



**SOUTHERN NEVADA
PROPOSED AMENDMENTS**

TO THE

**2012 INTERNATIONAL SWIMMING POOL
AND SPA CODE**

**POOL CODE COMMITTEE
SEPTEMBER 04, 2012**

PREFACE

This document was developed by the Southern Nevada Building Officials' Pool Code Committee and presents recommended amendments to the 2012 International Swimming Pool and Spa *Code* (ISPSC) as published by the International Code Council (ICC).

Participation in the 2012 Pool Code Committee was open to all interested parties. However, voting on amendment proposals was limited to one vote each for the seven Southern Nevada municipalities (Clark County, Henderson, Las Vegas, North Las Vegas, Boulder City, Pahrump, and Mesquite), the Clark County School District, and three industry representatives. All Pool Code Committee proceedings were conducted in accordance with Robert's Rules of Order.

The recommended amendments contained herein are not code unless adopted and codified by governmental jurisdictions. These amendments are not intended to prevent the use of any material or method of construction not specifically prescribed herein, provided any alternates have been approved and their use authorized by the Building Official. This document may be copied and used in whole or in part without permission or approval from the organizations listed on the cover page.

2012 Tracking List of Proposed Amendments

No.	Chapters	Issue	Proposed by	Status/Notes
1	chap. 1	Delete Chapter 1	Wesley Walters	approved
2	chap. 2	New Definition, water Feature	Wesley Walters	approved
3	chap. 2	Def. Manufactured pool or spa	Wesley Walters	approved
4	304	Flood Hazard	Wesley Walters	approved
5	305	Pool Barriers	Wesley Walters	approved
6	307	Design of Pools and Spas	Wesley Walters	approved
7	308	Dimensional Design	Wesley Walters	approved
9	313.4	Clearance to Equipment	Wesley Walters	approved
10	321.4	Lighting	Wesley Walters	approved
11	323.1.1	Handholds	Wesley Walters	approved
12	324	wind sensors	Wesley Walters	approved
13	325	Access to Features	Wesley Walters	approved
14	def	Aquatic vessel	Renee Gibbs	approved
15	313.7	emergency shut off switches	Wesley Walters	approved
16	320.1	waste water disposal	Wesley Walters	approved
19	202	unblockable outlet	Scott Simons	approved
20	302.7	tests	Scott Simons	approved
27	307.7	colors and finishes	Scott Simons	approved
28	311.2.2	servicing	Scott Simons	approved
29	315.5	equalizers	Scott Simons	approved
30	326	site work	Scott Simons	approved
31	401.1	public pools	Scott Simons	approved
32	307.5	freeze protection	Jo Perez	approved
35	307.4.2	Structural/ Grading	Structural/Grading Committee	approved

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 1

COMMITTEE: ISPSC

CODE SECTION: chapter 1

PROPONENT: Wesley Walters

PROPOSAL:

Delete Chapter 1 in its entirety except Section 101. Revise Sections 101.1 and 101.2

REVISE AS FOLLOWS:

101.1 Title

Section R101.1 is amended to read as follows:

101.1 Title These provisions shall be known as the International Swimming Pool and Spa Code of the City of Las Vegas, City of North Las Vegas, City of Henderson, City of Boulder City, Pahrump Regional Planning District and Clark County, hereinafter referred to as “this code”.

101.2 Scope

Section 101.2 is amended to read as follows:

The provisions of this code apply to the construction, alteration, movement, renovation, replacement, repair and maintenance or use of aquatic vessels. Where this code refers to codes not adopted by the jurisdiction, the applicable code adopted by the jurisdiction shall govern.

JUSTIFICATION:

This is consistent with all other codes being adopted to limit administration of the code to the jurisdiction.

COST IMPACT: No cost impact

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Not present		Yes	Yes		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concur

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 2

COMMITTEE: ISPSC

CODE SECTION: Chapter 2

PROPONENT: Wesley Walters

PROPOSAL: Add a new definition to Chapter 2

REVISE AS FOLLOWS:

MANMADE DECORATIVE WATER FEATURE: Any manmade stream, fountain, waterfall, or other water feature that does not meet the definition of an aquatic vessel and contains water that flows or that is sprayed into the air, constructed for decorative, scenic or landscape purposes. Any manmade decorative water feature greater than 18 inches (457 mm) of maximum water depth shall meet the requirements of a swimming pool as specified in Chapters 3 through 10.

Exceptions: The following bodies of water shall be exempt from these requirements:

(A) Manmade lakes as defined in local ordinance or administrative code.

(B) Aquatic vessels regulated by this document or administrative code.

(C) Water feature not greater than 18 inches (457 mm) of maximum water level, used in conjunction with and on the same property as a single-family residence, and available only to the family of the householder or their private guests.

JUSTIFICATION: The 2012 code does not define water features, this provides for local conditions for items not covered by the code to become regulated by the code. We have many of these types of items and need a definition to maintain control and direction of how they are to be maintained.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concur

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 3

COMMITTEE: ISPSC

CODE SECTION: Def manufactured pool or spa

PROPONENT: Wesley Walters

PROPOSAL: **Add a new definition to Chapter 2**

REVISE AS FOLLOWS:

MANUFACTURED POOL OR SPA. A listed pool, spa or water feature that is manufactured or constructed at another location, transported to the property, and placed and/or assembled at the property.

JUSTIFICATION: The current code has no definition or requirements for “fiberglass” pools and spas, so to incorporate their requirements within the code you start with the defining what the product is. This is a copy from the 2009 code. The current code does not define manufactured pool or spa, and this provides for local conditions for items not covered by the code to become part of the code.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concurs

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 4

COMMITTEE: ISPSC

CODE SECTION: Section 304

PROPONENT: Wesley Walters

PROPOSAL: Delete Section 304 in its entirety

REVISE AS FOLLOWS:

~~**304.1 General.** The provisions of Section 304 shall control the design and construction of aquatic vessels installed in flood hazard areas.~~

~~**304.2 Determination of impacts based on location.** Aquatic vessels located in flood hazard areas indicated within the international Building Codes or the International Residential Code shall comply with Section 304.2.1 or 304.2.2.~~

~~**Exception:** Aquatic vessels located in riverine flood hazard areas that are outside of designated floodways and aquatic vessels located in flood hazard areas where the source of flooding is tides, storm surges or coastal storms.~~

~~**304.2.1 Aquatic vessels located in designated floodways.** Where aquatic vessels are located in designated floodways, documentation shall be submitted to the code official that demonstrates that the construction of the aquatic vessel will increase the design flood elevation at any point within the jurisdiction.~~

~~**304.2.2 Aquatic vessels located where floodways have not been designated.** Where aquatic vessels are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed aquatic vessel and associated grading and filling, will not increase the design flood elevation more than 1 foot (305 mm) at any point within the jurisdiction.~~

~~**304.3 Aquatic vessels in flood hazard areas subject to high-velocity wave action.** Aquatic vessels installed in flood hazard areas subject to high-velocity wave action (coastal high hazard areas) shall be designed and constructed in accordance with ASCE 24.~~

~~**304.4 protection of equipment.** Equipment shall be elevated to or above the design flood elevation or be anchored to prevent flotation and protected to prevent water from entering or accumulating within the components during conditions of flooding.~~

~~**304.5 GFCI protection.** Electrical equipment installed below the design flood elevation shall be supplied by branch circuits that have ground fault circuit interrupter protection for personnel.~~

JUSTIFICATION: Sent to Structural/ Grading committee for review and comment.

This section needs to coordinate with the IBC and IRC soils requirements. Structural/ Grading committee reported back their agreement to delete the section and any requirements will be picked up in Zoning.

COST IMPACT: none

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concur

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 5

COMMITTEE: ISPSC

CODE SECTION: 305

PROPONENT: Wesley Walters

PROPOSAL: Modify the entire barrier requirement section of the code to comply with the local requirement of a 5 foot primary barrier and a 4 foot secondary barrier.

REVISE AS FOLLOWS:

SECTION 305 BARRIER REQUIREMENTS

305.1 General. The provisions of this section shall apply to the design of barriers for aquatic vessels. These design controls are intended to provide protection against the potential drowning and near drowning by restricting access to such vessels. These requirements provide an integrated level of protection against potential drowning through the use of physical barriers and warning devices.

Exceptions:

1. Spas and hot tubs with a lockable safety cover that complies with ASTM F 1346.
2. ~~Swimming pools with a powered safety cover that complies with ASTM F1346.~~

305.2 Aquatic vessels. All outdoor aquatic vessels and indoor swimming pools shall be surrounded by a barrier that complies with Sections 305.2.1 through 305.10.

Exception All aquatic vessels or water features with a maximum water depth 18” and less.

305.2.1 Barrier height and clearances. The top of the barrier shall not be less than 60 inches (1524 mm) in height above adjacent grade measured from outside the enclosed area or 8 feet (2.4 m) vertical, non-climbable barrier, measured on the inside. The vertical clearance between grade and the bottom of the barrier shall be 4 inches (101.6 mm) maximum. When permanently installed pools or spas are in adjacent yards the common barrier may be reduced to 48 inches (1219.2 mm) on either side.

305.2.2 Wrought Iron. Wrought iron fence with open guardrails shall have intermediate rails or an ornamental pattern such that a sphere 4 inches (101.6 mm) in diameter cannot pass. Horizontal support members shall be spaced at least 32 inches (813 mm) apart and shall comply with Section 305.2.1.

305.2.2.1 Wrought Iron with Masonry. Mixed use of masonry and wrought iron walls shall comply with all of the following:

(1) Masonry or wrought iron portion of the wall shall be a minimum of 32 inches (813 mm) in height.

(2) The wrought iron portion of the wall shall comply with Sections 305.2.1 and 305.2.2 with a maximum of two horizontal members, one near the bottom, within 4 inches (101.6 mm) of the masonry wall below, and one a minimum of 60 inches (1524 mm) above grade.

~~305.2.1 Barrier height and clearances.~~ Barrier heights and clearances shall be in accordance with all of the following:

~~1. The top of the barrier shall be not less than 48 inches (1524 mm) above grade measured on the side of the barrier that faces away from the aquatic vessel. Such height shall exist around the entire perimeter of the vessel and for a distance of three (3) feet where measured horizontally from the required barrier.~~

~~2. The vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) for grade surfaces that are not solid, such as grass or gravel, where measured on the side of the barrier that faces away from the vessel.~~

~~3. The vertical clearance between a surface below the barrier to a solid surface, such as concrete, and the bottom of the required barrier shall not exceed 4 inches (102 mm) where measured on the side of the required barrier which faces away from the vessel.~~

~~4. Where the top of the vessel structure is above grade, the barrier shall be installed on grade or shall be mounted on top of the vessel structure. Where the barrier is mounted on the top of the vessel, the vertical clearance between the top of the vessel and the bottom of the barrier shall not exceed 4 inches (102 mm).~~

~~305.2.2 Openings.~~ Openings in the barrier shall not allow passage of a 4-inch diameter (102 mm) sphere.

~~305.2.3 Solid barrier surfaces.~~ Solid barriers that do not have openings shall not contain indentations or protrusions that form handholds and footholds, except for normal construction tolerances and tooled masonry joints.

~~305.2.5 Closely spaced horizontal members.~~ Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the aquatic vessel side of the fence. Spacing between vertical members shall not exceed 1.75 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

~~305.2.6 Widely spaced horizontal members.~~ Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

305.2.4 Chain link dimensions. The maximum opening formed by a chain link fence shall be not more than 1.7525 inches. Where the fence is provided with slats fastened at the top and bottom which reduces the openings, such openings shall be not more than 1.7525 inches. The fence shall have top and bottom horizontal supports. The fence height must be a minimum of 60 inches (1524 mm) and shall be constructed of not less than 11 gauge wire.

305.2.5 Diagonal members. Where the barrier is composed of diagonal members, the maximum opening formed by the diagonal members shall be no more than 1.7525 inches (44 mm). The angle of diagonal members shall not be greater than 45 degrees (0.79 rad) from vertical.

~~**305.2.9 Clear Zone.** There shall be a clear zone of not less than 36 inches (914 mm) around the exterior of the barrier and around any permanent structures or equipment such as pumps, filters and heaters that can be used to climb the barrier.~~

~~**305.2.10 Poolside Barrier Setbacks.** The aquatic vessel side of the required barrier shall be not less than twenty (20) inches from the water's edge.~~

~~**305.3 Gates.** Access gates shall comply with the requirements of Sections 305.3.1 through 305.3.3 and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the vessel and shall be self-closing and have a self-latching device.~~

~~**305.3.1 Utility or service gates.** Gates not intended for pedestrian use, such as utility or service gates, shall remain locked when not in use.~~

~~**305.3.1 Gates or Doors.** All single gates or doors 8 feet (2.4 m) or less in width shall meet the following requirements:~~

~~(1) Gates and doors shall be self-closing and self-latching.~~

~~(2) Gates shall open outward from the enclosed pool area.~~

~~**305.3.2 Double or multiple gates.** Double gates or multiple gates shall have at least one leaf secured in place and the adjacent leaf shall be secured with a self-latching device. The gate and barrier shall not have openings larger than 1/2 inch (12.7mm) within 18 inches (457mm) of the latch release mechanism. The self-latching device shall comply with the requirements of Section 305.3.3.~~

~~**305.3.2 Latching Devices.** The self-latching devices of gates or doors shall be one of the following:~~

~~(1) A device that is an ASTM F-1908-08 approved latching device. It shall be installed per the manufacturer's installation instructions.~~

~~(2) A device mounted inside the enclosed area and be designed to be inoperable from outside the enclosed area. Manual catch latch devices shall not be less than 3 inches (76 mm) or more than 6 inches (152.4 mm) below the top of the door or gate. It shall be inaccessible from outside the enclosed area for a distance of 20 inches (508 mm) in all directions from the latch except that an opening not greater than 1/4 inch (6 mm) diameter shall be permitted. This protection is not required to extend above the top of the gate.~~

~~(3) Keyed lockset devices shall be mounted at any height above grade.~~

305.3.3 Latches. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from grade, the release mechanism shall be located on the vessel side of the gate at least 3 inches (76 mm) below the top of the gate, and the gate barrier shall not have openings greater than ½ inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

305.3.3 No other device shall impede operation or obstruct closing of self-latching device.

305.4 Structure wall as a barrier. Where a wall of a dwelling or structure serves as part of the barrier, doors and operable windows with a sill height of less than 48 inches (1219 mm) that provide direct access to the aquatic vessel through the wall, shall be equipped with one or more of the following:

1. An alarm that produces an audible warning when the door or its screen or window, is opened. The alarm shall be listed and labeled as water hazard entrance alarm in accordance with UL 2017. In dwellings or structures not required to be Accessible units, Type A units or Type B units, the deactivation switch shall be located 54 inches (1372 mm) or more above the threshold of the door. In dwellings or structures required to be Accessible units, Type a units or Type B units, the deactivation switch shall be located not greater than 54 inches (1372 mm) and not less than 48 inches (1219 mm) above the threshold of the door.
2. A safety cover that is listed and labeled in accordance with ASTM F1346.
3. An approved means of protection, such as self-closing doors with self-latching devices, provided that the degree of protection afforded is not less than the protection afforded by Items 1 or 2.

305.4 Large Access Barrier Gates. Single access barrier gates, greater than 8 feet (2.4 m) in width, shall be equipped with protected self-latching, lockable hardware and shall remain locked at all times when not in use.

Exception: Electronic remote latches without manual devices and panic hardware where required shall not be subject to height restrictions.

305.5 Double Gates. Double gates integral to perimeter fences shall comply with the requirements of Section 305.4 and shall be permanently locked. If double gates are used as the only access to the yard, one gate shall be pinned and locked in the closed position and the adjoining gate must meet the requirements of Section 305.3.1.

305.6 Electric Operated Gates. Electric operated gates shall start to close within 30 seconds of entry.

305.7 Key Operated Devices. Key-operated, self-latching locks that are integral to the gate or door may be used as latching devices, as long as they are permanently locked from the outside and comply with the above installation requirements.

305.8 Secondary Access Barrier Requirement. An additional barrier that isolates all openings in the dwelling unit from the residential pool or spa shall be erected. The barrier shall be a minimum of 48 inches (1219 mm) in height and shall not allow the passage of a sphere 4 inches (102 mm) in diameter. All gates shall be self-closing and latching at the top of the barrier. No other device shall impede operation or obstruct the closing of self-latching gate.

305.8.1 Option one. Mesh fencing, other than chain link fences in accordance with Section 305.2.4, shall be installed in accordance with the manufacturer's instructions and shall comply with the following:

1. The top of the barrier shall be not less than 48 inches (1524 mm) above grade measured on the side of the barrier that faces away from the aquatic vessel. ~~Such height shall exist around the entire perimeter of the vessel and for a distance of three (3) feet where measured horizontally from the required barrier.~~
2. The bottom of the mesh restraining fence shall be not more than 1 inch (25 mm) above the deck or installed surface or grade.
3. The maximum vertical clearance from the bottom of the mesh fence and the solid surface shall not permit the fence to be lifted more than 4 inches (102 mm) from grade or decking.
4. The fence shall be designed and constructed so that it does not allow passage of a 4-inch sphere under or through any mesh panel.
5. An attachment device shall attach each barrier section at a height not lower than 45 inches (1143 mm) above grade. Common attachment devices include, but are not limited to, devices that provide the security equal to or greater than that of a hook-and-eye-type latch incorporating a spring-actuated retaining lever such as a safety gate hook.
6. Where a hinged gate is used with a mesh barrier, the gate shall comply with Section 305.3.
7. Patio deck sleeves such as vertical post receptacles which are placed inside the patio surface shall be of a nonconductive material.

305.8.2 Option two. Self-closing and self-latching devices installed on all openings in dwelling unit that provide direct access to the pool or spa. Openings to include doors; operable windows with a sill height of 48 inches (1219 mm) or less; and pet doors allowing the passage of a sphere of 4 inches (102 mm) in diameter.

Exception:

1. Operable windows with a sill height less than 48 inches (1219mm) with a manufacturer installed permanent locking or latching mechanism mounted not less than 54" from floor.
2. Self-closing, self latching pet doors approved by the building official.

305.8.3 Option three. An alarm installed on all openings in dwelling unit that provide direct access to the pool or spa. Openings to include doors; operable windows with a sill height of 48 inches or less; and pet doors allowing the passage of a sphere of 4 inches (102 mm) in diameter. The alarm shall be listed to meet UL Standard 2017 for Residential Water Hazard Entrance Alarms. The alarm shall sound continuously for a minimum of 30 seconds within 7 seconds after the door is opened, and be a minimum of capable of providing 85 dB when measured indoors at 10 feet (3.05 m). The alarm shall automatically reset under all conditions. The alarm shall be equipped with a manual means, such as a touch pad or switch, to temporarily deactivate the alarm for a single opening. The deactivation switch shall be located at least 54 inches (1372 mm) above the threshold of the door.

Exception:

1. Operable windows with a sill height less than 48 inches (1219mm) with a manufacturer installed permanent locking or latching mechanism mounted not less than 54" from floor.
2. Self closing, self latching pet doors approved by the building official.

In dwellings or structures not required to be Accessible units, Type A units or Type B units, the deactivation switch shall be located 54 inches (1372 mm) or more above the threshold of the door. In dwellings or structures required to be Accessible units, Type A units or Type B units, the deactivation switch shall be located not greater than 54 inches (1372 mm) and not less than 48 inches (1219 mm) above the threshold of the door.

305.8.4 Option four. A pool motion device, laser or light beam activation alarm system permanently installed that provides an active barrier within the pool or across the access to the pool from the dwelling unit or installed around the entire perimeter of the pool. The device shall sound an alarm of at least 85 dB both inside and outside of the home when activated. The alarm must automatically reset after alarming. The device and alarm shall meet ASTM F2208-08 and be listed.

305.8.5 Option five. Power safety covers installed that comply with ASTM F1346-03.

305.8.6 Option six. An approved alternate means of protection, such as self-closing doors with self-latching devices, provided that the degree of protection afforded is not less than the protection afforded by sections 305.8.1 through 305.8.5.

305.9 Natural barriers. In the case where the vessel area abuts the edge of a lake or other natural body of water, public access is not permitted or allowed along the shoreline, and required barriers extend to and beyond the water's edge a minimum of 18 inches, a barrier is not required between the natural body of water shoreline and the vessel.

305.10 Natural topography. Natural topography that prevents direct access to the aquatic vessel area shall include but not be limited to mountains and natural rock formations. A natural barrier approved by the governing body shall be acceptable provided that the degree of protection is not less than the protection afforded by ~~the requirements of Sections 305.2 through 305.5~~ manufactured or constructed means.

305.11 Safety Glazing. Glazing adjacent to aquatic vessels shall comply with the glazing requirements of the IBC or IRC. Glazing in walls and fences within 60 inches (1524 mm) or less, measured horizontally from the water's edge and less than 60 inches (1524 mm) measured vertically above grade shall be considered hazardous locations. In these locations, tempered glazing, laminated glass or Plexiglas shall be used.

305.12 Barrier Timeliness. All required access barrier elements shall be installed prior to:

(1) Installation of a pre-manufactured pool or spa.

(2) The pre-plaster inspection of a conventionally constructed pool or spa.

(3) The filling of any water feature.

305.13 Surveillance Substitute. In lieu of access barriers required by this code, resort hotel facilities and therapeutic facilities used by or under the direct control of licensed medical personnel may provide a dedicated guard so that observation is maintained at all times. An alternate method may be submitted in writing and approved by the Building Official. Such submittal shall become a permanent part of the job record.

305.14 Responsible Party. The owners of the property upon which pools, spas or artificial bodies of water are located are responsible to establish and maintain access barriers. The owner or developer of land adjacent to an access barrier required by this section shall not reduce, degrade, or infringe on the access barrier's compliance with this code.

305.15 Alternate Materials or Methods: An application for alternate materials or methods must be reviewed and approved by the Building Official for any proposed access barrier which does not meet the requirements of this code. If approved by the Building Official, the owner remains responsible for establishing and maintaining such approved alternate materials or methods.

JUSTIFICATION:

This series of changes helps coordinate the 2009 code requirements that have been proven to meet the safety needs of the community and clarify when and what type of protection is needed to address the problem of small children getting out the house unsupervised and becoming injured or worse dead. The secondary barrier requirements are needed to address the 8-10 drowning deaths each year, by taking actions that help save these lives. Note many of the secondary barrier requirements are base code requirements that are being maintained for the single family pool applications only.

The gate requirements are from the 2009 code and reflect policy for the past several code cycles. Some clarification was added to define the differences between man gates, large gates and double gates.

The concerns of window alarms has been clarified to recognize latching devices iatrical to the window that are mounted above the base code requirement of 48” by using the local requirement mounting height of 54” provide the same level of protection as the mounting height of controls and alarms.

Some changes are movement of requirement of primary barriers to secondary barriers and then renumbering them for the new location.

305.11 thru 305.15 are clarification from existing code that address commercial pool unique requirements.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Pahrump	North Las Vegas	Industry		
						1	2	3
	YES			YES	YES	YES	YES	YES

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Does not concur with item #1 of Exceptions to Subsection 305.8.2 and Subsection 305.8.3 since the operable windows could be left open and the latching mechanism would not be effective.

Concurs with the other provisions of the proposed amendment.

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 6

COMMITTEE: ISPSC

CODE SECTION: 307.1

PROPONENT: Wesley Walters

PROPOSAL: Revise Section 307.1

REVISE AS FOLLOWS:

307.1 General. The provisions of this section apply to all aquatic vessels.

Exceptions:

1 The provisions of Sections 307.3 through 307.6 do not apply to listed and labeled portable residential spas and listed and labeled portable residential exercise spas.

2 The provisions of Sections 307.3 through 307.6 do not apply to manufactured pools or spas.

JUSTIFICATION: The current code does not address manufactured permanent installed pools and spas. This is to clarify that they are still an acceptable product if installed per their listing. As listed products they are regulated by those standards they are built to.

COST IMPACT: none

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concur

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 7

COMMITTEE: ISPSC

CODE SECTION: 308.1

PROPONENT: Wesley Walters

PROPOSAL: Revise Section 308.1

REVISE AS FOLLOWS:

308.1 Floor slope. The slope of the floor from the point of the first slope change to the deep area shall not exceed one unit vertical in three units horizontal.

Exceptions

- 1 Listed portable residential spas and listed portable residential exercise spas.
- 2 Manufactured pool or spa.

308.2 Walls. Walls shall intersect with the floor at an angle or transition profile. Where a transitional profile is provided at water depths of 3 feet (914 mm) or less, a transitional radius shall not exceed 6 inches (150 mm) and shall be tangent to the wall and permitted to be tangent to or intersect the floor.

Exceptions:

- 1 Listed portable residential spas and listed portable residential exercise spas.
- 2 Ongoing storable pools
- 3 Manufactured pool or spa.

JUSTIFICATION: The current code does not address manufactured permanent installed pools and spas. This is to clarify that they are still an acceptable product if installed per their listing. As listed products they are regulated by those standards.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concur

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 9

COMMITTEE: ISPSC

CODE SECTION: 313.4

PROPONENT: Wesley Walters

PROPOSAL: Revise Section 313.4

REVISE AS FOLLOWS:

313.4 Location. Pumps and motors shall be accessible for inspection and service in accordance with the manufacturer's specifications. A 24 inch (610 mm) wide access path is required to all aquatic vessel and mechanical equipment.

313.4.1 Equipment. Any outdoor equipment pad shall not be in contact with any foundation. Equipment shall be installed with adequate drainage. Equipment in vaults or pits shall have an approved means to drain water from the pit. Equipment shall be installed in accordance with the currently adopted Codes, listing requirements and the manufacturer's installation instructions.

JUSTIFICATION: The NEC has requirements for work area at electrical components. The local condition of narrow side yards results in a minimum level of access to equipment this change provides for that access and addresses the problem of protecting equipment when installed in a pit. Pits are presently not defined within the pool code and this gives rules on what needs to be done for a safe environment.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concur

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 10

COMMITTEE: ISPSC

CODE SECTION: 321.4

PROPONENT: Wesley Walters

PROPOSAL: Revise Section 321.4

REVISE AS FOLLOWS:

321.4 Residential pool and spa deck illumination. ~~Where installed~~ In residential inground pools and permanent residential spas, lighting shall be installed in accordance with NFPA 70. ~~or the International Residential Code, as applicable in accordance with Section 102.7.1.~~

321.4.1 Illumination intensity. Underwater lighting shall provide a minimum of 8 lumens per square foot of pool water surface area or overhead lighting that provides not less than 15 foot-candles (161 lumens) of illumination at all areas of the aquatic vessel surface.

JUSTIFICATION: The current Code does not define minimum lighting levels for residential pools. The lighting levels are the same as those required for a commercial pool or spa. Light levels are a mathematical level times area calculation shown on the approved plans and verified in the field. NOTE this is a change from the old requirements of 1/2 watt per square foot, to address the new LED lighting systems that are now available, see attached table.

Lamp type	Pool Finish	Watts or Lumens	Max Pool Sq. Ft. 2009
200 watt, quartz halogen	white plaster	5780 Lumens	578
200 watt, quartz halogen	white plaster	5120 Lumens	512
200 watt, quartz halogen	pebble tec	5120 Lumens	512
200 watt, quartz halogen	pebble tec	4500 Lumens	450
150 watt, metal halide - Alum Reflector	white plaster	6480 Lumens	648
150 watt, metal halide - Alum Reflector	white plaster	5780 Lumens	578
150 watt, metal halide - Alum Reflector	pebble tec	5780 Lumens	578
150 watt, metal halide - Alum Reflector	pebble tec	5120 Lumens	512
55 watt metal halide	white plaster	8000 Lumens	800
55 watt metal halide	pebble tec	6480 Lumens	648
(2) 75 watt quartz halogen	na	150 watts	437
100 watt	na	100 watts	200
250 watt	na	250 watts	500
300 watt	na	300 watts	600
400 watt	na	400 watts	800
500 watt	na	500 wats	1000
250 watt	na	250 watts	500
(2) 75 watt quartz halogen	na	150 watts	504
(2) 25 watt quartz Halogen	na	50 Watts	168
LED	na		449
150 watt, metal halide - Glass Reflector	white plaster	7200 Lumens	720
150 watt, metal halide - Glass Reflector	white plaster	6500 Lumens	650
150 watt, metal halide - Glass Reflector	pebble tec	6500 Lumens	650
150 watt, metal halide - Glass Reflector	pebble tec	6120 Lumens	612
LED	white plaster	7200 Lumens	720
LED	white plaster	2480 Lumens	250
LED	white plaster	2480 Lumens	250
LED	white plaster	4950 Lumens	500

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Pahrump	North Las Vegas	Industry		
						1	2	3
Yes	Yes	Yes	Yes	Yes	Not present	Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concur

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 11

COMMITTEE: ISPSC

CODE SECTION: 323.1.1 thru 323.1.3

PROPONENT: Wesley Walters

PROPOSAL: delete 323.1.1 thru 323.1.3 and replace with:

REVISE AS FOLLOWS:

323.1.1 **Handhold.** A handhold shall consist of any of the following:

(a) A continuous coping, ledge or handhold shall be placed a maximum of twelve (12) inches (305 mm) above the water surface or no greater than six (6) inches (152.4 mm) below water level. A ledge shall have a minimum projection of three (3) inches (76 mm). Individual handholds must be at least six (6) inches (152.4 mm) in length and one and one-half (1 ½) inches (38 mm) in depth. Attachment must be made by an approved listed waterproof epoxy. Vanishing edges sloping into the main body of water shall have a maximum wall thickness of fifteen (15) inches (381 mm) when used as a handhold.

(b) A permanently secured railing of one and one-quarter (1 ¼) inches (32 mm) to two (2) inches (51 mm) in diameter placed at a maximum of twelve (12) inches (305 mm) above the water surface and a maximum of six (6) inches (152.4 mm) below the water surface.

JUSTIFICATION: The 2012 code does not address the use of underwater handholds. They are a commonly used feature in our local designs. This will allow continual use of a good feature. This also continues with standardize size requirements for this feature.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concur

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 12
 COMMITTEE: ISPSC
 CODE SECTION: 324
 PROPONENT: Wesley Walters

PROPOSAL: Add a new Section 324

REVISE AS FOLLOWS:

SECTION 324

WIND SENSORS

324 Wind Sensors. Water features and fountains on commercial properties shall be equipped with an integral automatic wind sensor device calibrated to shut off airborne and moving water when wind velocity exceeds twenty miles per hour.

JUSTIFICATION: Water features are a unique design element of local area and the 2012 code does not provide direction on how to protect the area around fountains in high winds from creating an unsafe walking surface. This a current code requirement that helps to control wasting of water dangerous conditions around these types of items when walking surfaces become wet and slippery.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concurs

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 13

COMMITTEE: ISPSC

CODE SECTION: 325

PROPONENT: Wesley Walters

PROPOSAL: add a new Section 325

SECTION 325

WATER FEATURES

325 Water features. Manmade decorative water features and vanishing edge catch basins greater than 24 inches (610 mm) in depth with walls that are inclined greater than forty-five (45°) degrees shall have a means of entry/egress.

JUSTIFICATION: This is in the current code and provides a safe means to access and egress these types of features. As a unique design element of local pools the 2012 code does not provide direction on how a small of an area needs safe access and egress.

COST IMPACT: none

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concurs

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 14

COMMITTEE: ISPSC

CODE SECTION: 202

PROPOSER: Renee Gibbs

PROPOSAL: Section 202 Revise Aquatic Vessel Definition

REVISE AS FOLLOWS:

Aquatic vessel. A vessel, permanent or temporary, intended for swimming, bathing, or wading and that is designed and manufactured to be connected to a circulation system. Portable vessels ~~12 inches (305 mm)~~ 48 inches (1220 mm) or less in designed water depth which are drained and filled daily are not considered aquatic vessels. For purpose of this code, the term is used to identify all types of vessels governed by this code, including: swimming pools, aquatic facilities, spas and hot tubs, and related equipment. Such vessels are either used in a residential application or in a public application.

JUSTIFICATION: This is to correct an error within the 2012 code. Majority of fill and drain tubs exceed 12 inches, to stay out of hospitals and rehab centers by not defining elements aquatic vessels and requiring barriers and protection that would meet this definition. Maximum depth for a commercial spa is 48 inches.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concurs

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 15

COMMITTEE: ISPSC

CODE SECTION: 313.7

PROPOSER: Wesley Walters

PROPOSAL: Revise Section 313.7

REVISE AS FOLLOWS:

313.7 Emergency shutoff switch. An emergency shutoff switch shall be provided to disconnect all power to recirculation and jet system pumps and air blowers. Emergency shutoff switches shall be: provided with access; located within sight of the aquatic vessel and located not less than 5 feet (1524 mm) horizontally from the inside walls of the aquatic vessel.

Exception: Onground storable and permanent inground residential swimming pools, residential spas and residential water features.

JUSTIFICATION: This has always been a public aquatic vessel issue and by only exempting the pools they would still be required for spas and water features. This just clarifies the intent of the code for commercial applications not being required for residential applications.

COST IMPACT: none

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concurs

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 16

COMMITTEE: ISPSC

CODE SECTION: 320.1

PROPONENT: Wesley Walters

PROPOSAL: Revise Section 320.1

REVISE AS FOLLOWS:

320.1 Backwash water or draining water. Backwash water and draining water shall be discharged to the sanitary ~~or storm~~-sewer, or into an approved disposal system on the premise, or shall be disposed of by other means approved by the state or local authority. Direct connections shall not be made between the end of the backwash line and the disposal system. Drains shall discharge through an air gap.

JUSTIFICATION: The water authority does not allow water to be disposed of through the storm drain system.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concurs

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 19

COMMITTEE: ISPSC

CODE SECTION: 202

PROPONENT: Scott Simons

PROPOSAL: Add a definition for “unblockable outlet”

Unblockable outlet: An outlet of any size and shape such that a representation of the torso of the 99 percentile adult male cannot sufficiently block it to the extent that it creates a body suction entrapment hazard. The torso is represented as a rectangle 18 inches x 23 inches (457mm x 584mm) with corners of radius 4 inches (102mm).

JUSTIFICATION:

Not in current definitions, but is in ANSI/APSP section 5.5.2 for definitions. This will provide consistency with the standard and the code.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concurs

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 20

COMMITTEE: ISPSC

CODE SECTION: 302.7

PROPONENT: Scott Simons

PROPOSAL: Revise Section 302.7

REVISE AS FOLLOWS:

302.7 Tests. Tests on water piping systems constructed of plastic piping shall not use compressed air for the test.

Exception: Gas lines installed using listed plastic gas line and fittings.

JUSTIFICATION: The UPC has the same requirement for not testing plastic water piping. The addition of the exception approving plastic piping is also in the UPC requirement for testing gas piping. This coordinates with the UPC and separates out which type of piping can be tested by what method as both are installed by the same person but have different test requirements.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concurs with the intent. However; Section 302.7 is about testing of water piping, but the Exception is for gas piping. It would be more appropriate to add the Exception to the existing Section 302.7. The Pool Committee was informed of this, but did not revise the proposal.

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 27

COMMITTEE: ISPSC

CODE SECTION: 307.7

PROPONENT: Scott Simons

PROPOSAL: Revise Section 307.7

REVISE AS FOLLOWS:

307.7 Colors and Finishes. The colors, patterns, or finishes of the vessel interior shall not obscure objects or surfaces within the vessel.

Exception: Residential pools, spa, and water features.

JUSTIFICATION:

This is a health district requirement to be able to visually examine conditions within a body of water. The exception now includes water features that have been added to definitions of the code to regulate water features the same as residential vessels. The code does not address what to do with water features and this provides that requirement.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concurs

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 28

COMMITTEE: ISPSC

CODE SECTION: 311.2.2

PROPONENT: Scott Simons

PROPOSAL: Revise Subsection 311.2.2 and add a new Subsection 311.2.4.

311.2.2 Servicing. Circulation system components that require replacement or servicing shall be provided with access for inspection, repair, or replacement and shall be installed in accordance with manufacturer specifications. A twenty-four inch (24") wide access path is required to all pool and existing mechanical equipment.

311.2.4 Adequate Drainage. Equipment shall be installed with adequate drainage. Equipment in vaults or pits shall have an approved means to drain water from the vault or pit.

JUSTIFICATION:

The NEC has requirements for work area at electrical components. The local condition of narrow side yards results in a minimum level of access to equipment this change provides for that access and addresses the problem of protecting equipment when installed in a pit. Pits are presently not defined within the pool code and this gives rules on what needs to be done for a safe environment.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concurs

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 29

COMMITTEE: ISPSC

CODE SECTION: 315.5

PROPONENT: Scott Simons

PROPOSAL: **Delete Section 315.5 in entirety**

~~**315.5 Equalizers.** Equalizers on skimmers shall be prohibited.~~

JUSTIFICATION: ANSI/APSP section 4.8 and 4.8.1 permit their use and define where they are required. SNHD requires equalizers on commercial pools.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concur

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: _____ 30 _____

COMMITTEE: _____ ISPSC _____

CODE SECTION: _____ 326 _____

PROPONENT: _____ Scott Simons _____

PROPOSAL: Add Section 326 to current sections:

REVISE AS FOLLOWS:

SECTION 326

SITE WORK, SETBACKS AND CLEARANCE REQUIREMENTS

326.0 Site Work. Excavation areas shall be protected so that they do not endanger life or property. Temporary barricades shall be maintained in place and kept in good order until permanent barriers are installed. It shall be the responsibility of the contractor or owner to verify property line locations prior to excavation.

326.1 Aquatic Vessel Location. Any aquatic vessel shall not be placed closer than 60 inches (1524mm) to any building or structure and shall not encroach within public utility easements. An exception may be permitted when substantiation is provided by a Nevada Licensed Structural or Civil Engineer that no damage will occur to buildings, structures or adjacent properties and that no unsafe structural conditions will exist.

326.2 Drainage. Site Drainage shall be provided to direct all drainage from site, perimeter decks, and roofs away from the aquatic vessel and adjacent buildings and structures.

326.3 (NEC 680.8) Overhead Conductor Clearances. Overhead conductors shall meet the clearance requirements in this section. Where a minimum clearance from the water level is given, the measurement shall be taken from the maximum water level of the specified body of water.

(A) Power. With respect to service drop conductors and open overhead wiring, swimming pool and similar installations shall comply with the minimum clearances given in Table 680.8 and illustrated in Figure 680.8.

(B) Communications Systems. Communication, radio, and television coaxial cables within the scope of Articles 800 through 820 shall be permitted at a height of not less than 3.0 m (10 ft) above swimming and wading pools, diving structures, and observation stands, towers, or platforms.

Table 680.8 Overhead Conductor Clearances

Clearance Parameters	Insulated Cables, 0-750 Volts to Ground, Supported on and Cabled Together with a Solidly Grounded Bare Messenger or Solidly Grounded Neutral Conductor		All Other Conductors Voltage to Ground			
	m	ft	0 through 15 kV		Over 15 through 50 kV	
			m	ft	m	ft
A. Clearance in any direction to the water level, edge of water surface, base of diving platform, or permanently anchored raft	6.9	22.5	7.5	25	8.0	27
B. Clearance in any direction to the observation stand, tower, or diving platform	4.4	14.5	5.2	17	5.5	18
C. Horizontal limit of clearance measured from the outer edge of the structure	This limit shall extend to the outer edge of the structures listed in A and B of this table but not to less than 3 m (10 ft).					

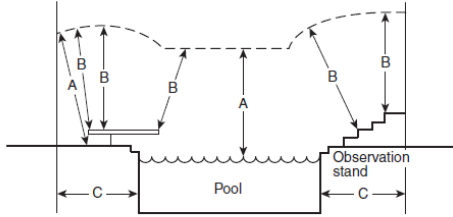


Figure 680.8 Clearances from Pool Structures.

JUSTIFICATION:

Site work protection and site drainage are not addressed in the current code. This is from the 2009 code and is consistent with current practices. NEC section 680.8 was updated to current codes. It was felt that if we took the electrical requirements out pool builders would not look for these requirements and they would not show up in the design so they were maintained for clarity only.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concurs

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 31

COMMITTEE: ISPSC

CODE SECTION: 401.1

PROPONENT: Scott Simons

PROPOSAL: **Revise Section 401.1**

REVISE AS FOLLOWS:

401.1. Public swimming pools. The provisions of this chapter shall apply to public swimming pools. Public swimming pools shall comply with the Southern Nevada Health Districts requirements, in addition to the provisions of this chapter. Public swimming pools covered in this chapter include Class A, Class B, Class C, and Class E pools.

JUSTIFICATION: Public pools and spas are regulated by SNHD. This provides clarification so that SNHD is not missed when referring to public aquatic vessels.

COST IMPACT: None

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concur

SOUTHERN NEVADA CODE AMENDMENT/CHANGE FORM-2012

AMENDMENT/CHANGE NO.: 32

COMMITTEE: 2012 Swimming Pool Code Committee (ISPSC)

CODE SECTION: 307.5

PROPONENT: Jo Perez

PROPOSAL: **Revise Section 307.5**

REVISE AS FOLLOWS:

307.5 Freeze Protection. In climates subject to freezing temperatures, outdoor aquatic vessels shells and appurtenances, piping, filter system, pumps and motors and other components shall be designed and constructed to provide protection from freezing in accordance with the 2012 International Building Code and 2012 Southern Nevada amendments.

Justification: The ISPSC and current SNBO Pool code do not address the freezing protection requirements. Currently, Clark County has PNP: BD-CI-016 (policy and procedure) Special consideration at Mt. Charleston area. Design under IRC, IBC and UPC with elevation higher than 6000 ft. elevation.

COST IMPACT: May increase based on the depth of local frost line.

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Yes	Yes	Yes	Yes		Yes	Not present		Yes	Yes	yes

RESULT: Approved

STEERING COMMITTEE RECOMMENDATIONS: Concur

This could be a local procedure for jurisdictions with elevations above 6000 ft.

SOUTHERN NEVADA CODE AMENDMENT FORM – 2012

AMENDMENT #: 35 (51B Structural/Grading number)

COMMITTEE: Structural/Grading

CODE SECTION: ISPSC 307.4.2

PROPONENT: Clark County

PROPOSAL: Modify and expand the section on requirements for pool structural design and clarify geotechnical investigation report requirements.

REVISE AS FOLLOWS: *Modify section 307.4 as follows:*

307.4. Structural design. The structural design of aquatic vessels shall be in accordance with the International Building Code and shall be performed by a registered design professional. Construction documents (material specifications, sections and details) shall be wet sealed and signed by the registered design professional, or International Residential Code, as applicable in accordance with Section 107.2.1. Approved, listed manufactured pools, spas, and water features shall be installed in accordance with manufacturer's installation instructions and their approved listing.

307.4.1 Installation. Equipment for aquatic vessels shall be supported to prevent damage from misalignment and settling and located so as to allow access for inspection, servicing, removal and repair of component parts.

307.4.2 Geotechnical Investigation Report. All areas of Southern Nevada shall have a geotechnical investigation report at completion of excavation or prior to permit application. Geotechnical investigation reports shall be prepared and sealed by a registered design professional. The report shall include soil classification by the Unified Soil Classification System (ASTM D 2487). As an alternative, classification may be performed on a visual-manual basis (ASTM D 2488) in the field by an individual with: a degree in civil engineering; engineering geology; geologic engineering; or geology; or a Civil/Geological Engineer licensed in the State of Nevada. Backup data shall include a particle size distribution analysis, Atterberg limits and chemical tests for soil sulfates.

The report shall specifically address the potential negative impacts of the following adverse soil conditions including, but not limited to: collapsible soils, expansive soils (swell), soluble soils, corrosive soils (including sulfates), chemical heave, and uncontrolled fill. The report shall include supporting test data and where any of these conditions are identified on-site, mitigating measures shall be provided based upon the identified conditions. The requirements for any imported fill shall specifically address all of the above adverse conditions as well.

Exceptions

1. The site is outside the special geologic consideration zone identified on the current Clark County Soils Guideline Map.
2. Any aquatic vessel with a depth less than four (4) feet (1220mm) in depth.
3. At the option of the Building Official.

When a geotechnical investigation report is not required by the building official, the minimum design at-rest pressure shall be 60 psf/ft and an Exposure Class S2 (severe sulfate exposure level). Design lateral pressure from surcharge loads shall be added to the lateral earth pressure. However lateral earth pressure due to seismic motion need not be included in the design.

307.4.3 Ground Water Protection. If groundwater is present, a hydrostatic valve shall be installed at the lowest point; or other approved means shall be provided to prevent buoyant uplift.

307.4.4 Site Condition. That portion of the pool wall within a horizontal distance of 7 feet (2134 mm) from the top of the slope shall be capable of supporting the water in the pool without soil support

307.4.5 Bond Beam. A continuous bond beam shall not be interrupted for the installation of skimmers and/or similar apparatus; an alternate method may be used when approved by the Building Official.

307.4.6 Special Inspection. Unless required by the registered design professional or by the Building Official, special inspections are not required for residential swimming pools, spas or water features.

JUSTIFICATION: To be consistent with changes made to the IBC and the IRC grading requirements. Clark County does not require geotechnical reports for standard retaining wall up to 4 ft height seems reasonable to extend this to pools and provide clarification on presumptive values where no geotechnical report is required. Items 3.7.4.3 through 3.7.4.6 are included to clarify and carry forward local practices regarding pool design, construction and inspection.

COST IMPACT: Most of the proposed changes carry forward the current standard of practice. There are more exemptions from geotechnical report requirements but this savings is offset by the higher 60psf/f at rest pressure requirement when there is no soils report.

COMMITTEE ACTION:

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
A	Y	A	A	A	Y(P)	Y	Y(P)	Y	Y	Y(P)

RESULT: Passed 7/11/12

Reviewed by pool committee and approved 8/9/12

STEERING COMMITTEE RECOMMENDATIONS: Concur