shall maintain a written record of each event, including the date the event occurred, a description of the event, and the corrective action taken.

**§64-16-14. Penalties.**

14.1. Any person who violates any provision of this rule or orders issued pursuant to this rule is subject to a fine of not more than five hundred dollars (\$500), as provided under W.Va. Code 16-1-18.

**§64-16-15. Administrative Due Process.**

15.1. Those persons adversely affected by the enforcement of this rule desiring a contested case hearing to determine any rights, duties, interests or privileges shall do so in a manner prescribed in the Division of Health's rule, "Rules of Procedure for Contested Case Hearings and Declaratory Rulings, 64CSR1."

**TABLE 64-16 A - CLOSURE REQUIREMENTS**

| <b>CLOSURE EVENT</b>  | <b>CORRECTIVE ACTION REQUIRED</b>   |
|---|---|
| <b>A. Free Chlorine = 0.5 ppm or less</b>   | Close the facility. Determine the cause. Make repairs or corrections.   |
| <b>B. pH of water = greater than 7.8</b>  | Close the facility. Determine the cause. Make repairs or corrections.   |
| <b>C. pH of water = less than 7.2</b>   | Close the facility. Determine the cause. Make repairs or corrections.   |
| <b>D. Inadequate lifeguards or lifesaving equipment</b>   | Close the facility until the required number of lifeguards and lifesaving equipment are provided.   |
| <b>E. Accident Resulting In:<br/>Lifeguard leaving station OR<br/>Body fluids discharged into water</b>   | Close facility until lifeguard returns to station.<br>Follow fecal accident cleanup procedures outlined below in item I if blood or feces are discharged into the water.  |
| <b>F. Water Clarity Unsatisfactory</b><br>(Main drain or 6 inch black disk on bottom of deepest part not visible from sidewall.)  | Close the affected area until the main drain or a six (6) inch black disk on bottom of deepest part is visible from the sidewall.<br>Determine cause. Make repairs or corrections.  |
| <b>G. Free bromine = 1.0 ppm or less</b>  | Close the facility. Determine the cause. Make repairs or corrections.   |
| <b>H. Equipment Failure -<br/>Main pump or Disinfectant pumps</b>   | Close the facility immediately upon main pump failure. Close the facility when disinfectant pumps fail and free chlorine nears 0.5 ppm. Repair equipment. Test and balance chemical parameters prior to re-opening the recreational water facility.   |
| <b>I. Fecal Accident or Release of Blood or Vomitus into Water</b><br><br><u>Follow Cleanup Procedure A if:</u> <ul style="list-style-type: none"> <li>• Stool may be easily picked up; or</li> <li>• Person is not ill, but vomited due to gulping water or overexertion.</li> </ul> <u>Follow Cleanup Procedure B if:</u> <ul style="list-style-type: none"> <li>• Visible blood is discharged into the water; or</li> <li>• Stool is loose and spread in large area; or</li> <li>• Person who contaminated water is ill (stomach cramps, fever, flu-like symptoms); or</li> <li>• You cannot determine if person who contaminated water is ill.</li> </ul> | <p>Evacuate patrons from the water.<br/>Evaluate situation.</p> <p><u>Cleanup Procedure A</u></p> <ol style="list-style-type: none"> <li>1. Remove as much of the feces or vomitus as possible. Leaf catchers/rakes are helpful.</li> <li>2. Vacuum remaining visible material or push remaining small material towards overflow or skimmers until all visible material is removed.</li> <li>3. Spot disinfect area of contamination:               <ol style="list-style-type: none"> <li>a. Add 1 oz. of calcium hypochlorite (or 4 to 5 oz. of sodium hypochlorite) which has been mixed in small bucket of water to the affected area; and</li> <li>b. Brush the walls and bottom of pool in contaminated area.</li> </ol> </li> <li>4. Wait 30 minutes to assure chlorine and pH levels meet minimum requirements, especially in area where chemicals were added.</li> </ol> <p><u>Cleanup Procedure B</u></p> <ol style="list-style-type: none"> <li>1. First complete all steps of Cleanup Procedure A.</li> <li>2. Swimming Pools:               <ol style="list-style-type: none"> <li>a. Raise chlorine to maintain free chlorine residual of 5 ppm and recirculate water for at least 24 hours; or</li> <li>b. Raise chlorine to maintain free chlorine residual of 20 ppm and recirculate water for at least 8 hours.</li> </ol> </li> <li>3. Wading Pools and Spas:               <ol style="list-style-type: none"> <li>a. Drain wading pool or spa;</li> <li>b. Brush sides and bottom with 100 ppm chlorine; and</li> <li>c. Refill. Balance chemicals.</li> </ol> </li> <li>4. Backwash the filter.</li> </ol> |



**TABLE 64-16 B - LIFEGUARD REQUIREMENTS**

| <b>NUMBER<br/>OF<br/>PATRONS<br/>IN<br/>WATER</b> | <b>WATER SURFACE AREA IN SQUARE FEET</b> |                  |                  |                  |                         |                 |
|---|--|------------------|------------------|------------------|-------------------------|-----------------|
|   | <b>Up to<br/>2000</b>                    | <b>2001-4000</b> | <b>4001-6000</b> | <b>6001-8000</b> | <b>8001-<br/>10,000</b> | <b>10,000 +</b> |
| <b>1-30</b>                                       | <b>1</b>                                 | <b>2</b>         | <b>2</b>         | <b>3</b>         | <b>3</b>                | <b>3</b>        |
| <b>31-60</b>                                      | <b>2</b>                                 | <b>2</b>         | <b>3</b>         | <b>3</b>         | <b>3</b>                | <b>4</b>        |
| <b>61-90</b>                                      | <b>2</b>                                 | <b>3</b>         | <b>3</b>         | <b>3</b>         | <b>4</b>                | <b>4</b>        |
| <b>91-120</b>                                     | <b>3</b>                                 | <b>3</b>         | <b>3</b>         | <b>4</b>         | <b>4</b>                | <b>4</b>        |
| <b>121-150</b>                                    | <b>3</b>                                 | <b>3</b>         | <b>4</b>         | <b>4</b>         | <b>4</b>                | <b>4</b>        |
| <b>151 +</b>                                      | <b>3</b>                                 | <b>4</b>         | <b>4</b>         | <b>4</b>         | <b>4</b>                | <b>5</b>        |

**TABLE 64-16 C - WATER QUALITY GUIDELINES**

| A. DISINFECTANT LEVELS                                    | MINIMUM | IDEAL            | MAXIMUM | COMMENTS   |
|---|---------|------------------|---------|--|
| 1. Free chlorine<br>mg/l (ppm)                            | 1.0     | 2.0 - 3.0        | 5.0     | Chlorine should be maintained at this level continuously. Super-chlorinate regularly. See B-1 below.   |
| 2. Combined chlorine<br>mg/l (ppm)                        | None    | None             | 0.5     | Eliminated by super-chlorination.<br>If too high, you may have: <ul style="list-style-type: none"> <li>• Sharp chlorinous odors</li> <li>• Eye burn</li> <li>• Algae growth</li> <li>• Bacteria growth</li> </ul>  |
| 3. Bromine<br>mg/l (ppm)                                  | 2.0     | 2.0-3.0          | 5.0     | Consult health dept. officials before use.   |
| B. CHEMICAL VALUES  | MINIMUM | IDEAL            | MAXIMUM | COMMENTS   |
| 1. pH   | 7.2     | 7.5              | 7.8     | <p align="center"><b>TOO HIGH</b></p> <p>Low chlorine efficiency      Scale formation<br/>Increased chemical demand      Cloudy water<br/>Eye discomfort</p> <p align="center"><b>TOO LOW</b></p> <p>Rapid dissipation of chlorine      Eye discomfort<br/>Plaster/concrete etching      Corrosion of metals</p>     |
| 2. Total alkalinity<br>as CaCO <sub>3</sub><br>mg/l (ppm) | 60      | 80-100<br>or 120 | 180     | <p align="center"><b>TOO HIGH</b></p> <p>Increased scaling potential      Cloudy water<br/>pH maintained too high</p> <p align="center"><b>TOO LOW</b></p> <p>Corrosion tendency      pH bounce</p>  |
| 3. Undissolved solids<br>mg/l (ppm)<br>(Turbidity)        | None    | None             | None    | <p align="center"><b>TOO HIGH</b></p> <p>Chlorine level may be too low<br/>Filtration system may be inoperative<br/>May lead to drowning due to decreased visibility</p>   |
| 4. Dissolved solids<br>mg/l (ppm)                         | 300     | ...              | 2000    | <p align="center"><b>TOO HIGH</b></p> <p>Chlorine may be less effective      Salty taste<br/>Add fresh water to reduce solids      Dull water<br/>Chemical balance difficult to maintain<br/>Scaling may occur</p> <p align="center"><b>TOO LOW</b></p> <p>Total alkalinity may be too low      Aggressive water</p> |

**TABLE 64-16 C - WATER QUALITY GUIDELINES**

| <b>B. CHEMICAL VALUES (CONT'D)</b>        | <b>MINIMUM</b> | <b>IDEAL</b> | <b>MAXIMUM</b>     | <b>COMMENTS</b>   |
|---|----------------|--------------|--------------------|---|
| 5. Hardness,<br>as CaCO <sub>3</sub> mg/l | 50             | 125          | 800                | <p>TOO HIGH<br/>Scaling may occur      Water has bad "feel"<br/>Short filter runs</p> <p>TOO LOW<br/>Plaster or concrete etching      Corrosion may occur</p>   |
| 6. Copper<br>mg/l (ppm)                   | None           | None         | 0.3                | <p>TOO HIGH<br/>Staining may occur      Water may discolor<br/>Chlorine dissipates rapidly      Filter may plug<br/>May indicate pH too low      Corrosion may occur</p>  |
| 7. Iron<br>mg/l (ppm)                     | None           | None         | 0.2                | <p>TOO HIGH<br/>Staining may occur      Waste may discolor<br/>Chlorine dissipates rapidly      Filter may plug</p>   |
| 8. Manganese<br>mg/l (ppm)                | None           | None         | 0.05               | <p>TOO HIGH<br/>Staining may occur</p>  |
| <b>C. BIOLOGICAL VALUES</b>               | <b>MINIMUM</b> | <b>IDEAL</b> | <b>MAXIMUM</b>     | <b>COMMENTS</b>   |
| 1. Algae                                  | None           | None         | None               | <p>Super-chlorinate or shock treat facility<br/>Supplement with brushing and vacuuming<br/>Maintain adequate free chlorine residual<br/>Use approved algaecide according to label direction</p>   |
| 2. Bacteria                               | None           | None         | Refer to<br>64CSR3 | <p>If bacteria count exceeds health dept. requirements:<br/>Super-chlorinate recreational water facility<br/>Follow proper maintenance procedures<br/>Maintain proper free chlorine residual</p>  |
| <b>D. STABILIZER</b>                      | <b>MINIMUM</b> | <b>IDEAL</b> | <b>MAXIMUM</b>     | <b>COMMENTS</b>   |
| 1. Cyanuric acid<br>mg/l (ppm)            | 10             | 30-50        | 100                | <p>TOO HIGH<br/>May exceed health department regulations</p> <p>TOO LOW<br/>Chlorine residual rapidly destroyed by sunlight</p> <p>NOTE<br/>Stabilizer is not needed for indoor facilities<br/>and should not be used in hot water facilities.<br/>Cyanuric acid may titrate as Alkalinity.</p> |
| <b>E. ALGAEKILLS</b>                      | <b>MINIMUM</b> | <b>IDEAL</b> | <b>MAXIMUM</b>     | <b>COMMENTS</b>   |
| 1. Quaternary<br>mg/l (ppm)               | ...            | ...          | ...                | Not permitted in public recreational water facilities.  |

**TABLE 64-16 C - WATER QUALITY GUIDELINES**

| <b>E. ALGACIDES (CONT'D)</b>                   | <b>MINIMUM</b>   | <b>IDEAL</b> | <b>MAXIMUM</b>        | <b>COMMENTS</b>  |
|--|--|--------------|-----------------------|--|
| 2. Copper based (nonchelated) mg/l (ppm)       | 0.1  | 0.2          | 0.3                   | Ineffective against some algae.<br>Consult health dept. officials before using.<br>May contribute to staining.   |
| 3. Copper based (chelated) mg/l (ppm)          | 0.1  | 1.0          | 3.0                   | Ineffective against some algae.<br>Consult health dept. officials before using.<br>May contribute to staining.   |
| 4. Silver based mg/l (ppm)                     | 0.5  | 1.5          | 3.0                   | Precipitates with cyanuric acid.<br>Ineffective against some algae.<br>Consult health dept. officials before use.  |
| <b>F. REMEDIAL PRACTICES</b>                   | <b>MINIMUM</b>   | <b>IDEAL</b> | <b>MAXIMUM</b>        | <b>COMMENTS</b>  |
| 1. Super-Chlorination                          | When Combined Chlorine is 0.2 mg/l (ppm) or more   |              |                       | * As needed  |
| 2. Required super-chlorination /shock chlorine | 10*  |              |                       | *10 times combined chlorine reading.<br>Must be done when the facility is not in use.<br>May reopen when free chlorine is below 5.0 ppm.   |
| 3. Floccing                                    | Not Recommended  |              |                       | Consult health dept. officials before using.   |
| 4. Water Replacement - Hot water facility      | ...  | ...          | ...                   | Change water and clean monthly as a minimum, more frequently when heavy use and chemical treatment difficulties are experienced.   |
| <b>G. TEMPERATURE</b>                          | <b>MINIMUM</b>   | <b>IDEAL</b> | <b>MAXIMUM</b>        | <b>COMMENTS</b>  |
| 1. Water temperature - Hot water facility      | Patron preference  | ...          | 105°F                 | TOO HIGH<br>Excessive fuel requirement   Increased chlorine use<br>Increased scaling potential   Patron discomfort<br>Health threat to those with high blood pressure<br>TOO LOW - Patron discomfort |
| 2. Water temp. - Artificially heated           | 75 °F  | ...          | 90 °F                 |  |
| 3. Air temperature Indoor facilities           | Water temp. minus 2°F  | ...          | Water temp. plus 8 °F | Excluding hot water facilities.  |
| <b>H. WATER CLARITY</b>                        | <b>MINIMUM</b>   | <b>IDEAL</b> | <b>MAXIMUM</b>        | <b>COMMENTS</b>  |
| 1. Turbidity                                   | Must be able to see main drain or six inch black disk on bottom of deepest part from the sidewall. |              |                       | TOO HIGH<br>Chlorine level may be too low<br>Filtration level may be inoperative<br>May lead to drowning due to decreased visibility   |