

# Self-Certification Program 2018 Fire Code

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# Fire Code Self Certification Guide

## Overview of Fire Code Requirements for Self Certification Professionals

- Fire Site Plan Requirements
- Fire Systems Plans Review Requirements



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<https://www.phoenix.gov/fire/prevention/fire-code>

# Fire Code Self Certification Guide

## General Information

### Fire Site Plan Review Process

- Pre-Application Site Plan (PAPP)
- Preliminary Site Plan (PRLM)
- Final Site Plan (SCMJ)

**NOTE: All new Self Certification building plans will not be accepted without Final Site Plan Approval.**



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# Fire Code Self Certification Guide

GUIDE TO:  
**SUCCESSFUL PLAN REVIEW**



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## Fire Systems Plans Review Process

- 1<sup>st</sup> Plan Review Submittal
- 2<sup>nd</sup> Plan Review Submittal  
(Denial)

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## 2018 Phoenix Fire Code Chapter 1 Administration

# Administration

## 2018 Phoenix Fire Code

### Section 105 Applicant responsibility.

It shall be the responsibility of the applicant to ensure that the *construction documents* include all of the fire protection requirements and the shop drawings are complete and in compliance with the applicable codes and standards.



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## 2018 Phoenix Fire Code

### Section 105 Approved Documents.

*Construction documents approved by the fire code official are approved with the intent that such construction documents comply in all respects with this code. Review and approval by the fire code official shall not relieve the applicant of the responsibility of compliance with this code.*



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## Section 105 Permits

- Access gates, *Automatic and Manual* (F157)
- Access, Emergency (F481)
- Address directories (F482)
- Automatic fire-extinguishing system (F100, F105, F159)
- Fire alarm and detection systems and related equipment (F122, F129, F175)
- Fire Pumps and related equipment (F117)
- Private fire hydrants (F112, F115)
- Special extinguishing system (F132, F134, F238)
- Standpipe systems (See Automatic sprinklers)
- Underground fire lines (F112, F115)

**NOTE:** Over-the-counter permits may also be obtained.



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# Definitions

**Maintenance.** The repair or replacement of defective or damaged equipment, systems or programming with an exact duplicate model. Maintenance also includes testing of equipment.

**Modification.** Any change or reprogramming of any existing fire and life safety equipment or system regulated by this code, that is not the exact same model, area or programming from original equipment or installation.



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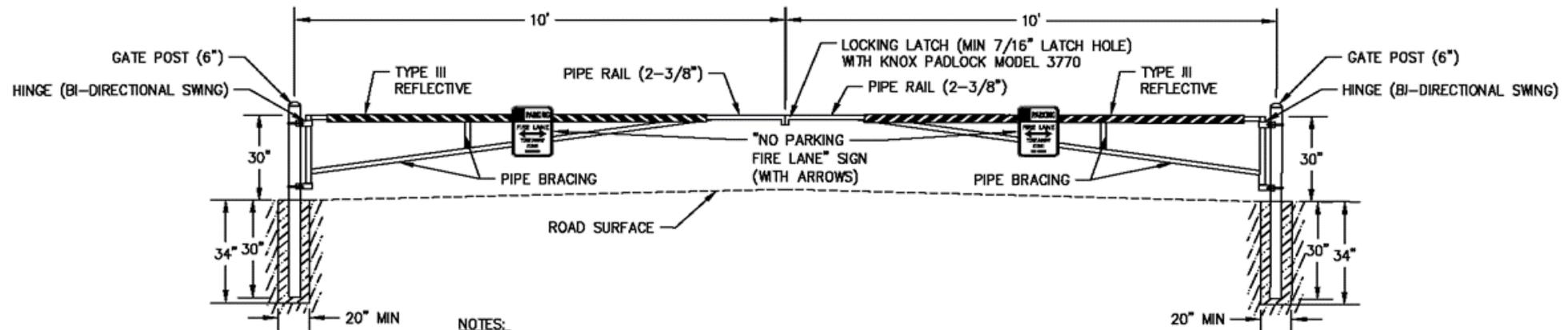
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# Fire Code Self-Certification Guide

## 2018 Phoenix Fire Code Chapter 5 Fire Service Features



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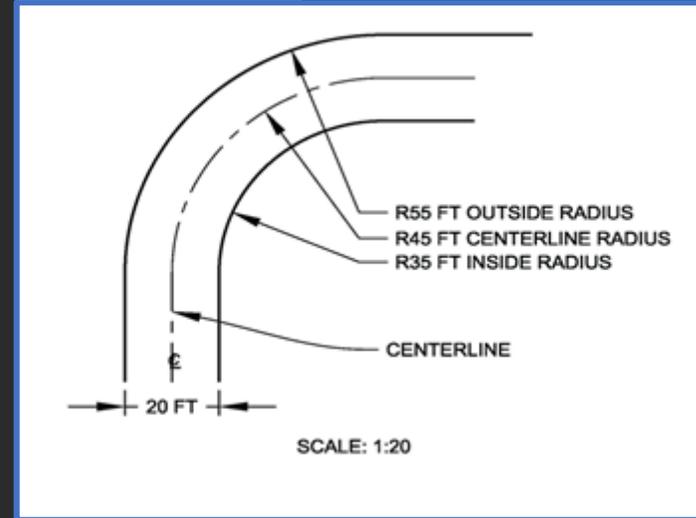
### NOTES:

1. ALL MATERIALS SHALL BE SCHEDULE 40, GALVANIZED STEEL PIPE.
2. PROTECTIVE FINISH SHALL BE HOT-DIPPED, GALVANIZED GRAY.
3. CONTRACTOR TO INSTALL NO PARKING, FIRE LANE SIGN ON EACH SIDE OF GATE MEETING THE REQUIREMENTS OF OFC D103.6 AS AMENDED BY CITY OF HILLSBORO HMC 11.28.010.
4. CONTRACTOR TO INSTALL TYPE III REFLECTIVE STRIPING ON BOTH SIDES OF GATE. STRIPING SHALL BE ALTERNATING RED/WHITE STRIPES, 6" WIDE & AT 45° ANGLE.
5. CONCRETE SHALL BE 3,000 PSI.
6. COORDINATE INSTALLATION OF KNOX PADLOCK WITH CITY OF HILLSBORO FIRE DEPARTMENT.

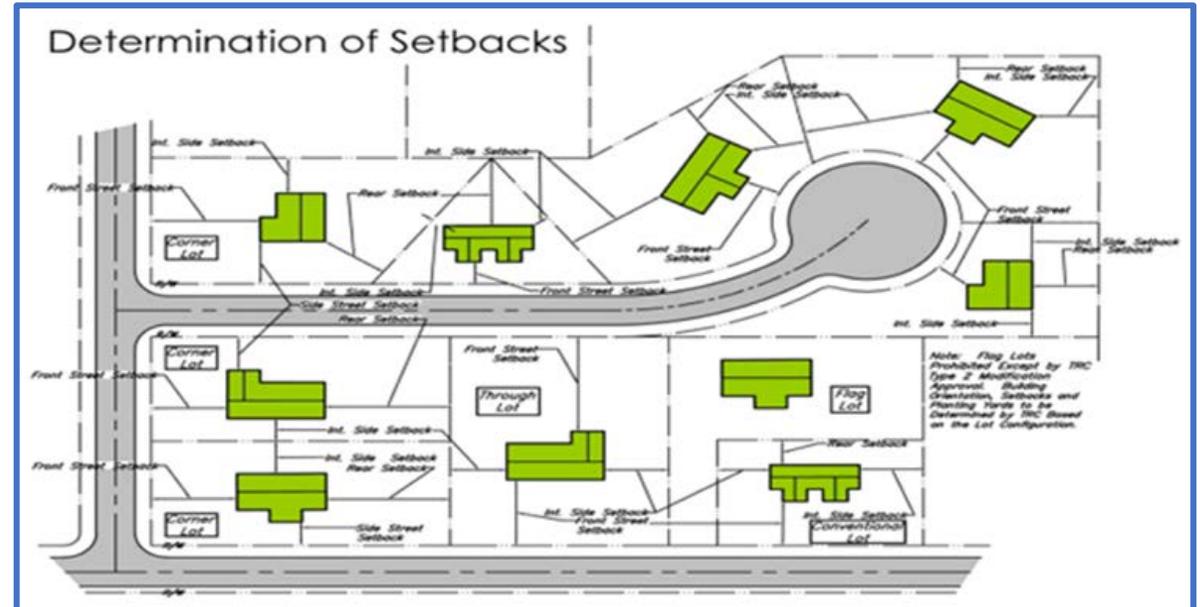
# Fire Service Features

## Fire Site Plan Requirements

- 503 Fire Apparatus Access Roads (Fire Lanes)
- 507 Fire Protection Water Supplies (Fire Hydrants)



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# Fire Service Features

- **Section 507** Water supplies for manual fire suppression and fire hydrants shall be in accordance with Appendix B.
- **Appendix B** Buildings other than one- and two-family dwellings. The minimum fire-flow and flow duration for buildings other than one- and two-family dwellings shall be specified in Appendix B105.1.
- Exception: A reduction in required fire-flow of up to 50%, as approved, is allowed when the building is provided with an approved NFPA 13 automatic sprinkler system. The resulting fire-flow shall not be less than 1,500 gallons per minute for the prescribed duration as specified in Table 105.1. No reductions are allowed for NFPA 13D or 13R systems other than Group R-3 single family homes.

## APPENDIX B

**TABLE B105.1  
MINIMUM REQUIRED FIRE-FLOW AND FLOW DURATION FOR BUILDINGS**

FIRE-FLOW CALCULATION AREA (square feet)

Type IA and IB <sup>a</sup>	Type IIA and IIA <sup>a</sup>	Type IV and V-4 <sup>a</sup>	Type III and III <sup>a</sup>	Type V-3 <sup>a</sup>	FIRE-FLOW (gallons per minute) <sup>b</sup>	FLOW DURATION (hours)
0-22,700	0-12,700	0-8,200	0-5,900	0-3,600	1,500	2
22,701-30,200	12,701-17,000	8,201-10,900	5,901-7,900	3,601-4,800	1,750	
30,201-38,700	17,001-21,800	10,901-12,900	7,901-9,800	4,801-6,200	2,000	
38,701-48,900	21,801-24,200	12,901-17,000	9,801-12,600	6,201-7,700	2,250	
48,901-59,000	24,201-33,200	17,001-21,300	12,601-15,400	7,701-9,400	2,500	
59,001-70,900	33,201-39,700	21,301-25,900	15,401-18,400	9,401-11,300	2,750	
70,901-83,700	39,701-47,000	25,901-30,000	18,401-21,800	11,301-13,600	3,000	
83,701-97,700	47,001-54,900	30,001-35,200	21,801-25,900	13,601-15,600	3,250	
97,701-112,700	54,901-63,600	35,201-40,600	25,901-29,300	15,601-18,000	3,500	
112,701-128,700	63,601-72,600	40,601-46,400	29,301-33,500	18,001-20,600	3,750	
128,701-145,900	72,601-82,000	46,401-52,500	33,501-37,900	20,601-23,300	4,000	3
145,901-164,200	82,001-92,400	52,501-59,000	37,901-42,700	23,301-26,300	4,250	
164,201-183,400	92,401-103,800	59,001-66,600	42,701-47,700	26,301-29,300	4,500	
183,401-203,700	103,801-114,600	66,601-75,300	47,701-53,000	29,301-32,600	4,750	
203,701-225,200	114,601-126,700	75,301-81,300	53,001-58,600	32,601-36,000	5,000	
225,201-247,800	126,701-139,400	81,301-89,200	58,601-65,600	36,001-39,600	5,250	
247,801-271,200	139,401-152,600	89,201-97,700	65,601-70,000	39,601-43,400	5,500	
271,201-295,800	152,601-166,500	97,701-106,500	70,001-77,000	43,401-47,400	5,750	
295,801-Greater	166,501-Greater	106,501-115,800	77,001-83,700	47,401-51,700	6,000	
---	---	115,801-125,500	83,701-90,600	51,701-55,700	6,250	
---	---	125,501-135,500	90,601-97,000	55,701-60,200	6,500	
---	---	135,501-145,800	97,001-106,800	60,201-64,800	6,750	
---	---	145,801-156,700	106,801-113,200	64,801-69,600	7,000	
---	---	156,701-167,900	113,201-121,300	69,601-74,600	7,250	
---	---	167,901-179,400	121,301-129,600	74,601-79,800	7,500	
---	---	179,401-191,400	129,601-138,500	79,801-85,000	7,750	
---	---	191,401-Greater	138,501-Greater	85,001-Greater	8,000	

FIG. 105.1 square feet = 0.0929 m<sup>2</sup>; 1 gallon per minute = 3.785 L/min; 1 pound per square inch = 6.895 kPa.

a. Types of construction are based on the International Building Code.

b. Measured at 20 psi residual pressure.



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# Fire Service Features

## Permits Required:

- Premises Identification (Address numbers)
  - Emergency Access Permit
  - Address Directory
- Fire Protection Water Supplies
  - Underground Fire lines
  - Offsite/Onsite Combination Plans
  - Onsite Only
  - AFP Plans (Customer will be sent to 438 N. Adams)
- Fire Protection, Equipment Identification (Signage)
  - Automatic Gates
  - Manual Gates



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# Automatic Sprinklers

## 2018 Phoenix Fire Code

### Chapter 9 Fire Protection Systems



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# Automatic Sprinklers

## 903: Automatic Sprinkler System

**903.1 Bret Tarver Sprinkler Ordinance.** An approved automatic sprinkler system shall be installed throughout all levels of all new Group A, B, E, F, H, I, M, R-1, R-2, R-4, and S occupancies of more than zero square feet and throughout all Group R-3 occupancies built under the International Residential Code and Group U occupancies of more than 5,000 square feet.

Provide the type of sprinkler systems (NFPA 13D/NFPA 13R/NFPA13)

NFPA 13D: Standard for the installation of sprinkler systems for one and two family dwellings and manufactured homes

NFPA 13R: Standard for the installation of sprinkler systems in low-rise residential occupancies

NFPA 13: Standard for the installation of sprinkler systems



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# Automatic Sprinklers

## 903: Partially Sprinklered Buildings

When existing non-sprinklered buildings of mixed occupancy are required to install sprinklers based on a change of occupancy classification, sprinklers shall be installed throughout the fire area that includes the new occupancy. The fire-resistance rating of fire barriers or horizontal assemblies separating sprinklered and non-sprinklered fire areas shall be a minimum of 2 hours. Fire department connection signage shall be in accordance with Section 912. (Partial sprinklers serving only this part of floor plan)

Supply shall be hydraulically sized to serve the entire building eventually.



# Automatic Sprinklers

## Monitoring

Alarm, supervisory and trouble signals shall be distinctly different and shall be automatically transmitted to an *approved* supervising station or, when *approved* by the *fire code official*, shall sound an audible signal at a constantly attended location.

## Exceptions:

1. Underground key or hub valves in roadway boxes provided by the municipality or public utility are not required to be monitored.
2. Backflow prevention device test valves located in limited area sprinkler system supply piping shall be locked in the open position.
3. In building occupancies in Group A-2 that do not exceed 5,000 square feet.
4. Group E and H shall be monitored at 0 square feet.
5. All other buildings occupancies, that do not exceed 12,000 square feet.
6. Supervisory service is not required for automatic sprinkler systems in one- and two-family dwellings other than R-4.



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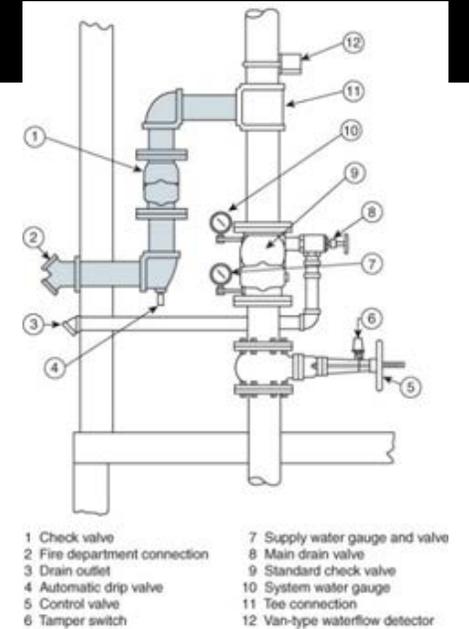
# Fire Department Connections

## PFC 912: Fire Department Connections

**912.2 Location.** The location of fire department connection shall be approved by the fire code official.

A site plan detail shall be submitted to the fire code official for approval as part of the construction documents.

**912.2.1 Visible location.** Fire department connections shall be located on the street side of buildings, fully visible and recognizable from the street or nearest point of fire department vehicle access.



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# Fire Alarm and Detection Systems

**Design documents.** (This code section outlines the requirements for submitting Fire Alarm plans.)

**Fire alarm shop drawings.** Shop drawings for fire alarm systems shall be submitted for review and approval prior to system installation. (See fire code for required items.)



# Fire Alarm and Detection Systems

**Where Fire Alarms required – new buildings and structures. AN approved fire alarm system shall be installed in accordance with fire code and NFPA 72.**

**(NOTE: Ensure Occupancy Group and Occupant load are shown on plans.)**

## **Audible Alarms:**

Audible alarm notification appliances shall be provided and emit a distinctive sound that is not to be used for any purpose other than that of a fire alarm. Group A, B, E, F, H, I, M, R, S and U occupancies shall meet Public Mode Audible Requirements of NFPA 72.



# Fire Alarm and Detection Systems

**Where Fire Alarms required – new buildings and structures. An approved fire alarm system shall be installed in accordance with fire code and NFPA 72.**

## **Visual Alarm:**

Visual alarm notification appliances shall be provided in accordance with Section 907. (Coverage shall be provided in all public and common areas.)



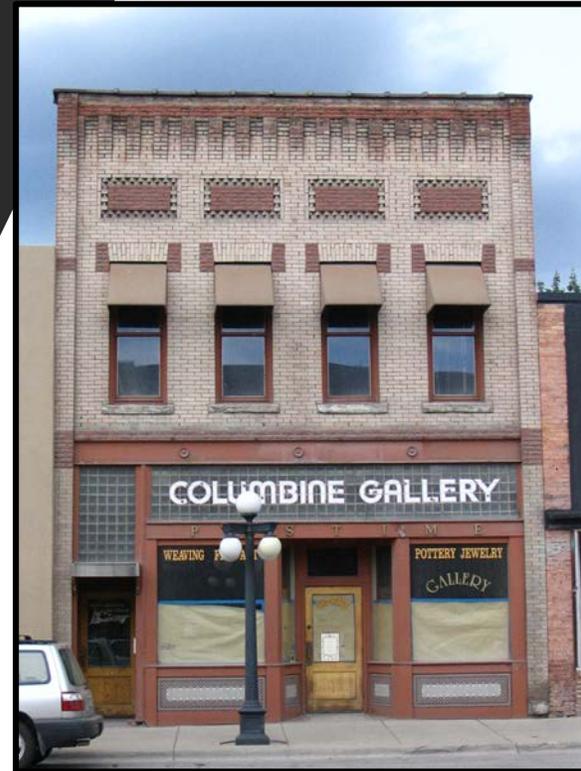
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## 2018 Phoenix Fire Code

### Chapter 11 Construction for Existing Buildings



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# Existing Buildings

## 2018 Phoenix Fire Code

**Scope.** The provisions of this chapter shall apply to existing buildings constructed prior to the adoption of this code.

**Intent.** The intent of this chapter is to provide a minimum degree of fire and life safety to persons occupying existing buildings by providing minimum construction requirements where such existing buildings do not comply with the minimum requirements of the *International Building Code*.

**See Table 1103.1 in 2018 Phoenix Fire Code.**



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# Existing Buildings

## 2018 Phoenix Fire Code

### **Sprinkler systems.**

All of the retro-active Brett Tarver Ordinance requirements may be found in Chapter 11 as well as Chapter 9.



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# Existing Buildings

## 2018 Phoenix Fire Code

### Fire Alarm & Detection Systems

When an existing building is required to install a fire alarm system based on a change of occupancy classification, use or retroactive requirements per the building or fire code, fire alarm devices shall be installed throughout the area.

New fire panels are considered **new systems** and require updating to minimum code for audibility and visual in all public and common areas.



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# Fire Code Self-Certification Guide

## FIRE PLAN REVIEW PERSONNEL

**Karen Roberts**

**602-495-5586**

**Greg Preston**

**602-534-2639**

**Karen Mikus (contractor)**

**cell 602-326-9191**



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# Questions?



**Amos Reed**  
**Fire Prevention Supervisor**  
**602-262-4784**  
**[amos.reed@phoenix.gov](mailto:amos.reed@phoenix.gov)**



# Fire Code Self-Certification Guide

## Construction Documents

- Scope of Work
- Building Information  
(Occupancy Classification, Building Area, Type of Construction, Occupant Load, etc.) Provide Code Summary Chart/ Project Data
- Applicable Codes and Standards
- Automatic Sprinkler System (NFPA 13/NFPA 13R)
- List of Deferred Submittals (Life Safety permits)
- HMIS (Hazardous Materials Inventory Statement)
- Fire Department Appeals

Note: Review Plan Review Checklist (TRT Document #0036)



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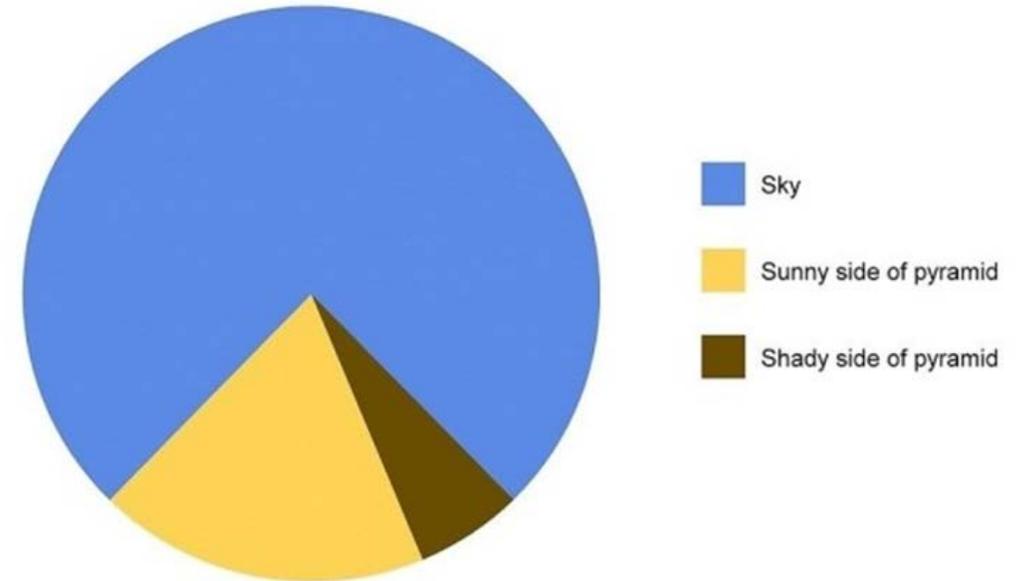
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# Fire Code Self-Certification Guide

## PFC 903: Automatic Sprinkler System

NFPA 13 system is required:

- Building area increase
- Reduction in fire resistance rating
- Travel distance increase
- Reduction in fire partitions rating
- Reduction in required fire flow



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# Fire Code Self-Certification Guide

## 504: Access to Building Opening and Roof

- Stairway access to roof is required four or more stories above grade plane. Exception, 33.3 % slope.



# Fire Code Self-Certification Guide

## Emergency Responder Radio Coverage

- 4 stories or greater
- Total building area greater than 50,000 square feet
- Any building with a basement or underground level(s)
- Where required by the fire code official

**1103 Emergency responder radio coverage in existing buildings.**



# Fire Code Self-Certification Guide

## Chapter 12 Energy Systems

Photovoltaic (PV) systems/ Submittals

R-3 and R-4 Occupancies- Greater than 3 kWh require permit, verify maximum allowable quantities.

Items to consider in design:

- Ventilation
- Fire Separation
- Detection and Alarms
- Thermal Runaway protection

Note: Residential energy rating exceeding 80 kWh required a fire department appeal.

Note: Check MAQs Table 1206



# Fire Code Self-Certification Guide

## 905: Standpipe Systems Requirements

**Height.** Class I standpipe systems shall be installed throughout buildings 30 feet above/below the fire department vehicle access.

**Non-sprinklered Group A buildings having an *occupant load* exceeding 1,000 persons.**

- Covered and open mall buildings
- Stages greater than 1,000 square feet
- Underground buildings
- Helistops and heliports
- Marinas and boatyards
- Rooftop gardens and landscaped roofs



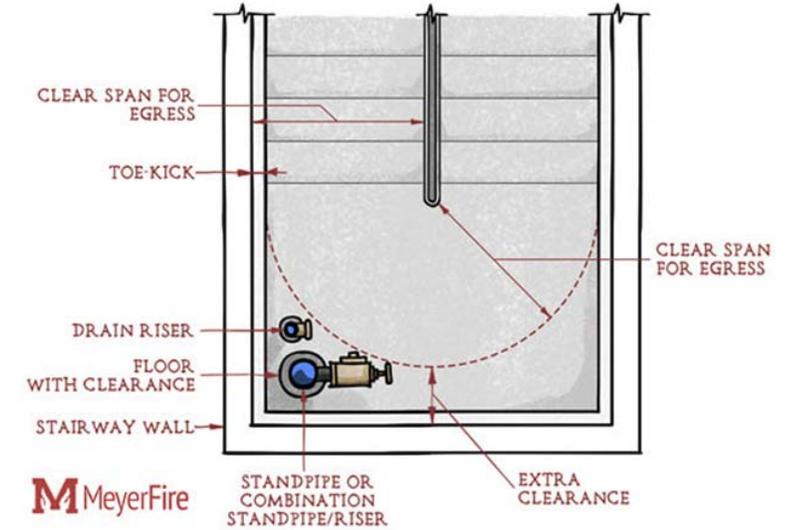
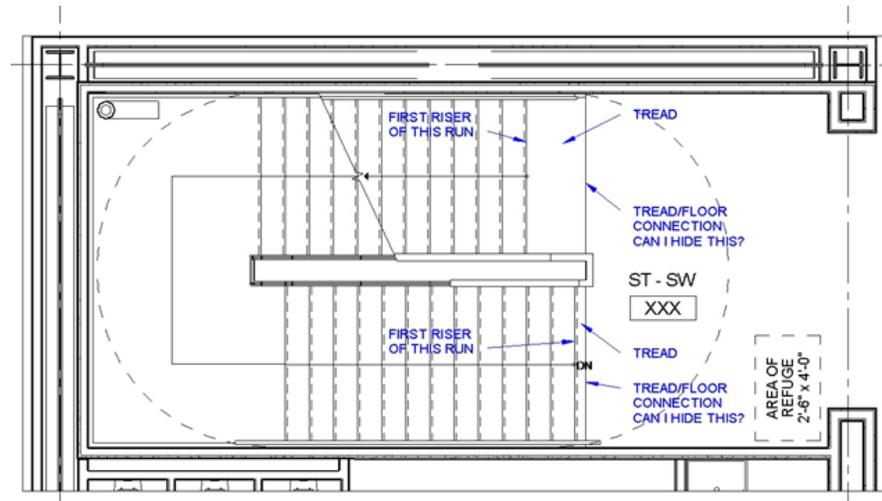
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## 905: Standpipe Systems

- Show proposed location on drawings
- Main Floor landing



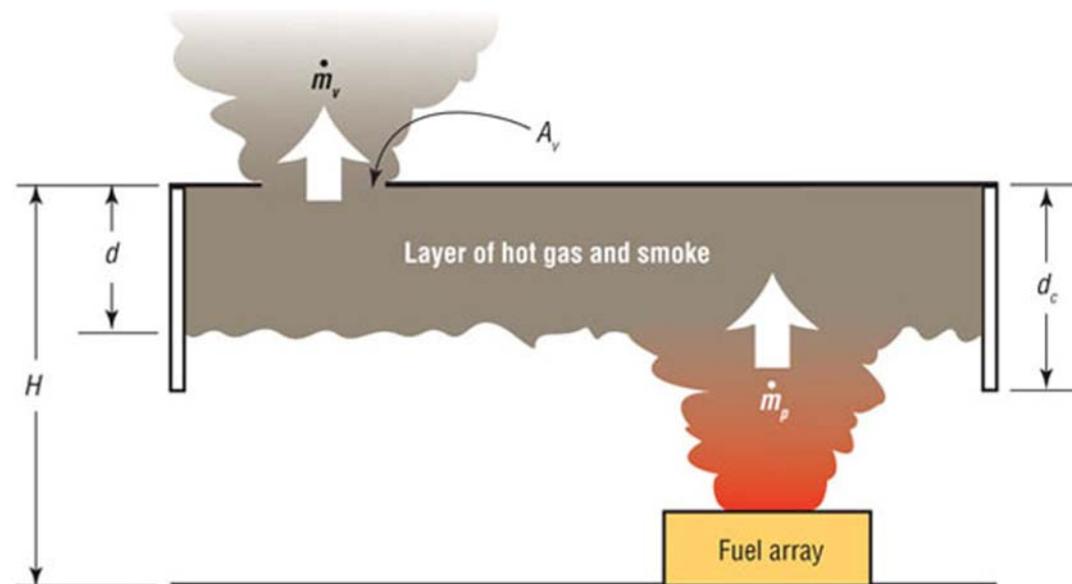
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## 910: Smoke and Heat Removal

- Group F-1 or S-1 more than 50,000 square feet (4645 m<sup>2</sup>) of undivided area
- High-piled combustible storage
- If ESRF exception is to be utilized, show on drawings in code analysis, listed in deferred submittal, etc.



# Fire Code Self-Certification Guide

## PFC 32: High-Piled Combustible Storage

- **3206 Number of doors required.**
  - The required fire department access doors shall be distributed such that the lineal distance between adjacent fire department access doors does not exceed 125 feet (center to center)
  - PBC 1017.2.2 Groups F-1 and S-1 amendment has 4 conditions which must be met to increase travel distance to 400 feet. Condition #4 defers to PFC 3206.6
- **3206.8 Smoke and heat removal.**



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# Fire Code Self-Certification Guide

## PFC 913: Fire Pumps

- Indicate type of pump (Electric vs Diesel)
- **Protection of fire pump rooms.** Fire pumps shall be located in rooms that are separated from all other areas of the building by 2-hour *fire barriers* (1-hour fire barrier in other than high-rise building with automatic sprinkler system).



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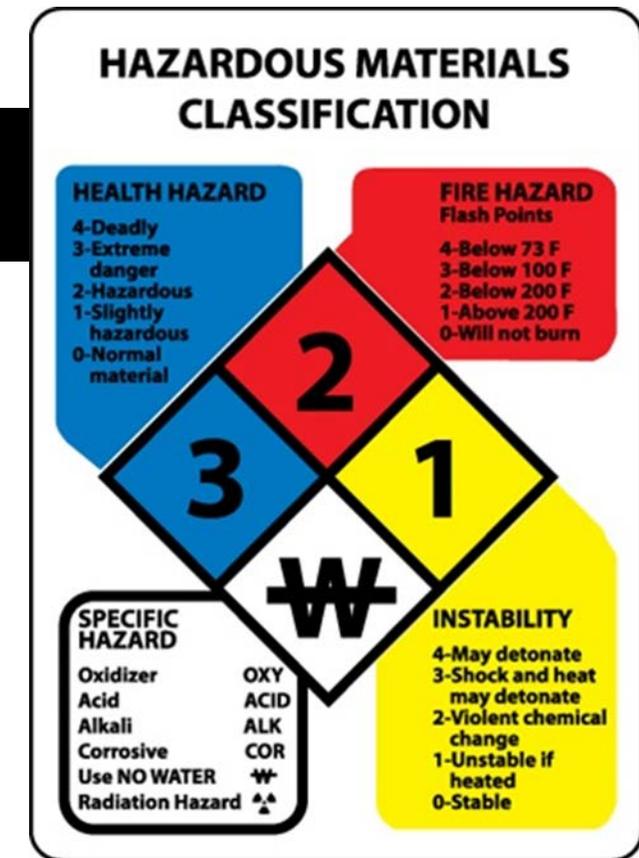
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## PFC 50: Hazardous Materials

- **Hazardous Materials Inventory Statement (HMIS).** Where required by the *fire code official*, an application for a permit shall include an HMIS or a Globally Harmonized System (GHS).
- Buildings with Group H Occupancy can not be self-certified.

<https://www.phoenix.gov/firesite/Documents/026096.pdf>



# Fire Code Self-Certification Guide

## **PFC 50: Hazardous Materials Inventory Statement**

- Indoor/ Outdoor
- Chemical Trade name
- Concentration
- CAS number
- Hazard Classification
- Physical State (Solid, Liquid, Gas)
- Total Amount ( Pounds, Cubic Feet, Gallons)
- NFPA 704 Rating
- Number of Tanks Above Ground



# Fire Code Self-Certification Guide

## PFC 50: Hazardous Materials

1. BUSINESS INFORMATION		2. BILLING INFORMATION (if same, write same)	
Business Name: _____ Store # _____	Physical Address: _____	Billing Business Name: _____ Store # _____	Billing Address: _____
Building Number: _____ Suite: _____	City: _____ State: _____ Zip: _____	Building Number: _____ Suite: _____	City: _____ State: _____ Zip: _____
Business Telephone: _____ Business Fax #: _____	Business Owner Name: _____	Billing Telephone: _____ Billing Contact Name: _____	Billing Contact Number: _____
Owner Contact Number: _____	Owner Email: _____	Billing Contact Number: _____	Billing Email: _____
3. OCCUPANCY INFORMATION			
SQ. Ft. Of Property: _____	Auto Sprinkler System: Full <input type="checkbox"/> Part <input type="checkbox"/> None <input type="checkbox"/>	SQ. Ft. Of Building: _____	Monitored: Yes <input type="checkbox"/> No <input type="checkbox"/>
Number of Floors: _____ Basement: Yes <input type="checkbox"/> No <input type="checkbox"/>	Persons on Site: Day _____ Night _____	Monitoring Company Name: _____	Monitoring Company Phone: _____
Copy of C of O Yes <input type="checkbox"/> No <input type="checkbox"/>	FD Key Box: Yes <input type="checkbox"/> No <input type="checkbox"/>		
4. EMERGENCY CONTACTS			
Primary Name: _____	24 Hr. Contact No.: _____	Secondary Name: _____	24 Hr. Contact No.: _____
5. RESPONSIBLE PARTY			
In accordance with Phoenix Fire Code Section 5003.9.3, Responsible party shall be designated and trained to be liaison personnel to the fire department. These persons shall aid the fire department in preplanning emergency responses and identifying the locations where hazardous materials are located, and shall have access to Material Safety Data Sheets and be knowledgeable in the site's emergency response procedures. A responsible party shall be available 24 hours per day in case of emergency and located in the Phoenix metropolitan area.			
Name & Signature: _____	Title: _____	Date: _____	
PFD USE ONLY			
New Customer <input type="checkbox"/> Existing <input type="checkbox"/> Change of Ownership <input type="checkbox"/>	Customer No.: _____	Assessment Group: 0 1 2 3 4 5	Total Number of Aboveground Tanks: ( )
Is the facility registered with the Annual Facility Permit (AFP) Program: Yes <input type="checkbox"/> No <input type="checkbox"/>			
Application Reviewed By: _____	Date: _____		

Return the application, Hazardous Material Inventory Statement(s) & Site Plan To:  
 Phoenix Fire Department – Fire Prevention Division  
 Attn: Special Hazards Unit  
 150 S. 12<sup>th</sup> Street, Phoenix, AZ 85034  
 Fax: 602-271-9243 E-mail: [special\\_hazards\\_unit@phoenix.gov](mailto:special_hazards_unit@phoenix.gov)  
<http://phoenix.gov/fire/prevention/specialhazards/index.html>

For questions call 602-262-6771 TTY users call 602-495-5555

Rev: 7-24-14



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# Fire Code Self-Certification Guide

## Chapter 39 Processing and Extraction

- HMIS
- Fire Separation
- Electrical Classification
- Ventilation
- Alarm and detection
- Emergency Shutoff
- Sprinkler System
  - Light, Ordinary, Extra Hazard
- Listed/ Unlisted Equipment
  - Technical Report (14 items)

When you open the door for the pizza man



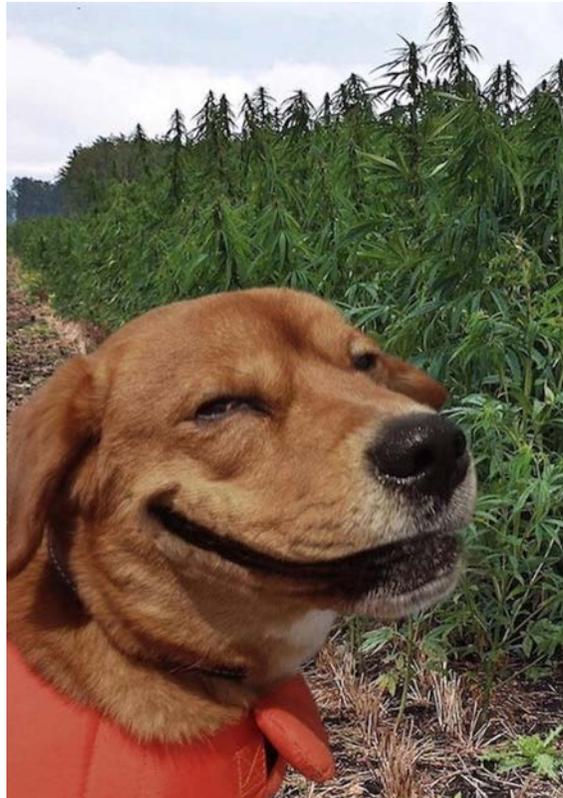
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## Extraction



# Fire Code Self-Certification Guide

## Grow vs Desolventizing/ Miscella vs Infusion



# Fire Code Self-Certification Guide

## Fire Life Safety Reports (FLSRs) Requirements

PFC Section 105

Applicable TRT documents:

- ✓ Document Number 00836 (FLSR Policy)
- ✓ Document Number 00364 (Plan Review Checklist)
- ✓ Document Number 00837 (FLSR Report Checklist)

- High-Rise Buildings
- Covered Mall Buildings
- Buildings containing atriums
- Hospitals
- Storage over 40 feet in F and S occupancies over 500,000 square feet
- Any structure determined by the fire or building code official



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# Fire Code Self-Certification Guide

## Common Audit Comments

- Hose Valve Connection Locations(stairs/horizontal exits, etc.)
- Fire Alarm System Requirements
- Automatic Sprinkler System Requirements (NFPA 13/NFPA 13R)
- Fire Department Access Doors in High-Piled Combustible Storage
- Hazardous Materials Requirements
- Atrium or Smoke Control System modifications
- Extraction Rooms and Facilities
- Battery Storage Rooms/ Facilities
- Hazardous Occupancies/ *Processes*



# Questions?

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