

**INTERNATIONAL RESIDENTIAL CODE
FOR SWIMMING POOLS, SPAS AND HOT
TUBS 2009 EDITION**



CITY OF
Tulsa
A New Kind of Energy™



October 12, 2011

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October 12, 2011.)

ORDINANCE NO. 22531

AN ORDINANCE AMENDING TITLE 51, TULSA REVISED ORDINANCES, ENTITLED "BUILDING CODE" BY ADDING THERETO CHAPTER FIVE, ENTITLED "RESIDENTIAL SWIMMING POOLS, SPAS AND HOT TUBS," PROVIDING FOR THE REGULATION OF DESIGN AND CONSTRUCTION OF SWIMMING POOLS, SPAS AND HOT TUBS INSTALLED IN OR ON THE LOT OF A ONE OR TWO FAMILY DWELLING; PROVIDING FOR BARRIERS AND RESTRICTED ACCESS TO SWIMMING POOLS, SPAS AND HOT TUBS; PROVIDING FOR ENTRAPMENT PROTECTION, ATMOSPHERIC VACUUM RELIEF SYSTEM INSTALLATION, DUAL DRAIN SEPARATION AND POOL CLEANER FITTINGS RESTRICTIONS; AND ADOPTING STANDARDS APPLICABLE TO SWIMMING POOLS, SPAS AND HOT TUBS INSTALLED IN OR ON THE LOT OF A ONE OR TWO FAMILY DWELLING; PROVIDING FOR SEVERABILITY, THAT THE OPERATIVE DATE OF THIS ORDINANCE SHALL BE XXXXX, 2011; AND DECLARING AN EMERGENCY.

BE IT ORDAINED BY THE CITY OF TULSA:

Section 1. That Title 51, Tulsa Revised Ordinances, be and the same is hereby amended by adopting a new Chapter 5, to read as follows:

CHAPTER 5. RESIDENTIAL SWIMMING POOLS, SPAS AND HOT TUBS

- Section 500. Regulations for Residential Swimming Pools, Spas and Hot Tubs
- Section 501. Swimming Pools
- Section 502. Spas and Hot Tubs
- Section 503. Barrier Requirements
- Section 504. Entrapment Protection for Swimming Pool and Spa Suction Outlets
- Section 505. Atmospheric Vacuum Relief System Required
- Section 506. Pool Cleaner Fittings
- Section 507. Referenced Standards
- Section 508. Violations and Penalty

SECTION 500. REGULATIONS FOR RESIDENTIAL SWIMMING POOLS, SPAS AND HOT TUBS

The provisions of this chapter shall control the design and construction of swimming pools, spas and hot tubs installed in or on the lot of a one- or two-family dwelling.

SECTION 501. SWIMMING POOLS

- A. **In-ground pools.** In-ground pools shall be designed and constructed in conformance with *American National Standards Institute/ National Spa and Pool Institute* (ANSI/NSPI) Standard Reference Number 5-99.
- B. **Above-ground and on-ground pools.** Above-ground and on-ground pools shall be designed and constructed in conformance with *American National Standards Institute/ National Spa and Pool Institute* (ANSI/NSPI) Standard Reference Number 4-99.

SECTION 502. SPAS AND HOT TUBS

- A. **Permanently installed spas and hot tubs.** Permanently installed spas and hot tubs shall be designed and constructed in conformance with *American National Standards Institute/ National Spa and Pool Institute* (ANSI/NSPI) Standard Reference Number 3-99.
- B. **Portable spas and hot tubs.** Portable spas and hot tubs shall be designed and constructed in conformance with *American National Standards Institute/ National Spa and Pool Institute* (ANSI/NSPI) Standard Reference Number 6-99.

SECTION 503. BARRIER REQUIREMENTS

- A. **Application.** These design controls are intended to provide protection against potential drowning and near drowning by restricting access to swimming pools, spas and hot tubs.
- B. **Indoor and Outdoor swimming pool.** An indoor or outdoor swimming pool, including an in-ground, above-ground or on-ground pool, hot tub or spa shall be provided with a barrier, which shall comply with the following:
 - 1. Private swimming pools, hot tubs and spas, containing water more than twenty-four inches (24") in depth shall be completely surrounded by a fence or barrier at least forty-eight inches (48") in height above the finished ground level measured on the side of the barrier away from the pool.
 - 2. The barrier shall have no opening in the barrier through which a spherical object four inches (4") in diameter can pass.
 - 3. Access shall be restricted as follows:
 - a. Gates and doors in such barriers shall be self-closing and self-latching.

- b. Where the self-latching device is less than fifty-four inches (54") above the bottom of the gate, the release mechanism shall be located on the poolside of the gate. Self-closing and self-latching gates shall be maintained such that the gate will positively close and latch when released.
 - c. Hinged doors and gates shall open outward from the pool.
- 4. For above-ground swimming pools where the sides of the pool are used as the barrier, any access ladder or steps shall be removable without tools and secured in an inaccessible position with a latching device not less than fifty-four inches (54") above the ground when the pool is not in use.
- 5. Access gates shall comply with the requirements of Section 503.B, Items 1 through 5, and shall be equipped to accommodate a locking device.
 - a. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device.
 - b. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than fifty-four inches (54") from the bottom of the gate, the release mechanism and openings shall comply with the following:
 - i. The release mechanism shall be located on the pool side of the gate at least three inches (3") below the top of the gate; and
 - ii. The gate and barrier shall have no opening larger than one-half inch (1/2") within eighteen inches (18") of the release mechanism.
- 6. Where a wall of a dwelling serves as part of the barrier, one of the following conditions shall be met:
 - a. The pool shall be equipped with an approved safety pool cover that meets all requirements of *ASTM International*, formerly the *American Society for Testing and Materials* (ASTM) Specifications F 1346-91.
 - b. The pool shall incorporate removable mesh pool fencing that meets *ASTM International*, formerly the *American Society for Testing and Materials* (ASTM) Specifications F 2286 standards in conjunction with a gate that is self-closing and self-latching and can accommodate a key lockable device.
 - c. The residence shall be equipped with exit alarms on those doors providing direct access to the pool.

- d. All doors providing direct access from the home to the swimming pool shall be equipped with a self-closing, self-latching device with a release mechanism placed no lower than fifty-four inches (54") above the floor.
- e. Swimming pool alarms shall be placed in pools, which will sound upon detection of accidental or unauthorized entrance into the water. These alarms shall meet and be independently certified to the *American Society for Testing and Materials (ASTM) Standard F 2208 "Standard Specification for Pool Alarms,"* which includes surfaced motion, pressure, sonar, laser, and infrared type alarms.
- f. Other means of protection, may be substituted if the degree of protection afforded is equal to or greater than that afforded by any of the devices set forth above, and have been independently verified by an approved testing laboratory as meeting standards for those devices established by the *ASTM International*, formerly the *American Society for Testing and Materials (ASTM)* or the *American Society of Mechanical Engineers (ASME)*, or as approved by the Building, Housing and Fire Prevention Appeals Board.

Exception: Spas or hot tubs with a safety cover, which complies with *ASTM International*, formerly the *American Society for Testing and Materials (ASTM) F 1346-91*, as listed in Section 107, shall be exempt from these provisions.

SECTION 504. Entrapment Protection For Swimming Pool And Spa Suction Outlets.

- A. **General.** Suction outlets shall be designed to produce circulation throughout the pool or spa. Single-outlet systems, such as automatic vacuum cleaner systems, or multiple suction outlets, whether isolated by valves or otherwise, shall be protected against user entrapment.
- B. **Suction fittings.** Pool and spa suction outlets shall have a cover that conforms to *American National Standards Institute/ National Spa and Pool Institute (ANSI/NSPI) Standard Reference Number A112.19.8-2007*, entitled *Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tub*s, or an eighteen inch (18") by twenty-three inch (23") (18" x 23") drain grate or larger, or an approved channel drain system.

Exception: Surface pool skimmers do not have to conform to ANSI/NSPI Standard.

SECTION 505. ATMOSPHERIC VACUUM RELIEF SYSTEM REQUIRED

Pool and spa single- or multiple-outlet circulation systems shall be equipped with atmospheric vacuum relief with a manual release button. The vacuum relief system shall include at least one approved or engineered method of the type specified as follows:

- A. Safety vacuum release system conforming to *American Society of Mechanical Engineers (ASME) Standard Reference Number A112.19.17*, entitled *Manufacturers Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub*

- and Wading Pool; or*
- B. A Gravity Drainage circulation system which is designed by an Engineer licensed in the State of Oklahoma.

SECTION 506. DUAL DRAIN SEPARATION

Single or multiple pump circulation systems shall have a minimum of two suction outlets of the approved type. A minimum horizontal or vertical distance of three feet (3') shall separate the outlets. These suction outlets shall be piped so that water is drawn through them simultaneously through a vacuum-relief-protected line to the pump or pumps.

SECTION 507. POOL CLEANER FITTINGS

Where provided, vacuum or pressure cleaner fitting(s) shall be located in an accessible position(s) at least six inches (6") and not more than twelve inches (12") below the minimum operational water level or as an attachment to the skimmer(s).

SECTION 508. REFERENCED STANDARDS

Within this Chapter, the following standards are specifically referred to, adopted and made a part of this chapter, as if fully set out, with amendments thereto, to read as follows:

ANSI	American National Standards Institute 11 West 42nd Street New York, NY 10036
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NSPI	National Spa and Pool Institute 2111 Eisenhower Avenue Alexandria, VA 22314
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ANSI/NSPI Standard reference number	Title
3-99	Standard for Permanently Installed Residential Spas
4-99	Standard for Above-ground/On-ground Residential Swimming Pools
5-99	Standard for Residential In-ground Swimming Pools AG103.1
6-99	Standard for Residential Portable Spas
5-2003	Standard for Residential In-ground Swimming Pools
A112.19.8-2007	Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs

ASTM	ASTM International Formerly the American Society for Testing and Materials 100 Barr Harbor Drive West Conshohocken, PA 19428
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ASTM Standard reference number	Title
F 1346-91 (2003)	Performance Specification for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs

ASME

American Society of Mechanical Engineers
Three Park Avenue
New York, NY 10016-5990

ASME
Standard
reference number Title


A112.19.17 Manufacturers Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub and Wading Pool

Section 2. SEVERABILITY CLAUSE. If any section, sentence, clause or phrase of this ordinance or any part thereof is for any reason found to be invalid by a court of competent jurisdiction, such decision shall not affect the validity of the remainder of this ordinance or any part thereof.

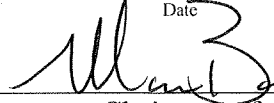
Section 3. OPERATIVE CLAUSE. Following passage of this ordinance by the City Council, with separate approval of its Emergency Clause; approval by the Mayor; and publication, this ordinance shall be operative on and after XXXXX, .

Section 4. EMERGENCY CLAUSE. That an emergency is now declared to exist for the preservation of the public peace, health and safety, by reason whereof this ordinance shall take effect immediately from and after its passage, approval and publication.

ADOPTED by the Council: SEP 29 2011

Date

Chairman of the Council

ADOPTED as an emergency measure: SEP 29 2011

Date

Chairman of the Council

CITY CLERK
RECEIVED
SEP 29 2011
CITY OF CHICAGO

OFFICE OF THE MAYOR

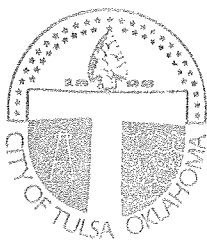
Received by the Mayor: _____, at _____.
Date Time

Dewey F. Bartlett, Jr., Mayor

By _____
Secretary

APPROVED by the Mayor of the City of Tulsa, Oklahoma: OCT 05 2011,
Date

at _____.
Time



Dewey F. Bartlett, Jr.
Mayor

(Seal)
ATTEST:

Kim Bennett
City Clerk **DEPUTY**

APPROVED AS TO FORM AND LEGALITY:

City Attorney