

REVISED AGENDA

UNIFORM BUILDING CODE COMMISSION  
ARCHITECTURAL ADVISORY COMMITTEE  
UNIFIED CODE ANALYSIS COUNCIL  
MEETING

February 3, 2015 9:00 AM

**Sandy City Hall Room 341**

**10000 Centennial Pkwy, Sandy, UT**

*This agenda is subject to change up to 24 hours prior to the meeting.*

Sign attendance sheet

1. Swear in new member
2. Approve minutes from the December 2, 2014 joint meeting
3. Review proposed amendment to Section (F)908.7
4. Review proposal for Wasatch County Fire District
5. Complete review of Chapters 9 of the 2015 IBC and current amendments
6. Review Chapters 10 through 14

INFO ITEMS

- a. IBC Amendment Status Log
- b. IRC Amendment Status Log
- c. IEBC Amendment Status Log

Next Scheduled Meeting: March 3, 2015

If you do not plan on attending this meeting, please call Sharon at 530-6163 or email at [ssmalley@utah.gov](mailto:ssmalley@utah.gov) or [dansjones@utah.gov](mailto:dansjones@utah.gov).



**In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify Dave Taylor, ADA Coordinator, at least three working days prior to the meeting. Division of Occupational and Professional Licensing, 160 East 300 South, Salt Lake City UT 84115, Phone 530-6628 or toll-free in Utah only 866-275-3675.**

## AGENDA

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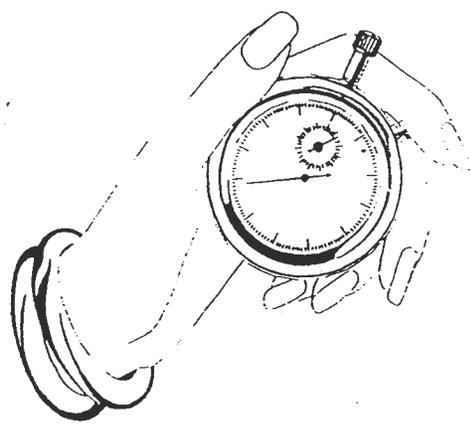
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AGENDA  
ITEM # 1



MINUTES

UNIFORM BUILDING CODE COMMISSION  
ARCHITECTURAL ADVISORY COMMITTEE  
UNIFIED CODE ANALYSIS COUNCIL

December 2, 2014  
Sandy City Hall Room 201  
10000 Centennial Pkwy Sandy, UT

MINUTES

STAFF:

Dan Jones, Bureau Manager  
Sharon Smalley, Board Secretary

ARCHITECTURAL ADVISORY COMMITTEE

|               |                |
|---------------|----------------|
| William Hall  | Chris Jensen   |
| Ron McArthur  | Kenny Nichols  |
| Scott Marsell | Gary Payne     |
| Jerry Jensen  | James Sullivan |

UNIFIED CODE ANALYSIS COUNCIL

|                         |                         |
|-------------------------|-------------------------|
| Paul Bauer              |                         |
| Mike Pedersen (excused) | Thomas Peterson         |
| Jeff Darr (excused)     | Deanne Mousley          |
| Scott Adams             | Andrew Baxter (excused) |
| Casey Vorwaller         | Dave Vickers            |

VISITORS:

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| Rep Fred Cox                         | Amy Coombs, Lobbyist Ideal          |
| David Eager, UDOH/HFLC               | Cory R Solum AIA                    |
| Jim McClintic, Sandy City            | Brad Larson, Unified Fire Authority |
| Rick Conger, Canyons School District |                                     |

MINUTES

A motion was made by James Sullivan to approve the minutes from the November 4, 2014 joint meeting as written. The motion was seconded by William Hall and passed unanimously.

DISCUSSION WITH REP FRED COX

- a. ANSI A117.1 vs ADAAG
- b. INTERIOR DESIGNERS
- c. BUILDING OFFICIALS/  
INSPECTORS INSPECTING  
THEIR OWN JURISDICTIONS  
BUILDINGS

Those present had a discussion on these three topics. Rep Cox spoke to the group and asked for their input on these topics. Dan Jones explained that the Unified Code Analysis Council was formed in order to resolve code differences between the different state agencies. David Eager spoke on behalf of the Department of Health.

The committees agreed that the remaining agenda items will be discussed at the next meeting and the next meeting will be held in February.

Scott Marsell asked the committee members to review a proposal that he put together for carbon monoxide detection and asked that give him their input at the meeting in February.

The meeting adjourned at 10:57.

*Note: These minutes are not intended to be a verbatim transcript but are intended to record the significant features of the business conducted in this meeting. Discussed items are not necessarily shown in the chronological order they occurred.*

# Agenda Item #2

- (10) In IBC, Section (F)908.7, the first sentence is deleted and replaced as follows: Group I or R occupancies located in a building containing a fuel-burning appliance or in a building which has an attached garage shall be equipped with single-station carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL 2034 and be installed and maintained in accordance with NFPA 720 and the manufacturer's instructions. An open parking garage, as defined in Chapter 2, or an enclosed parking garage ventilated in accordance with Section 404 of the *International Mechanical Code* shall not be considered an attached garage. ~~"Groups R-1, R-2, R-3, R-4, I-1, and I-4 occupancies"; the exceptions are deleted and the following sentence is added after the first sentence: "When fuel burning appliances are installed and when they have attached garages-~~ A minimum of one carbon monoxide alarm shall be installed on each habitable level."

In IBC, Section (F)908.7, the following new subsections are added:

"(F)908.7.1 Interconnection. Where more than one carbon monoxide alarm is required to be installed within Group R or I-1 occupancies, the carbon monoxide alarms shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms. Physical interconnection of carbon monoxide alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

(F)908.7.2 Power source. In new construction, required carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery backup. Carbon monoxide alarms with integral strobes that are not equipped with battery backup shall be connected to an emergency electrical system. Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection.

Exception:

1. Carbon monoxide alarms are not required to be equipped with battery backup where they are connected to an emergency electrical system."
2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for hard wiring, without the removal of interior finishes."

- (11) 908.7.3 Group E. A carbon monoxide detection system shall be installed in new buildings that contain Group E occupancies in accordance with IFC, Chapter 9, Sections 908.7.3.1 through 908.7.3.6. A carbon monoxide detection system shall be installed in existing buildings that contain Group E occupancies in accordance with IFC, Chapter 11, Section 1103.9.
- 908.7.2.1 Where required. In Group E occupancies, a carbon monoxide detection system shall be provided where a fuel-burning appliance, a fuel-burning fireplace, or a fuel-burning forced air furnace is present.
- 908.7.2.2 Detection equipment. Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and the manufacturer's instructions, and be listed as complying with UL 2034 and UL 2075.
- 908.7.2.3 Locations. Each carbon monoxide detection system shall be installed in the locations specified in NFPA 720.
- 908.7.2.4 Combination detectors. A combination carbon monoxide/smoke detector is an acceptable alternative to a carbon monoxide detection system if the combination carbon monoxide/smoke detector is listed in accordance with UL 2075 and UL 268.
- 908.7.2.5 Power source. Each carbon monoxide detection system shall receive primary power from the building wiring if the wiring is served from a commercial source. If primary power is interrupted, each carbon monoxide detection system shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than that required for over-current protection.
- 908.7.2.6 Maintenance. Each carbon monoxide detection system shall be maintained in accordance with NFPA 720. A carbon monoxide detection system that becomes inoperable or begins to produce end-of-life signals shall be replaced."

# Agenda Item #3

**RESOLUTION 14-02**

**AN ORDINANCE OF THE WASATCH COUNTY FIRE PROTECTION DISTRICT ADDING TO THE WASATCH COUNTY FIRE CODE**

**WHEREAS**, the Administrative Control Board of the Wasatch County Fire Protection District (“Board”), in an effort to more adequately ensure that the fire protection needs of the residents of the Wasatch County Fire Protection District (“District”) are met, wishes to adopt some amendments made to the NFPA, and amend the Wasatch County Fire Code; and

**WHEREAS**, the Board held a public hearing pursuant to Utah Code pertaining to the adoption of the additions to the Fire Code; and

**WHEREAS**, the Board in the public hearing explained the reasons for the additions and received and considered public comments pertaining to the changes; and

**WHEREAS**, public notice, meeting the requirements of U.C.A. § 17B-1-643, of the public hearing was published in a newspaper of general circulation in the District pursuant to U.C.A. § 17B-1-643; and

**WHEREAS**, the Board has determined that the changes to the Fire Code is necessary to better provide the fire protection needs of District residents and to better protect life, limb, and property; and

**NOW THEREFORE** be it resolved by the Board of the Wasatch County Fire Protection District as follows:

The Wasatch County Fire Code is hereby amended as follows, and the following amendments to the NFPA apply:

# WASATCH COUNTY FIRE DISTRICT

## Fire Sprinkler Design and Installation Requirements

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|                                    |           |
|------------------------------------|-----------|
| <b>NFPA 13 2010 Edition.....</b>   | <b>3</b>  |
| <b>NFPA 13 R 2010 Edition.....</b> | <b>4</b>  |
| <b>NFPA 13 D 2010 Edition.....</b> | <b>5</b>  |
| <b>IFC 2012 Edition.....</b>       | <b>9</b>  |
| <b>Project Requirements.....</b>   | <b>11</b> |
| <b>Alternative Methods.....</b>    | <b>13</b> |

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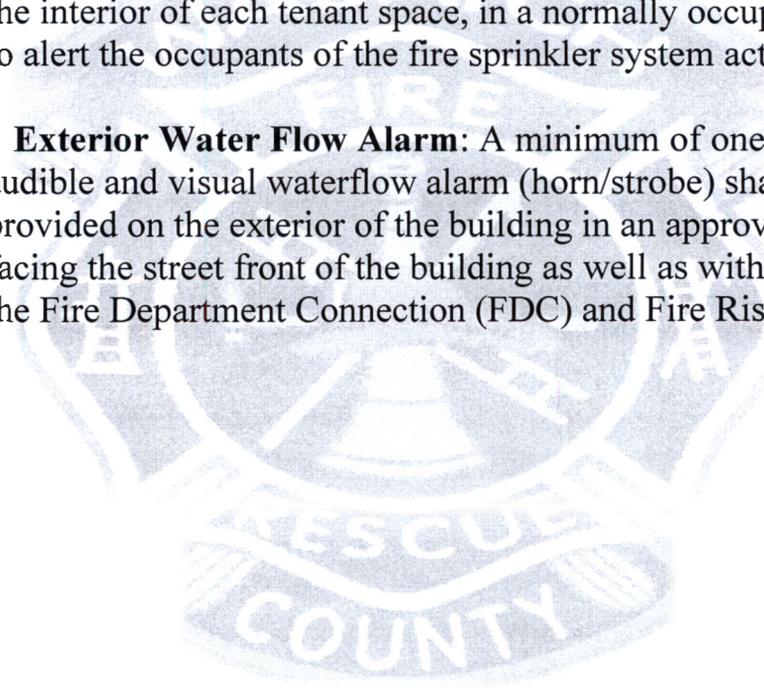
## 1. NFPA 13 – 2010 EDITION IS MODIFIED AS FOLLOWS:

1.1 **Section 8.17.1.1 – Local Water Flow Alarms:** Amended as follows by adding the following new subsections after 8.17.1.1:

1.1.1 **8.17.1.1.1 - Single Tenant Occupancies:** An approved audible/visual waterflow alarm (horn/strobe) shall be provided in the interior of the building, in a normally occupied location, to alert occupants of the fire sprinkler system activation.

1.1.2 **8.17.1.1.2 – Multi-Tenant Occupancies:** An approved audible/visual waterflow alarm (horn/strobe) shall be provided in the interior of each tenant space, in a normally occupied location to alert the occupants of the fire sprinkler system activation.

1.1.3 **Exterior Water Flow Alarm:** A minimum of one approved audible and visual waterflow alarm (horn/strobe) shall be provided on the exterior of the building in an approved location, facing the street front of the building as well as within 15 feet of the Fire Department Connection (FDC) and Fire Riser Room.



## 2. NFPA 13R -2010 EDITION IS MODIFIED AS FOLLOWS:

2.1 **Section 6.8 – Valves** Add a new section 6.8.8 as follows:

2.1.1 **6.8.8 – Floor/Zone Controls:** Individual floor/zone control valves shall be used at the riser at each floor for connections to piping serving floor areas in excess of 5,000 square feet.

2.2 **Section 6.16 – Alarms:** Amended as follows by adding the following new subsections after 6.16.1:

2.2.1 **6.16.1.1 – Local Waterflow Alarms:** An approved audible / visual waterflow alarm (horn / strobe) shall be provided in the interior of each residential unit / tenant space, in a normally occupied location to alert the occupants of the fire sprinkler activation.

2.2.2 **6.16.1.2 – Exterior Waterflow Alarm:** An approved audible / visual waterflow alarm (horn /strobe) shall be provided on the exterior of the building in an approved location, facing the street front of the building.

### **3. NFPA 13D – 2010 EDITION IS MODIFIED AS FOLLOWS:**

**3.1 4.1.4 – Antifreeze Systems – Subsection (4):** Amended section 4.1.3 by adding a new subsection (4)

**3.1.1 4.1.3 (4) – Existing systems;** Existing fire sprinkler systems with an antifreeze solution shall be tested annually using an approved method, before the onset of freezing weather. If any of the samples exhibits a concentration lower than what is necessary to keep the fluid from freezing, the system shall be drained completely and replaced with an acceptable concentration of 38% premixed propylene glycol or 48% premixed glycerin.

**3.2 4.2 Hydrostatic Tests:** 4.2.1 is deleted and replaced with the following:

**3.2.1 4.2.1:** Where a fire department connection (FDC) is not provided, the system shall be hydrostatically tested for leakage at a pressure of not less than 100 p.s.i or at normal system operating pressure, whichever is higher.

**3.3 7.5 Sprinklers:** Amended by adding the following at the new subsection after 7.5.4:

**3.3.1 7.5.4.1 – Garage Area:** Sprinklers within a garage area shall be of the Quick Response (QR) Sprinkler type as defined by NFPA-13, section 3.6.4.7

**3.4 7.6 – Alarms:** Amended by adding the following new subsections:

**3.4.1 7.6.1 Exterior Waterflow Alarm:** An approved audible and visual waterflow alarm (horn / strobe) shall be provided on the exterior of the building in an approved location, facing the street front of the building.

**3.4.2 7.6.2- Interior Alarm:** An approved interior fire alarm notification appliance shall be required (1) per floor or must be audible throughout the dwelling as approved by the fire code official.

**3.5 8.1 Design Criteria:** Amended by adding a new subsection after 7.5.4:

**3.5.1 7.5.4.1 – Garage Area:** The system shall be designed in accordance with NFPA 13, for a Light Hazard Occupancy with quick response (QR) sprinkler heads.

**3.6 8.1.2 – Number of Design Sprinklers:** Amended by adding a new subsection 8.1.2.1:

**3.6.1 8.1.2.1 – Garages:** The number of design fire sprinklers under a flat, smooth, horizontal ceilings shall include all sprinklers within a compartment, up to a maximum of two (2) sprinklers, that require the greatest hydraulic demand.

**3.7 8.3.3 – Antifreeze Systems:** Amended as follows:

**3.7.1 8.3.3 – Antifreeze Systems:** Pursuant of the recent concerns with the use of anti-freeze additives in fire sprinkler systems, **the use of anti-freeze additives in the installation of any fire sprinkler system will no longer be permitted.**

**3.8 Freeze Protection:** Sprinkler piping shall be prohibited from installation in unconditioned spaces subject to freezing e.g. exterior walls, attics and other unconditioned spaces that may be subject to freezing. When piping is unable to avoid unconditioned space the following are approved methods of protection.

**3.8.1 Dry Pipe System**

**3.8.2 Preaction Systems**

**3.8.3 Roof Underside Spray Foam Method:** All area of the roof spaces shall be covered sufficiently to prevent freezing temperatures from effecting sprinkler piping and meeting Energy Code Requirements.

**3.8.4 Insulation Protected-** piping shall be installed in the bottom third of attic trusses and the interior walls. Care shall be taken to not compress insulation above piping. Insulation shall be as per Energy Code Requirements.

**3.8.4.1 Tenting Method:**

**3.8.4.1.1 Batt Insulation:** Must be installed so that there are no gaps to allow air movement from conditioned space to unconditioned and shall extend a minimum of (12) twelve inches beyond end of piping.

**3.8.4.1.2 Blown In Insulation:** Insulation shall be prevented from falling below piping by an approved method.

**3.8.4.1.3 Box In Method:** Piping shall be “boxed-in” with a minimum ½” gypsum board, ½” plywood sheeting or insulation foam board on all unconditioned sides of the piping and additional insulation added as per Energy Code Requirements.

**3.8.5 Other methods as approved by WCFD.**

**3.8.6 Limited Application Antifreeze.** If approved by the Wasatch County Fire District (WCFD), the general contractor and fire sprinkler contractor must demonstrate that no other viable alternative is available. If approved by WCFD, the general contractor and fire sprinkler contractor must submit a request to WCFD for the use of an antifreeze solution, in a limited application, as an alternative materials and methods in accordance with section 104.9 of the IFC, along with an explanation of why the extreme cold temperatures cannot be avoided within the structure were the fire sprinkler piping will be installed.

**3.9 Antifreeze Solutions:** Subsection 8.3.3.2.3 is deleted and replaced with the following:

**3.9.1 8.3.3.2.3** When approved by the WCFD, the anti freeze solution installed in new fire sprinkler systems shall not exceed a maximum concentration of 38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may not exceed 150 gallons. [Utah State Amendment-IFC 903.3.1.1.2/903.3.1.1.2/903.3.1.1.3]

**3.9.2** Limited application antifreeze system must be installed as per requirements of NFPA 2010 edition.

**3.9.3** If antifreeze is approved for use, system pressure must be regulated so as to prevent pressure from exceeding 100 psi.

**3.10 8.3.3.5** Amended by adding a new subsection 8.3.3.5.1:

**3.10.1 8.3.3.5.1- Antifreeze Tag and Information:** A tag shall be attached to the riser indicating the date the antifreeze solution was tested. The tag shall also indicate the type and concentration of antifreeze solution by volume with which the system is filled, the name of the contractor that tested the antifreeze solution, the contractor's license number, and a warning to test the concentration of the antifreeze solutions at yearly intervals. [Utah State Amendment – IFC 903.5.1]

**3.11 8.4.3 – Minimum Pipe Size:** Amended by adding a new subsection 8.4.11:

**3.11.1 8.4.11 – Garage Area:** Minimum pipe size, including that for steel pipe, copper, listed chlorinated polyvinyl chloride (CPVC), polybutylene (PB) or other listed piping, shall be one (1) inch and installed in accordance with NFPA-13 for a Light Hazard Occupancy with quick response (QR) sprinkler heads.

**3.12 8.6 – Location of Sprinklers:** Section 8.6.4 is deleted and replaced with the following:

**3.12.1 8.6.4.1 – Garages:** Garages that are located directly beneath any living space within the residential structure shall be provided with fire sprinkler protection throughout the garage area.

**3.12.1.1 8.6.4.2 – Attached Garages and Car Ports:** Attached garages and/or car ports that are attached directly to the residential structure with NO living space above shall not require sprinkler protection if Building Code requirement for fire rated doors/walls are met.

#### **4 International Fire Code - 2012 edition is modified as follows:**

**4.1 Section 504: Access to Building Openings and Roofs** - Is modified by adding a new section 504.4 Required Access to Fire Sprinkler Riser Rooms.

**4.1.1 Section 504.4 Required Access to Fire Sprinkler Risers Rooms.** In other than one and two family dwellings, direct exterior access shall be provided and readily accessible for emergency access by the fire department to all fire sprinkler riser rooms. An approved access walkway leading from fire apparatus access roads to exterior openings for the fire sprinkler riser room shall be provided. When direct access is not provided to the fire sprinkler riser room, an electrically supervised post indicator valve (PIV) in accordance with section 903.4 of this code is permitted.

#### **4.2 Section 507.1 Required Water Supply.**

**4.2.1** Required fire flow shall be as required by **IFC Appendix B 2003 edition** (as per State Code 15A-5-401) or state code **15A-5-203**.

**4.2.2 507.2 Type of Water Supply** is deleted and replaced with the following:

**4.2.2.1.1** Water supplies required by 4.2.1 shall be installed so as to provide the fire hydrant with a constant pressure and approved fire flow for fire fighting operations as well as provide an access point into the tank to accommodate drafting operations.

**4.2.3 Fire Sprinklers Required in Accessory Structures**-Where sufficient Fire Flows are not provided for accessory structures, Fire Sprinklers may be required if any of the following exist:

**(A)** Structure is constructed in designated Wildland Urban Interface area.

**(B)** Structure has a second level with only one means of egress.

**(C)** Structure is provided with plumbing and mechanical appliances.

(D) Structure is 500 square feet or more as defined in IFC Appendix B104.1. 2003 Edition.

- 4.3 **Antifreeze Systems:** Pursuant to the recent concerns with the use of anti-freeze additives in fire sprinkler systems, **the use of anti-freeze additives in the installation of any fire sprinkler system will no longer be permitted.**

Where protection of fire sprinkler pipes from freezing is a concern, options other than the use of antifreeze solution must be used. Such options include running the fire sprinkler piping in heated/warm spaces, tenting of the insulation over the fire sprinkler piping, installation of dry-pipe fire sprinkler systems, and preaction fire sprinkler systems.

## **5 IFC 104.9 Alternative Materials and Methods**

- 5.1 In accordance with IFC 104.9 Alternative Materials and Methods, other means of freeze protection are allowed (including anti-freeze in limited application) as **approved** by the Wasatch County Fire District.
- 5.2 **If approved by WCFD, the general contractor and fire sprinkler contractor must submit a request to WCFD for the use of an antifreeze solution, in a limited application, as an alternative materials and methods in accordance with section 104.9 of the IFC, along with an explanation of why the extreme cold temperatures cannot be avoided within the structure were the fire sprinkler piping will be installed.**
- 5.3 **If approved by WCFD, the general contractor and fire sprinkler contractor must demonstrate that no other viable alternative is available.**
- 5.4 **EXISTING SYSTEMS**

**September 30, 2022: Effective September 30, 2022, all existing fire sprinkler systems with antifreeze additives must be replaced with either a listed antifreeze solution (not currently available), or existing fire sprinkler system must be converted to a water only, with modifications made to protect the existing fire sprinkler pipes from freezing.**

## **6 Project Requirements Prior to Permit Approval**

- 6.1 Prior to permit approval, WCFD must receive and review all Fire Sprinkler plans, calculations and other pertinent information pertaining to the Fire Suppression System.
- 6.2 Fire Sprinkler plan, calculations, and review must be accompanied by the project physical address, lot number and building permit number.

## **7 Project Completion:** At the completion of the project, the fire sprinkler contractor must provide and/or verify that the following has been completed:

- 7.1 **Hydraulic Design Information Sign:** Provide a Hydraulic Design Information Sign for each Design Area on the riser to indicate the location of the design area, the discharge densities over the design area, the required flow and residual pressure demand at the base of the riser and the hose stream demand included in addition to sprinkler demand. [NFPA 13-24.5]
- 7.2 **Electric Horn and Strobe:** Verify that power has been provided to the outside electric horn and strobe/interior alarms and that all are operational and in an approved location.
- 7.3 **Pressure Gauges:** Provide pressure gauges such that a gauge is located above and below the back flow prevention device and/or check valve on anti-freeze system, to measure the supply and system pressures.
- 7.4 **Sprinkler Systems Equipped with Booster Pumps:** All equipment related to the operation of supplied booster pump must be labeled and distinguishable to prevent system failure.
- 7.5 **Address for Structure/Facility/Residence:** Verify that the General Contractor has provided the correct address identification for the structure/facility/residence.  
**Note:** If the address is not installed, a final inspection will not be conducted.
- 7.6 **Stock of Spare Sprinklers:** Provide a supply of spare fire sprinklers in accordance with the applicable standard:
  - 7.2.1 NFPA 13 - Section 6.2.9 - Stock of Spare Sprinklers.
  - 7.2.2 NFPA 13R - Section 11.19 - Sprinklers.
  - 7.2.3 NFPA 13D - Not Applicable.
- 7.7 **System Acceptance.** Upon completion of 7.1 through 7.6, system shall be tested to verify system will operate as per design criteria

submitted by the Fire Sprinkler Contractor to WCFD. Tests shall be approved by WCFD.



# WASATCH COUNTY FIRE DISTRICT FIRE SPRINKLER DESIGN

Project Address \_\_\_\_\_

Permit Number \_\_\_\_\_ Lot Number \_\_\_\_\_

Will structure be provided with year round heat to maintain interior to a minimum of 40 degrees Fahrenheit?

YES

NO

If NO, how will piping be protected from freezing? Explain on Rear.

What method of freeze protection is being utilized? SELECT ONE

Dry Pipe

Pre Action

Wet Pipe (WARM WALL)

Wet Pipe (Insulation Protected)

Other SPECIFY \_\_\_\_\_

If OTHER, please specify the reason none of the above methods are attainable on rear.

If OTHER, please provide signatures from General Contractor and Sprinkler Contractor acknowledging potential risks associated with system change below. If antifreeze is to be used, the General Contractor and Fire Sprinkler Contractor must assume ALL responsibility and liability by signing below. General Contractor and Fire Sprinkler Contractor must explain all concerns and risks of all installation possibilities with home owner prior to signing and by signing below acknowledging homeowner is aware of potential risk. WCFD must perform an onsite inspection to verify no other viable options exist.

Fire Sprinkler Contractor  
Company \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Signature \_\_\_\_\_  
Date \_\_\_\_\_

General Contractor  
Company \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Signature \_\_\_\_\_  
Date \_\_\_\_\_

**THIS MUST ACCOMPANY THE THIRD PARTY PEER REVIEW**

# Info Items

IBC AMENDMENT STATUS LOG  
 PENDING  
 G:\Commission\067.wpd

| Section to Amend | Proponent & Agency      | Approved/Denied by Committee | Commission Appr/Deny for Hearing | Published | Public Hearing | Commission Appr/Deny Amendment | Effective Date |
|------------------|-------------------------|------------------------------|----------------------------------|-----------|----------------|--------------------------------|----------------|
| 307.1            | Architectural - Unified | 10-7-14                      |                                  |           |                |                                |                |
| 308.2            | Architectural - Unified | 10-7-14                      |                                  |           |                |                                |                |
| (F)908.7         | Scott Marsell           |                              |                                  |           |                |                                |                |
|                  |                         |                              |                                  |           |                |                                |                |
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IRC AMENDMENT STATUS LOG  
PENDING

| Section to Amend | Proponent & Agency | Approved/Denied by Committee | Commission Appr/Deny for Hearing | Published | Public Hearing | Commission Appr/Deny Amendment |
|------------------|--------------------|------------------------------|----------------------------------|-----------|----------------|--------------------------------|
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IEBC AMENDMENT STATUS LOG  
PENDING

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|                  |                    |                              |  |                                  |           |                |                                |                |

Section[F]915 is deleted and replaced with the following:

**[F] 915 Where required.** Group I-1, I-2, I-4 and R occupancies located in a building containing a fuel-burning appliance or in a building which has an attached garage shall be equipped with single-station carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL 2034 or UL 2075 and be installed and maintained in accordance with NFPA 720 and the manufacturer's instructions. An open parking garage, as defined in Chapter 2, or an enclosed parking garage ventilated in accordance with Section 404 of the *International Mechanical Code* shall not be considered an attached garage. A minimum of one carbon monoxide alarm shall be installed on each habitable level.

**[F] 915.1 Interconnection.** Where more than one carbon monoxide alarm is required to be installed within Group I-1, I-2, I-4 or R occupancies, the carbon monoxide alarms shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms. Physical interconnection of carbon monoxide alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

**[F] 915.2 Power Source.** In new construction, required carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery backup. Carbon monoxide alarms with integral strobes that are not equipped with battery backup shall be connected to an emergency electrical system. Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection.

**Exception:**

1. Carbon monoxide alarms are not required to be equipped with battery backup where they are connected to an emergency electrical system.
2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for hard wiring, without the removal of interior finishes.

**[F] 915.3 Group E.** A carbon monoxide detection system shall be installed in new buildings that contain Group E occupancies in accordance with IFC, Chapter 9, Section 915. A carbon monoxide detection system shall be installed in existing buildings that contain Group E occupancies in accordance with IFC, Chapter 11, Section 1103.9.

**915.3.1 Where Required.** In Group E occupancies, a carbon monoxide detection system shall be provided where a fuel-burning appliance, a fuel-burning fireplace, or a fuel-burning forced air furnace is present.

**915.3.2 Detection equipment.** Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and the manufacturer's instructions, and be listed as complying with UL2034 for single station and UL 2075 for system detectors.

**915.3.3 Locations.** Each carbon monoxide detection system shall be installed in the locations specified in NFPA 720.

**915.3.4 Combination detectors.** A combination carbon monoxide/smoke detector is an acceptable alternative to a carbon monoxide detection system if the combination carbon monoxide/smoke detector is listed in accordance with UL 2075 and UL 268.

**915.3.5 Power source.** Each carbon monoxide detection system shall receive primary power from the building wiring if the wiring is served from a commercial source. If primary power is interrupted, each carbon monoxide detection system shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than that required for over-current protection.

**915.3.6 Maintenance.** Each carbon monoxide detection system shall be maintained in accordance with NFPA 720. A carbon monoxide detection system that becomes inoperable or begins to produce end-of-life signals shall be replaced.

**Section 907.2.3 Group E. is deleted and replaced with:**

**907.2.3 Group E.** A manual fire alarm system that activates the occupant notification system in accordance with Section (F)907.5 and installed in accordance with Section (F)907.6 and State Fire Marshal Administrative Rule R710-4, shall be installed in Group E occupancies.