

(j) "Wave pool" means a pool designed for generating waves for recreational purposes.

(k) "Whirlpool" means a relatively small pool which uses high temperature water and which may include a water agitation system. A "whirlpool" is sometimes called a spa.

(12) "Preliminary plan review" means a review of plans and specifications that are not intended for final approval action, or an office conference relating to these plans and specifications, with the intent of informing the engineer or architect of code requirements that may involve mathematical or hydraulic computations. Preliminary plan review does not include an office or telephone consultation requesting rule clarification.

(13) "Public swimming pool" means a pool used for one or more purposes described in sub. (11) except for a pool serving fewer than 3 individual residential quarters such as homes or apartments. A public swimming pool includes a pool serving or installed for the state or any political subdivision of the state, including a school district; a pool serving or installed at a motel, hotel, resort, camp, club, association, housing development or school, or a religious, charitable or youth organization; a mobile pool; and a pool at an educational or rehabilitative institution. Included in the meaning of a "public swimming pool" are buildings, equipment and appurtenances, irrespective of whether or not a fee is charged for their use. A public swimming pool does not include a public swimming beach. In this subsection, "beach" means any designated body of water not contained in a pool structure, basin, chamber or tank and used for one or more purposes described in sub. (11), and the shore leading to that body of water.

(14) "Recirculation system" means the pool outlets and inlets and the equipment and piping designed to circulate swimming pool water at a predetermined quantity and velocity in order to treat and purify the water.

(15) "Reconstructed or altered pool" means a pool that requires replacement of or modification to the pool shell, recirculation system and appurtenances so that the pool may continue to be operated free from health or safety hazards. It does not include the replacement of equipment or piping previously approved by the department, provided that the type and size of equipment are not changed, nor does it include normal maintenance or repair.

(16) "Revised submittal" means revised plans or specifications submitted to the department which either show changes in the pool shell or recirculation system design which necessitate additional mathematical or hydraulic computations or such a large number of other changes that, in the opinion of the department, they cannot be dealt with by specification addenda.

(17) "Shallow portion" means the shallow side of the breakpoint or that portion of a pool having a design water depth of 5.5 feet or less.

(18) "Skimmer" means a device installed in a pool wall at the water level which is connected to the recirculation piping and is intended to skim the surface water of a pool.

(19) "Water recreation attraction" means a public bathing or swimming facility with design and operational features that provide patron recreational activity which is different from that associated with a conventional swimming pool and purposefully involves immersion of the body partially or totally in the water.

Note: Examples of water recreation attractions are waterslide plunge pools, lazy river or tubing pools and wave pools.

History: Cr. Register, November, 1989, No. 407, eff. 2-1-89.

**HSS 171.04 Plans and specifications.** (1) **APPROVAL.** (a) Every owner, personally or through his or her engineer or architect, shall submit to the department plans and specifications covering construction, alteration or reconstruction of public swimming pools or installation or alteration of their equipment prior to the start of construction or installation. No deviation from the plans and specifications or conditions of approval may be made without prior approval of the department.

(b) Within 30 days after receiving complete plans and specifications for approval, the department shall either approve the plans and specifications or deny approval of the plans and specifications.

(c) Priority plan review may be requested by the owner or his or her representative. An appointment shall be made with the department for the department to examine the plans in less than the normal processing time. Delivery of the plans for priority review shall be made in person.

(d) Fees for plan review shall be as prescribed in s. 140.051 (3), Stats. The proper fee shall be submitted with the plans and specifications under par. (a).

(2) **PREPARATION.** (a) *Prepared within Wisconsin.* Except as provided in par. (b), plans and specifications for all public swimming pools and their equipment, including adequate supporting design data, shall be prepared by a Wisconsin registered architect or professional engineer and bear that person's seal and signature.

(b) *Prepared outside Wisconsin.* Plans, specifications and calculations prepared by an architect or engineer not registered in Wisconsin shall be reviewed if they are provided in the following form:

1. The plans, specifications and calculations bear the signature and seal or stamp of an architect or engineer registered in a state other than Wisconsin; and

2. The plans, specifications and calculations have attached a certificate dated, signed and sealed or stamped by an architect or engineer registered in Wisconsin which states that the attached plans, specifications and calculations were prepared in a state other than Wisconsin by an architect or professional engineer registered in that state, specifically describes the work performed by the Wisconsin registered architect or engineer in reviewing the plans, states that the design is structurally safe, and states that the plans and specifications comply with this chapter.

(3) **SUBMISSION.** Three identical sets of plans and specifications shall be submitted to the department, 2 of which shall be retained by the department and one returned by the department to the owner.

Note: The plans and specifications should be sent to Bureau of Environmental Health, P.O. Box 309, Madison, WI 53701.

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(4) **DETAILS.** The plans and specifications shall include all of the following:

(a) *General.* On the plans or in a separate report:

1. The name and address of the owner; and
2. The location of the public swimming pool by street address or, if none is available, by quarter-quarter section, section, town, range, township and county.

(b) *Site.* Site information;

(c) *Plot plan.* A general map and detailed drawings showing the floor plan of pertinent portions of the structure, pool orientation, pool surface area and volume. In addition, water supply facilities, public or private sewers and relative elevations of paved or other walkways and the equipment room floor, and the designed pool water level shall be shown in the detailed drawing. When public water and sewer systems are proposed to serve the public swimming pool, the elevations of storm and sanitary sewer inverts and street grade shall be shown;

(d) *Construction plans.* Detailed scaled and dimensional drawings which shall include:

1. A pool layout plan showing longitudinal and transverse cross-sections of the pool through the main drain outlet; location and type of inlets, overflows, pool drains, vacuum fittings, deck drains, drinking fountains, piping, hosebibbs, fences and telephones; design of the deck, the curb or walls enclosing the pool, paved walkways, overflow gutters or devices; and the location and design of ladders, stairs, diving boards and artificial lights;

2. A flow diagram showing the location, plan and elevation of filters, pumps, chemical feeders, ventilation devices, heaters, surge tanks including operating levels, backflow preventers, valves, piping, flow meters, pressure gauges, thermometers, test cocks, sight glasses and the drainage system for disposal of pool and filter washwater; and

3. The location, plan and elevation drawings for any bathhouse facilities provided, including dressing rooms, lockers and basket storage, and showers, toilets and other plumbing fixtures; partitions and devices for routing of swimmers; storage facilities for first-aid and maintenance equipment; floor construction; and means of lighting and ventilation; and

(e) *Specifications.* Complete technical specifications for the construction of the pool and all appurtenances to accompany the drawings under par. (d), including:

1. All construction details not shown on the drawings;
2. Detailed requirements for the type, size, operating characteristics and rating of all mechanical and electrical equipment;
3. Detailed information about plumbing fixtures and piping, when applicable, such as in bathhouses or when floor drains are used as deck drains;

4. The sources of all water supplies, with the total alkalinity, pH and iron and manganese content of the supply indicated on submitted drawings or specifications;
5. Filter media such as diatomaceous earth, sand, gravel or other approved material; and
6. Miscellaneous appurtenances.

(5) CONSTRUCTION SUPERVISION AND CERTIFICATION. (a) *Supervision*. 1. In this paragraph, "supervision" means the performance of an architect's or engineer's service of reasonable on-site observation to determine that the completed construction is in substantial compliance with approved plans and specifications. "Supervision" does not include the supervision of construction by a contractor.

2. Every public swimming pool shall be constructed under the supervision of a Wisconsin registered architect or professional engineer. The architect or engineer shall be responsible for the facility being in substantial conformance with the plans and specifications approved by the department.

3. Before the start of construction, the owner or that person's authorized agent shall designate to the department in writing the name and registration number of the supervising architect or engineer.

4. This supervision is a professional service, as distinguished from supervision of construction by a contractor. No change in plans or specifications which involves any provision of this chapter may be made unless the change is signed, sealed and dated by the architect or engineer under whose supervision the change was made and approved by the department.

(b) *Certification*. On completion of the construction, the supervising architect or engineer shall file a written statement with the department on the form the department provides at the time of approval, certifying that, to the best of his or her knowledge and belief, construction has been performed in substantial compliance with the plans and specifications approved by the department.

History: Cr. Register, November, 1989, No. 407, eff. 2-1-89; correction in (1) (d) made under s. 13.93 (2m) (b) 7, Stats., Register, January, 1990, No. 409.

**HSS 171.05 Location and structural stability of a pool.** (1) **LOCATION**. Each public swimming pool shall be located at a site conducive to good operation, maintenance, safety and freedom from contamination. The site shall have suitable drainage and be separate from sources of harmful environmental factors. Swimming pools may not be located in the regional floodplain of a river, stream or flow-through lake. For areas bounding a landlocked lake, the highest historic water level shall be used.

(2) **GENERAL STRUCTURAL STABILITY**. All pools shall be designed to be structurally sound and shall be constructed of suitable and durable materials which are inert, nontoxic to humans and watertight. All structural material as well as all equipment used in the operation of pools shall be subject to approval by the department. In reviewing materials and equipment for approval, the department may use the National Sanitation Foundation (NSF) standards and lists of approved equipment.

Note: The National Sanitation Foundation's swimming pool equipment standards may be consulted at the Department's Bureau of Environmental Health or at the Secretary of State's Register, January, 1990, No. 409