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1 CABINET FOR HEALTH AND FAMILY SERVICES

2 Department for Public Health

3 Division of Public Health Protection and Safety

4 (Amendment)

5 902 KAR 10:120. Kentucky public swimming and bathing facilities.

6 RELATES TO: KRS Chapter 13B, 211.015, 211.090, 211.210, 211.220 [211.180],

7 211.990(2), 322.110, 323.020, 29 C.F.R. 1910.119, 15 U.S.C. 8003

8 STATUTORY AUTHORITY: KRS [~~Chapter 13B,~~] 194A.050(1), 211.180(1)

9 [~~211.090(3), HB 492 (1988 Acts), EO 96-862]~~

10 NECESSITY, FUNCTION, AND CONFORMITY: KRS 194A.050(1) authorizes the

11 secretary of the Cabinet for Health and Family Services to promulgate administrative

12 regulations necessary to protect, develop, and maintain the health, personal dignity,

13 integrity, and sufficiency of Kentucky citizens and to operate programs and fulfill the

14 responsibilities vested in the cabinet[~~HB 492 (1988 Acts) directs the Cabinet for Health~~

15 ~~Services to regulate the design and construction of water distribution and treatment~~

16 ~~systems for swimming pools]. KRS 211.180 authorizes[~~directs~~] the cabinet [~~for Health~~~~

17 ~~Services]~~ to adopt administrative regulations relating to public facilities, and their

18 operation and maintenance in a safe and[~~;~~] sanitary manner to protect public health and

19 prevent health hazards. This administrative regulation establishes uniform standards for

20 public swimming pools and [~~other swimming or~~] bathing facilities. [~~The function of this~~

21 ~~administrative regulation is to assure the proper design and construction of new facilities~~

1 ~~as related to water distribution and treatment systems, and the proper operation and~~
2 ~~maintenance of all such facilities in a manner which will protect the public health.~~
3 ~~Executive Order 96-862, effective July 2, 1996, reorganizes the Cabinet for Human~~
4 ~~Resources and places the Department for Public Health and its programs under the~~
5 ~~Cabinet for Health Services.]~~

6 Section 1. Definitions. (1) "Accessible" means, if applied to a fixture, connection,
7 appliance or equipment, having access to it, but may require the removal of an access
8 panel, door or similar obstruction.

9 (2) "Agitation" means the mechanical or manual movement to dislodge the filter aid and
10 dirt from the filter element.

11 (3) "Air gap" means the unobstructed vertical distance through the free atmosphere
12 between the lowest opening from any pipe or faucet conveying water or waste to a tank,
13 plumbing fixture, receptor or other device, and the flood level rim of the receptacle.

14 (4) "Alkalinity" or "total alkalinity" means the amount of carbonates or bicarbonate
15 present in water solution as expressed in parts per million (ppm).

16 (5) "Approved" means that which is acceptable to the cabinet.

17 (6) "Backwash" means the flow of water through the filter element or media in the
18 reverse direction sufficient to dislodge the accumulated dirt and filter aid and remove them
19 from the filter tank.

20 (7) "Backwash cycle" means the time required to backwash the filter system thoroughly.

21 (8) "Backwash rate" means the rate of application of water through a filter during the
22 backwash cycle expressed in gallons per minute per square foot of effective filter area.

23 (9) "Bather" means a person using a public swimming and bathing facility.

1 (10) "Cabinet" is defined by KRS 211.015(a).

2 (11) "Cartridge filter" means a filter that utilizes a porous cartridge as its filter media.

3 (12) "Diatomaceous earth (DE) filter" means a filter that utilizes a thin layer of
4 diatomaceous earth as its filter media that must be periodically replaced.

5 (13) "Disinfectant" means an approved chemical compound designed for the
6 destruction of pathogenic organisms in bathing facilities and includes chlorine and bromine.

7 (14) "Equalizer line" means the connection from the skimmer housing to the pool, spa,
8 or hot tub below the weir box, which is sized to satisfy pump demand and prevent air lock
9 or loss of prime and contains a float valve assembly and pop-up valve.

10 (15) "Facility operator" means a person or employee of that person who is responsible
11 for the proper operation and maintenance of the facility.

12 (16) "Filter" means a device that separates solid particles from water by recirculating it
13 through a porous substance.

14 (17) "Filter aid" means an enhancement to the efficiency of the filter media.

15 (18) "Filter cycle" means the operating time between cleaning or replacing the filter
16 media or backwash cycles.

17 (19) "Filter element" means a device within a filter tank designed to entrap solids and
18 conduct water to a manifold, collection header, pipe, or similar conduit.

19 (20) "Filtration rate" means the rate of water flow through a filter while in operation.

20 (21) "Float valve assembly" means a mechanism designed to disengage the skimmer
21 in order to prevent air from entering the pump if the water level drops below the skimmer
22 level.

23 (22) "Flow meter" means a device that measures the flow of water through piping.

1 (23) "Head loss" means the total pressure drop between the inlet and the outlet of a
2 component.

3 (24) "Holding tank" means a storage vessel to retain water for a spray pad recirculation
4 system.

5 (25) "Hydrojet" means a fitting which blends air and water creating a high velocity,
6 turbulent stream of air enriched water.

7 (26) "Inlet" means a fitting or fixture through which filtered water returns to a pool or
8 spa.

9 (27) "Main outlet" means an outlet fitting at the deepest point of the horizontal bottom
10 of a pool through which water passes to a recirculating pump or surge tank. It is often
11 referred to as a "main drain".

12 (28) "Modulating valve" means a valve that automatically regulates the flow of water
13 from the main drain through the use of a float ball.

14 (29) "Perimeter overflow system" means a channel at normal water level that extends
15 completely around the pool perimeter and is used to remove surface debris, also known as
16 an overflow or scum gutter.

17 (30) "Perlite filter" means a filter that utilizes a thin layer of perlite as its filter media
18 deposited on a septum that must be periodically replaced.

19 (31) "Play feature" means a structure or feature that is added to a pool for the purpose
20 of entertainment.

21 (32) "Plunge pool" means a pool or area within a pool designed as the termination point
22 for a water slide or water ride.

1 (33) "Pop-up valve" means a mechanism located under the float valve assembly that
2 opens to allow water to reach the pump when the float valve is activated.

3 (34) "Positive shutoff valve" means a valve that completely stops the flow of water.

4 (35) "Precoat" means the process of depositing a layer of diatomaceous earth or perlite
5 on the filter element at the start of a filter cycle.

6 (36) "Public swimming and bathing facility" means a natural or artificial body or basin of
7 water that is modified, improved, constructed, or installed for the purpose of swimming or
8 bathing. It does not include a pool at a private single family residence intended only for the
9 use of the owner and guests.

10 (37) "Readily accessible" means direct access without the necessity of removing any
11 panel, door, or similar obstruction.

12 (38) "Septum" means that part of the filter element consisting of cloth, or closely woven
13 fabric or other porous material on which the filter cake is deposited.

14 (39) "Skimmer" means a device designed to continuously remove surface film and
15 water and return it through the filter.

16 (40) "Spray pad" means an area with aquatic play features that spray or drop water for
17 the purpose of wetting people, and are designed so that there is no accumulation or
18 ponding of water on the ground, and includes both recirculating and non-recirculating water
19 systems.

20 (41) "Strainer" means a device used to remove hair, lint, leaves, or other coarse material
21 on the suction side of a pump.

22 (42) "Suction piping" means that portion of the circulation piping located between the
23 facility structure and the inlet side of a pump.

1 (43) "Superchlorinate" means the addition to facility water of an amount of chlorine
2 sufficient to produce a free available chlorine that is at least equal to ten (10) times the
3 amount of combined chlorine plus the required minimum level of free available chlorine in
4 order to oxidize the ammonia and nitrogenous materials which may be dissolved in the
5 facility water.

6 (44) "Surge tank" means a storage vessel within the pool recirculation system used to
7 retain the water displaced by bathers.

8 (45) "Total discharge head" means the amount of water that a pump will raise water
9 above its center line.

10 (46) "Total dynamic head" means the arithmetical difference between the total
11 discharge head and total suction head (a vacuum reading is considered as a negative
12 pressure). This value is used to develop the published performance curve.

13 (47) "Total residual chlorine" means the arithmetical sum of free available chlorine and
14 combined chlorine, and is composed of the following components:

15 (a) Free available chlorine, which is the amount of chlorine available to inactivate
16 microorganisms and that has not reacted with ammonia, nitrogenous material, and other
17 contaminants in swimming pool water; and

18 (b) Combined chlorine (also called "chloramine"), which is the amount of chlorine that
19 has reacted and combined with ammonia and other nitrogenous material to form chloro-
20 ammonia compounds.

21 (48) "Total suction head" means the amount of water that a pump will lift by suction.

22 (49) "Turnover rate" means the time in hours or minutes, required for the circulation
23 system to filter and recirculate a volume of water equal to the facility volume.

1 (50) "Wading pool" means a pool or area within a pool where the water depth is twenty-
2 four (24) inches or less.

3 (51) "Weir box" means an overflow system placed at normal operating water surface
4 level to remove surface debris and does not form a continuous loop around the pool
5 perimeter.

6 Section 2. Submission of Plans and Specifications for Approval. (1) No person shall
7 construct, alter, or reconstruct a public swimming and bathing facility until approval of
8 detailed plans and specifications, with supporting design data as required in this
9 administrative regulation, is granted in writing by the state or local agency having
10 jurisdiction.

11 (2) The original plans and five (5) copies shall be submitted to the local health
12 department with payment pursuant to 902 KAR 10:121.

13 (3) The front page of the plans submitted for review and approval shall contain the:

14 (a) Name of the swimming and bathing facility;

15 (b) Location by city and county;

16 (c) Name and contact information for the facility owner;

17 (d) Name of the installer; and

18 (e) Name of the engineer, architect, or person preparing the plans.

19 (4) Plans submitted by an engineer or architect shall bear the individual's official seal.

20 (5) Plans and specifications on public swimming and bathing facilities constructed by
21 the state or local government, or for a facility with surface area greater than 1,600 square
22 feet shall be prepared by an engineer or architect registered in the State of Kentucky.

23 (6) The plans shall be:

1 (a) Drawn to scale;

2 (b) Accompanied by proper specifications to permit a comprehensive review of the
3 plans including the piping and hydraulic details; and

4 (c) Include:

5 1. A site plan of the general area with a plan and sectional view of the facility complex
6 with all necessary dimensions;

7 2. A piping diagram showing all appurtenances including treatment facilities in sufficient
8 detail, as well as pertinent elevation data, to permit a hydraulic analysis of the system;

9 3. The specifications on all treatment equipment, including performance ranges of
10 pumps, disinfecting equipment, chemical feeders, filters, strainers, lights, skimmers,
11 suction outlets or return inlets, diving boards, safety equipment, and other related
12 equipment; and

13 4. Drawing of equipment room showing placement of equipment.

14 (7) One (1) set of approved plans shall be kept at the job site and available for
15 inspection.

16 (8) Upon completion of recirculation piping system construction and prior to such piping
17 being air pressure tested at ten (10) pounds per square inch of pressure for fifteen (15)
18 minutes and covered, the owner or builder shall contact the cabinet for inspection.

19 (9) Upon completion of construction, a notarized statement certifying the facility was
20 constructed in accordance with the approved plans and this administrative regulation shall
21 be submitted to the cabinet.

22 (10) The facility shall not be used before receiving a final inspection and written approval
23 from the cabinet.

1 (11) Unless construction is begun within one (1) year from the date of approval, the
2 approval shall expire. Extension of approval may be considered upon written request to the
3 cabinet.

4 (12) No change in location, construction, design, materials, or equipment shall be made
5 to approved plans or the facility without the written approval of the cabinet.

6 Section 3. Water Supplies. (1) Potable water from an approved municipal water system
7 or water district shall be supplied to all public swimming and bathing facilities. If these
8 supplies are not available, a potable water supply meeting the approval of the Energy and
9 Environment Cabinet shall be provided.

10 (2) The water supply shall be capable of providing sufficient quantities of water under
11 pressure to all water-using fixtures and equipment at the facility, and be capable of
12 providing enough water to raise the water level in swimming, diving, or wave pools, and
13 water slide plunge pools, at least one (1) inch in three (3) hours.

14 Section 4. Water Quality and Sanitary Requirements for Bathing Beaches. (1) Prior to
15 the issuance of plan and construction approval, the cabinet shall conduct a sanitary survey
16 of the proposed beach. This survey shall include an evaluation of the physical, chemical,
17 and bacteriological characteristics of the bathing beach area and the watershed.

18 (2) Physical quality. The following characteristics shall not be present in the beach area
19 or watershed:

20 (a) Sludge deposits, solid refuse, floating waste solids, oils, grease, and scum; and

21 (b) Hazardous substances being discharged into bathing beach water or watershed.

22 (3) Bacteriological quality. The bacteriological quality of water at bathing beaches shall
23 comply with the following criteria:

1 (a) It shall meet the requirements of 401 KAR 10:031. Satisfactory bacteriological
2 results shall be obtained before approval for construction is considered; and

3 (b) There shall be no sanitary or combined sewer discharges or other raw or partially
4 treated sewage discharges to the bathing beach area or immediate watershed.

5 (4) Chemical quality. There shall be no discharges of chemical substances, other than
6 disinfecting agents, capable of creating toxic reactions, or irritations to the skin or mucous
7 membranes of a bather.

8 Section 5. Sewage and Wastewater Disposal. (1) Sewage or wastewater generated
9 from the operation of a public swimming and bathing facility shall discharge to a public
10 sanitary sewer.

11 (2) If a public sanitary sewer is not available, sewage or wastewater shall be discharged
12 to a system which complies with 902 KAR 10:085.

13 (3) Outdoor deck or surface area drainage water may be discharged directly to storm
14 sewers, natural drainage areas, or to the ground surface without additional treatment. Such
15 drainage shall not result in nuisance conditions that create an offensive odor, a stagnant
16 wet area, or an environment for the breeding of insects.

17 (4) Filter backwash shall be discharged to public sanitary sewers, or if unavailable, to a
18 system approved by the cabinet.

19 Section 6. Refuse Disposal. (1) All refuse at a public swimming and bathing facility
20 shall be disposed of in a manner approved by the Energy and Environment Cabinet in KAR
21 Title 401.

22 (2) An adequate number of refuse containers, with tight fitting lids shall be provided at
23 readily accessible locations at all public swimming and bathing facilities.

1 (3) Refuse containers in women's restrooms shall be kept covered.

2 (4) Bulk refuse storage areas shall be designed and maintained to prevent rodent
3 harborage.

4 (5) Bulk refuse containers shall be:

5 (a) Of approved design and construction;

6 (b) Kept closed; and

7 (c) Placed upon an impervious surface within a suitable enclosure to prevent access by
8 animals.

9 Section 7. Facility Design and Construction. (1) All public swimming and bathing
10 facilities, and attendant structures such as bathhouses, dressing rooms, or restrooms,
11 except for beach areas at bathing beaches, shall meet the design, materials, fixture, and
12 construction requirements of 815 KAR 7:120 and 815 KAR Chapter 20.

13 (2) The wading and swimming areas at beaches where the water is less than five (5)
14 feet deep shall be separated from swimming and diving areas by lines securely anchored
15 and buoyed. Safe limits of swimming shall be marked by buoys, poles, or other markers
16 located not over 100 feet apart and visible to bathers from a distance of at least 100 feet.
17 Within such limits of safe swimming there shall be no boating, underwater obstructions, or
18 other hazards that may be dangerous or cause injury to swimmers. Signs shall be provided
19 on the beach describing these markers and stating that they indicate the limits of safe
20 bathing. The bottom of the swimming area shall consist of sand or gravel and be of a
21 uniform slope.

22 (3) If diving facilities are provided at beaches, the design and layout of the facilities and
23 associated unobstructed water depths shall be in accordance with the State Building Code

1 requirements for swimming and diving pools. The water surrounding any floats or inflatable
2 features where diving is permitted shall be at least nine (9) and one-half (1/2) feet deep.

3 (4) Depth markings and lane lines.

4 (a) On all facilities other than beaches, the depth of the water shall be marked plainly
5 at or above the water surface on the vertical wall of the facility if possible and on the edge
6 of the deck next to the facility. Depth markers shall be placed at the following locations:

7 1. At the points of maximum and minimum depths;

8 2. At the point of change of slope between deep and shallow portions (transition point);

9 3. At intermediate two (2) feet increments of water depth; and

10 4. If the facility is designed for diving, at appropriate points to denote the water depths
11 in the diving area.

12 (b) Depth markers shall be spaced so that the distance between adjacent markers is
13 not greater than twenty-five (25) feet as measured peripherally.

14 (c) Depth markers shall be in Arabic numerals at least four (4) inches high and of a color
15 contrasting with the background. If depth markers cannot be placed on the vertical walls at
16 or above the water level, other means shall be used, so that markings shall be plainly visible
17 to persons in the facility.

18 (d) Lane lines or other markings on the bottom of the facility shall be a minimum of ten
19 (10) inches in width and be of a contrasting color.

20 (e) A safety line supported by buoys shall be provided across the section of the pool
21 where the break between the shallow and deep water occurs (five (5) feet). The line shall
22 be placed one (1) foot toward the shallow end from where the break occurs.

1 Section 8. Facility Water Treatment Systems. (1)(a) A recirculation system, consisting
 2 of pumps, piping, filters, water conditioning, disinfection equipment, and other accessory
 3 equipment shall be provided to clarify, chemically balance, and disinfect the water for all
 4 swimming and bathing facilities except bathing beaches.

5 (b) All system components, including piping, shall bear the National Sanitation
 6 Foundation potable water (NSF-pw) mark.

7 (c) Pumps greater than seven and five-tenths (7.5) horse power that are not required
 8 to meet NSF testing standards shall be considered on a case-by-case basis.

9 (2) Pumping equipment.

10 (a) The recirculation pump and motor shall deliver the flow necessary to obtain the
 11 turnover required in the table below. A valve for flow control and a flow meter shall be
 12 provided in the recirculation pump discharge piping.

13 (b) The turnover rate shall be:

<u>Type of Facility</u>	<u>Turnover Required</u>
<u>Diving pools</u>	<u>8 hours or less</u>
<u>Wading pools, Spas, Therapy pools, Spray pad holding tanks, Facility equipped with a spray feature not providing additional filtered and disinfected water to the spray feature</u>	<u>30 minutes or less</u>
<u>Wave pools, Lazy rivers, Water rides</u>	<u>2 hours or less</u>
<u>Vortex pools, Plunge pools</u>	<u>1 hour or less</u>
<u>All other pools</u>	<u>6 hours or less</u>

1 (c) Higher flow rates may be necessary in pools with skimmers so that each skimmer
2 will have a minimum flow rate of thirty (30) gallons per minute.

3 (d) The pump shall be of sufficient capacity to provide a minimum backwash rate of
4 fifteen (15) gallons per square foot of filter area per minute in sand filter systems.

5 (e) The pump or pumps shall supply the required recirculation rate of flow to obtain the
6 turnover rate required at a total dynamic head of at least:

7 1. Fifty (50) feet for all vacuum filters;

8 2. Seventy (70) feet for pressure sand or cartridge filters; or

9 3. Eighty (80) feet for pressure diatomaceous earth filters and perlite filters.

10 (f) If the pump is located at an elevation higher than the facility water line, it shall be
11 self-priming.

12 (g) If vacuum filters are used, a vacuum limit control shall be provided on the pump
13 suction line. The vacuum limit switch shall be set for a maximum vacuum of eighteen (18)
14 inches of mercury.

15 (h) A compound vacuum-pressure gauge or vacuum gauge shall be installed on the
16 suction side of the pump.

17 (i) A pressure gauge shall be installed on the pump discharge line adjacent to the pump.

18 (j) Valves shall be installed to allow the flow to be shut off during cleaning, switching
19 baskets, or inspection of hair and lint strainers.

20 (k) A hair or lint strainer with openings no more than one-eighth (1/8) inch is required
21 except for pumps that are used with vacuum filter systems.

22 (3) Water heaters shall be installed at all indoor swimming and bathing facilities, and
23 shall comply with the following:

1 (a) A water heater piping system shall be equipped with a bypass. A valve shall be
2 provided at the bypass and on the influent and effluent heater piping. The influent and
3 effluent heater piping shall be metallic and installed in accordance with heater
4 manufacturer's recommendations;

5 (b) A heating coil, pipe, or steam hose shall not be installed in any swimming and
6 bathing facility;

7 (c) Thermometers shall be provided in the piping to check the temperature of the water
8 returning from the facility and the temperature of the blended water returning to the facility;

9 (d) An automatic temperature limiting device with thermostatic control that prevents the
10 introduction of water in excess of 100 degrees Fahrenheit to swimming and diving pools
11 and in excess of 104 degrees Fahrenheit for spas shall be provided, and be accessible only
12 to the facility operator;

13 (e) A pressure relief valve shall be provided and shall be piped to within six (6) inches
14 of the floor;

15 (f) Venting of gas or other fuel burning water heaters shall be provided in accordance
16 with the State Building Code;

17 (g) Heaters for indoor swimming and diving pools shall be capable of maintaining an
18 overall pool water temperature between seventy-six (76) degrees Fahrenheit and eighty-
19 four (84) degrees Fahrenheit;

20 (h) Combustion and ventilation air shall be provided for fuel burning water heaters in
21 accordance with manufacturer recommendations or the State Building Code;

22 (i) Heaters for indoor swimming and diving pools shall be sized on a basis of 150 British
23 Thermal Units per hour input per square foot of pool water surface area; and

1 (j) All heaters shall meet the latest standards of applicable recognized testing agencies.

2 (4) A flow meter shall be:

3 (a) Located so that the rate of recirculation may be easily read;

4 (b) Installed on a straight length of pipe at a distance of at least ten (10) pipe diameters
5 downstream, and five (5) pipe diameters upstream from any valve, elbow, or other source
6 of turbulence, except for those specifically designed without separation parameters; and

7 (c) Installed on each recirculation system, spray pad feature, waterslide, any other type
8 of spray feature, and on multiple filtration units.

9 (5) Vacuum cleaning system.

10 (a) A vacuum cleaning system shall be:

11 1. Provided for all facilities except beaches; and

12 2. Capable of reaching all parts of the facility bottom;

13 (b) A vacuum system that utilizes the attachment of a vacuum hose to the suction piping
14 through the skimmer may be provided;

15 (c)1. If the vacuum cleaning system is an integral part of the facility recirculation system,
16 a wall fitting shall be provided:

17 a. Eight (8) to twelve (12) inches below the normal water level; and

18 b. With a cap or plug that is not removable by bathers.

19 2. Piping from this connection shall be:

20 a. To the suction side of the pump ahead of the hair and lint strainer;

21 b. At least one and one-half (1 1/2) inches in diameter; and

22 c. Equipped with a control valve near the junction with the pump suction line.

1 3. The size of the vacuum hose shall be at least one and one-half (1 1/2) inches in
2 diameter and be of sufficient strength to prevent collapsing and allow adequate flow for
3 proper cleaning;

4 (d) Automatic vacuum systems may be used to supplement the built-in vacuum system
5 provided they are capable of removing all debris from the facility bottom; and

6 (e) Vacuum systems shall only be used when the facility is closed to bathers.

7 (6) Piping, skimmer and overflow system.

8 (a) Piping shall comply with the material specifications listed in the Kentucky State
9 Plumbing Code for potable water.

10 (b) All piping, valves, and fittings shall be color coded, suitably labeled, or marked to
11 denote its purpose within the facility water treatment system.

12 (c) The piping shall be designed to carry the required quantities of water at velocities
13 not exceeding five (5) feet per second in suction piping and ten (10) feet per second in
14 pressure piping.

15 (d) Gravity piping shall be sized so that the head loss in piping, fittings, and valves does
16 not exceed the difference in water levels between the facility and the maximum operating
17 level in the surge or filter tank.

18 (e) The following waste lines shall be provided with six (6) inch air gaps at their points
19 of discharge to the waste pump or sewer:

20 1. Main outlet bypass or other connections to waste;

21 2. Surge tank drain and overflow lines;

22 3. Pump discharge to waste lines; and

23 4. Gutter bypass to waste lines.

1 (7) Inlets.

2 (a) Each inlet shall be directionally adjustable.

3 (b) The velocity of flow through any inlet orifice shall be in the range of five (5) to twenty
4 (20) feet per second, except in facilities equipped with skimmers it shall be in the range of
5 ten (10) to twenty (20) feet per second.

6 (c) Inlets shall be located and directed to produce uniform circulation of water to facilitate
7 the maintenance of a uniform disinfectant residual throughout the entire facility without the
8 existence of dead spots.

9 (d) Inlets in facilities with skimmers shall be twelve (12) inches below the midpoint on
10 the skimmer throat.

11 (e) Inlets in facilities with a prefabricated perimeter overflow system shall be eight (8)
12 inches or more below the lip of the gutter.

13 (f) Inlets shall be placed completely around the pool with each serving a linear distance
14 of not more than fifteen (15) feet on center. The pipe serving the inlets shall form a loop
15 completely around the pool.

16 (g) The number of inlets shall be determined by dividing the perimeter of the pool
17 measured in feet, by fifteen (15), any fraction thereof would represent one (1) additional
18 inlet.

19 (h) Pools greater than forty-five (45) feet wide shall be equipped with floor inlets in a grid
20 pattern located no more than seven and five-tenths (7.5) feet from a wall and no more than
21 fifteen (15) feet apart. The grid must form a continuous loop with no reduction in loop pipe
22 sizing.

1 (i) A minimum of two (2) inlets is required on all pools, holding tanks, and bathing
2 facilities regardless of size.

3 (j) At least one (1) inlet shall be located in each recessed stairwell or other space where
4 water circulation might be impaired.

5 (k) Prefabricated perimeter overflow systems shall be approved on a case-by-case
6 basis by the cabinet.

7 (8) Outlets.

8 (a) All facilities, including holding tanks, shall be provided with a minimum of two (2)
9 main outlets at the deepest horizontal point plumbed in parallel to permit the facility to be
10 completely and easily drained.

11 (b) Openings and grates shall:

12 1. Conform to 15 U.S.C. 8003;

13 2. Be covered by a proper grating that is not removable by bathers;

14 3. Be at least four (4) times the area of the main outlet pipe;

15 4. Have sufficient area so that the maximum velocity of the water passing through the
16 grate does not exceed one and one-half (1 1/2) feet per second at maximum flow; and

17 5. The maximum width of grate openings shall be one-fourth (1/4) inch;

18 (c) Additional outlets shall be provided in all facilities where the width of the facility is
19 more than sixty (60) feet. In these cases, outlets shall be spaced not more than thirty (30)
20 feet apart, nor more than fifteen (15) feet from side walls, and shall be connected in parallel,
21 not series;

22 (d) A hydrostatic relief valve may be provided for in-ground swimming and diving pools.
23 Subsurface drainage, if provided, shall not be directly connected to a sanitary sewer; and

1 (e) Main outlet piping shall be sized for removal of the water through it at a rate of at
2 least 100 percent of the design recirculation flow rate at velocities specified in subsection
3 (6)(c) of this section. It shall function as a part of the recirculation system. The piping system
4 shall be valved to permit adjustment of flow through it.

5 (9) Perimeter overflow systems.

6 (a) Swimming and bathing facilities with a water surface area greater than 1,600 square
7 feet shall have a continuous perimeter overflow system.

8 (b) A perimeter overflow system shall:

9 1. Extend completely around the facility;

10 2. Permit inspection, cleaning, and repair;

11 3. Be designed so that no ponding or retention of water occurs within any portion of the
12 system;

13 4. Be designed to prevent entrapment of bathers or the passage of small children into
14 an enclosed chamber;

15 5. Have an overflow lip which is rounded, provides a good handhold, and is level within
16 two-tenths (0.2) inch;

17 6. Provide for the rapid removal of all water and debris skimmed from the pool's surface;

18 7. Be designed for removal of water from the pool's upper surface at a rate equal to 100
19 percent of the design turnover flow rate;

20 8. Discharge to the recirculation system;

21 9. Be provided with a minimum of two (2) outlet pipes that will not allow the overflow
22 channel to become flooded when the facility is in normal use;

1 10. Require additional outlet pipes provided at one (1) per 150 lineal feet of perimeter
2 overflow system or fraction thereof; and

3 11. Have drain gratings with surface area at least equal to two (2) times the area of the
4 outlet pipe.

5 (10) All facilities that have perimeter overflow systems shall have a net surge capacity
6 of at least one (1.0) gallon per square foot of water surface area. Surge capacity shall be
7 provided either in a vacuum filter tank, surge tank, or a combination of these. Main drain
8 pipng shall terminate eighteen (18) inches above the surge tank floor and be equipped with
9 a modulating valve and a positive shutoff valve. Surge capacity for a diatomaceous earth
10 (DE) filter is measured eighteen (18) inches above the filter media and the bottom of the
11 gutter pipe.

12 (11) Skimmers are permitted on facilities whose width does not exceed thirty (30) feet
13 and whose water surface area is 1,600 square feet or less. If skimmers are used, the
14 following shall be met:

15 (a) At least one (1) skimmer shall be provided for each 500 square feet of water surface
16 area or fraction thereof with a minimum of two (2) skimmers provided, except for spas,
17 holding tanks, or wading pools with a water surface area of 144 square feet or less, where
18 a minimum of one (1) skimmer shall be required.

19 (b) Skimmers shall be located to minimize interference with each other;

20 (c) The rate of flow per skimmer shall not be less than thirty (30) gallons per minute,
21 and all skimmers shall be capable of handling at least eighty (80) percent of required flow
22 rate;

1 (d) Surface skimmer piping shall have a separate valve in the equipment room to permit
2 adjustment of flow;

3 (e) Each skimmer shall be provided with an equalizer line at least one and one-half (1
4 1/2) inches in diameter, located at least one (1) foot below the lowest overflow level of the
5 skimmer, and be provided with a self-closing valve and cover that conforms to 15 U.S.C.
6 8003;

7 (f) A basket that can be removed without the use of tools and through which all overflow
8 water must pass; and

9 (g) All pools not equipped with a perimeter overflow system shall have a smoothly
10 contoured handhold coping not over two and one-half (2 1/2) inches thick for the outer two
11 (2) inches or an equivalent approved handhold. The handhold shall be no more than nine
12 (9) inches above the normal water line.

13 (12) All facilities shall be equipped for the addition of make-up water from a potable
14 water source pursuant to the following:

15 (a) Discharge through an air gap of at least six (6) inches to a surge tank or a vacuum
16 filter tank. If make-up water is added directly to the facility, the fill-spout shall be located
17 under or immediately adjacent to a ladder rail, grab rail, or lifeguard platform. If added to a
18 surge tank or vacuum filter tank, the six (6) inch air gap shall be measured above the top
19 lip of the tank; and

20 (b) Through piping with vacuum breaker, antisiphon, or other protection as specified by
21 the State Plumbing Code.

22 (13) Filtration.

23 (a) Filters shall comply with the following:

- 1 1. Pressure filters shall have:
- 2 a. Pressure gauges;
- 3 b. An observable free fall, or a sight glass installed on the backwash discharge line; and
- 4 c. A manual air-relief valve at the high point;
- 5 2. The filter backwash disposal facility shall have sufficient capacity to prevent flooding
- 6 during the backwash cycle;
- 7 3. All filters shall be designed so that they can be completely drained. Filters shall be
- 8 drained through a six (6) inch air gap to a pump or sanitary sewer; and
- 9 4. Filter media shall be listed as NSF approved.
- 10 (b) Each facility shall have separate filtration and treatment systems.
- 11 (c) Filter equipment and treatment systems shall operate continuously twenty-four (24)
- 12 hours per day except if the facility is closed for repairs or at the end of the swimming season.
- 13 (d) Rapid sand or gravity sand filters shall be designed for a filter rate not to exceed
- 14 three (3) gallons per minute per square foot of bed area at time of maximum head loss with
- 15 sufficient area to meet the design rate of flow required by the prescribed turnover.
- 16 (e) At least eighteen (18) inches of freeboard shall be provided between the upper
- 17 surface of the filter media and the lowest portion of the pipes or drains that serve as
- 18 overflows during backwashing.
- 19 (f) The filter system shall be designed with necessary valves and piping to permit
- 20 filtering to the pool.
- 21 (g) High rate sand filters. The design filtration rate shall be a minimum of five (5) gallons
- 22 per minute per square foot of filter area. The maximum design filtration rate shall be the
- 23 lesser of fifteen (15) gallons per minute per square foot of filter area or seventy-five (75)

1 percent of the NSF listed filtration rate. The backwash rate shall be fifteen (15) gallons per
2 minute per square foot of filter area.

3 (h) Diatomaceous earth filters.

4 1. The design filtration rate shall not exceed one and one-half (1 1/2) gallons per minute
5 per square foot of filter area on diatomaceous earth filters, except that the rate of filtration
6 may be increased to two (2) gallons per minute per square foot of filter area if continuous
7 feeding of diatomaceous earth is employed;

8 2. A precoat pot shall be provided on the pump suction line for pressure diatomaceous
9 earth systems. All diatomaceous earth filter systems shall have piping arranged to allow
10 recycling of the filter effluent during precoating;

11 3. If equipment is provided for the continuous feeding of diatomaceous earth to the filter
12 influent, the equipment shall have a capacity to feed at least one and one-half (1 1/2)
13 ounces of this material per square foot of filter area per day;

14 4. Overflow piping on vacuum diatomaceous earth filters shall be provided on the filter
15 tank to discharge overflow water;

16 5. All filters shall be equipped for cleaning by one (1) or more of the following methods:
17 backwashing; air-pump assist backwashing; spray wash; water pressure to wash vacuum
18 filter; or agitation; and

19 6. Perlite may be used in filters listed by NSF for perlite, but it may not be substituted
20 for diatomaceous earth without NSF listing.

21 (i) Vacuum sand filters.

1 1. The design filtration rate shall be seventy-five (75) percent of that listed by NSF or
2 fifteen (15) gallons per minute, whichever is lesser. The backwash rate shall be at fifteen
3 (15) gallons per minute per square foot of filter area; and

4 2. Overflow piping shall be provided in order to drain overflow water.

5 (j) Cartridge filters.

6 1. Cartridge filters shall not be used on facilities with a capacity larger than 80,000
7 gallons;

8 2. Cartridge filters shall only be used on indoor pools;

9 3. The design filtration rate shall not exceed fifteen hundredths (0.15) gallons per minute
10 per square foot of filter surface area; and

11 4. A clean duplicate set of cartridges shall be maintained at the facility.

12 (14) Disinfectant and chemical feeders.

13 (a) The minimum chemical feed equipment required at any facility shall include a unit
14 for feed of a disinfectant and a unit for feed of a chemical for pH control, except as stated
15 in paragraph (e) of this subsection.

16 (b) Equipment capacity.

17 1. Equipment for supplying chlorine or compounds of chlorine shall be of sufficient
18 capacity to feed the chlorine at a rate of eight (8) ppm or two and seven-tenths (2.7) pounds
19 per day chlorine gas or its equivalent for each 10,000 gallons of pool volume for outdoor
20 facilities; or three (3) ppm or one (1) pound per day for chlorine gas or its equivalent for
21 each 10,000 gallons of pool volume for indoor facilities based on the turnover rates
22 specified in subsection (2)(b) of this section;

23 2. The equipment for supplying chlorine shall not be controlled by a day-date clock;

1 3. The injection point for chlorine shall be placed on the discharge side of the pump and
2 downstream of the flow meter unless the chlorine injection point is located within the surge
3 tank;

4 4. Pot feeders for supplying bromochlorodimethylhydantoin sticks shall contain at least
5 five tenths (0.50) a pound of bromochlorodimethylhydantoin per thousand gallons of facility
6 capacity, or fraction thereof. The feeder shall have a method of feed rate adjustment;

7 5. Supplemental NSF listed ultraviolet (UV) light disinfection systems shall:

8 a. Be provided on all splash pads with a recirculating water system;

9 b. Be installed on a bypass line; and

10 c. Equipped with a flow indicator; and

11 d. May be used on other facilities as supplemental disinfection.

12 6. Ozone may be used as a supplement to chlorination or bromination. Ozonation
13 equipment will be considered by the cabinet on a case-by-case basis; and

14 7. No more than one (1) gram per day of ozone per ten (10) gallons per minute of flow
15 rate will be allowed. The ambient air ozone concentration shall be less than five hundredths
16 (.05) ppm at all times either in the vicinity of the ozonator or at the pool water surface.

17 (c) If positive displacement pumps (hypochlorinators) are used to inject the disinfectant
18 solution into the recirculation line, they shall be of variable flow type and shall be of sufficient
19 capacity to feed the amount of disinfectant required by paragraph (b)1 of this subsection. If
20 calcium hypochlorite is used, the concentration of calcium hypochlorite in the solution shall
21 not exceed five (5) percent. The solution container shall have a minimum capacity equal to
22 the volume of solution required per day at the feed rate required in paragraph (b)1 of this
23 subsection.

1 (d) Gas chlorinators shall only be used in a pre-existing facility and shall comply with
2 applicable sections of 29 C.F.R. 1910.119.

3 (e) pH control feeders. All facilities shall install a chemical feeder of positive
4 displacement type for the purpose of applying chemicals to maintain pH of facility water
5 within the range of seven and two-tenths (7.2) to seven and eight-tenths (7.8). A solution
6 tank of adequate capacity shall be provided.

7 (15)(a) Testing equipment shall be provided at all swimming and bathing facilities,
8 maintained with fresh reagents, and consist of at least the following:

9 1. A DPD (Diethyl-P-Phenylene-Diamine) colorimetric test kit used to determine free
10 disinfectant residual, combined disinfectant residual, total alkalinity, and pH of the facility
11 water. Test kits using orthotolidine reagents are not acceptable; and

12 2. At least five (5) chlorine color standards and five (5) pH color standards.

13 (b) Test kits shall be used to determine the total residual chlorine either directly or by
14 summation of free chlorine and combined chlorine test results. Chlorine standards shall
15 range from one-tenth (0.1) to five (5.0) ppm.

16 (c) pH standards shall range from six and eight-tenths (6.8) to eight and four-tenths
17 (8.4).

18 (d) Both tests shall be accurate to within two-tenths (0.2) units.

19 (e) Facilities using cyanurates for stabilization shall have a test kit to measure the
20 cyanuric acid concentration. The cyanuric acid test kit shall permit readings up to 100 ppm.

21 Section 9. Operational Water Quality Standards. (1) Disinfectant residuals for
22 swimming and diving pools, wading pools, water slides, and wave pools:

1 (a) Chlorine residual shall be maintained between one (1) and five (5) ppm as free
2 available chlorine.

3 (b) Bromine residual shall be maintained between two (2) and six (6) ppm as free
4 available disinfectant.

5 (c) Pools stabilized with cyanuric acid shall meet the following criteria:

6 1. Be an outdoor facility;

7 2. Maintain one (1) to five (5) ppm free available chlorine residual; and

8 3. Cyanuric acid concentration not to exceed fifty (50) ppm.

9 (d) If the presence of chloramines is determined, superchlorination is required, and the
10 chloramine level shall not exceed two-tenths (0.2) ppm.

11 (2) Disinfectant residuals for spas:

12 (a) Chlorine residual shall be maintained between one (1) and five (5) ppm as free
13 available chlorine;

14 (b) Bromine residual shall be maintained between two (2) and six (6) ppm as free
15 available disinfectant; and

16 (c) If the level of chloramines exceeds two-tenths (0.2) ppm, superchlorination is
17 required. During the superchlorination process and until such time as free chlorine levels
18 return to five (5) ppm or less, the facility shall be closed.

19 (3) The pH of the facility water shall be maintained in a range of seven and two-tenths
20 (7.2) to seven and eight-tenths (7.8). For corrosive water supplies, the alkalinity level shall
21 be suitably adjusted to allow maintenance of the pH level.

22 (4) Turbidity. Facility water shall have sufficient clarity at all times so that:

1 (a) A black disc, six (6) inches in diameter, is readily visible when placed on a white
2 field at the deepest point of the pool; and

3 (b) The openings of the main outlet grate are clearly visible by an observer on the deck;

4 (5) Total alkalinity. The alkalinity of the facility water shall not be less than fifty (50) nor
5 more than 180 ppm, as determined by suitable test kits.

6 (6) Temperature.

7 (a) The water temperature for indoor swimming and bathing facilities other than spas
8 shall not be less than seventy-six (76) degrees Fahrenheit nor more than eighty-four (84)
9 degrees Fahrenheit. The cabinet may allow variances from the above temperature limits
10 for special use purposes as competition, physical therapy, or instruction of children.
11 Variances may be approved if proof is presented showing that a variance from the
12 temperature requirements is necessary for the special uses stated, and that the variance
13 will not jeopardize public health.

14 (b) Air temperature at an indoor facility shall be higher than the water temperature,
15 except for spas.

16 (c) Water temperatures for any facility including spas shall not exceed 104 degrees
17 Fahrenheit.

18 (d) All facilities with heated water shall have at least one (1) break proof thermometer
19 located within the facility water in a conspicuous location. The thermometer shall be
20 securely mounted to prevent tampering by bathers.

21 (7) The facility operator shall perform tests for each of the above water quality
22 characteristics before opening and during all hours of operation based on the frequency
23 schedule listed below, and record all test results on a daily operational log sheet:

1 (a) Disinfectant residual, temperature, and pH shall be checked at least three (3) times
2 daily with a greater frequency if bather load or climatic conditions warrant.

3 (b) Turbidity shall be checked daily, or more often as needed.

4 (c) Alkalinity, cyanuric acid (if used) shall be checked weekly, or more often as needed.

5 (8) All spas shall be completely drained, thoroughly cleaned, and refilled with potable
6 water at least once per week. Cleaners used shall be compatible with facility wall and
7 bottom finishes.

8 Section 10. General Facility Operation and Maintenance. (1) All facilities shall be
9 maintained:

10 (a) Free from sediment and debris; and

11 (b) In good repair.

12 (2) Decks shall be kept clean. Indoor decks shall be disinfected at least weekly.

13 (3) Perimeter overflow and skimmers. The perimeter overflow system or automatic
14 surface skimmers shall be clean and free of leaves or other debris. The strainer baskets for
15 skimmers shall be cleaned daily. The flow through each skimmer shall be adjusted as often
16 as necessary to maintain a vigorous skimming action. The facility water shall be maintained
17 at an elevation so that effective surface skimming is accomplished. The flow returning from
18 the facility shall be balanced or valved so that the majority of flow is returned through the
19 perimeter overflow or skimmer system.

20 (4) Inlet fittings. Inlets shall be checked frequently to insure that the rate of flow through
21 each inlet is correct so that a uniform distribution pattern is established.

22 (5) Bather preparation facilities.

1 (a) The floors of dressing rooms, shower stalls, and other interior rooms shall be
2 cleaned and disinfected daily.

3 (b) Toilet rooms and fixtures shall be kept clean, free of dirt and debris, and in good
4 repair.

5 (c) Floors shall be maintained in a nonslip condition.

6 (d) Soap dispensers shall be filled and operable.

7 (e) Adequate supplies of toilet tissue, disposable hand drying towels, or suitable hand
8 drying devices shall be maintained.

9 (6) Street attire. Street shoes shall not be worn on the facility decks or wet areas of the
10 bather preparation facilities, except for those persons engaged in official duties.

11 (7) Safety. All public swimming facilities shall have adequate enclosures that meet the
12 specifications of Department of Housing, Buildings and Construction. Doors or gates in the
13 facility enclosure shall be kept closed and locked if the facility is closed.

14 (8) Electrical systems. Repairs to any electrical system shall be made by an electrician.
15 All repairs shall be in accordance with the National Electrical Code and shall be approved
16 by a certified electrical inspector.

17 (9) Diving equipment, ladders, hand rails, and other similar equipment, shall be
18 maintained in good repair, be securely anchored, and have a nonslip surface.

19 (10) Operation of mechanical equipment.

20 (a) Manufacturers' instructions for operation and maintenance of mechanical and
21 electrical equipment, as well as pump performance curves, shall be kept available at the
22 facility;

1 (b) Pumps, filters, disinfectant feeders, pH controls, flow indicators, gauges, and all
2 related components of the facility water recirculation system shall be kept in continuous
3 operation twenty-four (24) hours a day; and

4 (c) Recirculation pumps. The pump shall not be throttled on the suction side (except the
5 bottom drain line valve) during normal operation, and shall be kept in good repair and
6 condition. The flow control valve on the discharge side shall be adjusted as necessary to
7 maintain the design flow rate.

8 (11) Filtration.

9 (a) Sand filters.

10 1. The filter air release valve shall be opened as necessary, to remove air which collects
11 in the filter, and following each backwash; and

12 2. The filter shall be backwashed if the design flow rate can no longer be achieved, or
13 as specified by the filter manufacturer, whichever occurs first.

14 (b) Diatomaceous earth filters.

15 1. The dosage of diatomaceous earth precoat shall be at least one and one-half (1 1/2)
16 ounces per square foot of element surface area. Pressure diatomaceous earth filters shall
17 be backwashed if the design flow rate can no longer be achieved or as specified by the
18 filter manufacturer, whichever occurs first. If the recirculation pump stops or is shut off, the
19 filter shall be thoroughly backwashed and the elements shall be precoated before placing
20 the pump back into operation. Vacuum diatomaceous earth filters shall be washed if the
21 design flow rate can no longer be achieved or as specified by the filter manufacturer,
22 whichever occurs first;

1 2. Following the precoating operation, the initial filter effluent shall be either recirculated
2 through the filter until the filter effluent is clear, or the initial filter effluent shall be discharged
3 to waste until properly clarified water is produced; and

4 3. If continuous diatomaceous earth feed is required (filter loading rate exceeds one
5 and five-tenths (1.5) gallons per minute per square foot of filter surface area), it shall be
6 applied at a rate of one-half (1/2) to one and one-half (1 1/2) ounces per square foot of
7 surface area per day, or as needed to extend filter cycles.

8 (12) Hair and lint strainers. Hair and lint strainers shall be cleaned to prevent clogging
9 of the suction line and cavitation. The pump shall be stopped before the strainer is opened.
10 In all cases, the hair strainer basket shall be cleaned during the time the filter is being
11 backwashed.

12 (13) Flow meters. Flow meters shall be maintained in an accurate operating condition
13 and readily accessible. The glass and the connecting tubes shall be kept clean.

14 (14) Vacuum and pressure gauges. The lines leading to the gauges shall be bled
15 occasionally to prevent blockage.

16 (15) Positive displacement feeders.

17 (a) Positive displacement feeders shall be periodically inspected and serviced;

18 (b) To minimize sludge accumulation in the unit, the lowest practicable concentration of
19 solution shall be used. If liquid chlorine solution is used, the dilution with water is not critical
20 to the operation of the unit; and

21 (c) Sludge accumulations shall be cleaned periodically from the unit.

22 (16) Chlorinated cyanurates. The use of chlorinated cyanurates is prohibited.

23 (17) pH adjustment.

1 (a) Soda ash or caustic soda may be used to raise the facility water pH;

2 (b) Caustic soda shall only be used in accordance with the manufacturer's instructions.

3 If caustic soda is intended for use, the cabinet shall be notified in writing. Protective
4 equipment and clothing, including rubber gloves and goggles, shall be available for the
5 handling and use of this chemical;

6 (c) Sodium bisulfate or muriatic acid may be used to lower pool water pH;

7 (d) Hydrochloric (muriatic) acid may only be used with proper supervision and care.
8 Protective equipment and clothing, including rubber gloves and goggles, shall be available
9 for handling this chemical; and

10 (e) The cabinet shall be consulted in the event of unusual pH problems including
11 corrosion, scaling, or wide fluctuations in pH.

12 (18) Algae control.

13 (a) The development of algae shall be eliminated by superchlorinating. The facility shall
14 not be open for use during this treatment. If superchlorination fails to eliminate the algae,
15 the cabinet shall be consulted for further advice.

16 (b) Treated algae which cling to the bottom and sides of the facility shall be brushed
17 loose and removed by the suction cleaner and filtration system.

18 (19) Miscellaneous chemicals.

19 (a) Chemicals other than approved disinfectants shall be used only with the advice and
20 under the supervision of the cabinet;

21 (b) Chemicals shall be kept covered and stored in the original container, away from
22 flammables and heat, and in a clean, dry, and well-ventilated place that prevents
23 unauthorized access to the chemicals;

1 (c) The chemicals used in controlling the quality of water shall be used only in
2 accordance with the manufacturer's instructions; and

3 (d) If polyphosphates are used for sequestering iron, the concentration of
4 polyphosphates shall not exceed ten (10) ppm.

5 (20) Equipment rooms.

6 (a) Equipment necessary for facility operation shall be housed in a lighted, ventilated
7 room that affords protection from the weather, prevents unauthorized access, has ceilings
8 of at least seven (7) feet in height, and is of sufficient size for operation and inspection;

9 (b) The equipment room floor shall slope toward drains and shall have a nonslip finish;

10 (c) A hose bib with a vacuum breaker shall be installed in the equipment room;

11 (d) Suitable space, if not provided in the equipment room, shall be provided for storage
12 of chemicals, tools, equipment, supplies, and records where they can be acquired by the
13 facility operator without leaving the premises. The storage space shall be dry and protected
14 from unauthorized access; and

15 (e) The equipment room and all other storage areas shall be maintained in a clean,
16 uncluttered condition, and shall not be used for storage of materials not essential to
17 operation and maintenance of the facility.

18 (21) Maintenance of bathing beaches.

19 (a) Beach areas shall be maintained free of litter and water borne debris. Beverage
20 containers of glass or metal containers with detachable pull tabs shall be prohibited.

21 (b) A layer of sand or gravel of sufficient depth to prevent the creation of mud holes or
22 slicks and to reduce shallow water turbidity shall be maintained on all beach areas, and
23 shall extend beneath the water of all wading and swimming areas; and

1 (c) Wading, swimming, and diving areas shall be examined by the facility operator on a
2 routine basis and immediately after high water conditions for floating or sunken debris,
3 obstructions at diving areas, and high water turbidity, which may present safety hazards to
4 bathers.

5 Section 11. Facility Records. (1) The operator of each facility shall keep a daily record
6 of information regarding operation of the facility on the DFS-352, Swimming Pool Log
7 Sheet. This data shall be kept on file by the operator and submitted to the cabinet as
8 requested. Proper operating records shall be kept showing daily or weekly results, as
9 applicable, for:

10 (a) Disinfectant residuals;

11 (b) pH readings, total alkalinity, cyanuric acid level (if applicable); and

12 (c) Equipment malfunctions.

13 (2) If two (2) or more facilities are operated on the same site, separate records shall be
14 maintained for each facility.

15 Section 12. Personnel. (1) Operator. A facility operator shall be responsible for the
16 operation and maintenance of all swimming and bathing facilities. The operator shall be
17 available at all times when the facility is open for use.

18 (2) Lifeguards.

19 (a) Lifeguards shall be on duty at a facility that has 2,000 square feet or greater of
20 water surface area at a rate of one (1) per 2,000 square feet or fraction thereof.

21 (b) Lifeguards shall be provided at all facilities, regardless of water surface area, that
22 allow bathers seventeen (17) years of age or under to enter the facility area without a

1 responsible adult present at a rate of one (1) lifeguard per 2,000 square feet of water
2 surface area or fraction thereof.

3 (c) All facilities that are not required to provide lifeguards must post and enforce the
4 following rules at all entrance points: "No Lifeguard on Duty" and "No person may enter the
5 facility area alone or swim alone."

6 (d) All beaches shall provide lifeguards at a rate of one (1) per 100 linear feet of beach
7 front or fraction thereof, and a minimum of one (1) per attraction, with additional lifeguards
8 provided to ensure all areas surrounding the attraction are clearly visible at all times.

9 (e) Lifeguards shall comply with the following:

10 1. Lifeguards shall have a current lifesaving certificate. Current training as a lifesaver
11 or water safety instructor by the American Red Cross or equivalent shall satisfy this
12 requirement. The certificate of competency shall be prominently posted;

13 2. Lifeguards shall be dressed in swimming attire; and

14 3. Lifeguards assigned to the supervision of the facility shall not be subject to duties
15 that would distract their attention from proper observation of persons in the facility area, or
16 that would prevent immediate assistance to persons in distress in the water.

17 Section 13. Safety Equipment. (1) Facilities requiring lifeguards shall have a minimum
18 of one (1) elevated lifeguard chair per on-duty lifeguard. A lifeguard chair shall be provided
19 for each 2,000 square feet of water surface area or major fraction more than half thereof.
20 They shall be located to provide a clear view of the facility bottom in the area under
21 surveillance.

22 (2) Beaches shall be provided with an elevated lifeguard chair for each 100 linear feet
23 of beach front, with an additional lifeguard chair for each additional 100 linear feet of beach

1 front or fraction thereof. The chairs shall be located on the beach to provide a clear view of
2 all areas under surveillance and to provide the quickest response time.

3 (3) One (1) unit consisting of the following lifesaving equipment shall be provided for
4 2,000 square feet of water surface area and an additional unit for each additional 2,000
5 square feet or fraction thereof:

6 (a) A U.S. Coast Guard approved ring buoy no more than fifteen (15) inches in diameter
7 with a three-sixteenths (3/16) inch rope attached that measures one and one-half (1 1/2)
8 times the maximum pool width;

9 (b) A shepherd's hook securely attached to a one piece pole not less than twelve (12)
10 feet in length; and

11 (c) One (1) backboard with head immobilizer and at least three (3) straps, for back and
12 neck injuries.

13 (4) Facilities limited to small spas, with less than 144 square feet of water surface area,
14 shall not be required to provide the equipment listed in subsection (3) of this section, but
15 shall meet the requirements of subsections (7), (10), and (11) of this section.

16 (5) In addition to subsection three (3) of this section, a beach shall provide the following
17 lifesaving equipment:

18 (a) Paddle board or surfboard;

19 (b) At least one (1) lifeboat, and one (1) unit of lifesaving equipment; and

20 (c) A torpedo shaped buoy.

21 (6) All facilities shall be equipped with a minimum of one (1) standard twenty-four (24)
22 unit first aid kit or its equivalent that is kept filled and ready for use. Additional units shall be
23 provided for each additional 2,000 square feet of facility area or major fraction thereof.

1 (7) Lifesaving equipment shall be mounted in conspicuous places at lifeguard chairs or
2 other readily accessible locations. Its function shall be plainly marked, and this equipment
3 shall be kept in repair and ready condition. Bathers or other persons shall not be permitted
4 to tamper with, use for any purpose other than its intended use, or remove such equipment
5 from its established location. This equipment at beaches shall be located at each lifeguard
6 chair, with the lifeboat required by subsection (5)(b) of this section being located at the most
7 centrally stationed lifeguard chair.

8 (8) The hydrojet auxiliary air or water pump for a spa shall be controlled by an on-off
9 switch with a fifteen (15) minute timer located and labeled at least five (5) feet away from
10 the spa.

11 (9) All facilities shall provide an emergency automatic pump shut off located adjacent
12 to the telephone.

13 (10)(a) All facilities shall have a non-pay landline telephone capable of direct dialing
14 911 without going through a switchboard located on the deck that is readily accessible and
15 conspicuously located.

16 (b) A two (2) way radio communication system to a manned telephone system may be
17 substituted at an isolated beach facility.

18 (c) The telephone number of the police department, fire department, emergency
19 medical service, or a hospital shall be posted in a conspicuous place near the telephone.

20 (11) All drownings and injuries requiring hospitalization shall be immediately reported
21 to the local health department and the Department for Public Health.

1 Section 14. Spectator and Bather Administrative Regulations. (1) Management of each
2 facility shall adopt rules for controlling of food, drink, and smoking in the facility and
3 surrounding areas.

4 (2) Rules governing the use of the facility and instructions to bathers shall be displayed
5 on placards at the entrance to dressing rooms and enforced by the facility operator. Posting
6 of rules and other instructions shall provide that:

7 (a) Admission to the facility shall be refused to a person:

8 1. Having any contagious disease, infectious conditions such as colds, fever, ringworm,
9 foot infections, skin lesions, carbuncles, boils, inflamed eyes, ear discharges, or any other
10 condition that has the appearance of being infectious;

11 2. Having excessive sunburn, abrasions that have not healed, corn plasters, bunion
12 pads, adhesive tape, rubber bandages, or other bandages of any kind; and

13 3. Under the influence of alcohol, illegal substances, or exhibiting erratic behavior;

14 (b) No food, drink, gum, tobacco, or vapor producing product, will be allowed other than
15 in specially designated and controlled sections of the facility area;

16 (c) Personal conduct within the facility shall assure that the safety of self and others is
17 not jeopardized;

18 (d) No running and no boisterous or rough play (except supervised water sports) are
19 permitted;

20 (e) Spitting, spouting of water, blowing the nose, or otherwise introducing contaminants
21 into the facility water is not permitted;

22 (f) Glass, soap, or other material that creates hazardous conditions or interferes with
23 efficient operation of the facility shall not be permitted in the facility or on the deck;

1 (g) All apparel worn in the facility shall be clean;

2 (h) Diving in shallow water is not permitted;

3 (i) Caution shall be exercised in the use of diving boards; and

4 (j) Animals shall be excluded from the facility area.

5 (2) Due to the nature of bathing beaches, subsection (2)(c), and (f) of this section shall
6 not apply. Subsection (2)(a) and (b) of this section shall be enforced at the discretion of the
7 facility operator, except subsections (2)(a)2. and 3., which shall be enforced at all facilities.

8 (3) In addition to the requirements of subsection (2) of this section, a caution sign shall
9 be mounted adjacent to all spas and contain the following warnings:

10 “CAUTION

11 Pregnant women, elderly persons, and persons suffering from any heart condition or
12 disease, diabetes, or high or low blood pressure should not enter the spa without prior
13 medical consultation and permission from their doctor.

14 Do not use the spa while under the influence of alcohol, tranquilizers, or other drugs
15 that cause drowsiness, or that raise or lower blood pressure.

16 Do not use at water temperatures greater than 104 degrees Fahrenheit.

17 Do not use alone.

18 Unsupervised use by children is prohibited.

19 Enter and exit slowly.

20 Observe reasonable time limits (that is, ten (10) to fifteen (15) minutes), then leave the
21 water and cool down before returning for another brief stay.

22 Long exposure may result in nausea, dizziness, fainting, or death.

23 Keep all breakable objects out of the area.

1 Show before entering the spa.”

2 (4) A sign shall be posted in the immediate vicinity of the spa stating the location of the
3 nearest telephone and indicating that emergency telephone numbers are posted at that
4 location.

5 Section 15. Swimming Suits and Towels Furnished by Management. All swimming
6 suits and towels used by swimmers and maintained for public use shall be cleaned after
7 each use. These items shall be handled in a sanitary manner.

8 Section 16. Facility Inspection. (1) Seasonal facilities.

9 (a) All owners or operators of seasonal facilities, prior to opening to the public, shall
10 certify to the cabinet, in writing, that the facility is in compliance with the requirements of
11 this administrative regulation except in instances where the cabinet has made an inspection
12 prior to its opening. For seasonal facilities, the cabinet shall make at least two (2) full facility
13 inspections during the operating season. The cabinet may require one (1) of the full facility
14 inspections to be performed prior to a facility's opening; and

15 (b) The facility owner or operator shall be responsible for notifying the cabinet of the
16 proposed opening date.

17 (2) Continuous operation indoor facilities shall receive a full facility inspection by the
18 cabinet at least once each six (6) months.

19 (3) New facilities shall receive final construction approval inspections by the cabinet,
20 and other affected state and local regulatory agencies, prior to placing the facility in
21 operation. It shall be the owner or operator's responsibility to notify the cabinet and other
22 involved agencies of construction completion and call for inspection.

1 (4) Facilities other than beaches shall be inspected at a minimum of once each thirty
2 (30) day period by the cabinet on a monitoring basis. The monitoring inspection shall
3 consist of:

4 (a) Disinfectant residual testing (free available residual) and combined disinfectant in
5 ppm;

6 (b) pH testing;

7 (c) Total alkalinity testing;

8 (d) Cyanuric acid testing (if cyanuric acid stabilizers are used);

9 (e) Turbidity assessment;

10 (f) Temperature testing (if heated water facility);

11 (g) Review of operator's daily log;

12 (h) Visual scanning for algae or debris; and

13 (i) Other checks as necessary.

14 (5) Beaches shall be monitored once each month or anytime immediately after periods
15 of heavy rainfall. Monitoring inspections for beaches shall include general sanitation,
16 bacteriological water sampling, and safety checks as necessary.

17 (6) The cabinet may make as many additional inspections and reinspections as
18 necessary for the enforcement of this administrative regulation.

19 (7) When an agent of the cabinet makes an inspection of a public swimming and bathing
20 facility, the findings shall be recorded on the DFS-349, Public Swimming and Bathing
21 Facilities Inspection, or DFS-350, Public Swimming and Bathing Facilities Beach Inspection
22 Report, and a copy provided to the facility owner or operator. The inspection report shall:

23 (a) Set forth any violation observed;

1 (b) Establish a specific and reasonable period of time for the correction of the violation
2 observed; and

3 (c) State that failure to comply with any notice issued pursuant to the provisions of this
4 administrative regulation may result in closure of the facility.

5 Section 17. Water Sampling and Testing. (1) A water sample may be collected from
6 facilities if inspections or monitoring indicates water quality standards are not being
7 maintained, or there is a suspected water borne disease outbreak, and shall be submitted
8 to the Division of Laboratory Services in an approved container and by approved sampling
9 procedures for analysis.

10 (2) Samples shall be collected and analyzed for any of the following or other
11 contaminants:

12 (a) Total coliform;

13 (b) E. coli; and

14 (c) Pseudomonad organisms.

15 (3) Multiple samples shall be collected at beaches to assure adequate representation
16 of the entire facility water area.

17 (4) If a sample is positive test for a contaminant, the test shall be repeated within one
18 (1) to seven (7) days.

19 (5) For a facility other than a bathing beach, no more than two (2) consecutive samples
20 shall be positive for:

21 (a) More than two (2) coliform organisms per 100 milliliter (mL);

22 (b) Pseudomonas organisms; or

23 (c) E. coli.

1 (6) Beaches shall comply with the requirements of Section 4 of this administrative
2 regulation prior to opening for the season and during the operating season.

3 (7) Additional samples may be requested to ensure compliance with this administrative
4 regulation.

5 Section 18. Bacteriological Quality of Facility Water. (1) For facilities other than
6 beaches, no more than two (2) consecutive samples shall:

7 (a) Contain more than 200 bacteria per mL;

8 (b) Have a positive confirmatory test for coliform organisms in any of the five (5) ten
9 (10) mL portions of a sample or more than two (2) coliform organisms per 100 mL when
10 the membrane filter test is used;

11 (c) Have a positive confirmatory test for pseudomonas organisms; or

12 (d) Have a positive test for fecal coliform organisms.

13 (2) Beaches shall comply with the standards set forth in Section 4(3)(a) of this
14 administrative regulation.

15 Section 19. Conditions requiring Closure of a Facility and Enforcement Provisions. (1)
16 The cabinet shall immediately order the closure of a facility and prohibit any person from
17 using the facility by written notice to the facility owner or operator if:

18 (a) There is an immediate danger to health or safety;

19 (b) The water does not conform to the bacteriological standards contained in this
20 administrative regulation;

21 (c) An environmental survey of the area shows evidence of sewage, or other pollutants
22 or toxic materials being discharged to waters tributary to a beach;

1 (d) Turbidity levels of facility water do not meet the requirements of Section 9(4) of this
2 administrative regulation;

3 (e) The disinfectant residual is outside the range prescribed in this administrative
4 regulation;

5 (f) The pH is outside the range prescribed by this administrative regulation;

6 (g) The cyanuric acid level exceeds fifty (50) ppm;

7 (h) There is no pool operator available;

8 (i) There has been a fecal accident in the pool;

9 (j) In any instance where the owner, operator, an employee, or representative of the
10 owner interferes with duly authorized agents of the cabinet, bearing proper identification, in
11 the performance of their duties;

12 (k) If recirculation systems, filtration systems, or disinfectant systems are not in
13 operation, with exceptions for maintenance, and seasonal shut down; or

14 (l) If serious or repeated violations of any of the requirements of the administrative
15 regulations are found.

16 (2) The notice shall state the reasons prompting the closing of the facility and a copy of
17 the notice shall be posted conspicuously at the facility by the owner or operator.

18 (3) Any owner or operator affected by an order may request an administrative
19 conference in accordance with 902 KAR 1:400.

20 (4) If the conditions rendering closure are abated or further analyses prove to not render
21 closure, the cabinet may authorize reopening the facility.

22 (5) If a source of sewage, pollution, or toxic material discovered as a result of an
23 environmental survey is eliminated, the cabinet may authorize the reopening of a beach.

1 (6) In all other instances of a violation of the provisions of this administrative regulation,
2 or 902 KAR 10:121 for the nonpayment of fees, the cabinet shall serve upon the owner or
3 operator a written notice specifying the violation in question and afford a reasonable
4 opportunity to correct same. An owner or operator who fails to comply with any written
5 notice issued under the provisions of this administrative regulation or 902 KAR 10:121 shall
6 be notified in writing that the facility shall be closed at the end of ten (10) days following
7 service of such notice, unless a written request for a conference pursuant to 902 KAR 1:400
8 is filed with the cabinet, by the owner or operator, within the ten (10) day period.

9 (7) All administrative hearings shall be conducted in accordance with KRS Chapter 13B.

10 (8) Any person whose facility has been closed may, at any time, make application for a
11 reinspection for the purpose of reopening the facility. Within ten (10) days following receipt
12 of a written request, including a statement signed by the applicant that in his or her opinion
13 the conditions causing closure of the facility have been corrected, the cabinet shall make a
14 reinspection. If the facility is found to be in compliance with the requirements of this
15 administrative regulation, the facility shall be reopened.

16 (9)(a) For serious or repeated violations of any of the requirements of this administrative
17 regulation, or for interference with the agents of the cabinet in the performance of their
18 duties, the facility may be permanently closed after an opportunity for a conference has
19 been provided in accordance with 902 KAR 1:400.

20 (b) Prior to the action, the cabinet shall notify the owner or operator, in writing, stating
21 the reasons for which the facility is subject to closure and advising that the facility shall be
22 permanently closed at the end of ten (10) days following service of the notice unless a

1 request for a conference is filed with the cabinet by the owner or operator, within the ten
2 (10) day period.

3 Section 20. Existing Facilities and Equipment. (1) Notwithstanding the other provisions
4 of this administrative regulation, existing facilities and equipment being used prior to August
5 1, 1996, that do not fully meet the design, construction, and materials requirements of this
6 administrative regulation, may continue to be used if in good repair, capable of being
7 maintained in a sanitary condition, meet facility water quality standards, and create no
8 health or safety hazard.

9 (2) If existing equipment, components, piping, or fittings involved in the facility water
10 treatment system are replaced to effect repairs, the replacement equipment, components,
11 piping, or fittings shall meet the requirements of this administrative regulation. If
12 replacement occurs, it shall be the owner's or operator's responsibility to notify the cabinet
13 as to what was replaced and what was used for a replacement.

14 Section 21. Effect on Local Administrative Regulations. Compliance with this
15 administrative regulation does not relieve any person from compliance with any other state
16 or local laws dealing with pool operation and maintenance matters or zoning requirements
17 that may also be applicable.

18 Section 22. Variances for Construction Requirements. (1) All facilities shall be
19 constructed or remodeled in compliance with the provisions of these administrative
20 regulations, except that an applicant may request a variance in those cases where it is
21 determined that the variance would not affect seriously the safe and healthful operation of
22 the facility.

1 (2) Before granting a variance, the cabinet shall require adequate proof from the
2 applicant that the requested variance will comply with the basic intent of these
3 administrative regulations and that no safety or health hazard would be created if the
4 variance is granted.

5 Section 23. Incorporated by Reference. (1) The following material is incorporated
6 by reference:

7 (a) "DFS-349, Public Swimming and Bathing Facilities Inspection" 5/2021;

8 (b) "DFS-350 Public Swimming and Bathing Facilities Beach Inspection Report"
9 5/2021; and

10 (c) "DFS-352 Swimming Pool Log Sheet" 5/2021.

11 (2) This material may be inspected, copied, or obtained, subject to applicable
12 copyright law, at the Division of Public Health Protection and Safety, Department for
13 Public Health, 275 East Main Street, Frankfort, Kentucky 40621, Monday through
14 Friday, 8 a.m. to 4:30 p.m. and online at
15 <https://chfs.ky.gov/agencies/dph/dphps/emb/Pages/pools.aspx>.

16 ~~[(1) "Accessible" means, if applied to a fixture, connection, appliance or equipment, having~~
17 ~~access to it, but may require the removal of an access panel, door or similar obstruction.~~
18 ~~"Readily accessible" means direct access without the necessity of removing any panel,~~
19 ~~door, or similar obstruction.~~

20 ~~(2) "Agitation" means the mechanical or manual movement to dislodge the filter aid and~~
21 ~~dirt from the filter element.~~

1 ~~(3) "Air gap" means the unobstructed vertical distance through the free atmosphere~~
2 ~~between the lowest opening from any pipe or faucet conveying water or waste to a tank,~~
3 ~~plumbing fixture, receptor or other device, and the flood level rim of the receptacle.~~

4 ~~(4)"Air induction system" means a system whereby a volume of air (only) is induced~~
5 ~~into hollow ducting built into a spa floor, bench, or other location. The air induction system~~
6 ~~is activated by a separate air power unit (blower).~~

7 ~~(5) "Alkalinity or total alkalinity" means the amount of carbonates or bicarbonate present~~
8 ~~in water solution as expressed in parts per million (p.p.m.).~~

9 ~~(6) "Approved" means accepted or acceptable under the applicable specifications~~
10 ~~stated or cited in the administrative regulation or accepted as suitable for the proposed use~~
11 ~~by the State Building Code~~

12 ~~(7) "Backwash" means the flow of water through the filter element or media in the~~
13 ~~reverse direction sufficient to dislodge the accumulated dirt and filter aid and remove them~~
14 ~~from the filter tank.~~

15 ~~(8) "Backwash cycle" means the time required to backwash the filter system thoroughly.~~

16 ~~(9) "Backwash rate" means the rate of application of water through a filter during the~~
17 ~~backwash cycle expressed un U.S. gallons per minute per square foot (liters per minute~~
18 ~~per square meter) of effective filter area.~~

19 ~~(10) "Bather" means any person using a public swimming and bathing facility, and~~
20 ~~adjoining deck or beach area for the purpose of therapy, relaxation, recreation, competitive~~
21 ~~water sports or events, or related activities.~~

22 ~~(11) "Bather load" means the maximum number of persons which may use the~~
23 ~~swimming and bathing facility as defined in the State Building Code.~~

1 ~~(12) "Body feed" means the continuous addition of controlled amounts of filter aid during~~
2 ~~the operation of a diatomite type filter to maintain a permeable filter cake. If added as a~~
3 ~~slurry, this may be referred to as a slurry feed.~~

4 ~~(13) "Cabinet" means the Cabinet for Health Services and its authorized agents.~~

5 ~~(14) "Cartridge" means a replaceable porous filter element which can be the depth type~~
6 ~~or the surface type:~~

7 ~~(a) "Depth type cartridge" means a filter cartridge with media not less than three-fourths~~
8 ~~(3/4) inch (.18 cm) thick which relies on penetration of particulates into the media to achieve~~
9 ~~their removal and to provide adequate holding capacity for the cartridge; and~~

10 ~~(b) "Surface type cartridge" means a filter cartridge with media less than three-fourths~~
11 ~~(3/4) inch (.18 cm) thick which relies on retention of particulates on the surface of the~~
12 ~~cartridge to achieve their removal.~~

13 ~~(15) "Chemical feeder output rate" means the weight or volume of active ingredients~~
14 ~~delivered by a chemical feeder expressed in units of time.~~

15 ~~(16) "Chemical feed rate indicator" means a mechanism which will produce reproducible~~
16 ~~results expressed in units of weight or volume of chemical per unit of time, or per unit of~~
17 ~~volume of water; the mechanism may be a direct reading instrument, or may require the~~
18 ~~use of a reference chart.~~

19 ~~(17) "Circulation piping system" means the piping between the facility structure and the~~
20 ~~mechanical equipment.~~

21 ~~(18) "Corrosion resistant" means capable of maintaining original surface characteristics~~
22 ~~under the prolonged influence of the environment in which it is used.~~

1 ~~(19) "Design head" means the total head requirement of the circulation system at the~~
2 ~~design rate of flow.~~

3 ~~(20) "Design rate of flow (design filter rate)" means the rate of flow in a system which is~~
4 ~~used for design calculation. (The volume of the facility in gallons divided by the number of~~
5 ~~minutes in the turnover time.)~~

6 ~~(21) "Diving pool" means a pool designed and intended for use exclusively by divers.~~

7 ~~(22) "Effective filter area" means:~~

8 ~~(a) "Permanent media type" - the effective filter area is the cross-section area of the~~
9 ~~filter surface that is perpendicular to the flow direction;~~

10 ~~(b) "Diatomaceous earth type" - the effective filter area of the septum is that part of the~~
11 ~~septum which will accept the full thickness of precoat and through which the design filter~~
12 ~~flow will be maintained during filtration; and~~

13 ~~(c) "Cartridge filter" - the total effective filter area is that cartridge area which is exposed~~
14 ~~to the direct flow of water. This excludes cartridge ends, seals, supports, and other areas~~
15 ~~where flow is impaired.~~

16 ~~(23) "Factor of safety" means the ultimate load divided by the safe load or the ultimate~~
17 ~~strength divided by the allowable stress.~~

18 ~~(24) "Filter" means a device that separates solid particles from water by recirculating it~~
19 ~~through a porous substance (a filter media or element):~~

20 ~~(a) "Permanent media filter" means a filter that utilizes a media that can be backwashed~~
21 ~~and reused;~~

22 ~~(b) "Diatomaceous earth filter" means a filter that utilizes a thin layer of diatomaceous~~
23 ~~earth as its filter media that must be periodically replaced; and~~

1 ~~(c) "Cartridge filter" means a filter that utilizes a porous cartridge as its filter media.~~

2 ~~(25) "Filter aid" refers to any means used to enhance the efficiency of the filter media.~~

3 ~~Alum, as used on the bed of a sand filter, is also referred to as a filter aid.~~

4 ~~(26) "Filter cycle" means the operating time between cleaning or replacing the filter~~
5 ~~media or backwash cycles.~~

6 ~~(27) "Filter element" means a device within a filter tank designed to entrap solids and~~
7 ~~conduct water to a manifold, collection header, pipe, or similar conduit. Filter elements~~
8 ~~usually consist of a septum and septum support:~~

9 ~~(a) "Permanent filter media" means finely graded material (such as sand, anthracite,~~
10 ~~etc.) which removes suspended filterable particles from the water.~~

11 ~~(b) "Nonpermanent filter media" means any type of finely graded media used to coat a~~
12 ~~septum type filter usually diatomaceous earth, processed perlite or similar material for the~~
13 ~~purpose of removing fine particulates from the water.~~

14 ~~(28) "Filter waste discharge piping" means piping that conducts wastewater from a filter~~
15 ~~to a drainage system. Connection to drainage system is made through an air gap or other~~
16 ~~approved method.~~

17 ~~(29) "Filtration rate" means the rate of water flow through a filter while in operation,~~
18 ~~expressed in U.S. gallons per minute per square foot (liters per minute per square meter)~~
19 ~~of effective filter area.~~

20 ~~(30) "Flow balance valve" means a device to regulate the effluent from the skimmer~~
21 ~~housing of each of a combination of two (2) or more surface skimmers.~~

22 ~~(31) "Flume" means an inclined channel which conveys the water and the bather from~~
23 ~~the top of the slide to the plunge pool of a water slide.~~

1 ~~(32) "Friction loss" means the pressure drop expressed in feet (meters) of water or psi~~
2 ~~(pascals) caused by liquid flowing through the piping and fittings.~~

3 ~~(33) "Handicap pool" means a swimming pool which is designed specifically for the use~~
4 ~~of persons who are physically or mentally disabled or impaired, and is equipped with~~
5 ~~devices, appliances, ramps and other means of assisted access to the pool.~~

6 ~~(34) "Head loss" means the total pressure drop in psi (kilopascals) or feet (meters) or~~
7 ~~head between the inlet and the outlet of a component.~~

8 ~~(35) "Hydrojet booster pump system" means a system whereby one (1) or more~~
9 ~~hydrojets are activated by the use of a pump which is completely independent of the~~
10 ~~filtration and heating system of a spa.~~

11 ~~(36) "Hydrojets" means a fitting which blends air and water creating a high velocity,~~
12 ~~turbulent stream of air enriched water.~~

13 ~~(37) "Indirect waste pipe" means a pipe that does not connect directly with the drainage~~
14 ~~system, but conveys liquid wastes by discharging into a plumbing fixture, interceptor, or~~
15 ~~receptacle which is directly connected to the drainage system.~~

16 ~~(38) "Inlet fitting" means a fitting or fixture through which filtered water enters a pool or~~
17 ~~spa.~~

18 ~~(39) "Listed" means equipment or materials included in a list published by a listing~~
19 ~~agency that maintains periodic inspection on current production of listed equipment or~~
20 ~~materials, and whose listing states either that the equipment or material complies with~~
21 ~~approved standards or has been tested and found suitable for use in a specified manner.~~

22 ~~(40) "Main outlet" means the outlet fitting(s) at the bottom of a facility through which~~
23 ~~passes water to a recirculating pump. It is often referred to as a "main drain."~~

1 ~~(41) "Multiport valve" means a valve for various recirculation related operations, which~~
2 ~~combines in one (1) unit the function of two (2) or more single direct flow valves.~~

3 ~~(42) "National Sanitation Foundation (NSF)" is based at 3475 Plymouth Road, P.O. Box~~
4 ~~1468, Ann Arbor, MI 48106. It publishes a list of manufacturers and their equipment which~~
5 ~~has been approved as having satisfied NSF standards.~~

6 ~~(43) "Perimeter overflow systems" means a channel at normal water level which~~
7 ~~normally extends completely around the pool perimeter. Also, known as an overflow or~~
8 ~~scum gutter.~~

9 ~~(44) "Person" means any individual, firm, association, club, organization, partnership,~~
10 ~~business trust, corporation, company, or any state or local governmental agency.~~

11 ~~(45) "Precoat" means the process of depositing a layer of diatomaceous earth on filter~~
12 ~~septa at the start of a filter cycle.~~

13 ~~(46) "Public swimming and bathing facility" means an natural or artificial body or basin~~
14 ~~of water which is modified, improved, constructed, or installed for the purpose of swimming~~
15 ~~or bathing under the control of any person and includes, but is not limited to, the following:~~

16 ~~(a) Beaches;~~

17 ~~(b) Swimming pools, wading pools, wave pools;~~

18 ~~(c) Competition swimming pools and diving pools;~~

19 ~~(d) Water slides and spray pools; and~~

20 ~~(e) Spas, therapeutic pools, hydrotherapy pools, and whirlpools.~~

21 ~~It includes those operated by communities, subdivisions, apartment complexes,~~
22 ~~condominiums, clubs, camps, schools, institutions, parks, mobile home parks, hotels,~~
23 ~~recreational areas, or similar public facilities. It does not include any of the above facilities~~

1 ~~which are at private single family residences intended only for the use of the owner and~~
2 ~~guests.~~

3 ~~(47) "Public swimming and bathing facilities operator" means any "person" as defined~~
4 ~~above or any employees of that person who are delegated responsibility for the proper~~
5 ~~operation and maintenance of the facility.~~

6 ~~(48) "Pump discharge pressure" means the actual gauge reading measured in psi taken~~
7 ~~at the discharge outlet of a pump.~~

8 ~~(49) "Receptor" means an approved plumbing fixture or device of material, shape, and~~
9 ~~capacity to adequately receive the discharge from indirect waste piping, constructed and~~
10 ~~located to be readily cleaned.~~

11 ~~(50) "Recirculation system" means the interconnected system traversed by the~~
12 ~~recirculated water from the pool until it is returned to the pool.~~

13 ~~(51) Residual chlorine" shall mean the amount of measurable chlorine remaining in~~
14 ~~water following chlorination and is composed of the following components:~~

15 ~~(a) Free available residual chlorine shall mean the amount of chlorine which is available~~
16 ~~to inactivate microorganisms and which has not reacted with ammonia, nitrogenous~~
17 ~~material, and other material in swimming pool water;~~

18 ~~(b) Combined residual chlorine (also called "chloramine") shall mean the amount of~~
19 ~~chlorine which has reacted and combined with ammonia and other nitrogenous material to~~
20 ~~form chloro-ammonia compounds;~~

21 ~~(c) Total residual chlorine shall mean the arithmetic sum of free available residual~~
22 ~~chlorine and combined residual chlorine; and~~

23 ~~(d) The word "disinfectant" may be substituted for "chlorine" in the above.~~

1 ~~(52) "Return piping" means that part of the piping between the filter and the facility~~
2 ~~through which passes the filtered water.~~

3 ~~(53) "Separation tank" means a device used to clarify filter rinse or wastewater.~~

4 ~~(54) "Septum" means that part of the filter element consisting of cloth, or closely woven~~
5 ~~fabric or other porous material on which the filter cake is deposited.~~

6 ~~(61) "Surface skimmer" means a device designed to continuously remove surface film~~
7 ~~and water (and return it through the filter) as part of the recirculation system, usually~~
8 ~~incorporating a self-adjusting floating weir, strainer basket, a collection tank, and a means~~
9 ~~to prevent air lock of the pump. It is sometimes referred to as a "recirculating overflow," a~~
10 ~~"mechanical" or an "automatic skimmer."~~

11 ~~(55) "Spa" means a special facility designed for recreational and therapeutic use, and~~
12 ~~which is not drained, cleaned, or refilled after each individual use. It may include, but not~~
13 ~~be limited to, units designed for hydrojet circulation, hot water, cold water, mineral bath, air~~
14 ~~induction bubbles, or any combination thereof. Common terminology for a spa includes,~~
15 ~~but is not limited to, "therapeutic pool," "hydrotherapy pool," "whirlpool," "hot spa."~~

16 ~~(56) "Static suction lift" means the vertical distance in feet (meters) from the center line~~
17 ~~of the pump impeller to the level of water in the pool.~~

18 ~~(57) "Spray pool" means an artificially constructed area over which water is sprayed but~~
19 ~~is not allowed to pool. Sprayed water flows to waste and is not recirculated.~~

20 ~~(58) "Strainer" means a device used to remove hair, lint, leaves, or other coarse material~~
21 ~~on the suction side of a pump.~~

1 ~~(59) "Suction piping" means that portion of the circulation piping located between the~~
2 ~~facility structure and the inlet side of the pump and usually includes the following: main~~
3 ~~outlet piping, skimmer or gutter piping, vacuum piping, and surge tank piping.~~

4 ~~(60) "Superchlorinate" means the addition to facility water of an amount of chlorine~~
5 ~~sufficient to produce a free available residual which is at least equal to ten (10) times the~~
6 ~~amount of combined chlorine plus the required minimum level of free available chlorine in~~
7 ~~order to oxidize the ammonia and nitrogenous materials which may be dissolved in the~~
8 ~~facility water.~~

9 ~~(62) "Total dynamic head" means the arithmetical difference between the total~~
10 ~~discharge head and total suction head (a vacuum reading is considered as a negative~~
11 ~~pressure). This value is used to develop the published performance curve.~~

12 ~~(63) "Total discharge head" means the value in feet (meters) of water that a pump will~~
13 ~~raise water above its center line.~~

14 ~~(64) "Total suction head" means the value in feet (meters) of water that a pump will lift~~
15 ~~by suction.~~

16 ~~(65) "Total dynamic suction lift (TDSL)" means the arithmetical total of static suction lift,~~
17 ~~friction head loss, and velocity head loss working on the suction side of the pump.~~

18 ~~(66) "Trimmer valve" means a flow adjusting device which is used to proportion flow~~
19 ~~among multiple skimmers on a single line.~~

20 ~~(67) "Turnover time" means the time in hours or minutes, required for the circulation~~
21 ~~system to filter and recirculate a volume of water equal to the facility volume.~~

1 ~~(68) "Vacuum piping" means the piping from the suction side of a pump connected to a~~
2 ~~vacuum fitting located at the facility and below the water level to which underwater cleaning~~
3 ~~equipment may be attached.~~

4 ~~(69) "Velocity" means a measurement of the motion of liquids expressed in feet per~~
5 ~~second.~~

6 ~~(70) "Wading pool" means a pool intended only for small children. The maximum depth~~
7 ~~is less than twenty-four (24) inches.~~

8 ~~(71) "Water slide" means a slide which consists of one (1) or more flumes, a plunge~~
9 ~~pool, a pump reservoir, and water treatment facilities, where water is pumped to the top of~~
10 ~~the slide and allowed to flow down the flume to the plunge pool.~~

11 ~~(72) "Wave pool" means a swimming pool designed for the purpose of producing wave~~
12 ~~action in the water.~~

13 ~~(73) "Working pressure" means the normal operating pressure recommended by the~~
14 ~~manufacturer.~~

15 ~~Section 3. Submission of Plans and Specifications for Approval. (1) No person shall~~
16 ~~begin construction, or construct, or substantially change alter or reconstruct any public~~
17 ~~swimming and bathing facility until plans and specifications, with supporting design data as~~
18 ~~required in this administrative regulation for the proposed review of the plans, have first~~
19 ~~been submitted in quintuplicate (five (5) sets) to the cabinet through the Department of~~
20 ~~Housing, Buildings and Construction and have been approved in writing by all state or local~~
21 ~~agencies having jurisdiction. All construction shall be in accordance with approved plans.~~
22 ~~The front page of the plans shall contain the name of the swimming and bathing facility,~~
23 ~~location by city and county, name of its owner and name of the engineer, architect, or~~

1 ~~person preparing the plans. Plans submitted by an engineer or architect shall bear his seal.~~
2 ~~Plans and specifications on public swimming and bathing facilities constructed by the state~~
3 ~~or political subdivision, or on facilities designed for a bather load of 100 or more, shall be~~
4 ~~prepared by an engineer or architect registered in the State of Kentucky and comply with~~
5 ~~the provisions of KRS 322.010 and 323.010. Plans and specifications, reports and other~~
6 ~~information shall be submitted in form and content as may be specified by the cabinet.~~

7 ~~(2) The plans shall be drawn to scale and accompanied by proper specifications to~~
8 ~~permit a comprehensive engineering review of the plans including the piping and hydraulic~~
9 ~~details and shall include:~~

10 ~~(a) A site plan of the general area with a plan and sectional view of the facility complex~~
11 ~~with all necessary dimensions;~~

12 ~~(b) A piping diagram showing all appurtenances including treatment facilities in~~
13 ~~sufficient detail, as well as pertinent elevation data, to permit a hydraulic analysis of the~~
14 ~~system;~~

15 ~~(c) The specifications shall contain details on all treatment equipment, including~~
16 ~~performance ranges of pumps, chlorinators, chemical feeders, filters, strainers, lights,~~
17 ~~skimmers, inlet and outlet fittings, diving boards, safety equipment and other related~~
18 ~~equipment;~~

19 ~~(d) A statement of the design, bather load expected to use the facility at any given time;~~
20 ~~and~~

21 ~~(e) Drawing of equipment room showing placement of equipment.~~

22 ~~(3) Owners shall keep one (1) set of approved plans available for inspection at the job~~
23 ~~site in the possession of the actual builder of the facility.~~

1 ~~(4) Upon completion of the recirculation piping system and prior to such piping being~~
2 ~~covered with dirt or concrete, the owner or builder shall contact affected agencies for~~
3 ~~inspection.~~

4 ~~(5) Upon completion of the swimming and bathing facility, a notarized statement~~
5 ~~certifying completion of the facility in accordance with the approved plans and specifications~~
6 ~~and this administrative regulation shall be submitted to the cabinet by the engineer,~~
7 ~~architect, or person who prepared plans, and shall be accompanied by a request for~~
8 ~~inspection prior to occupancy. The facility shall not be used until final inspection by affected~~
9 ~~agencies demonstrates compliance with this administrative regulation.~~

10 ~~(6) Unless construction is begun within one (1) year from date of approval, the approval~~
11 ~~shall expire. Extension of approval may be granted upon written request to the cabinet.~~

12 ~~(7) No change in location, construction, design, materials, or equipment shall be made~~
13 ~~to approved plans or the facility without the written approval of the cabinet and all other~~
14 ~~agencies having jurisdiction.~~

15 ~~Section 4. Water Supplies. (1) Potable water from an approved municipal water system~~
16 ~~or water district shall be supplied to all public swimming and bathing facilities. If these~~
17 ~~supplies are not available, a potable water supply meeting the approval of the Natural~~
18 ~~Resources and Environmental Protection Cabinet shall be provided.~~

19 ~~(2) The water supply shall be capable of providing sufficient quantities of water under~~
20 ~~pressure to all water-using fixtures and equipment at the facility, and be capable of~~
21 ~~providing enough water to raise the water level in swimming, diving, or wave pools, and~~
22 ~~water slide plunge pools at least one (1) inch in three (3) hours.~~

1 ~~Section 5. Water Quality and Sanitary Requirements for Bathing Beaches. (1) Prior to~~
2 ~~the issuance of plan and construction approval, the cabinet shall conduct a sanitary survey~~
3 ~~of the proposed beach. This survey shall include an evaluation of the physical, chemical,~~
4 ~~and bacteriological characteristics of the bathing beach area and the watershed.~~

5 ~~(2) Physical quality. The following characteristics shall not be present in the beach area~~
6 ~~or watershed:~~

7 ~~(a) Sludge deposits, solid refuse, floating waste solids, oils, grease, and scum; and~~

8 ~~(b) Hazardous substances being discharged into bathing beach water or watershed.~~

9 ~~(3) Bacteriological quality. The bacteriological quality of water at bathing beaches shall~~
10 ~~comply with the following criteria:~~

11 ~~(a) It shall meet the requirements of 401 KAR 5:031, Section 6, recreational waters, as~~
12 ~~adopted by the Natural Resources and Environmental Protection Cabinet. Bacterial levels~~
13 ~~exceeding those standards shall be considered sufficient grounds to require additional~~
14 ~~investigation, survey, special analyses, and correction of any problems determined to be~~
15 ~~causing the high counts. Subsequent evaluation and satisfactory bacteriological results~~
16 ~~shall be obtained before approval for construction will be issued; and~~

17 ~~(b) There shall be no sanitary or combined sewer discharges or other raw or partially~~
18 ~~treated sewage discharges to the bathing beach area or immediate watershed.~~

19 ~~(4) Chemical quality. There shall be no discharges of chemical substances, other than~~
20 ~~disinfecting agents, capable of creating toxic reactions, or irritations to the skin or mucous~~
21 ~~membranes of a bather.~~

22 ~~Section 6. Sewage and Wastewater Disposal. Sewage or wastewater generated from~~
23 ~~the operation of a public swimming and bathing facility shall discharge to a public sanitary~~

1 sewer. If a public sanitary sewer is not available, sewage or wastewater shall be discharged
2 to a system which complies with 902 KAR 10:085, on-site sewage disposal systems
3 administrative regulation.

4 (1) Outdoor deck or surface area drainage water may be discharged directly to storm
5 sewers, natural drainage areas, or to the ground surface without additional treatment. Such
6 drainage shall not result in nuisance conditions, which create an offensive odor, or which
7 produce a stagnant wet area, or which produce an environment for the breeding of insects;

8 (2) Wash or backwash water from sand filters or diatomaceous earth filters shall be
9 discharged to public sanitary sewers, or if unavailable to a system approved by the cabinet.

10 Section 7. Refuse Disposal. (1) All refuse at a public swimming and bathing facility
11 shall be disposed of in a manner approved by Natural Resources and Environmental
12 Protection Cabinet.

13 (2) Refuse containers of approved design and construction, with tight fitting lids,
14 adequate in number, shall be provided at readily accessible locations at all public swimming
15 and bathing facilities. These containers shall be mounted upon an approved rack or holder
16 in all outdoor locations, and shall be maintained to prevent the creation of a health or safety
17 hazard.

18 (3) Refuse containers in rest rooms or bather preparation and dressing areas may be
19 of open top or swing lid design, except in women's rest rooms where swing lid or other
20 covered top containers shall be required.

21 (4) Bulk refuse storage areas shall be designed, constructed, drained, and maintained
22 to prevent rodent and vermin harborage, breeding sites, or insanitary conditions. Bulk
23 refuse containers shall be of approved design and construction, with tight fitting lids,

1 ~~adequate in number, and shall be placed upon an impervious surface within a suitable~~
2 ~~enclosure to prevent access by animals.~~

3 ~~(5) If the facility is not in use after seasonal operation or for any other reason, the facility~~
4 ~~shall not be allowed to accumulate debris, give off objectional odors, become a breeding~~
5 ~~site for insects, or create any other nuisance situation.~~

6 ~~Section 8. Facility Design and Construction. (1) All public swimming and bathing~~
7 ~~facilities and attendant structures such as bathhouses, dressing rooms, or rest rooms,~~
8 ~~except for beach areas at bathing beaches, shall meet the design, materials, fixture, and~~
9 ~~construction requirements of the Kentucky State Building Code and the State Plumbing~~
10 ~~Code of the Department of Housing, Buildings, and Construction, Public Protection and~~
11 ~~Regulation Cabinet.~~

12 ~~(2) The wading and swimming areas at beaches where the water is less than five (5)~~
13 ~~feet deep shall be separated from swimming and diving areas by lines securely anchored~~
14 ~~and buoyed. Safe limits of swimming shall be marked by buoys, poles, or other markers~~
15 ~~located not over 100 feet apart and visible to bathers from a distance of at least 100 feet.~~
16 ~~Within such limits of safe swimming there shall be no boating, underwater obstructions, or~~
17 ~~other hazards which may be dangerous or cause injury to swimmers. Signs shall be~~
18 ~~provided on the beach describing these markers and stating that they indicate the limits of~~
19 ~~safe bathing. The bottom of the swimming area shall consist of sand or gravel and be of a~~
20 ~~uniform slope.~~

21 ~~(3) If diving facilities are provided at beaches, the design and layout of the facilities and~~
22 ~~associated unobstructed water depths shall be in accordance with the State Building Code~~

1 requirements for swimming and diving pools. The water surrounding any floats where diving
2 is permitted shall be at least nine (9) and one-half (1/2) feet deep.

3 (4) Depth markings and lane lines.

4 (a) On all facilities other than beaches, the depth of the water shall be marked plainly
5 at or above the water surface on the vertical wall of the facility if possible and on the edge
6 of the deck next to the facility. Depth markers shall be placed at the following locations:

7 1. At the points of maximum and minimum depths;

8 2. At the point of change of slope between deep and shallow portions (transition point);

9 3. At intermediate two (2) foot increments of water depth; and

10 4. If the facility is designed for diving, at appropriate points to denote the water depths
11 in the diving area.

12 (b) Depth markers shall be spaced so that the distance between adjacent markers is
13 not greater than twenty five (25) feet or seven and five tenths (7.5) m as measured
14 peripherally.

15 (c) Depth markers shall be in Arabic numerals at least four (4) inches (ten (10) cm) high
16 and of a color contrasting with the background. If depth markers cannot be placed on the
17 vertical walls at or above the water level, other means shall be used, so that markings shall
18 be visible plainly to persons in the facility.

19 (d) Lane lines or other markings on the bottom of the facility shall be a minimum of ten
20 (10) inches in width and be of a contrasting color.

21 (e) A safety line supported by buoys shall be provided across the section of the pool
22 where the break between the shallow and deep water occurs (five (5) feet). The line shall
23 be placed one (1) foot toward the shallow end from where the break occurs.

1 ~~Section 9. Facility Water Treatment Systems. (1) A recirculation system, consisting of~~
 2 ~~pumps, piping, filters, water conditioning, disinfection equipment, and other accessory~~
 3 ~~equipment shall be provided to clarify, chemically balance, and disinfect the water for all~~
 4 ~~swimming and bathing facilities except bathing beaches. All system components shall bear~~
 5 ~~the seal of approval of the National Sanitation Foundation (NSF). (Pumps greater than~~
 6 ~~seven and five-tenths (7.5) HP which are not required to meet NSF testing standards shall~~
 7 ~~be considered on a case-by-case basis.)~~

8 ~~(2) Pumping equipment.~~

9 ~~(a) The recirculation pump and motor shall deliver the flow necessary to obtain the~~
 10 ~~turnover required in the table below. A valve for flow control shall be provided in the~~
 11 ~~recirculation pump discharge piping.~~

Turnover Rate. The turnover rate shall be as shown in the following table:	
Type of Facility	Turnover Required
Diving Pools	8 hours or less
Wading Pools, Spas	30 minutes or less
Water Slides, Handicap Pools	2 hours or less
Vortex Pools	1 hour or less
All Other Pools	6 hours or less
Higher flow rates may be necessary in pools with skimmers so that each skimmer will have a minimum flow rate of thirty (30) gallons per minute.	

12 ~~(b) The pump shall be of sufficient capacity to provide a minimum backwash rate of~~
 13 ~~fifteen (15) gallons per square foot of filter area per minute in sand filter systems. The pump~~

1 ~~or pumps shall supply the required recirculation rate of flow to obtain the turnover rate~~
2 ~~required at a total dynamic head of at least:~~

- 3 ~~1. Fifty (50) feet for all vacuum filters;~~
- 4 ~~2. Seventy (70) feet for pressure sand or cartridge filters; or~~
- 5 ~~3. Eighty (80) feet for pressure diatomaceous earth filters.~~

6 ~~(c) If the pump is located at an elevation higher than the facility water line, it shall be~~
7 ~~self-priming.~~

8 ~~(d) If vacuum filters are used, a vacuum limit control shall be provided on the pump~~
9 ~~suction line. The vacuum limit switch shall be set for a maximum vacuum of eighteen (18)~~
10 ~~inches of mercury.~~

11 ~~(e) A compound vacuum-pressure gauge shall be installed on the pump line. A vacuum~~
12 ~~gauge may be used for pumps with suction lift. A pressure gauge shall be installed on the~~
13 ~~pump discharge line adjacent to the pump.~~

14 ~~(f) Valves shall be installed to allow the flow to be shut off during cleaning, switching~~
15 ~~baskets, or inspection of hair and lint strainers.~~

16 ~~(g) A hair or lint strainer with openings no more than one-eighth (1/8) inch is required~~
17 ~~except for pumps that are located downstream of the filter.~~

18 ~~(3) Water heaters shall be installed at all indoor swimming and bathing facilities. If a~~
19 ~~water heater is installed, the following shall apply:~~

20 ~~(a) A water heater piping system shall be equipped with a bypass. A valve shall be~~
21 ~~provided at the bypass and on the influent and effluent heater piping. The influent and~~
22 ~~effluent heater piping shall be metallic in accordance with heater manufacturer's~~
23 ~~recommendations;~~

1 ~~(b) A heating coil, pipe, or steam hose shall not be installed in any swimming and~~
2 ~~bathing facility;~~

3 ~~(c) Thermometers shall be provided in the piping to check the temperature of the water~~
4 ~~returning from the facility and the temperature of the blended water returning to the facility;~~

5 ~~(d) An automatic temperature limiting device with thermostatic control, which will~~
6 ~~prevent the introduction of water in excess of 100° Fahrenheit to swimming and diving pools~~
7 ~~and in excess of 104° Fahrenheit for spas shall be provided, and be accessible only to the~~
8 ~~facility operator;~~

9 ~~(e) A pressure relief valve shall be provided and shall be piped to within six (6) inches~~
10 ~~of the floor;~~

11 ~~(f) Venting of gas or other fuel burning water heaters shall be provided in accordance~~
12 ~~with the applicable State Building Codes;~~

13 ~~(g) Heaters for indoor swimming and diving pools shall be capable of maintaining an~~
14 ~~overall pool water temperature between seventy-six (76) degrees Fahrenheit and eighty-~~
15 ~~four (84) degrees Fahrenheit;~~

16 ~~(h) Combustion and ventilation air shall be provided for fuel burning water heaters in~~
17 ~~accordance with manufacturer's recommendations or the State Building Code;~~

18 ~~(i) Heaters for indoor swimming and diving pools shall be sized on a basis of 150~~
19 ~~BTU's/hour input per square foot of pool water surface area; and~~

20 ~~(j) All heaters shall meet the latest standards of applicable recognized testing agencies.~~

21 ~~(4) A flow meter shall be located so that the rate of recirculation may be easily read.~~
22 ~~Flow meters shall be installed on a straight length of pipe at a distance of at least ten (10)~~

1 ~~pipe diameters downstream, and five (5) pipe diameters upstream from any valve, elbow,~~
2 ~~or other source of turbulence.~~

3 ~~(5) Vacuum cleaning system.~~

4 ~~(a) A vacuum cleaning system shall be provided for all facilities except beaches, and~~
5 ~~small indoor spas designed for six (6) or less bathers. A vacuum cleaning system capable~~
6 ~~of reaching all parts of the facility bottom shall be provided;~~

7 ~~(b) A vacuum system may be provided which utilizes the attachment of a vacuum hose~~
8 ~~to the suction piping through the skimmer. Vacuumed water must pass through the~~
9 ~~skimmer's strainer basket;~~

10 ~~(c) If the vacuum cleaning system is an integral part of the facility recirculation system,~~
11 ~~a wall fitting(s) shall be provided eight (8) to twelve (12) inches below the normal water level~~
12 ~~and be provided with a cap or plug. Piping from this connection shall be to the suction side~~
13 ~~of the pump ahead of the hair and lint strainer, shall be at least one and one-half (1 1/2)~~
14 ~~inches in diameter and be equipped with a control valve near the junction with the pump~~
15 ~~suction line. The size of the vacuum hose shall be at least one and one-half (1 1/2) inches~~
16 ~~in diameter and be of sufficient strength to prevent collapsing and allow adequate flow for~~
17 ~~proper cleaning;~~

18 ~~(d) Automatic vacuum systems may be used to supplement the built-in vacuum system~~
19 ~~provided they are capable of removing all debris from the facility bottom; and~~

20 ~~(e) Vacuum systems are to be used only when the facility is closed to bathers.~~

21 ~~(6) Piping, skimmer and overflow system.~~

1 ~~(a) Piping shall comply with the material specifications listed in the Kentucky State~~
2 ~~Plumbing Code for potable water. All piping, valves, or fittings shall be color coded, or~~
3 ~~suitably labeled, or marked to denote its purpose within the facility water treatment system.~~

4 ~~(b) The piping shall be designed to carry the required quantities of water at velocities~~
5 ~~not exceeding five (5) feet per second in suction piping, and ten (10) feet per second in~~
6 ~~pressure piping. Gravity piping shall be sized so that the head loss in piping, fittings, and~~
7 ~~valves does not exceed the difference in water levels between the facility and the maximum~~
8 ~~operating level in the surge or filter tank.~~

9 ~~(c) The following waste lines shall be provided with six (6) inch air gaps at their points~~
10 ~~of discharge to the waste pump or sewer:~~

- 11 ~~1. Main outlet bypass or other connections to waste;~~
- 12 ~~2. Surge tank drain and overflow lines;~~
- 13 ~~3. Pump discharge to waste lines; and~~
- 14 ~~4. Gutter bypass to waste lines.~~

15 ~~(7) Inlets.~~

16 ~~(a) Each inlet shall be flow adjustable.~~

17 ~~(b) The velocity of flow through any inlet orifice shall be in the range of five (5) to twenty~~
18 ~~(20) feet per second, except in facilities equipped with skimmers it shall be in the range of~~
19 ~~ten (10) to twenty (20) feet per second.~~

20 ~~(c) Inlets shall be located and permanently directed to produce uniform circulation of~~
21 ~~water to facilitate the maintenance of a uniform disinfectant residual throughout the entire~~
22 ~~facility without the existence of dead spots. Inlets in facilities with skimmers shall be twelve~~

1 ~~(12) inches below the midpoint on the skimmer throat. Inlets in facilities with a prefabricated~~
2 ~~perimeter overflow system shall be eight (8) inches or more below the lip of the gutter.~~

3 ~~(d) Inlets for swimming and diving pools, wave pools, large spas, and water slide plunge~~
4 ~~pools shall be spaced as follows:~~

5 ~~1. Inlets shall be placed completely around the pool, each serving a linear distance of~~
6 ~~not more than fifteen (15) feet on center. The pipe serving the inlets shall form a loop~~
7 ~~completely around the pool; and~~

8 ~~2. If inlets are to be placed on the bottom of the pool, the number of inlets shall be~~
9 ~~determined by dividing the perimeter of the pool measured in feet, by fifteen (15), any~~
10 ~~fraction thereof would represent one (1) additional inlet.~~

11 ~~(e) Inlets for wading pools, and small spas for six (6) or less bathers, shall be at least~~
12 ~~two (2) in number, and placed so as to meet the requirements of paragraph (c) of this~~
13 ~~subsection.~~

14 ~~(f) At least one (1) inlet shall be located in each recessed stairwell or other space where~~
15 ~~water circulation might be impaired.~~

16 ~~(g) A continuous flume, tubing, or other arrangement near the pool water surface which~~
17 ~~serves as inlet supply piping and employs multiple "jet" inlets is approved provided the~~
18 ~~individual components of the system meet the requirements of paragraphs (a), (b) and (c)~~
19 ~~of this subsection and subsections (9)(a), (b) and (10) of this section.~~

20 ~~(h) Prefabricated perimeter overflow systems shall be approved on a case-by-case basis~~
21 ~~by the cabinet.~~

22 ~~(8) Outlets.~~

1 ~~(a) All facilities shall be provided with a main outlet at the deepest point to permit the~~
2 ~~facility to be completely and easily drained. Openings shall be covered by a proper grating~~
3 ~~which is not removable by bathers without the use of tools, and which cannot entrap their~~
4 ~~fingers. Openings of the grating shall be at least four (4) times the area of the main outlet~~
5 ~~pipe and have sufficient area so that the maximum velocity of the water passing through~~
6 ~~the grate does not exceed one and one-half (1 1/2) feet per second at maximum flow. The~~
7 ~~maximum width of grate openings shall be one-fourth (1/4) inch;~~

8 ~~(b) Multiple outlets shall be provided in all facilities where the width of the facility is more~~
9 ~~than thirty (30) feet. In these cases, outlets shall be spaced not more than thirty (30) feet~~
10 ~~apart, nor more than fifteen (15) feet from side walls, and shall be connected in parallel, not~~
11 ~~series. All spas and wading pools shall have at least two (2) outlets;~~

12 ~~(c) A hydrostatic relief valve may be provided for in-ground swimming and diving pools,~~
13 ~~wave pools, and water slide plunge pools. Subsurface drainage, if provided, shall not be~~
14 ~~directly connected to a sanitary sewer; and~~

15 ~~(d) Main outlet piping shall be sized for removal of the water through it at a rate of at~~
16 ~~least 100 percent of the design recirculation flow rate at velocities specified in subsection~~
17 ~~(6)(b) of this section. It shall function as a part of the recirculation system. The piping system~~
18 ~~shall be valved to permit adjustment of flow through it.~~

19 ~~(9) Perimeter overflow systems.~~

20 ~~(a) Swimming and bathing facilities other than pools designed and used exclusively for~~
21 ~~diving, having a water surface area greater than 1,600 square feet shall have a continuous~~
22 ~~perimeter overflow system. Swimming and bathing facilities less than 1,600 square feet in~~
23 ~~area and thirty (30) feet or less in width may use surface skimmers.~~

1 ~~(b) A perimeter overflow system shall:~~

2 ~~1. Extend completely around the facility;~~

3 ~~2. Permit inspection, cleaning, and repair;~~

4 ~~3. Be designed so that no ponding or retention of water occurs within any portion of the~~
5 ~~system; or the passage of small children into an enclosed chamber;~~

6 ~~4. Be designed to prevent the entrapment of bather's arms, legs, and feet;~~

7 ~~5. Have an overflow lip which is rounded, provides a good handhold, and is level within~~
8 ~~two-tenths (0.2) inch;~~

9 ~~6. Provide for the rapid removal of all water and debris skimmed from the pool's surface;~~

10 ~~7. Be designed for removal of water from the pool's upper surface at a rate equal to 100~~
11 ~~percent of the design turnover flow rate. If the surge volume is to be stored in the perimeter~~
12 ~~overflow system, the system shall have the capacity to carry 100 percent of the design flow~~
13 ~~while maintaining the surge storage capacity;~~

14 ~~8. Discharge to the recirculation system;~~

15 ~~9. Be provided with sufficient drains and piping which will not allow the overflow channel~~
16 ~~to become "flooded" when the facility is in normal use; and~~

17 ~~10. Have drain gratings with surface area at least equal to two (2) times the area of the~~
18 ~~outlet pipe.~~

19 ~~(10) All facilities which have perimeter overflow systems shall be provided with a net~~
20 ~~surge capacity of at least one (1.0) gallon per square foot of water surface area. Surge~~
21 ~~capacity shall be provided either in a vacuum filter tank, in the perimeter overflow system,~~
22 ~~in a surge tank, or a combination of these. Valving shall be provided where necessary, to~~
23 ~~automatically retain water during periods of facility use and to discharge water during the~~

1 ~~periods of nonuse so that the proper operating water level in the facility is maintained at all~~
2 ~~times.~~

3 ~~(11) Skimmers are permitted on facilities whose width does not exceed thirty (30) feet~~
4 ~~and whose water surface area is 1,600 square feet or less. If skimmers are used, the~~
5 ~~following shall be met:~~

6 ~~(a) At least one (1) skimmer shall be provided for each 500 square feet of water surface~~
7 ~~area or fraction thereof; with a minimum of two (2) skimmers provided, except for small~~
8 ~~spas, or wading pools with a water surface area of 144 square feet or less, where a~~
9 ~~minimum of one (1) skimmer shall be required.~~

10 ~~(b) Skimmers shall be located to minimize interference with each other;~~

11 ~~(c) The rate of flow per skimmer shall not be less than thirty (30) gallons per minute,~~
12 ~~and all skimmers shall be capable of handling at least eighty (80) percent of required flow~~
13 ~~rate;~~

14 ~~(d) The surface skimmer piping shall have both a trimmer valve and a separate valve~~
15 ~~in the equipment room to permit adjustment of flow;~~

16 ~~(e) Each skimmer shall be provided with an equalizer line at least one and one-half (1~~
17 ~~1/2) inches in diameter, located at least one (1) foot below the lowest overflow level of the~~
18 ~~skimmer, and be provided with a self-closing valve;~~

19 ~~(f) A basket which can be removed without the use of tools and through which all~~
20 ~~overflow water must pass, shall be provided; and~~

21 ~~(g) Skimmer equipped swimming and diving pools, wave pools, water slide plunge~~
22 ~~pools, and large spas shall have a smoothly contoured handhold coping not over two and~~

1 ~~one-half (2 1/2) inches thick for the outer two (2) inches or an equivalent approved~~
2 ~~handhold. The handhold shall be no more than nine (9) inches above the normal water line.~~

3 ~~(12) All facilities shall be equipped for the addition of make-up water from a potable~~
4 ~~water source pursuant to the following:~~

5 ~~(a) Discharge through an air gap of at least six (6) inches to the facility to a surge tank,~~
6 ~~or a vacuum filter tank. If make-up water is added directly to the facility, the fill spout shall~~
7 ~~be located under or immediately adjacent to a ladder rail, grab rail, or lifeguard platform. If~~
8 ~~added to a surge tank or vacuum filter tank, the six (6) inch air gap shall be measured~~
9 ~~above the top lip of the tank; and~~

10 ~~(b) Through piping with vacuum breaker, antisiphon or other protection as specified by~~
11 ~~the State Plumbing Code.~~

12 ~~(13) Filtration.~~

13 ~~(a) Filters shall comply with the following:~~

14 ~~1. Pressure filters shall have pressure gauges;~~

15 ~~2. Pressure filters shall have an observable free fall, or a sight glass shall be installed~~
16 ~~on the backwash discharge line;~~

17 ~~3. Pressure filters shall have a manual air-relief valve at the high point;~~

18 ~~4. The filter backwash disposal facility shall have sufficient capacity to prevent flooding~~
19 ~~during the backwash cycle;~~

20 ~~5. All filters shall be designed so that they can be completely drained. Filters shall be~~
21 ~~drained through a six (6) inch air gap to a pump or sanitary sewer;~~

22 ~~6. Filter media shall meet NSF specifications;~~

23 ~~7. Each facility shall have separate filtration and treatment systems;~~

1 ~~8. Filter equipment and treatment systems shall operate continuously twenty-four (24)~~
2 ~~hours per day except if the facility is closed for repairs or at the end of the swimming season;~~
3 ~~and~~

4 ~~9. Individual filters shall be designed with necessary valves and piping to permit isolation~~
5 ~~of individual filters for repairs while other units are in service.~~

6 ~~(b) Rapid sand or gravity sand filters:~~

7 ~~1. Rapid sand filters shall be designed for a filter rate not to exceed three (3) gallons~~
8 ~~per minute per square foot of bed area at time of maximum head loss with sufficient area~~
9 ~~to meet the design rate of flow required by the prescribed turnover. Open gravity type filters~~
10 ~~shall be designed for a filter rate not exceeding two (2) gallons per square foot per minute.~~

11 ~~2. Filtering media shall consist of at least twenty (20) inches of graded, sharp filter sand~~
12 ~~with an effective size between four-tenths (0.4) and 0.55 mm and a uniformity coefficient~~
13 ~~not exceeding one and 1.75, supported by at least ten (10) inches of graded filter gravel.~~
14 ~~Anthracite with effective size of six-tenths (0.6) to eight-tenths (0.8) mm with a uniformity~~
15 ~~coefficient of not greater than one and eight-tenths (1.8) may be used in lieu of the sand. A~~
16 ~~reduction in gravel depth or an elimination of gravel may be permitted where equivalent~~
17 ~~performance and service are demonstrated.~~

18 ~~3. At least twelve (12) inches of freeboard shall be provided between the upper surface~~
19 ~~of the filter media and the lowest portion of the pipes or drains which serve as overflows~~
20 ~~during backwashing.~~

21 ~~4. The filter system shall be designed with necessary valves and piping to permit:~~

22 ~~a. Filtering to pool; and~~

1 ~~b. Individual backwashing of filters to waste at a rate of not less than fifteen (15) gallons~~
2 ~~per minute per square foot of filter area. A backwash rate of eight (8) gallons per square~~
3 ~~foot per minute shall be provided for anthracite filters;~~

4 ~~5. Each filter shall be provided with an access opening of not less than a standard~~
5 ~~eleven (11) inch by fifteen (15) inch manhole and cover.~~

6 ~~6. The filter tank and its integral parts shall be constructed of substantial material~~
7 ~~capable of withstanding continuous anticipated usage and shall be designed for a pressure~~
8 ~~safety factor of four (4) based on the maximum shutoff head of the pump. This shutoff head~~
9 ~~for design purposes shall in no case be considered less than fifty (50) pounds per square~~
10 ~~inch.~~

11 ~~(c) High rate sand filters. The design filtration rate shall be a minimum of five (5) gallons~~
12 ~~per minute per square foot of filter area. The maximum design filtration rate shall be the~~
13 ~~lesser of fifteen (15) gallons per minute per square foot of filter area or seventy five (75)~~
14 ~~percent of the NSF listed filtration rate. The backwash rate shall be fifteen (15) gallons per~~
15 ~~minute per square foot of filter area.~~

16 ~~(d) Diatomaceous earth filters.~~

17 ~~1. The design filtration rate shall not exceed one and one-half (1 1/2) gallons per minute~~
18 ~~per square foot of filter area on diatomaceous earth filters, except that the rate of filtration~~
19 ~~may be increased to two (2) gallons per minute per square foot of filter area if continuous~~
20 ~~feeding of diatomaceous earth is employed;~~

21 ~~2. A precoat pot shall be provided on the pump suction line for pressure diatomaceous~~
22 ~~earth systems. All diatomaceous earth filter systems shall have piping arranged to allow~~
23 ~~recycling of the filter effluent during precoating;~~

1 ~~3. If equipment is provided for the continuous feeding of diatomaceous earth to the filter~~
2 ~~influent, the equipment shall have a capacity to feed at least one and one-half (1 1/2)~~
3 ~~ounces of this material per square foot of filter area per day;~~

4 ~~4. Overflow piping on vacuum diatomaceous earth filters shall be provided on the filter~~
5 ~~tank to discharge overflow water; and~~

6 ~~5. All filters shall be equipped for cleaning by one (1) or more of the following methods:~~
7 ~~backwashing; air pump assist backwashing; spray wash; water pressure to wash vacuum~~
8 ~~filter; or agitation.~~

9 ~~(e) Vacuum sand filters.~~

10 ~~1. The design filtration rate shall be seventy-five (75) percent of that listed by NSF or~~
11 ~~fifteen (15) gallons per minute whichever is lesser. The backwash rate shall be at fifteen~~
12 ~~(15) gallons per minute per square foot of filter area; and~~

13 ~~2. Overflow piping shall be provided in order to drain overflow water.~~

14 ~~(f) Cartridge filters.~~

15 ~~1. Cartridge filters shall not be used on facilities with a capacity larger than 80,000~~
16 ~~gallons;~~

17 ~~2. Cartridge filters shall only be used on indoor pools;~~

18 ~~3. The design filtration rate shall not exceed 0.15 gallons per minute per square foot of~~
19 ~~filter surface area; and~~

20 ~~4. A clean duplicate set of cartridges shall be maintained at the facility.~~

21 ~~(14) Disinfectant and chemical feeders.~~

1 ~~(a) The minimum chemical feed equipment required at any facility shall include a unit~~
2 ~~for feed of a disinfectant and a unit for feed of a chemical for pH control, except as stated~~
3 ~~in paragraph (e) of this subsection.~~

4 ~~(b) Equipment capacity.~~

5 ~~1. Equipment for supplying chlorine or compounds of chlorine shall be of sufficient~~
6 ~~capacity to feed the chlorine at a rate of eight (8) p.p.m. (two and seven tenths (2.7) lbs/day~~
7 ~~chlorine gas or its equivalent for each 10,000 gallons of pool volume) for outdoor facilities~~
8 ~~and three (3) p.p.m. (one (1) lbs/day for chlorine gas or its equivalent for each 10,000~~
9 ~~gallons of pool volume) for indoor facilities based on the flow rates specified in subsection~~
10 ~~(2)(a) of this section;~~

11 ~~2. The equipment for supplying chlorine shall not be controlled by a day-date clock;~~

12 ~~3. The injection point for chlorine shall be placed on the discharge side of the pump and~~
13 ~~downstream of the flow meter;~~

14 ~~4. Pot feeders for supplying bromo-chlorodimethylhydantoin sticks shall contain at least~~
15 ~~0.50 pounds of bromo-chlorodimethylhydantoin per thousand gallons of facility capacity, or~~
16 ~~fraction thereof. The feeder shall have a method of feed rate adjustment;~~

17 ~~5. Ozone may be used as a supplement to chlorination or bromination as required in~~
18 ~~subparagraph 1 or 4 of this paragraph. Ozonation equipment will be considered by the~~
19 ~~cabinet on a case-by-case basis for experimental use; and~~

20 ~~6. No more than one (1) gram per day of ozone per ten (10) gallons per minute of flow~~
21 ~~rate will be allowed. The ambient air ozone concentration shall be less than .05 p.p.m. at~~
22 ~~all times either in the vicinity of the ozonator or at the pool water surface.~~

1 ~~(c) If positive displacement pumps (hypochlorinators) are used to inject the disinfectant~~
2 ~~solution into the recirculation line, they shall be of variable flow type and shall be of sufficient~~
3 ~~capacity to feed the amount of disinfectant required by paragraph (b)1 of this subsection. If~~
4 ~~calcium hypochlorite is used, the concentration of calcium hypochlorite in the solution shall~~
5 ~~not exceed five (5) percent. The solution container shall have a minimum capacity equal to~~
6 ~~the volume of solution required per day at the feed rate required in paragraph (b)1 of this~~
7 ~~subsection.~~

8 ~~(d) Gas chlorinators.~~

9 ~~1. The chlorine supply and gas feeding equipment shall be housed in a separate,~~
10 ~~relatively airtight room. The room shall be provided with an exhaust system which takes its~~
11 ~~suction not more than eight (8) inches from the floor and discharges out of doors in a~~
12 ~~direction to minimize exposure to toxic fumes. The fan shall be capable of producing one~~
13 ~~(1) air change per minute. Means for introducing a fresh air supply to the enclosure through~~
14 ~~appropriate openings such as filters, grill openings, or other similar openings, at a high point~~
15 ~~opposite the exhaust fan intake shall be provided. The room shall have a window at least~~
16 ~~eighteen (18) inches square, and shall have artificial lighting. Electrical switches for lighting~~
17 ~~and ventilation shall be outside and adjacent to the door. Scales for weighing chlorine~~
18 ~~cylinders in service shall be provided. Automatic changeover chlorinators may be~~
19 ~~substituted for scales.~~

20 ~~2. Chlorine cylinders either full or empty shall be anchored, or chained in a vertical~~
21 ~~position. The valve protection hoods shall be kept in place, except when the cylinders are~~
22 ~~connected. Chlorine feed devices should be located directly on the tank if practical;~~

1 ~~3. The chlorine feeding device shall be designed so that during interruptions of the flow~~
2 ~~of the water supply, gas feed is automatically terminated. In addition, the release of chlorine~~
3 ~~shall be terminated if the recirculation pump is shut off. If other than facility recirculated~~
4 ~~water is used, the supply line shall be equipped with an electric shut off valve wired to the~~
5 ~~recirculation pump and shall be equipped with an approved backflow preventer. If two (2)~~
6 ~~or more cylinders are in use, an automatic changeover valve shall be used;~~

7 ~~4. Chlorinator vent lines shall be conducted to the out-of-doors similar to the chlorinator~~
8 ~~room exhaust system;~~

9 ~~5. The gas chlorinator shall be the solution feed type capable of delivering chlorine at~~
10 ~~its maximum rate without releasing chlorine gas to the atmosphere;~~

11 ~~6. The water supply for the gas feeding equipment shall produce the flow rate and~~
12 ~~pressure required according to the manufacturer's specifications for proper operation of the~~
13 ~~equipment;~~

14 ~~7. A self-contained breathing apparatus (SCBA) designed for use in a chlorine~~
15 ~~atmosphere and of a type approved by the Mine Safety and Health Administration (MSHA)~~
16 ~~or the National Institute for Occupational Safety and Health (NIOSH), shall be provided.~~
17 ~~This SCBA shall have sufficient capacity for the purpose intended. In addition a written~~
18 ~~respirator program shall be provided and employees shall be trained in the use and~~
19 ~~maintenance of such equipment to insure operability and safety. The SCBA shall be kept~~
20 ~~in a closed cabinet, accessible without a key, and located outside of the chlorine room.~~
21 ~~Installation of chlorinator equipment, and its operation, shall be carried on by and under the~~
22 ~~supervision of personnel experienced with installation and operation of such equipment. A~~
23 ~~chlorine valve shut off wrench shall be kept on the cylinder valve stem that is in use; and~~

1 ~~8. In the event of a chlorine leak, the fire department or an agency trained in the handling~~
2 ~~of chlorine spills shall be immediately contacted. The phone numbers of the fire department~~
3 ~~or above agency shall be posted on the outside of the chlorine room door.~~

4 ~~(e) pH control feeders. At facilities with a volume greater than 100,000 gallons, or at~~
5 ~~facilities utilizing gas chlorine as a disinfectant, a chemical feeder of positive displacement~~
6 ~~type shall be installed for the purpose of applying chemicals to maintain pH of facility water~~
7 ~~within the range of seven and two tenths (7.2) to seven and eight tenths (7.8). A solution~~
8 ~~tank of adequate at least forty (40) gallons capacity shall be provided.~~

9 ~~(f) Erosion type chlorine feeders shall be prohibited.~~

10 ~~(15) Testing equipment shall be provided at all swimming and bathing facilities,~~
11 ~~maintained with fresh reagents, and consist of at least the following:~~

12 ~~(a) A DPD (Diethyl-P-Phenylene Diamine) colorimetric test kit shall be provided, which~~
13 ~~will determine free disinfectant residual, combined disinfectant residual, total alkalinity, and~~
14 ~~pH of the facility water. Test kits using orthotolidine reagents are not acceptable;~~

15 ~~(b) There shall be At least five (5) chlorine color standards and at least five (5) pH color~~
16 ~~standards. Chlorine standards shall range from one-tenth (0.1) to three (3.0) p.p.m. and pH~~
17 ~~standards shall range from six and eight tenths (6.8) to eight and four tenths (8.4), as a~~
18 ~~minimum. Both tests shall be accurate to within two-tenths (0.2) units; and~~

19 ~~(c) Facilities using cyanurates for stabilization shall have a test kit to measure the~~
20 ~~cyanuric acid concentration. The cyanuric acid test kit shall permit readings up to 100 p.p.m.~~

21 ~~Section 10. Operational Water Quality Standards. (1) Disinfectant residuals for~~
22 ~~swimming and diving pools, wading pools, water slides, and wave pools:~~

1 ~~(a) Chlorine residual shall be maintained between one (1.0) p.p.m. and two and five-~~
2 ~~tenths (2.5) p.p.m. as free available chlorine.~~

3 ~~(b) Bromine residual shall be maintained between one (1.0) p.p.m. and two and five-~~
4 ~~tenths (2.5) p.p.m. as free available disinfectant.~~

5 ~~(c) Pools stabilized with cyanuric acid shall meet the following criteria:~~

6 ~~1. Be an outdoor facility;~~

7 ~~2. Maintain one and five tenths (1.5) to two and five tenths (2.5) p.p.m. free available~~
8 ~~chlorine residual; and~~

9 ~~3. Cyanuric acid concentration twenty five (25) p.p.m. to fifty (50) p.p.m.~~

10 ~~(d) If the presence of chloramines is determined, superchlorination is required, and the~~
11 ~~chloramine level shall not exceed two tenths (0.2) p.p.m.~~

12 ~~(2) Disinfectant residuals for spas:~~

13 ~~(a) Chlorine residual shall be maintained between one (1.0) two (2.0) p.p.m. and three~~
14 ~~(3.0) p.p.m. as free available chlorine;~~

15 ~~(b) Bromine residual shall be maintained between two (2.0) p.p.m. and three (3.0)~~
16 ~~p.p.m. as free available disinfectant; and~~

17 ~~(c) If the level of chloramines exceeds two tenths (0.2) p.p.m., superchlorination is~~
18 ~~required. During the superchlorination process and until such time as free chlorine levels~~
19 ~~return to three (3) p.p.m. or less, the facility shall be closed.~~

20 ~~(3) pH. The pH of the facility water shall be maintained in a range of seven and two-~~
21 ~~tenths (7.2) to seven and eight tenths (7.8). For corrosive water supplies, the alkalinity level~~
22 ~~shall be suitably adjusted to allow maintenance of the pH level.~~

1 ~~(4) Turbidity. Facility water shall have sufficient clarity at all times to meet one (1) of the~~
2 following:

3 ~~(a) A black disc, six (6) inches in diameter, is readily visible when placed on a white~~
4 ~~field at the deepest point of the pool;~~

5 ~~(b) The openings of the main outlet grate are clearly visible by an observer on the deck;~~
6 and

7 ~~(c) For wading pools the bottom of the pool shall be clearly visible.~~

8 ~~(5) Total alkalinity. The alkalinity of the facility water shall not be less than fifty (50) nor~~
9 ~~more than 180 p.p.m., as determined by suitable test kits.~~

10 ~~(6) Temperature. The water temperature for indoor swimming and bathing facilities~~
11 ~~other than spas shall not be less than seventy six (76) degrees Fahrenheit nor more than~~
12 ~~eighty-four (84) degrees Fahrenheit. The cabinet may allow variances from the above~~
13 ~~temperature limits for special use purposes as competition, physical therapy, or instruction~~
14 ~~of children. Variances may be approved if proof is presented showing that a variance from~~
15 ~~the temperature requirements is necessary for the special uses stated, and that the~~
16 ~~variance will not jeopardize public health. Air temperature at an indoor facility shall be higher~~
17 ~~than the water temperature, except for spas. In no instance will water temperatures for any~~
18 ~~facility including spas be permitted to exceed 104 degrees Fahrenheit. All facilities with~~
19 ~~heated water shall be provided with at least one (1) breakproof thermometer located within~~
20 ~~the facility water in a conspicuous location. The thermometer shall be securely mounted to~~
21 ~~prevent tampering by bathers.~~

1 ~~(7) The facility operator shall perform tests for each of the above water quality~~
2 ~~characteristics before opening and during all hours of operation based on the frequency~~
3 ~~schedule listed below, and record all test results on a daily operational log sheet:~~

4 ~~(a) Disinfectant residual, and pH shall be checked at least three (3) times daily with a~~
5 ~~greater frequency if bather load or climatic conditions warrant.~~

6 ~~(b) Turbidity - daily, or more often as needed.~~

7 ~~(c) Alkalinity, cyanuric acid (if used) - weekly, or more often as needed.~~

8 ~~(d) Temperature:~~

9 ~~1. Spas - daily, or more often as needed; and~~

10 ~~2. All other indoor facilities - daily.~~

11 ~~(8) All spas shall be completely drained, thoroughly cleaned, and refilled with potable~~
12 ~~water at least once per week. Cleaners used shall be compatible with facility wall and~~
13 ~~bottom finishes.~~

14 ~~Section 11. General Facility Operation and Maintenance. (1) Facility and facility area.~~

15 ~~(a) All facilities shall be maintained free from sediment, lint, dirt, and hair. Cracks and~~
16 ~~other defects in the facility shall be repaired. The walls, ceilings, floors, and equipment shall~~
17 ~~be painted as often as necessary so that they are protected from deterioration. The bottom~~
18 ~~and sides of the facility shall be maintained so that they are free from deterioration;~~

19 ~~(b) Decks shall be rinsed as necessary to be kept clean. Indoor decks shall be~~
20 ~~disinfected at least weekly. The walk areas, overflow gutters, counters, lockers, equipment,~~
21 ~~furniture, interior partitions, and walls shall be kept in good repair, clean, and sanitary; and~~

22 ~~(c) Management of each facility shall adopt rules for controlling of food, drink, and~~
23 ~~smoking in the facility and surrounding areas.~~

1 ~~(2) Perimeter overflow and skimmers. The perimeter overflow system or automatic~~
2 ~~surface skimmers shall be clean and free of leaves or other obstacles which would restrict~~
3 ~~flow. The strainer baskets for skimmers shall be cleaned daily. The flow through each~~
4 ~~skimmer shall be adjusted as often as necessary to maintain a vigorous skimming action.~~
5 ~~The facility water shall be maintained at an elevation so that effective surface skimming is~~
6 ~~accomplished. The flow returning from the facility shall be balanced or valved so that the~~
7 ~~majority of flow is returned through the perimeter overflow or skimmer system.~~

8 ~~(3) Inlet fittings. Inlets shall be checked frequently to insure that the rate of flow through~~
9 ~~each inlet is correct so that a uniform distribution pattern is established.~~

10 ~~(4) Bather preparation facilities.~~

11 ~~(a) The floors of dressing rooms, shower stalls, and other interior rooms shall be~~
12 ~~cleaned and disinfected daily; and~~

13 ~~(b) Toilet rooms and fixtures shall be kept clean, free of dirt and debris, and in good~~
14 ~~repair. Floors shall be maintained in a nonslip condition. Soap dispensers shall be filled and~~
15 ~~operable. Adequate supplies of toilet tissue, disposable hand drying towels, roll type cloth~~
16 ~~towels, or suitable hand drying devices shall be maintained.~~

17 ~~(5) Street attire. Street shoes shall not be worn on the facility decks or wet areas of the~~
18 ~~bather preparation facilities, except for those persons engaged in official duties.~~

19 ~~(6) Safety. All public swimming facilities shall have adequate enclosures that meet the~~
20 ~~specifications of Department of Housing, Buildings and Construction. Doors or gates in the~~
21 ~~facility enclosure shall be kept closed and locked if the facility is closed.~~

1 ~~(7) Electrical systems. Repairs to any electrical system shall be made by an electrician.~~
2 ~~All repairs shall be in accordance with the National Electrical Code and shall be approved~~
3 ~~by a certified electrical inspector.~~

4 ~~(8) Diving equipment, ladders, hand rails, and other similar equipment, shall be~~
5 ~~maintained in good repair, be securely anchored, and have a nonslip surface.~~

6 ~~(9) Operation of mechanical equipment.~~

7 ~~(a) Manufacturers' instructions for operation and maintenance of mechanical and~~
8 ~~electrical equipment, as well as pump performance curves, shall be kept available at the~~
9 ~~facility;~~

10 ~~(b) Pumps, filters, disinfectant feeders, pH controls, flow indicators, gauges, and all~~
11 ~~related components of the facility water recirculation system shall be kept in continuous~~
12 ~~operation twenty-four (24) hours a day; and~~

13 ~~(c) Recirculation pumps. The pump shall not be throttled on the suction side (except the~~
14 ~~bottom drain line valve) during normal operation, and shall be kept in good repair and~~
15 ~~condition. The flow control valve on the discharge side shall be adjusted as necessary to~~
16 ~~maintain the design flow rate.~~

17 ~~(10) Filtration.~~

18 ~~(a) Sand filters.~~

19 ~~1. The filter air release valve shall be opened as necessary, to remove air which collects~~
20 ~~in the filter, and following each backwash; and~~

21 ~~2. The filter shall be backwashed if the design flow rate can no longer be achieved, or~~
22 ~~as specified by the filter manufacturer, whichever occurs first.~~

23 ~~(b) Diatomaceous earth filters.~~

1 ~~1. The dosage of diatomaceous earth precoat shall be at least one and one-half (1 1/2)~~
2 ~~ounces per square foot of element surface area. Pressure diatomaceous earth filters shall~~
3 ~~be backwashed if the design flow rate can no longer be achieved or as specified by the~~
4 ~~filter manufacturer, whichever occurs first. If the recirculation pump stops or is shut off, the~~
5 ~~filter shall be thoroughly backwashed and the elements shall be precoated before placing~~
6 ~~the pump back into operation. Vacuum diatomaceous earth filters shall be washed if the~~
7 ~~design flow rate can no longer be achieved or as specified by the filter manufacturer,~~
8 ~~whichever occurs first;~~

9 ~~2. Following the precoating operation, the initial filter effluent shall be either recirculated~~
10 ~~through the filter until the filter effluent is clear, or the initial filter effluent shall be discharged~~
11 ~~to waste until properly clarified water is produced; and~~

12 ~~3. If continuous diatomaceous earth feed is required (filter loading rate exceeds one~~
13 ~~and five-tenths (1.5) gallons per minute per square foot of filter surface area), it shall be~~
14 ~~applied at a rate of one-half (1/2) - one and one-half (1 1/2) ounces per square foot of~~
15 ~~surface area per day, or as needed to extend filter cycles.~~

16 ~~(11) Hair and lint strainers. Hair and lint strainers shall be cleaned to prevent clogging~~
17 ~~of the suction line and cavitation. The pump shall be stopped before the strainer is opened.~~
18 ~~In all cases, the hair strainer basket shall be cleaned during the time the filter is being~~
19 ~~backwashed.~~

20 ~~(12) Flow meters. Flow meters shall be maintained in an accurate operating condition~~
21 ~~and readily accessible. The glass and the connecting tubes shall be kept clean.~~

22 ~~(13) Vacuum and pressure gauges. The lines leading to the gauges shall be bled~~
23 ~~occasionally to prevent blockage.~~

1 ~~(14) Gas chlorinators.~~

2 ~~(a) Gas chlorinators shall be repaired only by a person trained in servicing these units.~~

3 ~~The facility operator shall determine the appropriate emergency personnel to contact in the~~
4 ~~event of a chlorine gas emergency and have the telephone number of said personnel~~
5 ~~conspicuously posted;~~

6 ~~(b) Chlorine cylinders shall be stored indoors in the area designed for that purpose and~~
7 ~~away from a direct source of heat. Cylinders shall not be moved unless the protection cap~~
8 ~~is secured over the valve; and~~

9 ~~(c) Chlorinator, gas line, injector, and cylinders shall be checked daily for leaks. Chlorine~~
10 ~~will produce a white smoke in the presence of ammonia. In case of a chlorine leak,~~
11 ~~corrective measures shall be undertaken only by trained persons wearing proper safety~~
12 ~~equipment. All other persons shall leave the dangerous area until conditions are again safe.~~

13 ~~(15) Self-contained breathing apparatus (SCBA).~~

14 ~~(a) A record shall be kept of SCBA usage to insure that the unit will be serviceable when~~
15 ~~needed. The SCBA shall be kept in a closed cabinet, accessible without a key, located~~
16 ~~outside of the room in which the chlorinator is located, and preferably outside the entrance~~
17 ~~to the equipment room; and~~

18 ~~(b) The SCBA shall be serviced regularly as per manufacturer's recommendations.~~

19 ~~(16) Positive displacement feeders.~~

20 ~~(a) Positive displacement feeders shall be periodically inspected and serviced;~~

21 ~~(b) To minimize sludge accumulation in the unit, the lowest practicable concentration of~~
22 ~~solution shall be used. If liquid chlorine solution is used, the dilution with water is not critical~~
23 ~~to the operation of the unit; and~~

1 ~~(c) Sludge accumulations shall be cleaned periodically from the unit.~~

2 ~~(17) Chlorinated cyanurates. The use of chlorinated cyanurates is prohibited.~~

3 ~~(18) pH adjustment.~~

4 ~~(a) Soda ash or caustic soda may be used to raise the facility water pH;~~

5 ~~(b) Caustic soda shall only be used in accordance with the manufacturer's instructions.~~

6 ~~If caustic soda is intended for use, the cabinet shall be notified in writing. Protective~~
7 ~~equipment and clothing, including rubber gloves and goggles, shall be available for the~~
8 ~~handling and use of this chemical;~~

9 ~~(c) Sodium bisulfate or muriatic acid may be used to lower pool water pH;~~

10 ~~(d) Hydrochloric (muriatic) acid may only be used with proper supervision and care.~~

11 ~~Protective equipment and clothing, including rubber gloves and goggles, shall be available~~
12 ~~for handling this chemical; and~~

13 ~~(e) The cabinet shall be consulted in the event of unusual pH problems including~~
14 ~~corrosion or scaling or wide fluctuations in pH.~~

15 ~~(19) Algae control.~~

16 ~~(a) The development of algae shall be eliminated by superchlorinating. The facility shall~~
17 ~~not be open for use during this treatment. If superchlorination fails to eliminate the algae,~~
18 ~~the cabinet shall be consulted for further advice.~~

19 ~~(b) Treated algae which cling to the bottom and sides of the facility shall be brushed~~
20 ~~loose, and removed by the suction cleaner and filtration system.~~

21 ~~(20) Miscellaneous chemicals.~~

22 ~~(a) Chemicals other than disinfectants shall be used only with the advice and under the~~
23 ~~supervision of the cabinet;~~

1 ~~(b) Chemicals shall be kept covered and stored in the original container, away from~~
2 ~~flammables and heat and in a clean, dry, and well-ventilated place which prevents~~
3 ~~unauthorized access to the chemicals;~~

4 ~~(c) The chemicals used in controlling the quality of water shall be used only in~~
5 ~~accordance with the manufacturer's instructions; and~~

6 ~~(d) If polyphosphates are used for sequestering iron, the concentration of~~
7 ~~polyphosphates shall not exceed ten (10) p.p.m.~~

8 ~~(21) Equipment rooms.~~

9 ~~(a) Equipment necessary for facility operation shall be housed in a lighted, ventilated~~
10 ~~room which affords protection from the weather, prevents unauthorized access, and is of~~
11 ~~sufficient size for operation and inspection;~~

12 ~~(b) The equipment room floor shall slope toward drains and shall have a nonslip finish;~~

13 ~~(c) A hose bib with a vacuum breaker shall be installed in the equipment room;~~

14 ~~(d) Suitable space, if not provided in the equipment room, shall be provided for storage~~
15 ~~of chemicals, tools, equipment, supplies, and records where they can be acquired by the~~
16 ~~facility operator without leaving the premises. The storage space shall be dry and protected~~
17 ~~from unauthorized access; and~~

18 ~~(e) The equipment room and all other storage areas mentioned above shall be~~
19 ~~maintained in a clean, uncluttered condition, and shall not be used for storage of materials~~
20 ~~not essential to operation and maintenance of the facility.~~

21 ~~(22) Maintenance of bathing beaches.~~

22 ~~(a) Beach areas shall be maintained free of litter and waterborne debris. Beverage~~
23 ~~containers of glass or metal containers with detachable pull tabs shall be prohibited.~~

1 ~~(b) A layer of sand or gravel of sufficient depth to prevent the creation of mud holes or~~
2 ~~slicks and to reduce shallow water turbidity shall be maintained on all beach areas, and~~
3 ~~shall extend beneath the water of all wading and swimming areas; and~~

4 ~~(c) Wading, swimming, and diving areas shall be examined by the facility operator on a~~
5 ~~routine basis, and immediately after high water conditions for floating or sunken debris, and~~
6 ~~obstructions at diving areas and high water turbidity which may present safety hazards to~~
7 ~~bathers.~~

8 ~~Section 12. Facility Records. (1) The operator of each facility shall keep a daily record~~
9 ~~of information regarding operation including disinfectant residuals, pH, maintenance~~
10 ~~procedures, and recirculation, together with other data as may be required on form DFS-~~
11 ~~352 – Swimming Pool Log Sheet furnished by the cabinet. This data shall be kept on file by~~
12 ~~the operator and submitted to the cabinet as requested. Proper operating records, which~~
13 ~~include the following shall be kept showing daily or weekly results as applicable:~~

14 ~~(a) Disinfectant residuals;~~

15 ~~(b) pH readings, total alkalinity, cyanuric acid level (if applicable); and~~

16 ~~(c) Malfunctioning of equipment.~~

17 ~~(2) If two (2) or more facilities are operated on the same site, separate records shall be~~
18 ~~maintained for each facility.~~

19 ~~Section 13. Personnel. (1) Operator. A facility operator shall be responsible for the~~
20 ~~operation and maintenance of all swimming and bathing facilities. The operator shall be~~
21 ~~available at all times when the facility is open for use.~~

22 ~~(2) Lifeguards.~~

1 ~~(a) A lifeguard or Lifeguards shall be provided at all facilities, regardless of square~~
2 ~~footage which allow bathers sixteen (16) years of age or under to enter the facility area~~
3 ~~without a responsible person seventeen (17) years of age or older present~~

4 ~~(b) All facilities which do not provide a lifeguard must post and enforce the following~~
5 ~~rule: "No person may enter the facility area alone or swim alone."~~

6 ~~(c) If lifeguards are required, lifeguards shall comply with the following:~~

7 ~~1. Lifeguards shall have a current lifesaving certificate. Current training as a lifesaver~~
8 ~~or water safety instructor by the American Red Cross , YMCA, or equivalent shall satisfy~~
9 ~~this requirement. The certificate of competency shall be prominently posted;~~

10 ~~2. More than one (1) lifeguard shall be on duty at large facilities or facilities with a large~~
11 ~~number of bathers. Lifeguards shall be provided at a ratio of one (1) per 200 bathers or one~~
12 ~~(1) per 2,000 square feet of water surface area, whichever is less;~~

13 ~~3. Lifeguards shall be dressed in swimming attire; and~~

14 ~~4. Lifeguards assigned to the supervision of the facility shall not be subject to duties~~
15 ~~that would distract their attention from proper observation of persons in the facility area, or~~
16 ~~that would prevent immediate assistance to persons in distress in the water.~~

17 ~~Section 14. Safety Equipment. (1) Facilities other than beaches having an area of more~~
18 ~~than 2,000 square feet of water surface area shall be provided with an elevated lifeguard~~
19 ~~chair. An additional lifeguard chair shall be provided for each additional 2,000 square feet~~
20 ~~of water surface area or major fraction more than half thereof. They shall be located to~~
21 ~~provide a clear view of the facility bottom in the area under surveillance.~~

22 ~~(2) Beaches shall be provided with an elevated lifeguard chair for each 100 linear feet~~
23 ~~of beach front, with an additional lifeguard chair for each additional 100 linear feet of beach~~

1 ~~front or fraction thereof. The chairs shall be located on the beach to provide a clear view of~~
2 ~~all areas under surveillance and to provide the quickest response time.~~

3 ~~(3) The following lifesaving equipment shall be provided:~~

4 ~~(a) A U.S. Coast Guard approved ring buoy not more than fifteen (15) inches in diameter~~
5 ~~to which shall be attached a three-sixteenths (3/16) inch rope of length one and one-half (1~~
6 ~~1/2) times the maximum pool width;~~

7 ~~(b) A life pole or shepherd's crook type of pole having blunted ends with a minimum~~
8 ~~length of twelve (12) feet; and~~

9 ~~(c) One (1) plywood backboard with straps, made to the specifications of the American~~
10 ~~Red Cross for back and neck injuries.~~

11 ~~(4) The equipment listed in subsection (3) of this section shall be considered as one (1)~~
12 ~~unit (except paragraph (c)) and shall be considered as adequate for 2,000 square feet of~~
13 ~~facility water surface area. An additional unit shall be provided for each additional 2,000~~
14 ~~square feet or major fraction thereof.~~

15 ~~(5) Facilities limited to small spas, of less than 144 square feet of water surface area,~~
16 ~~shall not be required to provide the equipment listed in subsection (3) of this section, but~~
17 ~~shall meet the requirements of subsections (7), (10), and (11) of this section.~~

18 ~~(6) Bathing beach facilities shall provide the following lifesaving equipment in addition~~
19 ~~to that listed in subsection (3) of this section:~~

20 ~~(a) Paddle board or surfboard;~~

21 ~~(b) At least one (1) lifeboat, containing one (1) unit of lifesaving equipment and outfitted~~
22 ~~to meet state water safety administrative regulations; and~~

23 ~~(c) A torpedo shaped buoy.~~

1 ~~(7) All facilities shall be equipped with a minimum of one (1) standard twenty-four (24)~~
2 ~~unit first aid kit or its equivalent, which shall be kept filled and ready for use. Additional units~~
3 ~~shall be provided for each additional 2,000 square feet of facility area or major fraction~~
4 ~~thereof.~~

5 ~~(8) Lifesaving equipment shall be mounted in conspicuous places at lifeguard chairs or~~
6 ~~other readily accessible locations. Its function shall be plainly marked, and this equipment~~
7 ~~shall be kept in repair and ready condition. Bathers or other persons shall not be permitted~~
8 ~~to tamper with, use for any purpose other than its intended use, or remove such equipment~~
9 ~~from its established location. This equipment at beaches shall be located at each lifeguard~~
10 ~~chair, with the lifeboat mentioned in subsection (6)(b) of this section being located at the~~
11 ~~most centrally stationed lifeguard chair.~~

12 ~~(9) The hydrojet auxiliary air or water pump for a spa shall be controlled by an on-off~~
13 ~~switch with a fifteen (15) minute timer located and labeled at least five (5) feet away from~~
14 ~~the spa.~~

15 ~~(10) All facilities shall have a nonpay telephone on the premises which is readily~~
16 ~~accessible and conspicuously located; for isolated facilities two (2) way radio~~
17 ~~communication systems to a manned telephone system may be substituted. The telephone~~
18 ~~number of a police, fire department, emergency medical service, or a hospital shall be~~
19 ~~posted in a conspicuous place near the telephone.~~

20 ~~(11) All drownings and injuries requiring hospitalization shall be immediately reported~~
21 ~~to the cabinet.~~

22 ~~Section 15. Spectator and Bather Administrative Regulations. (1) Rules governing the~~
23 ~~use of the facility and instructions to bathers shall be displayed on placards at the entrance~~

1 ~~to dressing rooms and shall be enforced by the facility operator. Posting of rules and other~~
2 ~~instructions shall provide that:~~

3 ~~(a) Admission to the facility is refused to all persons having any contagious disease,~~
4 ~~infectious conditions as colds, fever, ringworm, foot infections, skin lesions, carbuncles,~~
5 ~~boils, inflamed eyes, ear discharges, or any other condition which has the appearance of~~
6 ~~being infectious. Persons with excessive sunburn, abrasions which have not healed, corn~~
7 ~~plasters, bunion pads, adhesive tape, rubber bandages, or other bandages of any kind are~~
8 ~~not permitted. A person under the influence of alcohol or exhibiting erratic behavior shall~~
9 ~~not be permitted in the facility area;~~

10 ~~(b) No food, drink, gum, tobacco will be allowed in other than specially designated and~~
11 ~~controlled sections of the facility area;~~

12 ~~(c) Personal conduct within the facility shall assure that the safety of self and others is~~
13 ~~not jeopardized. No running and no boisterous or rough play (except supervised water~~
14 ~~sports) are permitted;~~

15 ~~(d) People in street shoes and other spectators are not allowed in the facility, on the~~
16 ~~deck, and in the "wet" areas of the bathhouse, except those engaged in official duties;~~

17 ~~(e) Spitting, spouting of water, blowing the nose, or otherwise introducing contaminants~~
18 ~~into the facility water is not permitted;~~

19 ~~(f) Glass, soap, or other material which might create hazardous conditions or interfere~~
20 ~~with efficient operation of the facility shall not be permitted in the facility or on the deck;~~

21 ~~(g) All apparel worn in the facility shall be clean;~~

22 ~~(h) Diving in shallow water is not permitted;~~

23 ~~(i) Caution shall be exercised in the use of diving boards; and~~

1 ~~(4) A sign shall be posted in the immediate vicinity of the spa stating the location of the~~
2 ~~nearest telephone and indicating that emergency telephone numbers are posted at that~~
3 ~~location.~~

4 ~~Section 16. Swimming Suits and Towels Furnished by Management. All swimming~~
5 ~~suits and towels used by swimmers and maintained for public use shall be cleaned after~~
6 ~~each use. These items shall be handled in a sanitary manner.~~

7 ~~Section 17. Facility Inspection. (1) Seasonal facilities.~~

8 ~~(a) All owners or operators of seasonal facilities, prior to opening to the public, shall~~
9 ~~certify to the cabinet, in writing, that the facility is in compliance with the requirements of~~
10 ~~this administrative regulation except in instances where the cabinet has made an inspection~~
11 ~~prior to its opening. For seasonal facilities, the cabinet shall make at least two (2) full facility~~
12 ~~inspections during the operating season. The cabinet, at its discretion, may require one (1)~~
13 ~~of the full facility inspections to be performed prior to a facility's opening; and~~

14 ~~(b) The facility owner or operator shall be responsible for notifying the cabinet of the~~
15 ~~proposed opening date.~~

16 ~~(2) Continuous operation (indoor) facilities shall receive a full facility inspection by the~~
17 ~~cabinet at least once each six (6) months.~~

18 ~~(3) New facilities shall receive final construction approval inspections by the cabinet,~~
19 ~~and other affected state and local regulatory agencies, prior to placing the facility in~~
20 ~~operation. It shall be the owner or operator's responsibility to notify the cabinet and other~~
21 ~~involved agencies of construction completion and call for inspection.~~

1 ~~(4) Facilities other than beaches shall be inspected at a minimum of once each thirty~~
2 ~~(30) day period by the cabinet on a monitoring basis. The monitoring inspection shall~~
3 ~~consist of the following:~~

4 ~~(a) Disinfectant residual testing (free available residual) and combined disinfectant in~~
5 ~~p.p.m.;~~

6 ~~(b) pH testing;~~

7 ~~(c) Total alkalinity testing;~~

8 ~~(d) Cyanuric acid testing (if cyanuric acid stabilizers are used);~~

9 ~~(e) Turbidity assessment;~~

10 ~~(f) Temperature testing (if heated water facility);~~

11 ~~(g) Review of operator's daily log;~~

12 ~~(h) Visual scanning for algae or debris; and~~

13 ~~(i) Other checks as necessary.~~

14 ~~(5) Beaches shall receive monitoring inspections once each month or anytime~~
15 ~~immediately after periods of heavy rainfall. Monitoring inspections for beaches shall include~~
16 ~~general sanitation and safety checks as necessary.~~

17 ~~(6) The cabinet may make as many additional inspections and reinspections as are~~
18 ~~necessary for the enforcement of this administrative regulation.~~

19 ~~(7) If an agent of the cabinet makes an inspection of a public swimming and bathing~~
20 ~~facility, he shall record his findings on an official cabinet inspection report form DFS-349--~~
21 ~~Public Swimming and Bathing Facilities Inspection or DFS-350 -- Public Swimming and~~
22 ~~Bathing Facilities Beach Inspection Report and provide the facility owner or the operator~~
23 ~~with a copy. The inspection report shall:~~

1 ~~(a) Set forth any violation(s) if found;~~

2 ~~(b) Establish a specific and reasonable period of time for the correction of the~~
3 ~~violation(s) found; and~~

4 ~~(c) State that failure to comply with any notice issued pursuant to the provisions of this~~
5 ~~administrative regulation may result in closure of the facility.~~

6 ~~Section 18. Water Sampling and Testing. (1) A water sample may be collected from~~
7 ~~facilities if inspections or monitoring indicates water quality standards are not being~~
8 ~~maintained, or there is a suspected water borne disease outbreak, and shall be submitted~~
9 ~~to the Health Services Laboratory or other laboratory licensed by the Natural Resources~~
10 ~~and Environmental Protection Cabinet for analysis. Samples shall be collected in approved~~
11 ~~containers and by approved sampling procedures.~~

12 ~~(2) Samples shall be collected and analyzed for any of the following or other~~
13 ~~contaminants:~~

14 ~~(a) Total coliform;~~

15 ~~(b) Fecal coliform; and~~

16 ~~(c) Pseudomonad organisms.~~

17 ~~(3) Multiple samples may be collected at bathing beaches to assure adequate~~
18 ~~representation of the entire facility water area.~~

19 ~~(4) Need for additional samples at other times shall be triggered by the results of~~
20 ~~monitoring inspections, reported disease outbreaks associated with the facility, or failure of~~
21 ~~previous samples to meet the standards outlined in Sections 5 and 19 of this administrative~~
22 ~~regulation. If a sample shows a positive test for contaminants as specified in subsection~~

1 ~~(2)(a), (b), and (c) of this section, the sample shall be repeated within one (1) to seven (7)~~
2 ~~days.~~

3 ~~Section 19. Bacteriological Quality of Facility Water. (1) For facilities other than bathing~~
4 ~~beaches, no more than two (2) consecutive samples shall contain either:~~

5 ~~(a) More than 200 bacteria per milliliter, as determined by the standard (thirty-five (35)~~
6 ~~degrees Centigrade) agar plate count;~~

7 ~~(b) Show a positive test (confirmed test) for coliform organisms in any of the five (5) ten~~
8 ~~(10) milliliter portions of a sample or more than two (2.0) coliform organism per 100 ml when~~
9 ~~the membrane filter test is used;~~

10 ~~(c) Show a positive test (confirmed test) for pseudomonas organisms; or~~

11 ~~(d) Show a positive test for fecal coliform organisms.~~

12 ~~(2) Bathing beaches shall comply with the standards set forth in Section 5(3)(a) of this~~
13 ~~administrative regulation.~~

14 ~~Section 20. Conditions requiring Closure of a Facility and Enforcement Provisions. (1)~~
15 ~~If the cabinet finds any of the following conditions, it may immediately order by written notice~~
16 ~~the owner or operator to close the facility and to prohibit any person from using the facility:~~

17 ~~(a) If conditions at a facility and appurtenances, including bathhouse facilities, upon~~
18 ~~inspection and investigation by a representative of the cabinet, create an immediate danger~~
19 ~~to health or safety;~~

20 ~~(b) If the cabinet upon review of results of bacteriological analyses of water samples~~
21 ~~collected from a facility, finds that the water does not conform to the bacteriological~~
22 ~~standards promulgated by the cabinet for proper swimming and bathing water quality;~~

1 ~~(c) If an environmental survey of an area shows evidence of sewage or other pollutional~~
2 ~~or toxic materials being discharged to waters tributary to a beach creating an immediate~~
3 ~~danger to health or safety;~~

4 ~~(d) If Turbidity levels of facility water do not meet the requirements of Section 10(4) of~~
5 ~~this administrative regulation;~~

6 ~~(e) If in such cases as it is required, the presence of a satisfactory disinfectant residual,~~
7 ~~prescribed by the cabinet is absent;~~

8 ~~(f) In any instance where the owner, operator, or any other employee or representative~~
9 ~~of the owner interferes with duly authorized agents of the cabinet, bearing proper~~
10 ~~identification, in the performance of their duties;~~

11 ~~(g) If recirculation system(s), filtration system(s), or disinfectant system(s) are not in~~
12 ~~operation (with exceptions for maintenance, and seasonal shut down); or~~

13 ~~(h) If serious or repeated violations of any of the requirements of the administrative~~
14 ~~regulations are found.~~

15 ~~(2) The notice shall state the reasons prompting the closing of the facility and a copy of~~
16 ~~the notice shall be posted conspicuously at the facility by the owner or operator.~~

17 ~~(3) Any owner or operator affected by an order is entitled, upon written request on form~~
18 ~~DFS-212 - Request for Hearing to the cabinet, to a hearing in accordance with 902 KAR~~
19 ~~1:400.~~

20 ~~(4) If the conditions are abated or if the results of analyses of water samples collected~~
21 ~~from the facility, in the opinion of the cabinet, comply with the cabinet's bacteriological~~
22 ~~standards for acceptable water quality, or if the turbidity decreases to the permissible limit,~~
23 ~~or if the disinfectant residual reaches a satisfactory level as prescribed by administrative~~

1 ~~regulation, the cabinet may authorize reopening the facility. If sources of sewage, pollution,~~
2 ~~or toxic materials discovered as a result of an environmental survey are eliminated the~~
3 ~~cabinet may authorize reopening of such beach.~~

4 ~~(5) In all other instances of violation of the provisions of this administrative regulation,~~
5 ~~including nonpayment of fees, the cabinet shall serve upon the owner or operator a written~~
6 ~~notice specifying the violation(s) in question and afford a reasonable opportunity to correct~~
7 ~~same. If an owner or operator has failed to comply with any written notice issued under the~~
8 ~~provisions of this administrative regulation, the owner or operator shall be notified in writing~~
9 ~~that the facility shall be closed at the end of ten (10) days following service of such notice,~~
10 ~~unless a written request for a hearing is filed with the cabinet, by the owner or operator,~~
11 ~~within such ten (10) day period.~~

12 ~~(6) All administrative hearings shall be conducted in accordance with 902 KAR 1:400.~~

13 ~~(7) Any person whose facility has been closed may, at any time make application for a~~
14 ~~reinspection on form DFS-215 -- Application for Reinstatement of Suspended Permits for~~
15 ~~the purpose of reopening the facility. Within ten (10) days following receipt of a written~~
16 ~~request, including a statement signed by the applicant that in his opinion the conditions~~
17 ~~causing closure of the facility have been corrected, the cabinet shall make a reinspection.~~
18 ~~If the facility is found to be in compliance with the requirements of this administrative~~
19 ~~regulation, the facility shall be reopened.~~

20 ~~(8) For serious or repeated violations of any of the requirements of this administrative~~
21 ~~regulation or for interference with the agents of the cabinet in the performance of their~~
22 ~~duties, the facility may be permanently closed after an opportunity for a hearing has been~~
23 ~~provided in accordance with 902 KAR 1:400. Prior to the action, the cabinet shall notify the~~

1 owner or operator, in writing, stating the reasons for which the facility is subject to closure
2 and advising that the facility shall be permanently closed at the end of ten (10) days
3 following service of the notice unless a request for a hearing is filed with the cabinet by the
4 owner or operator, within such ten (10) day period.

5 Section 21. Existing Facilities and Equipment. (1) Notwithstanding the other provisions
6 of this administrative regulation, existing facilities and equipment being used prior to the
7 effective date of this administrative regulation, which do not fully meet the design,
8 construction, and materials requirements of this administrative regulation, may be
9 continued in use, if in good repair, capable of being maintained in a sanitary condition, meet
10 facility water quality standards, and create no health or safety hazard.

11 (2) If existing equipment, components, piping, or fittings involved in the facility water
12 treatment system are replaced to effect repairs, the replacement equipment, components,
13 piping, or fittings shall meet the requirements of this administrative regulation. If
14 replacement occurs, it shall be the owner's or operator's responsibility to notify the cabinet
15 as to what was replaced and what was used for a replacement.

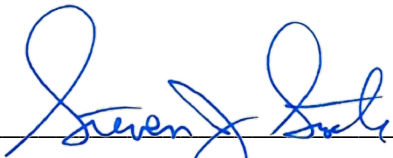
16 Section 22. Effect on Local Administrative Regulations. Compliance with this
17 administrative regulation does not relieve any person from compliance with any other state
18 or local laws, dealing with pool operation and maintenance matters, or zoning requirements
19 which may also be applicable.

20 Section 23. Variances. (1) All facilities shall be constructed or remodeled in compliance
21 with the provisions of these administrative regulations, except that an applicant may request
22 and the cabinet may grant a variance in those cases where it is determined that the
23 variance would not affect seriously the safe and healthful operation of the facility.

1 ~~(2) Before granting a variance, the cabinet shall require adequate proof from the~~
2 ~~applicant that the requested variance will comply with the basic intent of these~~
3 ~~administrative regulations and that no safety or health hazard would be created if the~~
4 ~~variance is granted.]~~


902 KAR 10:120

REVIEWED:

 6/23/2021

Steven J. Stack, MD, MBA Date
Commissioner, Department for Public Health

APPROVED:

DocuSigned by:
 6/23/2021
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Eric C. Friedlander Date
Secretary, Cabinet for Health and Family Services

PUBLIC HEARING AND PUBLIC COMMENT PERIOD:

A public hearing on this administrative regulation shall, if requested, be held on September 27, 2021, at 9:00 a.m. using the CHFS Office of Legislative and Regulatory Affairs Zoom meeting room. The Zoom invitation will be emailed to each requestor the week prior to the scheduled hearing. Individuals interested in attending this virtual hearing shall notify this agency in writing by September 20, 2021, five (5) workdays prior to the hearing, of their intent to attend. If no notification of intent to attend the hearing is received by that date, the hearing may be canceled. This hearing is open to the public. Any person who attends virtually will be given an opportunity to comment on the proposed administrative regulation. A transcript of the public hearing will not be made unless a written request for a transcript is made. If you do not wish to be heard at the public hearing, you may submit written comments on this proposed administrative regulation until September 27, 2021. Send written notification of intent to attend the public hearing or written comments on the proposed administrative regulation to the contact person. Pursuant to KRS 13A.280(8), copies of the statement of consideration and, if applicable, the amended after comments version of the administrative regulation shall be made available upon request.

CONTACT PERSON: Krista Quarles, Policy Analyst, Office of Legislative and Regulatory Affairs, 275 East Main Street 5 W-A, Frankfort, KY 40621; Phone: 502-564-6746; Fax: 502-564-7091; CHFSregs@ky.gov.

REGULATORY IMPACT ANALYSIS AND TIERING STATEMENT

Administrative Regulation: 902 KAR 10:120

Agency Contact: Julie Brooks, (502) 564-3970, julied.brooks@ky.gov or Krista Quarles, (502) 564-6746, CHFSregs@ky.gov

(1) Provide a brief summary of:

(a) What this administrative regulation does: This administrative regulation establishes uniform standards for public swimming pools and bathing facilities.

(b) The necessity of this administrative regulation: This administrative regulation is necessary to ensure all public swimming and bathing facilities operate in a safe and sanitary manner to reduce the incidence of recreational water related illnesses and outbreaks, and reduce pool chemical-associated health events.

According to the Centers for Disease Control and Prevention (CDC):

“Water-based physical activity, such as swimming, improves physical and mental health throughout life; however, it can put people at risk for recreational water-associated illness and injury. A recreational water illness outbreak is the occurrence of similar illnesses in 2 or more persons, epidemiologically linked by location and time of exposure to recreational water. For 1978–2012, 879 recreational water illness outbreaks have been reported CDC, and the number reported annually has increased significantly in recent years, especially the number of outbreaks associated with treated recreational water venues (e.g., pools and hot tubs/spas) reported annually.

“Pool chemical-associated health events (e.g., respiratory distress or burns) result in approximately 3,000–5,000 ED visits each year, and almost half of the patients are younger than 18 years of age.

“Code enforcement through inspections of public aquatic facilities is an important tool in preventing recreational water-associated illness and injury. An inspection of a public aquatic facility is an assessment of whether its operation and maintenance meet the standards set in the jurisdiction’s public health code. During inspections, environmental health practitioners can serve as illness-and-injury-prevention advisors to pool operators. Immediate closures and violations offer an opportunity to educate operators about how to properly operate and maintain aquatic facilities and why these measures are necessary to prevent repeated violations of given operation or maintenance standards in public aquatic facility codes.”

(c) How this administrative regulation conforms to the content of the authorizing statutes: KRS 194A.050(1) authorizes the secretary of the Cabinet for Health and Family Services to promulgate administrative regulations necessary to protect, develop, and maintain the health, personal dignity, integrity, and sufficiency of Kentucky citizens and to operate programs and fulfill the responsibilities vested in the cabinet. KRS 211.180 authorizes the cabinet to adopt administrative regulations relating to public facilities, public and semipublic recreational areas, and their operation and maintenance in a safe and sanitary manner to protect public health and prevent health hazards.

(d) How this administrative regulation currently assists or will assist in the effective administration of the statutes: This administrative regulation will ensure public swimming and bathing facilities, including beaches, are designed and operated in a safe

and sanitary manner, ensure the water quality standard of these facilities to control for contamination, ensure proper disinfection of water and facilities, and ensure all equipment utilized is fully operational.

(2) If this is an amendment to an existing administrative regulation, provide a brief summary of:

(a) How the amendment will change this existing administrative regulation: The amendment to this administrative regulation:

- Revises the definitions to remove terms not used in the regulation;
- Clarifies the construction plan submission requirements;
- Clarifies that an inspection is required prior to the air pressure testing and covering of the recirculation piping system;
- Adds that the depth of water surrounding an inflatable water feature at a beach where diving is permitted be at least nine and one-half (9 ½) feet deep;
- Clarifies the required turnover rates for public swimming and bathing facilities, and spas;
- Ensures all openings and grates comply with the federal swimming pool and spa drain cover standards;
- Adds the requirement for supplemental ultraviolet light disinfection systems on splash pad with recirculating water systems;
- Clarifies that the use of glass chlorinators for new construction is prohibited, and ensures glass chlorinators, if used on existing facilities, comply with the application Occupational Safety and Health Administration standards for the storage of hazardous chemicals;
- Updates the disinfection standards for pools and spas;
- Clarifies the life and safety requirements including the required number of lifeguards, and required safety equipment;
- Clarifies that a variance request is for construction requirements;
- Incorporates the required daily log to be completed by the facility operator, and the inspection forms; and
- Makes other amendments to comply with KRS 13A drafting rules.

(b) The necessity of the amendment to this administrative regulation: The amendment to this administrative regulation is necessary to ensure those seeking to construct or remodel a public swimming and bathing facility are aware of the plan submission, equipment, and pool design requirements; ensure those operating a public swimming and bathing facility, including a beach, are aware of the most current water quality and disinfection standards, and aware of the life safety equipment requirements.

(c) How the amendment conforms to the content of the authorizing statutes: KRS 194A.050(1) authorizes the secretary of the Cabinet for Health and Family Services to promulgate administrative regulations necessary to protect, develop, and maintain the health, personal dignity, integrity, and sufficiency of Kentucky citizens and to operate programs and fulfill the responsibilities vested in the cabinet. KRS 211.180 authorizes the cabinet to adopt administrative regulations relating to public facilities, public and

semipublic recreational areas, and their operation and maintenance in a safe and sanitary manner to protect public health and prevent health hazards.

(d) How the amendment will assist in the effective administration of the statutes: The amendment to this administrative regulation will ensure those operating a public swimming and bathing facility, including a beach, are aware of the most up to date standards to operate the facility in a safe and sanitary manner.

(3) List the type and number of individuals, businesses, organizations, or state and local governments affected by this administrative regulation: There are currently 2,250 public swimming pools, bathing facilities, and spas, and thirty-three (33) beaches regulated by the department. The department receives approximately 115 requests for plan review each year.

(4) Provide an analysis of how the entities identified in question (3) will be impacted by either the implementation of this administrative regulation, if new, or by the change, if it is an amendment, including:

(a) List the actions that each of the regulated entities identified in questions (3) will have to take to comply with this administrative regulation or amendment: Pool operators and owners will need to be aware of the updated requirements and ensure their facilities are in compliance. Beach operators will need to be aware of the updated requirements and ensure their facilities are in compliance. Anyone seeking to modify an existing facility or build a new facility will need to be aware of the plan submission process and the facility requirements.

(b) In complying with this administrative regulation or amendment, how much will it cost each of the identities identified in question (3): Regulated facilities are already currently required to be in compliance with the water quality standards. There will be no added costs to facilities to be in compliance.

(c) As a result of compliance, what benefits will accrue to the entities identified in question (3): Regulated facilities will reduce the likelihood of experiencing a water borne disease outbreak, which will allow the facility to operate without interruption.

(5) Provide an estimate of how much it will cost the administrative body to implement this administrative regulation:

(a) Initially: This is an ongoing program, there is no additional cost.

(b) On a continuing basis: This is an ongoing program, the costs associated with this administrative regulation will be absorbed by current program funding.

(6) What is the source of the funding to be used for the implementation and enforcement of this administrative regulation: This program is funded by a mix of state general fund dollars and fees collected for plan review and inspection activities.

(7) Provide an assessment of whether an increase in fees or funding will be necessary to implement this administrative regulation, if new or by the change, if it is an amendment: An increase in funding is not needed to implement the amendment to this administrative regulation. The fees associated with these activities are listed in 902 KAR 10:121.

(8) State whether or not this administrative regulation established any fees or directly or indirectly increased any fees. This administrative regulation does not contain fees.

(9) TIERING: Is tiering applied? (Explain why or why not.) Tiering is applied. Smaller swimming and bathing facilities have less requirements for equipment, including life safety equipment. Larger swimming and bathing facilities require more life safety equipment, including an increase in the number of required lifeguards. All facilities, regardless of size, are required to meet the water quality standards of this administrative regulation.

FISCAL NOTE ON STATE OR LOCAL GOVERNMENT

Administrative Regulation: 902 KAR 10:120

Agency Contact: Julie Brooks, (502) 564-3970, julied.brooks@ky.gov or Krista Quarles, (502) 564-6746, CHFSregs@ky.gov

1. What units, parts or divisions of state or local government (including cities, counties, fire departments, or school districts) will be impacted by this administrative regulation? This administrative regulation impacts the Division of Public Health, Protection and Safety, all local health departments, state parks and campgrounds that have a swimming or bathing facility, or beach, and local governments who operate a public swimming or bathing facility, or beach.

2. Identify each state or federal statute or federal regulation that requires or authorizes the action taken by the administrative regulation. KRS 194A.050(1), and 211.180(1).

3. Estimate the effect of this administrative regulation on the expenditures and revenues of a state or local government agency (including cities, counties, fire departments, or school districts) for the first full year the administrative regulation is to be in effect.

(a) How much revenue will this administrative regulation generate for the state or local government (including cities, counties, fire departments, or school districts) for the first year? This administrative regulation does not generate revenue.

(b) How much revenue will this administrative regulation generate for the state or local government (including cities, counties, fire departments, or school districts) for subsequent years? This administrative regulation does not generate revenue.

(c) How much will it cost to administer this program for the first year? The costs associated with this amended administrative regulation will be absorbed by current program costs.

(d) How much will it cost to administer this program for subsequent years? The costs associated with this amended administrative regulation will be absorbed by current program costs.

Note: If specific dollar estimates cannot be determined, provide a brief narrative to explain the fiscal impact of the administrative regulation.

Revenues (+/-):

Expenditures (+/-):

Other Explanation:

FEDERAL MANDATE ANALYSIS COMPARISON

Administrative Regulation: 902 KAR 10:120

Agency Contact: Julie Brooks

Phone Number: (502)564-3970

Email: julied.brooks@ky.gov

1. Federal statute or regulation constituting the federal mandate. 29 C.F.R. 1910.119 Occupational Safety and Health Administration regarding the storage of hazardous materials, and 15 U.S.C. 8003- Federal swimming pool and spa drain cover standards.
2. State compliance standards. KRS 211.180 authorizes the secretary of the Cabinet for Health and Family Services to promulgate administrative regulations for the regulation and control of the matters set out below and shall formulate, promote, establish, and execute policies, plans, and comprehensive programs relating to all matters of public health, including the sanitation of public and semipublic recreational areas.
3. Minimum or uniform standards contained in the federal mandate. 29 C.F.R. 1910.119 contains requirements for preventing or minimizing the consequences of catastrophic releases of toxic, reactive, flammable, or explosive chemicals. These releases may result in toxic, fire or explosion hazards.

The federal swimming pool and spa drain cover standards under 15 U.S.C. 8003 requires that effective December 19, 2007, all pools and spas manufactured, distributed, or entered into commerce in the United States shall conform to the entrapment protection standards of the ASME/ANSI A112.19.8 performance standard; each public pool and spa in the United States shall be equipped with anti-entrapment devices or systems that comply with the ASME/ANSI A112.19.8 performance standard, or any successor standard.

4. Will this administrative regulation impose stricter requirements, or additional or different responsibilities or requirements, than those required by the federal mandate? This administrative regulation does not impose any stricter requirements, or additional or different responsibilities or requirements.
5. Justification for the imposition of the stricter standard, or additional or different responsibilities or requirements. Not applicable.

COMMONWEALTH OF KENTUCKY
CABINET FOR HEALTH AND FAMILY SERVICES
DEPARTMENT FOR PUBLIC HEALTH

902 KAR 10:120

Kentucky public swimming and bathing facilities
Summary of Material Incorporated by Reference

1. "DFS-349, Public Swimming and Bathing Facilities Inspection Form", 5/2021 edition, is used by the local health department inspector when completing an inspection of a public swimming and bathing facility. This is a newly incorporated form. This form has one (1) page.
2. "DFS-350, Public Swimming and Bathing Facilities Beach Inspection Report", 5/2021 edition, is used by the local health department inspection when completing an inspection of a public beach facility. This is a newly incorporated form. This form has one (1) page.
3. "DFS-352, Swimming Pool Log Sheet", 5/2021 edition, is completed by the facility operator to record the water quality of the pool on a daily basis. This form is to be available upon request. This is a newly incorporated form. This form has one (1) page.

The total number of pages incorporated by reference for this administrative regulation is three (3).