

ORDINANCE G-7242

AN ORDINANCE AUTHORIZING AMENDMENTS TO THE 2018 INTERNATIONAL FIRE CODE WITH PHOENIX AMENDMENTS AND AUTHORIZING MODIFICATIONS TO THE PHOENIX FIRE PREVENTION FEE SCHEDULE, PHOENIX CITY CODE, CHAPTER 15, APPENDIX A.

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BE IT ORDAINED BY THE COUNCIL OF THE CITY OF PHOENIX as follows:

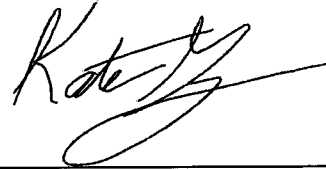
SECTION 1. Amendments to the 2018 International Fire Code with Phoenix amendments; and modifications to the Phoenix Fire Prevention Fee Schedule, Phoenix City Code, Chapter 15, Appendix A; are hereby authorized.

SECTION 2. The effective date of the amendments and modifications of the Fire Code, if adopted by Council, will be approximately 30 days following City Council Formal approval.

SECTION 3. The full details of the proposed amendments to the 2018 International Fire Code with Phoenix amendments and modifications to the Phoenix Fire Prevention Fee Schedule are provided in Attachment A, entitled "Amendment Packet to the Fire Prevention Code of the City of Phoenix." The attachment is color-coded and provides the code citation, the proposed adjustment or amendment, and the reason for the clarification.

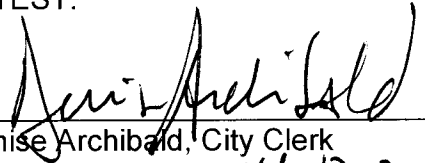
PASSED by the City Council of the City of Phoenix this 3rd day of April,

2024.



MAYOR


ATTEST:

  
Denise Archibald, City Clerk

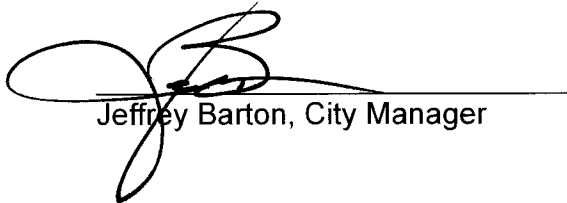
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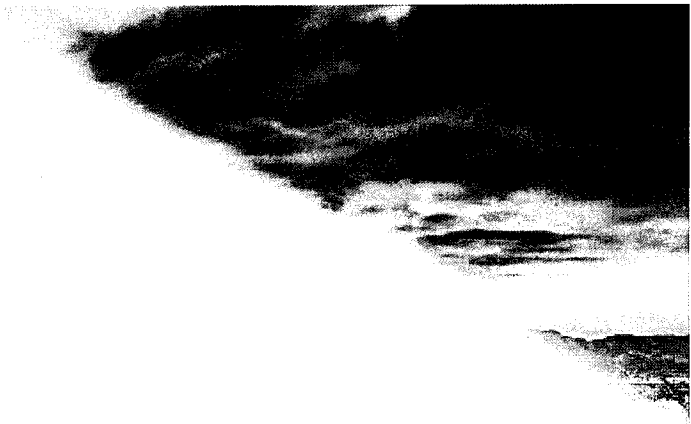
APPROVED AS TO FORM:  
Julie M. Kriegh, City Attorney

BY:  ACS

REVIEWED BY:

  
Jeffrey Barton, City Manager

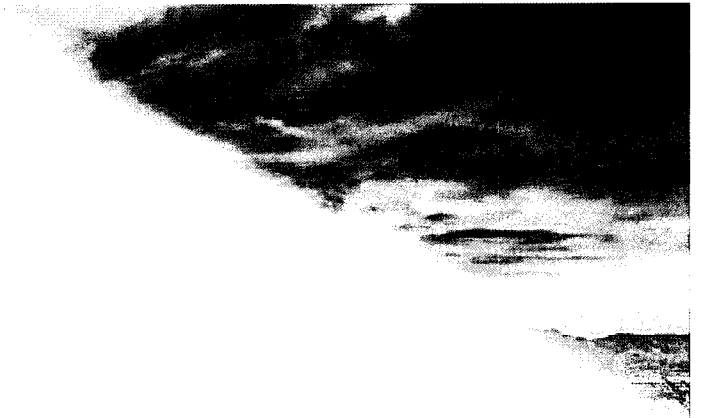
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**Amendment Packet to the  
Fire Prevention Code of the City of Phoenix  
(Currently No. G-6854, § 1, 2021)**



**City of Phoenix**



# Section 1

## Fire Code Amendment Change Summary



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## City of Phoenix

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### **Fire Prevention Code of the City of Phoenix Amendment, Clarification, & Consistency Change Proposals**

The currently adopted Fire Prevention Code of the City of Phoenix (Phoenix Fire Code) is based on the 2018 International Fire Code. As of today, the 2024 edition will be released later this year and possibly ready for City adoption in 2025. To ensure the Fire Prevention Code of the City of Phoenix is both effective and relevant to today's first responders, communities, and development needs; adoption of new amendments to the current adopted edition are required. Therefore, we bring forth amendments to the current Phoenix Fire Code to ensure the code continues to represent the newest in technology, standards, and lessons learned to protect our first responders and community while also providing for a development encouraged environment. These codes are designed to mitigate fire hazards, protect life and property, and promote a safer environment for everyone. By adhering to and enforcing these regulations, we significantly reduce the risk of fire-related incidents and their potentially devastating consequences. Fire codes encompass a wide range of measures that address fire prevention, detection, suppression, and evacuation procedures. They dictate requirements for building materials, electrical systems, fire alarm systems, sprinkler systems, emergency exits, and much more. These regulations are based on extensive research, new scientific understanding, and lessons learned from past fire incidents. These provisions are especially critical in large public spaces, such as entertainment venues, bars and restaurants, hospitals, shopping malls, and high-rise buildings, where the rapid evacuation of a significant number of people is essential. Additionally, fire codes address fire prevention measures to reduce the likelihood of fire related incidents. They mandate the installation and maintenance of fire suppression systems, including fire extinguishers, sprinkler systems, and fire alarms, ensuring early detection and rapid response. Regular inspections and maintenance of these systems further enhance their effectiveness. By adhering to modern and updated fire codes, we create a culture of safety that permeates throughout our community. Proper, adaptive, and updated fire code adoption also enhances the community's resilience by reducing the risk of fire-related disasters and their associated economic, environmental, and social impacts. By valuing and enforcing fire safety measures, we create a safer environment for everyone, protecting lives, property, and the vitality of our community as a whole.

These changes have been designed to optimize outcomes and deliver mutual benefits to all stakeholders. Careful consideration has been given to balancing the interests of different parties, ensuring fairness, and maximizing positive impacts. Furthermore, the changes have been meticulously assessed for their potential risks and unintended consequences. Preemptive actions have been taken to mitigate any negative effects, and alternative solutions have been explored and incorporated where necessary to ensure a smooth transition for all stakeholders.

The following is a brief summary of the changes located in this document along with stakeholder information when relevant. The attached Fire Prevention Code of the City of Phoenix



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Amendment, Clarification, & Consistency Change Tracker outlines and expresses each change and their specific rationale for the change and effects on the city and our community.

### Summary of Changes

#### Construction and Operational Permit Changes

##### Items #1 – 10 & 67

- We have taken the necessary steps to remove repetitive and incorrect wording from permit requirements, aiming to minimize confusion and prevent any potential misunderstandings or misapplications for our customers and community. It is important to note that these actions do not result in the creation of any new permits.
- The proposed changes will have no adverse effects on any stakeholder involved. Through careful planning, consideration, and comprehensive analysis, the changes have been designed to ensure minimal disruption and maximum benefit for all parties involved.

#### Assessment Fee Changes

##### Items #11-12

- We have rectified clerical publishing errors that unintentionally combined two assessment fees, namely hazardous materials and outdoor combustible materials. Additionally, we have addressed the inadvertent assignment of assessment fees for undeveloped non-hazardous areas on properties. These corrections were necessary to ensure accurate and appropriate assessment of fees in accordance with the respective categories and conditions.
- Our stakeholders primarily include facilities involved in hazardous material and outdoor combustible storage. It is important to note that these changes do not result in any operational adjustments to assessment fees. The purpose of these amendments is solely to rectify clerical errors found in the original code publication. Furthermore, these changes have been carefully designed to enhance outcomes and foster mutual benefits for all stakeholders involved.

#### Fire Safety Advisory Board

##### Items #13

- Recently the Fire Safety Advisory Board (FSAB) adopted their first set of by-laws. These by-laws were previously based on the Phoenix Fire Code sections relating to the FSAB and its operations. After adoption of the by-laws, this section of the fire code is being altered to reflect the removal of the items now found in these documents.



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- The FSAB, as the stakeholder, has unanimously approved the by-laws.

### Appeals and Property Liens

#### Items #14-17

- We have made the decision to remove the appeal filing time limits and the statement regarding liens from the code. The current version of the code suggested that there were specific time limits for filing appeals, and implied that pursuing customer action beyond those limits was not a valid option. Initially, this approach was intended to expedite and encourage compliance with the fire code. However, Fire Prevention now has a comprehensive compliance policy in place, which includes well-defined time limits for achieving compliance and the imposition of penalties for noncompliance. As for the issue of liens, it is essential to clarify that the lien process is a separate legal procedure available to the Fire Prevention department. It is not specifically linked to the "appeals" process. The specific details and procedures concerning liens are addressed outside the scope of the Phoenix Fire Code.
- Any individual or entity whose operations fall under the regulation of the Phoenix Fire Code can be considered a stakeholder affected by these changes. These amendments bring benefits to both stakeholders and end users of our services by providing an extended timeframe to submit an appeal. This revised approach replaces the current provision in the code, which restricts options to appeal after a 30-day period. By allowing additional time for appeals, we aim to enhance accessibility and fairness in our processes, ensuring that stakeholders have a meaningful opportunity to exercise their rights.

### Fire Code Violation and Penalty Requirements

#### Items #18-27

- We have undertaken the implementation of these changes to harmonize the penalties section of the current Phoenix Fire Code with the rules, procedures, and standards established by the City of Phoenix Courts and Arizona State Law. These modifications were executed through a collaborative effort with the Phoenix Fire Department's attorney and City of Phoenix Prosecutors, aiming to accurately reflect the prescribed consequences and measures outlined in the code. Our paramount objective remains the assurance of code compliance and the protection of our community's well-being



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### Definitions

#### Items #28-29

- Adding two new definitions for items found in this code adoption packet (Items #33 & 41)

### Roof Top/Landscaped Roof Requirements

#### Item #30

- This adjustment reflects the national code language changes from “rooftop gardens” to “landscaped roofs.”
- The proposed change will have no adverse effects on any stakeholder involved.

### Excavations and Trenches

#### Items #31-32

- This change eliminates the provision in the Phoenix Fire Code that mandates trenches and excavations to adhere to specific Federal requirements. It is important to note that these activities are already regulated by the Federal CFR Codes and OSHA. By removing this requirement, we maintain the ability of Fire Department staff to address unsafe conditions without imposing the burden of Federal inspection requirements on Fire Inspectors or the City of Phoenix.

### Additive Manufacturing (3D Printing)

#### Item #33

- This newly introduced section in the currently published International Fire Code (which serves as the foundation for the Phoenix Fire Code) specifically focuses on 'industrial' 3D printing. It is important to distinguish this category from tabletop machine printing conducted in commercial, home, or hobby settings. The 'industrial' 3D printing process involves the utilization of hazardous chemicals and materials, which can potentially pose risks to operators and the surrounding community.
- This represents a burgeoning industry in large-scale manufacturing, characterized by ongoing growth and development. As this industry continues to evolve and new locations emerge, the Fire Prevention is committed to actively engaging with stakeholders. Our aim is to establish collaborative partnerships, foster effective communication, and ensure that appropriate fire safety measures are implemented to address the unique requirements of this emerging sector.



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### Trade Shows and Exhibits

#### Item #34

- This particular code statement serves to provide clarity regarding the utilization of Phoenix Fire Code Appendix N for the regulation of trade shows and exhibits. Since the adoption of the 2018 Phoenix Fire Code, the requirements outlined in Appendix N have been effectively employed. This newly introduced code statement aims to solidify the official recognition of Appendix N as an integral and adopted component of the Phoenix Fire Code
- The stakeholders affected by this amendment would include the individuals or entities involved in operating, managing, and hosting trade shows and exhibits. It is important to note that this amendment does not introduce any alterations to the application or enforcement of the existing Phoenix Fire Code. Instead, its purpose is to provide clarity and ensure that the current code is correctly interpreted and implemented in relation to trade shows and exhibits.

### Fire Safety Evacuation Plans and Procedures

#### Items #35-37

- This amendment encompasses clerical adjustments related to occupant names, titles, and other minor revisions in alignment with the current International Fire Code (which serves as the foundation for the Phoenix Fire Code). These changes specifically pertain to emergency plans and procedures. The purpose of these modifications is to ensure accuracy and consistency in documentation, thereby enhancing the effectiveness and clarity of emergency preparedness measures.

### Fire Department Access and Operations

#### Items #38-41

- These changes are to correct a clerical publishing error for address identification and to alter language and requirement for passing of emergency radio coverage systems to match current International Fire Codes language).
- These changes specifically address a critical necessity for buildings to ensure the operational functionality of emergency responder radio systems in designated 'critical areas.' This newly introduced requirement, derived from the 2021 International Fire Code, aims to establish secure and reliable radio coverage for first responders, including police and fire personnel, operating within buildings. It is important to note that the installation and testing of these radio systems are already mandated by the current Phoenix Fire Code. However, these changes provide an additional layer of protection by emphasizing the importance of testing and installation specifically in 'critical areas.'

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Examples of such critical areas include stairwells and fire control rooms, which are essential locations where firefighters and law enforcement are anticipated to be present and carry out operations during emergency situations.

- Fire Prevention is committed to collaborating with building designers, owners, developers, and managers to facilitate a comprehensive understanding of the testing requirement and the significant benefits it brings to building and occupant safety. Our objective is to establish effective communication channels and provide guidance throughout the process, ensuring that all stakeholders are well-informed and equipped to achieve a positive outcome in terms of enhancing the safety and well-being of the building's occupants.

### **Building Life Safety Systems and Components**

#### **Items #42-49**

- These changes primarily pertain to building fire protection systems and their various components. They encompass the incorporation of the latest 2021 International Fire Code requirements, as well as adjustments made to the existing Phoenix Fire Code. The overarching goal of these changes is to reinforce community safety and prioritize the well-being of first responders. By aligning with current standards and making necessary enhancements, we aim to ensure effective fire protection measures that mitigate risks and enhance overall safety within our community.
- Fire Prevention is dedicated to fostering collaboration with building designers, owners, developers, and managers to facilitate a thorough comprehension of the maintenance requirements and the substantial benefits they offer for building and occupant safety. Our primary aim is to establish robust communication channels and deliver comprehensive guidance throughout the entire process. By ensuring that all stakeholders are well-informed and equipped, we strive to achieve a positive outcome that enhances the safety and well-being of the building's occupants.

### **Mazes**

#### **Item #50**

- These changes to the code section numbering were made to rectify a clerical error that occurred during the publishing process. It is important to note that these corrections do not introduce any regulatory changes to the code. The sole purpose of these modifications is to ensure accuracy and consistency in the numbering system for improved clarity and ease of reference.
- No stakeholder interests identified or anticipated as this amendment has no change to the application or enforcement of the Phoenix Fire Code.



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### Hazardous Materials

#### Items #51-52

- These changes to the code section numbering were made to rectify a clerical error that occurred during the publishing process. It is important to note that these corrections do not introduce any regulatory changes to the code. The sole purpose of these modifications is to ensure accuracy and consistency in the numbering system for improved clarity and ease of reference.
- No stakeholder interests were identified or anticipated as this amendment has no change to the application or enforcement of the Phoenix Fire Code.

### National Standards Referenced

#### Item #53

- The Phoenix Fire Code incorporates national standards to establish industry-specific requirements within the fire code. Given that these national standards continually evolve in response to technological advancements, industry developments, and lessons learned, it is crucial to adopt and incorporate these reference standards accordingly. By aligning with the latest standards, we ensure that the Phoenix Fire Code remains up to date, effectively addressing emerging challenges and promoting enhanced fire safety practices.

### Emergency Response Planning

#### Item #54

- When responding to emergencies, time is a critical factor in the ability of first responders to facilitate successful emergency operations and results. The ability to preplan and understand a buildings' critical life safety features are an integral part of this component of response. Current Phoenix Fire Code (Sections 404 Emergency Plans and 407 Hazard Communications) requires building operators and owners to produce some information relating to their building designs, layouts, and system locations/features based on occupancy type. However, the fire code currently falls short in its ability to ensure first responders have critical information relating to facilities. This missing information encompasses the locations of fire department connections (FDC), fire sprinkler riser rooms, standpipe locations, fire fighter breathing air locations, smoke control and evacuation panel locations, blind elevator shafts, and similar system locations and access points.



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### Energy Storage Systems (ESS), Photovoltaic (Solar), and Portable Generators

#### Items #55-65

- These changes encompass the correction of clerical errors as well as several updates derived from the latest edition of the International Fire Code, upon which the Phoenix Fire Code is based. The energy sector is a rapidly expanding and evolving industry, necessitating codes that can keep pace with technological and industrial advancements. These amendments not only prioritize the protection and safety of our community and first responders but also foster a development-friendly environment. By aligning our codes with industry advancements, we strive to promote innovation while ensuring the well-being and resilience of our community.

#### Appendix D

#### Item #66

- As referenced prior, time is a critical factor in the ability of first responders to facilitate successful emergency operations and results. Access for emergency vehicles is a critical component to that cycle or response. Fire code requires these critical fire access roads be marked and identified based on their design and size. Prior to the 2013 adoption of the Phoenix Fire Code, access specific details were contained in an "Access Details Manual" that provided specification as to the design requirements of these access markings. After the 2013 adoption these details were incorporated in the Phoenix Fire Code as appendix D. This action had the unintended consequence of delaying approval of industry and material advancements when it related to access as changes to these details and designs now required City Council action. This action reverts that change and moves the details to the Emergency Access Details Book. Appendix D will stay in the Phoenix Fire Code and will reference the details in this book as applicable.

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# Section 2

## Fire Code Amendment Detailed Change Log



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## Fire Prevention Code of the City of Phoenix Amendment, Clarification, & Consistency Change Tracker

### Proposed Changes to the Current 2018 Fire Prevention Code of the City of Phoenix

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All measures have been taken to ensure accurate numbering of code sections in this document. However, it is important to note that once final approval and adoption take place, the numbering sequence may undergo changes. It is important to emphasize that such changes will not have any regulatory implications of the code.

#### Action Taken By:

##### Fire Safety Advisory Board

Date 9/25/2023

Approved as Submitted  Modified and Approved  Denied  No Action Taken

##### Public Safety & Justice Subcommittee

Date 1/3/2024

Approved as Submitted  Modified and Approved  Denied  No Action Taken

##### City Council Action

Date TBD

Approved as Submitted  Modified and Approved  Denied  No Action Taken

**1.**      **105.6.13**      **Exhibits and trade shows.** An operational permit is required to operate exhibits and trade shows as regulated by Appendix N.

~~Exception: Exhibits less than 100 aggregate square feet (9290 mm<sup>2</sup>).~~

**Action and Reason:** This is a removal of the exception in chapter 1 that requires all trade shows and exhibits over 100 square feet (sqft) to obtain a Phoenix Fire Department operational permit. After this action, the fire code will default to the base code requirement of permitting found in appendix N for trade shows and exhibits greater than 1,500 sqft in buildings with no automatic fire sprinkler system and 4,500 sqft in buildings with an automatic fire sprinkler system.



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## Fire Prevention Code of the City of Phoenix Amendment, Clarification, & Consistency Change Tracker

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2.	105.6.17	<b>Floor finishing.</b> An operational permit is required for floor finishing or surfacing operations exceeding 350 square feet (33 m2) using Class I or Class II liquids. Buildings under construction or renovation with a valid construction permit do not require a permit to conduct this activity. <del>The activity shall be performed in accordance with this section.</del>
<b>Action and Reason:</b> Removal of a clerical mistype inadvertently added to the adopted code.		
<b>Results of Action for City and Community:</b> Reduces possible confusion over what "section" applies.		
3.	105.6.36	<b>Outdoor assembly event.</b> An operational permit is required to conduct an outdoor assembly event where planned attendance exceeds 500 persons, or <del>where 50 or more persons are in a confined area.</del> confining 50 or more persons by temporary installation of fencing or barrier.
<b>Action and Reason:</b> Alter the text to align with the code's definition of an outdoor assembly. Change from "confined area" to "by temporary installation of fencing."		
<b>Results of Action for City and Community:</b> This action eliminate the possible permitting requirement for venues who utilize already approved and established areas on their property for gatherings.		
4.	105.6.51.17	<b>Medical facilities.</b> An operational permit is required to operate a State of Arizona Department of Health Services (DHS) Licensed patient treatment medical facility.



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	<b>Action and Reason:</b> Add Arizona State DHS to define medical facilities requiring permits. Original intent of this permit was to inspect facilities that requested fire inspections due to their state licensed requirements from Arizona DHS. It was not intended to require all medical facilities to obtain an operational permit.	
	<b>Results of Action for City and Community:</b> This action clarifies the specific types of facilities that are required to have an operational permit rather than requiring all medical locations to obtain one.	
5.	<b>105.6.51.18</b>	<b>Semiconductor facilities.</b> An operational permit is required to operate a semiconductor facility that is not part of an HPM facility.
	<b>Action and Reason:</b> Removal of fire code semiconductor operational permit requirement found in 105.6.51.18. Current Phoenix Fire Code (a Phoenix amendment) as adopted has a requirement for an operational permit for HPM Facilities. HPM facilities are semiconductor facilities by code definition. This results in code as currently adopted, having two permits for the same operation type.	
	<b>Results of Action for City and Community:</b> Action removes the unintentional possible double permitting and billing for these types of semiconductor facilities.	
6.	<b>105.7.26.10</b>	<b>Fire lines &amp; hydrants.</b> A construction permit is required for the installation or modification of fire lines that serve fire protection systems, fire hydrants, or any combination thereof.
	<b>Action and Reason:</b> Remove the word "hydrants." Hydrant construction permits are covered in code in section 105.7.19. This section was intended to be specific to fire lines only.	



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		<b>Results of Action for City and Community:</b> This action removes the possibility of unintentional double permits required for same construction item (hydrants).
7.	<b>105.7.26.10.2</b>	<b>Hydrant, temporary.</b> A construction permit is required for the installation of a temporary hydrant(s) <del>and up to 500 feet (152 m) of</del> and fire line.
		<b>Action and Reason:</b> Remove the reference to 500 ft. This distance was only intended to relate to permit fees calculated for each 500 ft section and is referenced in the fee schedule currently.
		<b>Results of Action for City and Community:</b> This action removes what could be a 500 ft cap on permits that would negatively affect the development community and project growth.
8.	<b>105.7.25</b>	<del>Temporary membrane structures and tents. A construction permit is required to erect an air-supported temporary membrane structure, a temporary stage canopy or a tent having an area in excess of 800 square feet (74 m2).</del> <b>Exceptions:</b>  1. <del>Tents used exclusively for recreational camping purposes.</del> 2. <del>Funeral tents and curtains, or extensions attached thereto, when used for funeral services.</del> 3. <del>Tents and awnings open on all sides, which comply with all of the following:</del> 3.1. <del>Individual tents shall have a maximum size of 1,200 square feet (111 m2).</del> 3.2. <del>The aggregate area of multiple tents placed side by side</del>



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		<p><del>without a fire break clearance of not less than 12 feet (3658 mm) shall not exceed 1,200 square feet (111 m2) total.</del></p> <p><del>3.3. A minimum clearance of 12 feet (3658 mm) to structures and other tents shall be maintained.</del></p> <p>Reserved</p>
		<p><b>Action and Reason:</b> Removal of this “construction permit” for temporary tents and membrane structures from the fire code. Section 105.6.47 of the fire code currently requires an operational permit for temporary tents and membrane structures. This “construction” permit is a duplicate to the already required operational permit.</p>
		<p><b>Results of Action for City and Community:</b> This action removes the unintentional possible double permitting and billing for these types of tents and temporary membrane structures.</p>
9.	105.7.26.11	<p><del>Lithium ion battery systems. To install or modify a lithium ion battery storage system used for facility standby power emergency power or uninterruptible power supplies as regulated by Section 1206.2.</del></p> <p>Reserved</p>
		<p><b>Action and Reason:</b> Removal of this specific permitting text for lithium battery systems. This was a clerical duplicate to the permit requirement found already in code section 105.7.2.</p>
		<p><b>Results of Action for City and Community:</b> This action removes the duplicate permit requirement statement and clarifies the single construction permit required for battery systems.</p>



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<b>10.</b>	<b>105.7.26.12</b>	<p><del>Smoke and heat vents. A construction permit is required to install, alter or modify smoke and heat vents.</del></p> <p>Reserved</p>
<p><b>Action and Reason:</b> Removal of this specific permitting text. This was a clerical duplicate to the permit requirement found already in code section 105.7.20</p>		
<p><b>Results of Action for City and Community:</b> This action removes the duplicate permit requirement statement and clarifies the single permit required for smoke and heat vents.</p>		
<b>11.</b>	<b>106.9</b>	<p><b>Assessment fees.</b> The fire code official is authorized to assess fees annually for: agro-industrial or solid biomass facilities and pallet yards when material quantities meet those listed in the Fire Prevention Fee Schedule Agro-Industrial, Solid Biomass, and Pallet Fee Assessment Table</p> <p>The fire code official is authorized to assess fees annually for: hazardous materials or substances when quantities reach reportable quantities in accordance with Fire Prevention Fee Schedule Hazardous Materials Assessment Classification Table <del>8107.1; or hazardous material facilities with areas larger than 250,000 square feet (23 225 m2) that represent a special hazard as determined by the fire code official.</del></p>
<p><b>Action and Reason:</b> This "assessment fees" section contained two separate types of assessment fees. One for outdoor combustibles facilities (agro, biomass, and pallet yards) and the other for hazardous materials. Unfortunately, as the code was printed, it combined them into one paragraph and resulted in confusion for our customers as to the specific types of activities and their fees. This clerical change separates them into their two categories.</p>		



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	<p>The code also referenced the old fee schedule that was part of the fire code as Chapter 81 prior to 2021. In 2021 Council action removed this fee schedule from the fire code and created a stand alone fee schedule document with the same assessment fees included.</p> <p>The third change is in reference to facilities with more than 250,000 sq ft; which was a duplicate statement to section 106.10. Its removal clarifies and reduces possible customer confusion on requirements.</p> <p><b>Results of Action for City and Community:</b> This action does not alter or create fees or requirements. It only assists to clarify the location of such fees and removes duplicate code statements.</p>	
12.	106.10	<p><b>Area assessment fees.</b> Facilities that represent special hazards as determined by the fire code official shall be assessed an area assessment fee. Facilities more than 250,000 square feet (23,225 m<sup>2</sup>) shall be assessed an additional fee calculated on the total area of the developed site. The assessment fee shall be calculated in intervals of 250,000 square feet (23,225 m<sup>2</sup>) in accordance with the fee schedule. For those facilities being assessed hazardous material fees, area fees will be based on the fee group <del>0A</del> in accordance with Fire Prevention Fee Schedule Area Assessment Fee Table.</p> <p><del>8106.3.</del></p> <p><b>Action and Reason:</b> Add “developed” text to the calculation utilized for fees. It was intended to only charge a fee based on the area the facility uses, not undeveloped land on said property. Secondly, the old reference to chapter 81 (8106.3) fees is removed to reflect the current fire prevention fee schedule table location.</p> <p><b>Results of Action for City and Community:</b> Eliminates the possible fee assessment for undeveloped land that poses no significant hazard to the community or first responders.</p>



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13.	109.1	<p>[A] 109.1 Fire Safety Advisory Board. In order to hear and decide appeals of orders, decisions or determinations made by the fire code official relative to the application and interpretation of this code, there shall be and is hereby created the Fire Safety Advisory Board. Hereinafter called "the Board," it shall consist of up to 13 members, a majority of whom are residents of the City of Phoenix. Board members shall be United States citizens. One board member's only qualification shall be Phoenix residency, while other board members shall be drawn from the following industries, trades and professions: fire-protection systems contractor; architect; realtor; developer; petroleum industry; liquefied petroleum gas industry; property insurance; fire-protection engineering; owner or manager of a business that would not qualify for membership in another industry; health care industry; special events coordinator; and construction contractor. <del>The Board shall be appointed by the governing body and shall hold office at its pleasure. The fire code official shall be an ex officio member of said board but shall not have a vote on any matter before the Board. The Board shall adopt and operate in accordance with City Procures, Board by-laws, and adopted Fire Code rules of procedure for conducting its business and shall render all decisions and findings in writing to the appellant with a duplicate copy to the fire code official.</del></p>
<p><b>Action and Reason:</b> Removal of text from fire code that is now adopted in by-laws for the Fire Safety Advisory Board.</p>		
<p><b>Results of Action for City and Community:</b> Eliminates the possible conflict as changes are made to the board's by-laws versus fire code.</p>		



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14.	109.74	<b>Appeal to the Fire Marshal.</b> An appeal shall be submitted to the Fire Marshal in writing. <del>Appeals shall be made within 30 days of receipt of a notice of noncompliance indicating required corrections.</del>
		<b>Action and Reason:</b> Removal of 30-day requirement to submit an appeal to the Fire Marshal. Fire Prevention has established procedures for the enforcement and compliance of fire code violations. This progressive process utilizes inspection notices and can include up to civil/criminal citations. This 30-day requirement is no longer in line with current procedures or policies and can have a negative effect on obtaining compliance and the customer ability to correct violations.
		<b>Results of Action for City and Community:</b> Eliminates the possible conflict with Department policy and a customer's inability to submit an appeal after 30-days.
15.	109.85	<b>Appeal to the Fire Safety Advisory Board.</b> Any person may appeal a decision of the Fire Marshal to the Fire Safety Advisory Board following the decision of the Fire Marshal. The appellant shall appear to present the appeal to the Board. <del>The appeal shall be made within 30 days of receiving a decision from the Fire Marshal.</del>
		<b>Action and Reason:</b> Removal of 30-day requirement to submit an appeal to the Fire Safety Advisory Board. Fire Prevention has established procedures for the enforcement and compliance of fire code violations. This progressive process utilizes inspection notices and can include up to civil/criminal citations and may last longer than 30 days. This 30-day requirement is no longer in line with current procedures or policies.
		<b>Results of Action for City and Community:</b> Eliminates the possible conflict with Department policy and a customer's inability to submit an appeal after 30-days.



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16.	109.96	<p><b>Appeal to the Superior Court.</b> Any persons aggrieved by a decision of the Board may at any time <del>within 30 days after the Board's decision</del> file an appeal with the Superior Court of the county by following <del>the various methods of</del> appeal or review procedures as set forth by the applicable statutes of the State of Arizona.</p>
<p><b>Action and Reason:</b> Removal of the 30-day requirement in current Phoenix Fire Code. The Phoenix Fire Code does not regulate or have authority over the procedures of filling timelines of the Arizona Superior court.</p>		
<p><b>Results of Action for City and Community:</b> Eliminates the possible conflict or inaccurate direction for court filings.</p>		
17.	109.7.4	<p><del>Property Liens. A property lien may be placed on properties when appeal stipulations are granted for extended periods of time.</del></p>
<p><b>Action and Reason:</b> Removal of this section. The City and its individual departments are otherwise authorized to place liens, and it is not required to be set forth in the Fire Code.</p>		
<p><b>Results of Action for City and Community:</b> There is a legal procedure for placing a lien. Elimination of the section ensures no conflict between fire code and those procedure(s).</p>		



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18.	110.3	<p><b>Notice of violation</b> or civil citation. Where the fire code official finds a building, premises, vehicle, storage facility or outdoor area that is in violation of this code, the fire code official is authorized to prepare and issue a written notice of violation or civil citation describing the conditions deemed <del>unsafe and, where compliance is not immediate, specifying a time for reinspection.</del> in violation. Nothing herein shall require the issuance of a notice of violation prior to commencement of emergency abatement, the issuance of a citation or civil or criminal violation proceedings.</p> <p><b>Action and Reason:</b> In conjunction with the Fire Department’s Legal Council and the City of Phoenix Prosecutors, this section has been modified to more accurately reflect procedures and actions set forth by the Fire Code, Municipal Codes, and Court procedures and rules.</p> <p><b>Results of Action for City and Community:</b> These changes will reduce possible conflict between Fire Code, Municipal Codes, and Court procedures and rules.</p>
19.	110.3.1	<p><b>Service of notice of violation.</b> A notice of violation issued pursuant to this code shall be served on the owner, the owner’s authorized agent, operator, occupant or other person responsible for the condition or violation, either by personal service, mail, e-mail or by delivering the same to, and leaving it with, some person of responsibility on the premises. For unattended or abandoned locations, a copy of such notice of violation shall may be posted on the premises in a conspicuous place at or near the entrance to such premises and <del>the notice of violation shall be mailed by certified mail with return receipt requested or a certificate of mailing, to the last known address of the owner, the owner’s authorized agent, or occupant</del> further served in accordance with this section.</p> <p><b>Action and Reason:</b> In conjunction with the Fire Department’s Legal Council and the City of Phoenix Prosecutors, this section has been modified to provide more clarity and more accurately reflect procedures and actions set forth by the Fire</p>



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	Code, Municipal Codes, and Court procedures and rules.	
	<b>Results of Action for City and Community:</b> These changes will reduce possible conflict between Fire Code, Municipal Codes, and Court procedures and rules.	
<b>20.</b>	110.3.2	<p>Service of civil citation. A civil citation issued pursuant to this code shall be served on the owner, the owner's authorized agent, operator, occupant or other person responsible for the condition or violation, either by personal service, mail, or by delivering the same to, and leaving it with, some person of responsibility on the premises. For unattended or abandoned locations, a copy of civil citation shall be posted on the premises in a conspicuous place at or near the entrance to such premises and the civil citation shall be mailed by certified mail or registered mail, with return receipt requested. Service of civil citations may also be accomplished as provided under rule 2.3 of the Local Rules of Practice and Procedure for the City of Phoenix Municipal Court.</p> <p><b>Action and Reason:</b> In conjunction with the Fire Department's Legal Council and the City of Phoenix Prosecutors, this section has been modified to provide more clarity and more accurately reflect procedures and actions set forth by the Fire Code, Municipal Codes, and Court procedures and rules.</p> <p><b>Results of Action for City and Community:</b> These changes will reduce possible conflict between Fire Code, Municipal Codes, and Court procedures and rules.</p>
<b>21.</b>	110.4	<p><b>Compliance with orders, citations and notices.</b> A building, premises or thing shall not be used when in violation of this code as noted on a tag order or notice in accordance with Section 104.5. A notice of violation or civil citation issued or served as provided by this code shall be complied with by the owner, the owner's authorized agent, operator, occupant or other person responsible for the condition or violation to which the notice of violation or civil citation pertains. In case of extreme danger to persons or property,</p>



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		immediate compliance is required. Each day that a violation continues may be deemed a separate violation.
		<b>Action and Reason:</b> In conjunction with the Fire Department’s Legal Council and the City of Phoenix Prosecutors, this section has been modified to provide more clarity and more accurately reflect procedures and actions set forth by the Fire Code, Municipal Codes, and Court procedures and rules.
		<b>Results of Action for City and Community:</b> These changes will reduce possible conflict between Fire Code, Municipal Codes, and Court procedures and rules.
<b>22.</b>	<b>110.5</b>	Cumulative proceedings and remedies. If violations are not promptly remedied, the fire code official is authorized to request the legal counsel of the jurisdiction to institute the appropriate legal proceedings at law or in equity to restrain, correct or abate such violation or to require removal or termination of the unlawful occupancy of the structure in violation of the provisions of this code or of the order or direction made pursuant hereto. The proceedings and remedies are cumulative and the City may proceed to seek one or more such remedies.
		<b>Action and Reason:</b> In conjunction with the Fire Department’s Legal Council and the City of Phoenix Prosecutors, this section has been modified to provide more clarity and more accurately reflect procedures and actions set forth by the Fire Code, Municipal Codes, and Court procedures and rules.
		<b>Results of Action for City and Community:</b> These changes will reduce possible conflict between Fire Code, Municipal Codes, and Court procedures and rules.



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23.	110.6	<p>Civil Violations. Any person, firm or corporation who causes, permits, facilitates, aids or abets any violation of this code, or who fails to perform any act or duty required by this code, is subject to a civil sanction of not less than \$500 nor more than \$2,500. Each day that a violation continues may be deemed a separate violation.</p> <p><del>110.3.4 Civil actions or criminal citations. Any person, firm or corporation who causes, permits, facilitates, aids or abets any violation of this code, or who fails to perform any act or duty required by this code, is subject to a civil sanction of not less than \$500 nor more than \$2,500 or a Class 1 criminal misdemeanor.</del></p> <p><b>Action and Reason:</b> In conjunction with the Fire Department’s Legal Council and the City of Phoenix Prosecutors, this section has been modified to provide more clarity and more accurately reflect procedures and actions set forth by the Fire Code, Municipal Codes, and Court procedures and rules.</p> <p><b>Results of Action for City and Community:</b> These changes will reduce possible conflict between Fire Code, Municipal Codes, and Court procedures and rules.</p>
24.	110.7	<p>Criminal Violations. Any person, firm or corporation who causes, permits, facilitates, aids or abets any violation of this code, or who fails to perform any act or duty required by this code shall be guilty of a Class 1 misdemeanor. Each day that a violation continues may be deemed a separate violation.</p> <p><del>110.3.4 Civil actions or criminal citations. Any person, firm or corporation who causes, permits, facilitates, aids or abets any violation of this code, or who fails to perform any act or duty required by this code, is subject to a civil sanction of not less than \$500 nor more than \$2,500 or a</del></p>



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		<del>Class 1 criminal misdemeanor.</del>
<b>Action and Reason:</b> In conjunction with the Fire Department’s Legal Council and the City of Phoenix Prosecutors, this section has been modified to provide more clarity and more accurately reflect procedures and actions set forth by the Fire Code, Municipal Codes, and Court procedures and rules.		
<b>Results of Action for City and Community:</b> These changes will reduce possible conflict between Fire Code, Municipal Codes, and Court procedures and rules.		
25.		<p><del>110.3.4.1 Commencement of civil action. Any civil action to enforce the provisions of this code shall be commenced, and summons shall be issued, in accordance with the procedures set forth in Arizona Revised Statutes or city ordinances, or as provided in the Local Rules of Practice and Procedure—City Court—City of Phoenix.</del></p> <p><del>110.3.4.2 Admission or denial of allegations; hearing; findings of Court; civil sanctions.</del></p> <p><del>1. A person served with a civil citation or complaint shall appear at the time and place stated in the citation or summons, or may appear prior to the time, and admit or deny the allegations of the complaint. Allegations not denied at the time of appearance are deemed admitted.</del></p> <p><del>2. If the allegations are admitted, the Court shall enter judgment for the City and impose a civil sanction.</del></p> <p><del>3. If the person denies the allegations, the Court</del></p>



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	<p><del>shall set the matter for hearing. Civil hearings are informal and held without a jury, and the City of Phoenix is required to prove the violation charged by a preponderance of the evidence. Technical rules of evidence do not apply, except for statutory provisions relating to privileged communications. If the person elects to be represented by counsel, the person shall so notify the Court at least 10 days prior to the hearing date. Hearings may be recorded. If the Court finds in favor of the person, the Court shall enter an order dismissing the citation or complaint. If the Court finds in favor of the City, the Court shall enter judgment for the City and impose a civil sanction.</del></p> <p><del>4. If the person served with a civil citation or complaint fails to appear on or before the time directed to appear or at the time set for hearing by the Court, the allegations shall be deemed admitted and the Court shall enter judgment for the City and impose a civil sanction.</del></p> <p><del>110.3.4.3 Criminal penalties. Where in any section of this code the doing of any act is required, prohibited or declared to be unlawful, any person, firm or corporation who shall be convicted of a violation of any such section shall be guilty of a Class I misdemeanor.</del></p> <p><del>110.3.4.4 Injunctive Relief. The imposition of any civil action or criminal penalty provided in this Code shall not preclude the fire code official from instituting any appropriate action or proceeding to require compliance with the provisions of this Code and with administrative orders and determinations made hereunder. In the event that any building, structure, occupancy, or equipment is erected, constructed, reconstructed,</del></p>
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		<p><del>altered, repaired, converted, demolished, moved or maintained, or any building, structure, premises or system service is used or occupied in violation of this Code, the fire code official may institute any appropriate action or proceedings to prevent unlawful erection, construction, reconstruction, alteration, repair, removal, demolition or utilization a building, occupancy, premises or system regulated by this code.</del></p> <p><del>[A] 110.4 Violation penalties. Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under provisions of this code, shall be guilty of a Class 1 criminal misdemeanor punishable by a civil sanction of not less than \$500 per day nor more than \$2,500 per day. Each day that a violation continues after due</del></p> <p><b>Action and Reason:</b> In conjunction with the Fire Department's Legal Council and the City of Phoenix Prosecutors, this section has been modified to provide more clarity and more accurately reflect procedures and actions set forth by the Fire Code, Municipal Codes, and Court procedures and rules.</p> <p><b>Results of Action for City and Community:</b> These changes will reduce possible conflict between Fire Code, Municipal Codes, and Court procedures and rules.</p>
26.	110.8	<p><b>Abatement of violation.</b> In addition to the imposition of the penalties herein described, the fire code official is authorized to institute appropriate action to prevent unlawful construction or to restrain, correct or abate a violation; or to prevent illegal occupancy of a structure or premises; or to stop an illegal act, conduct of business or occupancy of a structure on or about any premises.</p> <p><del>Abatement of violation. In addition to the</del></p>



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		<p><del>imposition of the penalties herein described, the fire code official is authorized to institute appropriate action to prevent unlawful construction or to restrain, correct or abate a violation; or to prevent illegal occupancy of a structure or premises; or to stop an illegal act, conduct of business or occupancy of a structure on or about any premises.</del></p>
		<p><b>Action and Reason:</b> In conjunction with the Fire Department's Legal Council and the City of Phoenix Prosecutors, this section has been modified to provide more clarity and more accurately reflect procedures and actions set forth by the Fire Code, Municipal Codes, and Court procedures and rules.</p>
		<p><b>Results of Action for City and Community:</b> These changes will reduce possible conflict between Fire Code, Municipal Codes, and Court procedures and rules.</p>
<p><b>27.</b></p>	<p>110.8.1</p>	<p>Abatement orders. The Municipal Court of the City of Phoenix shall have jurisdiction to issue orders to the property owner of record, as recorded in the Maricopa County Recorder's Office, to abate unsafe conditions or any other violation of this Code, or to issue orders permitting the City of Phoenix to abate unsafe conditions as defined in this Code. Abatement orders may be issued by the Municipal Court pursuant to a request from the fire code official, or may be initiated by the Court in addition to any civil sanction or criminal penalty assessed for violations of this Code.</p> <p><del>Abatement orders. The Municipal Court of the City of Phoenix shall have jurisdiction to issue orders to the property owner of record, as recorded in the Maricopa County Recorder's Office, to abate unsafe conditions or any other violation of this Code, or to issue orders permitting the City of Phoenix to abate unsafe conditions as defined in this Code. Abatement orders may be issued by the Municipal Court pursuant to a request from the fire code official, or may be initiated by the Court in addition</del></p>



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		<del>to any civil sanction or criminal penalty assessed for violations of this Code.</del>
	<b>Action and Reason:</b> In conjunction with the Fire Department's Legal Council and the City of Phoenix Prosecutors, this section has been modified to provide more clarity and more accurately reflect procedures and actions set forth by the Fire Code, Municipal Codes, and Court procedures and rules.	
	<b>Results of Action for City and Community:</b> These changes will reduce possible conflict between Fire Code, Municipal Codes, and Court procedures and rules.	
<b>28.</b>	<b>202</b>	<b>3D PRINTER.</b> A machine used in the additive manufacturing process for fabricating objects through the deposition of a material using a print head, nozzle or other printer technology.
	<b>Action and Reason:</b> Add a recent national code definition that is not in current adopted Phoenix Fire Code. Commercial/industrial 3D printers are a new requirement in the base 2021 International Fire Code and the definition is not in currently adopted Phoenix Fire Code.	
	<b>Results of Action for City and Community:</b> 3D printer requirements are proposed to be added to section 322 of the Phoenix Fire Code and this action provides a definition for 3D printer.	



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29.	202	CRITICAL AREAS. Areas that are designated for the highest level of emergency responder radio coverage including but not limited to areas such as exit stairs, exit passageways, elevator lobbies, fire protection equipment room and control valve locations, and fire command centers.
	<b>Action and Reason:</b> Add a recent national code definition that is not in current adopted Phoenix Fire Code. This term “critical area” is used in the proposed updated section 510.4.1 of the Phoenix Fire Code.	
	<b>Results of Action for City and Community:</b> This action provided clarity as to the definition of “critical areas.”	
30.	317.2	<del>Rooftop garden or</del> Landscaped roof size. <del>Rooftop garden or</del> Landscaped roof areas shall not exceed 15,625 square feet (1,450m <sup>2</sup> ) in size for any single area with a maximum dimension of 125 feet (39m) in length or width. A minimum 6-foot-wide (1.8m) clearance consisting of a listed Class A rated roof system <del>complying assembly tested with ASTM E108 or UL 790 shall be provided between adjacent rooftop gardens or landscaped roof area.</del>
	<b>Action and Reason:</b> This change of terminology acknowledges that the scope and intent of plants and foliage installed on rooftops is broader than the common definition of “garden”. There is no change to requirements to allow for a variety of horticulture to be installed other than classical garden plants.	
	<b>Results of Action for City and Community:</b> Allows for a greater variety of horticultural installation while not changing the previous requirements.	



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31.	320.2.1	<del>Excavations and trenches. Excavations and trenches shall be in accordance with Title 29, Code of Federal Regulations, Part 1926.650-1926.652, Subpart P.</del>
<b>Action and Reason:</b> Removes the section that requires excavations and trenches comply with Federal regulations (Title 29, Part 1926.650-1926.652, subpart P). The Phoenix Fire Department does not enforce Federal Title 29. The original intent of the section was to provide a code section for the Phoenix Fire Department to deem unsafe excavations and trenches as so, and the ability to order their evacuation and hazard abatement. With the wording of the current section, it could place an enforcement requirement of Federal law(s) onto the Phoenix Fire Department. Current Phoenix Fire Code section 320.2.3 already allows the Phoenix Fire Department to deem an excavation or trench as unsafe and order an evacuation and abate the condition without the Title 29 reference.		
<b>Results of Action for City and Community:</b> There is no level of change to our community from a service or protection aspect with this proposed change, as the ability to ensure excavations and trenches that are unsafe are evacuated and hazards abated still exists in Phoenix fire Code.		
32.	320.2.2	<del>Confined spaces. Confined spaces shall be in accordance with Title 29, Code of Federal Regulations, Part 1910.</del>
<b>Action and Reason:</b> Removes the section that requires confined spaces comply with Federal regulations (Title 29). The Phoenix Fire Department does not enforce Federal Title 29. The original intent of the section was to provide a code section for the Phoenix Fire Department to deem unsafe confined spaces as so, and the ability to order their evacuation and hazard abatement. With the wording of the current section,		



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	<p>it could place an enforcement requirement of Federal law(s) onto the Phoenix Fire Department. Current Phoenix Fire Code section 320.2.3 already allows the Phoenix Fire Department to deem a confined space as unsafe and order an evacuation and abate the condition without the Title 29 reference.</p> <p><b>Results of Action for City and Community:</b> There is no level of change to our community from a service or protection aspect with this proposed change, as the ability to ensure confined spaces that are unsafe are evacuated and hazards abated still exists in Phoenix Fire Code.</p>	
33.	322	<p><b>ADDITIVE MANUFACTURING (3D PRINTING)</b></p> <p>General. Additive manufacturing equipment and operations shall comply with Section 322.</p> <p>322.1.1 Scope. Additive manufacturing shall comply with one of the following:</p> <ol style="list-style-type: none"> <li>1. Nonindustrial additive manufacturing shall comply with Section 322.2.</li> <li>2. Industrial additive manufacturing shall comply with Section 322.3</li> </ol> <p>322.1.2 Installation, operation and maintenance. 3D printers and associated additive manufacturing equipment shall be installed, operated and maintained in accordance with this code, the listing and the manufacturer's instructions.</p> <p>322.1.3 Production materials. Only the production materials <i>listed</i> for use with the equipment and included in the manufacturer's instructions shall be used.</p> <p>322.2 Nonindustrial additive manufacturing. Nonindustrial additive manufacturing equipment and operations shall comply</p>



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		<p>with Sections 322.2.1 and 322.2.2. Additive manufacturing equipment and operations that do not comply with Section 322.2 shall comply with Section 322.3.</p> <p>322.2.1 Listing. 3D printers used in nonindustrial additive manufacturing shall be <i>listed</i> and <i>labeled</i> in accordance with UL2011, UL 60950-1 or UL 62368-1. The listing shall also verify:</p> <ol style="list-style-type: none"> <li>1. The 3D printers are self-contained and utilize maximum 30-liter prepackaged production materials.</li> <li>2. The operation of the 3D printers shall not create a hazardous (classified) electrical area or zone outside the unit.</li> <li>3. If any hazardous (classified) electrical area or zone exists inside the unit's outer enclosure, the area shall be protected by intrinsically safe electrical construction or other acceptable protection methods.</li> <li>4. The 3D printers shall not utilize inert gas or an external combustible dust collection system.</li> </ol> <p>322.2.2 Occupancies. Nonindustrial additive manufacturing shall be permitted in all occupancy groups.</p> <p>322.3 Industrial additive manufacturing. Industrial additive manufacturing equipment and operations shall comply with Sections 322.3.1 through 322.3.12.</p> <p>322.3.1 Permits required. Permits shall be obtained from the <i>fire code official</i> in accordance with Section 105.5 prior to engaging in industrial additive manufacturing operations.</p>
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	<p>322.3.2 Listing. 3D printers used in industrial additive manufacturing shall be <i>listed</i> and <i>labeled</i> in accordance with UL 2011 or <i>approved</i> for the application based on a field evaluation conducted by an <i>approved</i> agency.</p> <p>322.3.3 Combustible dusts and metals. Industrial additive manufacturing operations that store, use or produce combustible dust, combustible particulate solids or combustible metals shall comply with Chapter 22 and this section.</p> <p>322.3.4 Powder evaluation. Printing powders used in industrial additive manufacturing operations shall be tested for combustibility in accordance with NFPA 484 or NFPA 652 as applicable. A copy of test reports shall be provided to the <i>fire code official</i> upon request.</p> <p>322.3.5 Combustible (nonmetallic) dusts. Industrial additive manufacturing operations that store, use or produce combustible (nonmetallic) dusts shall comply with NFPA 654.</p> <p>322.3.6 Combustible metals. Industrial additive manufacturing operations that store or use combustible metals shall comply with NFPA 484.</p> <p>322.3.7 Ancillary equipment. Ancillary equipment provided for recycling, sieving, vacuuming or handling combustible powders shall be designed and <i>approved</i> for such use.</p> <p>322.3.8 Hazardous materials. Industrial additive manufacturing operations that store or use hazardous materials exceeding the</p>
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		<p>maximum allowable quantity limits shall comply with Chapter 50.</p> <p><b>322.3.9 Inert gas.</b> Additive manufacturing processes that utilize inert gases shall comply with Chapter 53. Ventilation or gas detection shall be provided in accordance with Section 5307.</p> <p><b>322.3.10 Technical assistance.</b> Where required by the <i>fire code official</i>, a report evaluating the acceptability of technologies, processes, products, facilities, materials and uses associated with the operation shall be provided in accordance with Section 104.9 and <i>approved</i></p> <p><b>322.3.11 Performance-based design alternative.</b> Where <i>approved</i> by the <i>fire code official</i>, buildings and facilities where industrial additive manufacturing is performed shall be permitted to comply with the performance-based design options in Section 5001.3 as an alternative to compliance with the other requirements set forth in this section.</p> <p><b>320.3.12 Occupancies.</b> Industrial additive manufacturing shall be conducted only in the occupancy groups associated with manufacturing operation and permitted by the Chapter 50 maximum allowable quantity tables. Where <i>approved</i>, the requirements in Section 322.3.6 shall be permitted to provide the technical basis for determining compliance with Table 5003.1.1(1), Note q.</p>
<p><b>Action and Reason:</b> Adding 3D printer requirements from the base 2021 International Fire Code to the current Phenix Fire Code that is based on the 2018 International Fire Code. As material and manufacturing technology improve, adapt, and change, the fire code needs to adapt at the same pace to meet the needs and expectations of our development community. Clear sizing of exempted amounts of</p>		



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	<p>product and listed equipment guidelines narrows the requirement for permitting to commercial rather than personal levels of 3-D printers. The guidelines provided in these sections give a predictable path to successful installation and prescriptive guidelines that previously required a special engineered report and use of the Appeals process to address this new technology while allowing for that performance-based design alternatives as the technology continues to evolve.</p> <p><b>Results of Action for City and Community:</b> This action allows for clear guidance for proper and safe installation of 3-D printing equipment without requiring the engineering evaluation of smaller units, reflecting the wide use of these printers in schools and homes.</p>	
<b>34.</b>	<b>323</b>	<p><b>Trade Shows and Exhibits.</b> Trade Shows and Exhibits shall conform to Appendix N.</p> <p><b>Action and Reason:</b> This adopts the International Fire Code Appendix N that regulates and permits trade shows and exhibits. These activities can present a unique fire danger based on their contents, layout, booth construction, and large attendance. Prior to this appendix creation, the Phoenix Fire Code had a specific trade show section. This aligns Phoenix Fire Code with the national fire code.</p> <p><b>Results of Action for City and Community:</b> There are no event design or setup enforcement, or requirement changes based on adopting this appendix. This change serves to clarify the section for trade shows and exhibits in the Phoenix Fire Code.</p>



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<b>35.</b>	<b>403.10.3.1</b>	<b>Fire safety and evacuation plan.</b> The fire safety and evacuation plan required by Section 404 shall include <del>special employee actions, including fire protection procedures necessary for residents, and shall be amended or revised upon admission of a resident with unusual needs.</del> a description of staff actions. Plans shall include procedures necessary for full evacuation of care recipients and shall be amended or revised upon admission of care recipients with unusual needs.
	<b>Action and Reason:</b> Rewording of code language to better clarify and express requirements of the safety and evacuation plan.	
	<b>Results of Action for City and Community:</b> Provided clarity for operations and facilities that are required to comply with this section base on their facility design or use.	
<b>36.</b>	<b>403.10.3.1.1</b>	<b>Fire safety plans.</b> A copy of the plan shall be maintained at the facility at all times. Plans shall include the following in addition to the requirements of Section 404: 1. Location and number of <del>resident</del> sleeping rooms. 2. Location of special locking <del>or egress control</del> arrangements
	<b>Action and Reason:</b> Rewording of code language to better clarify and express requirements of the safety and evacuation plan.	
	<b>Results of Action for City and Community:</b> Provided clarity for operations and facilities that are required to comply with this section based on their facility design or use.	



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37.	403.10.3.2	<del>Employee training.</del> Employees shall be periodically instructed and kept informed of their duties and responsibilities under the plan. Records of instruction shall be maintained. Such instruction shall be reviewed <del>by employees</del> at intervals not exceeding two months. A copy of the plan shall be readily available at all times within the facility. Training of new staff shall be provided promptly upon employment. Staff shall be instructed in the proper use of portable fire extinguishers.
<b>Action and Reason:</b> Rewording of code language to better clarify and express requirements of the safety and evacuation plan.		
<b>Results of Action for City and Community:</b> Provided clarity for operations and facilities that are required to comply with this section base on their facility design or use.		
38.	503.3.2	<b>Fire apparatus access road signs.</b> Required fire apparatus access road markings <del>less than 36 feet (10972 mm) wide</del> shall be identified by fire lane signs (see Appendix D) and red curbs <del>on both sides of the road</del> as follows:
<b>Action and Reason:</b> Removal of a clerical mistype inadvertently added to this section. Sections 503.3.3, 503.3.4, and 503.3.5 already state the width of roads in comparison to their fire lane signage and red curb requirements.		
<b>Results of Action for City and Community:</b> The action clarifies the code requirements for fire lanes and removes the unintended requirement for fire lanes on both sides of roads less than 36 ft.		



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39.	505.1.2	<b>Commercial occupancies.</b> Premises identification shall be provided for Group A, B, E, F, H, I, M, S and U occupancies. The building identification is required to be internally or externally illuminated to meet visibility requirements in low or no light conditions.
	<b>Action and Reason:</b> Adding illumination text to the section. This requirement for illumination is currently found in the immediately following section 505.1.2.1 and the intent was to apply to all commercial addressing (505.1.2.1, 5.5.1.2.2, and 505.1.2.3). However, due to a clerical mistype, it was inadvertently placed in the wrong section at print.	
	<b>Results of Action for City and Community:</b> This action will ensure that address numbering at commercial locations, that are critical to reducing emergency response times, are visible in low and no light conditions.	
40.	505.1.2.1	<b>Buildings less than 200 feet.</b> Buildings less than 200 feet (60,960 mm) long and less than 100 feet (30,480 mm) from the edge of the road shall be identified with a building address that is not less than 12 inches (305 mm) high with a minimum 2-inch (51 mm) brush stroke on a contrasting background. The address shall be visible from all access directions. <del>The building identification is required to be internally or externally illuminated.</del>
	<b>Action and Reason:</b> This item is to be correctly moved to the code section referenced in item #39 of this document.	
	<b>Results of Action for City and Community:</b> This action will ensure that address numbering at commercial locations, that are critical to reducing emergency response times, are visible in low and no light conditions.	



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41.	510.4.1	<b>Emergency responder communication enhancement coverage system signal strength.</b> The building shall be considered to have acceptable in-building, two-way emergency responder communications <del>enhancement-system coverage</del> <del>when</del> where signal strength measurements in 95 percent of all areas and 99 percent of areas designated as <i>critical areas</i> by the <i>fire code official</i> on each floor of the building meet the signal strength requirements in Sections 510.4.1.1 through 510.4.1.3.
	<p><b>Action and Reason:</b> Rewording of code language to better clarify and express requirements of Emergency Responder Communications Coverage systems. Coincides with latest terminology of latest referenced standards which allow for greater flexibility in radio coverage installations.</p> <p><b>Results of Action for City and Community:</b> These systems provide first responders the ability to communicate on portable radios in buildings that would otherwise not be possible due to the buildings size, height, or construction material used. These systems are critical for first responders' safety. These changes strengthen the safety factor for "critical areas" like stairwells in buildings by increasing the signal requirements from 95% to 99%.</p>	
	703.2	<b>Repair of penetrations.</b> Where damaged, materials used to protect membrane- and through-penetrations shall be replaced or restored with materials or systems that meet or exceed the code requirements applicable at the time when the assembly was constructed, remodeled or altered.
	<p><b>Action and Reason:</b> Adding a new section from the 2021 International Fire Code that addresses items not previously clarified in current code.</p> <p><b>Results of Action for City and Community:</b> Provided clarity for operations and facilities that repair damage to fire rated barriers to ensure the barrier maintains required listing and protection factor.</p>	



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<b>901.4.6.3</b>	<b>Environment.</b> Automatic sprinkler system riser rooms and fire pump rooms shall be maintained at a temperature of not less than 40°F (4°C) <del>and not more than 100°F (37°C)</del> . All fire protection equipment in the room/space shall be listed for the temperatures anticipated in the space/room. If equipment listing temperatures and/or manufacture specifications fall below the anticipated maximum room/space temperatures, then cooling shall be provided to meet equipment listing. Heating and cooling units shall be permanently installed.
<b>Action and Reason:</b> The intent behind the original text in adopted code was to ensure that the equipment in the room was protected from overheating. The base fire code only addresses freezing. Unique to the Phoenix area, we must be aware of electronic and equipment in non-cooled rooms/spaces. This code change requires cooling be provided if the equipment in the room/space are listed for temperatures under the anticipated maximum room temperature. In most situations, equipment with electronics and microprocessors will require cooling for the room/space.	
<b>Results of Action for City and Community:</b> This action benefits the customer as currently all rooms/spaces must have cooling. This change allows the cooling to be omitted if the equipment in the room is listed for the extreme Phoenix summer heat.	
<b>901.6</b>	<b>901.6 Inspection, testing and maintenance.</b> Fire detection and alarm systems, emergency alarm systems, gas detection systems, fire-extinguishing systems, smoke control systems, mechanical smoke exhaust systems and smoke and heat vents shall be maintained in an operative condition at all times, and shall be replaced or repaired where defective. Appendix I is adopted as part of the Phoenix Fire Code. This appendix is not intended to provide comprehensive inspection, testing and maintenance requirements, which are found in NFPA 10, 25 and 72. Rather, it is intended to identify problems that are readily observable during fire inspections. Nonrequired fire protection systems and equipment shall be inspected, tested and maintained or removed.



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	<p><b>Action and Reason:</b> This text addition to the code adopts Appendix I of the 2018 International Fire Code into the Phoenix Fire Code. This appendix expresses some of the common observable violations that can impair a fire protection system from operating correctly.</p>
	<p><b>Results of Action for City and Community:</b> This adoption will add a job aid to fire inspection staff with additional detailed inspections points to observe while conducting inspections. This appendix does not create any new code requirements or violations. It only offers to identify common observable ones.</p>
901.7	<p><b>Systems out of service.</b> Where a required fire protection system is out of service, <del>the Phoenix Fire Department Alarm Room, 602-495-5555 shall be notified immediately</del> and, where required by the fire code official, the building shall be either evacuated and/or an approved fire watch shall be provided <del>for all occupants left unprotected by the shutdown</del> until the fire protection system has been returned to service. <del>Failure to comply may result in the revocation of qualified contractor status to be an accepted Inspecting Authority within the City of Phoenix.</del></p> <p>Where utilized, fire watches shall be provided with not less than one approved means for notification of the fire department and their only duty shall be to perform constant patrols of the protected premises and keep watch for fires.</p>
	<p><b>Action and Reason:</b> Returns requirements to national standard language for facilities that have approved mitigation procedures in place for impairments of life safety systems.</p>
	<p><b>Results of Action for City and Community:</b> More flexibility is offered to the community in addressing temporary and accidental impairments to life safety systems.</p>



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907.5.2.2.5	<del>Emergency</del> <b>Standby Power</b> . Emergency voice/ alarm communications systems shall be provided with emergency power in accordance with Section 1203. <del>The system shall be capable of powering the required load for a duration of not less than 24 hours, as required in NFPA 72.</del>
<b>Action and Reason:</b> This aligns the type of power source in accordance with current national base IFC 2021	
<b>Results of Action for City and Community:</b> Aligns requirement with national code.	
	Intentionally Left Blank
<b>Action and Reason:</b>	
<b>Results of Action for City and Community:</b>	
914.3.1.2	<b>Water supply to required fire pumps.</b> In buildings that are more than 420 feet (128 m) in building height, and buildings of Type IVA and IVB construction that are more than 120 feet (36.6 m) in <i>building height</i> , required fire pumps shall be supplied by connections to not fewer than two water mains located in different streets. Separate supply piping shall be provided between each connection to the water main and the pumps. Each connection and the supply piping between the connection and the pumps shall be sized to supply the flow and pressure required for the pumps to operate.



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<b>Action and Reason:</b> Adding in new language found in the 2021 International Fire Code that ensures Heavy Wood Timber (IVB) constructed buildings of more than 120 feet tall are provided with secondary water supplies to avoid fire protection disruption. This would help to ensure that a single water shut down would not shut down the whole building's fire protection systems.	
<b>Results of Action for City and Community:</b> This will provide a higher level of protection for occupants during disruptions to service, in heavy timber high rises along with enhanced fire fighter safety and ability to mitigate a fire emergency.	
<b>2007.6</b>	<b>Foam protection.</b> Foam fire-protection capabilities shall be provided for rooftop heliports. Such systems shall be designed, installed and maintained in accordance with the applicable provisions of Sections 903 through 905 and NFPA 11 & 418 409.
<b>Action and Reason:</b> This change in the NFPA numbers is to correct a clerical error that resulted in the original code adoption referencing the incorrect NFPA standards for foam systems.	
<b>Results of Action for City and Community:</b> This action does not alter or change the enforcement or requirements of the Phoenix Fire Code and only serves to eliminate incorrect NFPA standard reference numbering.	
<b>3103.3.2 3108</b>	<b>3103.3.2 3108 Mazes.</b> Mazes including, but not limited, to corn stalk or hedge mazes, shall be in accordance with this section and Section 3106.  <b>3103.3.2.1 3108.1 Safe refuge areas.</b> Safe refuge areas shall be established outside of the maze or building and structure, and shall not be closer than 50 feet (15240 mm).  <b>3103.3.2.2 3108.2 Paths.</b> Paths throughout the maze shall be a



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minimum of 36 inches (914 mm) clear and unobstructed width.

~~3103.3.2.3~~ **3108.3 Separation.** Not less than 20 feet (6096 mm) shall be provided between mazes and buildings and structures. The 20-foot (6096 mm) clearance shall be free from vegetation and obstructions.

~~3103.3.2.4~~ **3108.4 Means of egress.** Each exit shall be not less than 6 feet (1828 mm) wide.

~~3103.3.2.5~~ **3108.5 Travel distance.** The maximum travel distance to reach an exit access shall not exceed 75 feet (22,860 mm). The travel distance shall be determined by using the maze path.

~~3103.3.2.6~~ **3108.6 Number.** The travel distance required to reach an exit access shall determine the number of exits required. Locking devices shall remain unlocked on exits when the maze is occupied.

~~3103.3.2.7~~ **3108.7 Exit signs.** Signs shall be provided next to or above each exit. The lettering shall be not less than 12 inches (305 mm) high with 2-inch (51 mm) brushstrokes. The signs shall read EXIT with lettering in a color contrasting to the sign's background.

~~3103.3.2.8~~ **3108.8 Security plan.** The plan shall document who shall provide security (e.g., off-duty police officers, sheriff's posse, employees). All security personnel shall be provided with a 2-way radio and flashlight.

~~3103.3.2.9~~ **3108.9 Evacuation plans.** The plan shall document the responsibilities of all on-site employees. The plan shall also document how attendees will be evacuated and where they will be evacuated.



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		<p><del>3103.3.2.10</del> 3108.10 <b>Maze rules.</b> Rules shall be posted at the maze entrance.</p> <p><del>3103.3.2.11</del> 3108.11 <b>Employee responsibilities.</b> Each employee shall be familiar with the evacuation plan and with fire extinguisher locations. Documentation of training shall be provided to the fire code official.</p> <p><del>3103.3.2.12</del> 3108.12 <b>Employee guides.</b> An employee shall be responsible for guiding a group of not more than 14 attendees through the maze. Each employee shall be provided with one flashlight and a two-way radio. The employees shall be responsible for detecting and reporting fire or smoke to a competent person posted at the maze main entrance and begin evacuation procedures.</p> <p><del>3103.3.2.13</del> 3108.13 <b>Main entrance employee.</b> Each maze shall be manned by an employee at the entrance. The employee shall be capable of communicating with the employees and shall be provided with a cellular telephone. When the main entrance employee receives a report of smoke, fire or injury, the employee shall immediately call 911.</p> <p><del>3103.3.2.14</del> 3108.14 <b>Watering.</b> Corn stalk and hedge mazes shall be provided with sufficient water and at a frequency that prevents the vegetation from becoming dry or brittle. Failure to comply with this provision creates an imminent hazard and the fire code official shall issue a stop order.</p> <p><del>3103.3.2.15</del> 3108.15 <b>Buildings and structures.</b> Where buildings and structures are intended to be occupied by attendees, the building and structure shall comply with Section 905 regarding Class III standpipes.</p>
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	<b>Action and Reason:</b> This section for “Mazes” was clerically placed in the wrong location of the Chapter when printed. This corrected that clerical error.	
	<b>Results of Action for City and Community:</b> There is no permitting or regulatory change as a result of this action.	
51.	5003.2.2.1	2. Piping and tubing shall be identified in accordance with ASME A13.1. Markings used for piping systems shall consist of the content’s name and include a direction-of-flow arrow. Markings shall be provided at each valve; at wall, floor or ceiling penetrations; at each change of direction; and at a minimum of every 20 feet (6096 mm) or fraction thereof throughout the piping run.
	<b>Action and Reason:</b> This action changes a clerical error in the original code adoption where ASME A13 was an incorrect statement. The correct ASME is 13.1	
	<b>Results of Action for City and Community:</b> This action does not alter or change the enforcement or requirements of the Phoenix Fire Code and only serves to eliminate incorrect ASME standard reference numbering.	
52.	5005.1.12	<b>Emergency isolation.</b> Where gases or liquids having a hazard ranking of Health Class 3 or 4, Flammability Class 4, <del>Water Reactive</del> <b>Reactivity</b> Class 3 or 4 or Instability Class 3 or 4 in accordance with NFPA 704 are carried in pressurized piping above 15 pounds per square inch gauge (psig) (103 kPa), an approved means of leak detection and emergency shutoff or excess flow control shall be provided. Where the piping originates from within a hazardous material storage room or area, the excess flow control shall be located within the storage room or area. Where the piping originates from a bulk source, the excess flow control shall be located as close to the bulk source as practical.



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**Action and Reason:** Change the hazards classification description of “Reactivity” to “Water Reactive” as the original statement was a clerical error in the original adoption of the fire code.

**Results of Action for City and Community:** This action does not alter or change the enforcement or requirements of the Phoenix Fire Code and only serves to eliminate incorrect hazards classification description.

53.

**Chapter 80**

**API**

Std 2000 - ~~6<sup>th</sup>~~ 7<sup>th</sup> Edition (~~2009~~ 2014): Venting Atmosphere and Low-pressure Storage Tanks: Nonrefrigerated and Refrigerated

RP 2028 – 3<sup>rd</sup> Edition (2002) Flame Arresters in Piping Systems

RP 2350 – 5<sup>th</sup> Edition (2021) Overfill Prevention for Storage Tanks in Petroleum Facilities

**ASHRAE** The American Society of Heating, Refrigerating and Air-Conditioning Engineers

15 – ~~2016~~ 2022 Safety Standard for Refrigeration Systems

**ASME**

A13.1 – ~~2015~~ 2020

B31.3 – ~~2016~~ 2020 Process Piping

BPVC - ~~2015~~ 2019: ASME Boiler and Pressure Vessel Code (Sections I, II, IV, V & VI, VIII)



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	<p><b>ANSI/BHMA</b></p> <p>A156.38 – 2009 Low Energy Power Operated Sliding and Folding Doors</p> <p>A156.27 – 2019 Power and Manual Operated Revolving Pedestrian Doors</p> <p>A156.19 – 2007 Power Assist and Low-Energy Power Operated Doors</p> <p>A156.10 – 2007 Power Operated Pedestrian Doors</p> <p><b>OSHA</b></p> <p>29 CFR 1910 &amp; 1926</p> <p><b>NFPA</b></p> <p><b>855 – 20 23 Standard for the installation of energy storage systems</b></p> <p>1221 – 19 Standard for the Installation, Maintenance, and Use of Emergency Services Communication Systems</p>
	<p><b>Action and Reason:</b> As material and manufacturing technology improve, adapt, and change, the fire code needs to adapt at the same pace to meet the needs and expectations of our development community. These changes update current adopted national standards to newer editions and versions to ensure the Phoenix Fire Code can provide safety while still promoting growth of new and emerging technologies and code development.</p>
	<p><b>Results of Action for City and Community:</b> This action will bring the reference standards more in line with current editions.</p>



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	408	Emergency Response Preplanning. When required by the Fire Code Official a facility, property, and/or business shall provide the Fire Code Official with a site plan and building layout (internal and external) identifying emergency access points, fire control and protection equipment locations, and other life safety features inside the property and structures.
<ul style="list-style-type: none"> <li><b>Action and Reason:</b> This is a new requirement to the Phoenix Fire Code to address identification of emergency equipment and locations both outside and inside a building that are used during emergencies. When responding to emergencies, time is a critical factor in the ability of first responders to facilitate successful emergency operations and results. The ability to preplan and understand a buildings' critical life safety features are an integral part of this component of response. Current Phoenix Fire Code (Sections 404 Emergency Plans and 407 Hazard Communications) requires building operators and owners to produce some information relating to their building designs, layouts, and system locations/features based on occupancy type. However, the fire code currently falls short in its ability to ensure first responders have critical information relating to facilities. This missing information encompasses the locations of fire department connections (FDC), fire sprinkler riser rooms, standpipe locations, fire fighter breathing air locations, smoke control and evacuation panel locations, blind elevator shafts, and similar system locations and access points.</li> </ul>		
<p><b>Results of Action for City and Community:</b> This action will enhance fire fighter and building occupant safety by allowing responding first responders to evaluate and formulate plans while enroute and while operating on-scene.</p>		



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1204.2.3

Building-integrated photovoltaic (BIPV) systems.  
Where building-integrated photovoltaic (BIPV) systems are installed in a manner that creates areas with electrical hazards to be hidden from view, markings shall be provided to identify the hazardous areas to avoid. The markings shall be reflective and be visible from grade.

Exception: BIPV systems *listed* in accordance with Section 690.12(B)(2) of NFPA 70 (2020 edition), where the removal or cutting away of portions of the BIPV system during fire-fighting operations have been determined to not expose a fire fighter to electrical shock hazards.

**Action and Reason:** This requirement reflects new language in the International Fire Code of which our Phoenix Fire Code is derived from. This new section requires markings and signage to address concerns for fire fighter safety when cutting holes or exposing wires in a building during fire ground operations that may still be energized from a photovoltaic (solar) system.

**Results of Action for City and Community:** This action will enhance fire fighter and building occupant safety.

1206.2.2

**Construction documents.** The following information shall be provided with the permit application:  
1. Location and layout diagram of the room in which the stationary storage battery system is to be installed.  
2. Details on hourly fire-resistance-rated assemblies provided.  
3. Quantities and types of storage batteries and battery systems.  
4. Manufacturer's specifications, ratings and listings of storage batteries and battery systems.  
5. Details on energy management systems.



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	<p>6. Location and content of signage.  7. Details on fire-extinguishing, smoke detection and ventilation systems.  8. Rack storage arrangement, including seismic support criteria.  9. A commissioning plan Section TBD  10. A decommissioning plan Section TBD</p>
<p><b>Action and Reason:</b> This requirement reflects new language in the International Fire Code of which our Phoenix Fire Code is derived from. This code section requires a commission and decommission plan be created for ESS installations. This will help ensure that safe and code compliant procedures are adhered to when the systems are brought online and when they meet their end of life.</p>	
<p><b>Results of Action for City and Community:</b> This action help provide a plan for the safe operation and decommissioning of ESS installations over their life span.</p>	
<p>1206.1</p>	<p><del>Scope. The provisions in this section are applicable to energy storage systems designed to provide electrical power to a building or facility. These systems are used to provide standby or emergency power, an uninterruptable power supply, load shedding, load sharing or similar capabilities. Energy storage systems in Group R-3 and R-4 occupancies shall be in accordance with Sections 1206.2.1 and 1206.4. Approved signage is required for all installations.</del></p> <p>General. The provisions in this section are applicable to stationary and mobile Energy Storage System (ESS).</p> <p>Exception: ESS in Group R-3 and R-4 occupancies exceeding those amounts listed in table 1206.2 shall comply with Section 1206.4 and 1206.2.1.1</p>
<p><b>Action and Reason:</b> These changes to the current code text serve only to better articulate the size of an energy storage system that would be regulated and permitted by this section.</p>	



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<b>Results of Action for City and Community:</b> There is no change in the regulation amounts or permitting as a result of this action.	
<b>1206.2.1</b>	<p><del>Permits. Permits shall be obtained for the construction and operation of stationary storage battery systems with a capacity of more than 3 kWh, in accordance with Section 105.7.2.</del></p> <p>Scope. ESS having capacities exceeding the values shown in Table 1206.2 shall comply with this section.</p> <p>Exception: ESS in Group R-3 and R-4 occupancies exceeding those amounts listed in table 1206.2 shall comply with Section 1206.4</p>
<b>Action and Reason:</b> These changes to the current code text serve only to better articulate the size of an energy storage system that would be regulated and permitted by this section.	
<b>Results of Action for City and Community:</b> There is no change in the regulation amounts or permitting as a result of this action.	
<b>1206.2.1.1</b>	<p><del>Stationary storage battery systems. Stationary storage battery systems having capacities exceeding the values shown in Table 1206.2 shall comply with Section 1206.2.1 through 1206.2.13.6, as applicable. Approved signage is required for all installations.</del></p> <p>Permits. Permits shall be obtained for ESS as follows;</p> <ol style="list-style-type: none"> <li>1. Construction permits shall be obtained for stationary ESS installations greater than table 1206.2 and for mobile ESS charging and storage locations covered by Section 1207.10.1.</li> </ol>



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	<p>2. Permits shall be obtained in accordance with Section 105.7.2</p>													
<p><b>Action and Reason:</b> These changes to the current code text serve only to better articulate the size of an energy storage system that would be regulated and permitted by this section.</p>														
<p><b>Results of Action for City and Community:</b> There is no change in the regulation amounts or permitting as a result of this action.</p>														
1206.2.1	<p><del>Permits. Permits shall be obtained for the construction of stationary storage battery systems with a capacity of more than 3 kWh, in accordance with Section 105.7.2.</del></p>													
<p><b>Action and Reason:</b> These changes to the current code text serve only to better articulate the size of an energy storage system that would be regulated and permitted by this section.</p>														
<p><b>Results of Action for City and Community:</b> There is no change in the regulation amounts or permitting as a result of this action.</p>														
Table 1206.2	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">BATTERY TECHNOLOGY</th> <th style="text-align: left;">ENERGY CAPACITY a</th> </tr> </thead> <tbody> <tr> <td>Flow batteries</td> <td>20 kWh</td> </tr> <tr> <td>Lead-acid batteries, all types</td> <td>70 kWh</td> </tr> <tr> <td>Lithium, all types</td> <td>20 kWh</td> </tr> <tr> <td>Nickel-cadmium batteries (Ni-Cd)</td> <td>70 kWh</td> </tr> <tr> <td>Other battery technologies</td> <td>10 kWh</td> </tr> </tbody> </table>	BATTERY TECHNOLOGY	ENERGY CAPACITY a	Flow batteries	20 kWh	Lead-acid batteries, all types	70 kWh	Lithium, all types	20 kWh	Nickel-cadmium batteries (Ni-Cd)	70 kWh	Other battery technologies	10 kWh	
BATTERY TECHNOLOGY	ENERGY CAPACITY a													
Flow batteries	20 kWh													
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Stationary ESS in R3/4 Occupancies	3 kWh
Other electrochemical ESS	3 kWh

**Action and Reason:** There are two actions with this table change. Firstly, the “*Stationary battery technologies at R-3 & R-4 occupancies*” change to the current table serves only to better articulate the size of an energy storage system that would be regulated and permitted by this section. Secondly, the “*Other electrochemical ESS*” is not currently in the Phoenix Fire Code but is found in the 2021 International Fire Code. As technology and manufacturing material improve, adapt, and change, the fire code needs to adapt at the same pace to meet the needs and expectations of our development community.

**Results of Action for City and Community:** This will set forth the regulation of new ESS (battery) technology and chemistry types not yet developed or envisioned when the current Phoenix Fire Code was adopted.

1207

### PORTABLE GENERATORS

1207.1 Portable generators. The use, operation and maintenance of portable generators shall comply with this section.

1207.2 Listing. Portable generators manufactured after January 1, 2021, shall be *listed* and *labeled* in accordance with UL 2201.

1207.3 Operation and maintenance. Portable generators shall be operated and maintained in accordance with the manufacturer’s instructions.

1207.4 Grounding. Portable generators shall be grounded in accordance with NFPA 70.



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1207.5 Operating locations. Portable generators shall be operated only outdoors a minimum of 5 feet (1524 mm) from any building openings such as windows and doors or air intakes. Portable generators shall not be operated within buildings or enclosed areas. Additional separation shall be provided for tents, membrane structures and outdoor assembly events as specified in Chapter 31.

1207.6 Cords and wiring. Extension cords and temporary wiring used to connect portable generators shall be in accordance with Section 604 and shall be provided with GFCI protection.

1207.7 Connections to premise wiring. Connections to a premise wiring system shall comply with all of the following:

1. Power shall not be provided in a manner that "backfeeds" receptacles or the premise wiring system.
2. Connection to a premise served by commercial power shall be made through a *listed* transfer switch installed, used and maintained in accordance with NFPA 70.
3. Connection to buildings not served by commercial power shall comply with NFPA 70.

1207.8 Refueling. Portable generators shall not be refueled while operating.

1207.9 Storage and repair. Storage and repair of fuel-fired portable generators shall comply with Section 313.

1207.10 Fire extinguisher. A listed portable fire extinguisher complying with Section 906 with a minimum rating of 2-A:20-B:C shall be provided not more than 50 feet (15 240 mm) from the portable generator.



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	<p><b>Action and Reason:</b> This requirement reflects new language in the 2021 International Fire Code of which our Phoenix Fire Code is derived from.</p>	
	<p><b>Results of Action for City and Community:</b> These new sections address the hazards associated with portable generators and work to reduce and hopefully eliminate any possible hazards situation with their use.</p>	
	<table border="1"> <tr> <td data-bbox="277 1142 496 1780"> <p><b>Final Numbering TBD</b></p> </td> <td data-bbox="496 1142 1471 1780"> <p>1203.2.5 <b>(Final Numbering TBD)</b> Exhaust ventilation. Standby power shall be provided for mechanical exhaust ventilation systems as required in Section 1207.6.1.2.1 <b>(Final Numbering TBD)</b>. The system shall be capable of powering the required load for a duration of not less than 2 hours.</p> <p>1203.4.1 Group I-2 and ambulatory care facilities. In Group I-2 occupancies and ambulatory care facilities, emergency and standby power systems shall be maintained in accordance with NFPA 99.</p> <p>1203.5.1 Group I-2 and ambulatory care facilities. In Group I-2 occupancies and ambulatory care facilities, emergency and standby power systems shall be inspected and tested under load in accordance with NFPA 99.</p> </td> </tr> </table>	<p><b>Final Numbering TBD</b></p>
<p><b>Final Numbering TBD</b></p>	<p>1203.2.5 <b>(Final Numbering TBD)</b> Exhaust ventilation. Standby power shall be provided for mechanical exhaust ventilation systems as required in Section 1207.6.1.2.1 <b>(Final Numbering TBD)</b>. The system shall be capable of powering the required load for a duration of not less than 2 hours.</p> <p>1203.4.1 Group I-2 and ambulatory care facilities. In Group I-2 occupancies and ambulatory care facilities, emergency and standby power systems shall be maintained in accordance with NFPA 99.</p> <p>1203.5.1 Group I-2 and ambulatory care facilities. In Group I-2 occupancies and ambulatory care facilities, emergency and standby power systems shall be inspected and tested under load in accordance with NFPA 99.</p>	
<p><b>Action and Reason:</b> These proposed code sections reflects new language found in the 2021 International Fire Code</p>		



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<b>Results of Action for City and Community:</b> These changes reflect emergency and standby power requirements. This adoption of current 2021 International Fire Code base language supports our mission of community risk reduction.	
<b>Final Numbering TBD</b>	<p><b>1207.3.8 (Final Numbering TBD) Replacements.</b> Replacements of ESS shall be considered new ESS installations and shall comply with the provisions of Section 1207 (Final Numbering TBD) as applicable to new ESS. The ESS being replaced shall be decommissioned in accordance with Section 1207.2.3 (Final Numbering TBD).</p> <p><b>1207.3.9 (Final Numbering TBD) Reused and repurposed equipment.</b> Equipment and materials shall only be reused or reinstalled as permitted in Section 104.8.1. (Final Numbering TBD) Storage batteries previously used in other applications, such as electric vehicle propulsion, shall not be reused in applications regulated by Chapter 12 unless approved by the fire code official and unless the equipment is refurbished by a battery refurbishing company approved in accordance with UL 1974.</p> <p><b>1207.1.6.1 (Final Numbering TBD) Fire mitigation personnel.</b> Where, in the opinion of the fire code official, it is essential for public safety that trained personnel be on-site to respond to possible ignition or re-ignition of a damaged ESS, the system owner, agent or lessee shall immediately dispatch one or more fire mitigation personnel to the premise, as required and approved, at their expense. These personnel shall remain on duty continuously after the fire department leaves the premise until the damaged energy storage equipment is removed from the premises, or earlier if the fire code official indicates the public safety hazard has been abated.</p> <p><b>1207.1.6.2 (Final Numbering TBD) Duties.</b> On-duty fire mitigation personnel shall have the following responsibilities:</p>



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1. Keep a diligent watch for fires, obstructions to means of egress and other hazards.
2. Immediately contact the fire department if their assistance is needed to mitigate any hazards or extinguish fires.
3. Take prompt measures for remediation of hazards in accordance with the decommissioning plan per Section 1207.2.3 **(Final Numbering TBD)**.
4. Take prompt measures to assist in the evacuation of the public from the structures.

**1206.2.7 (Final Numbering TBD)** Testing, maintenance and repair and retrofitting. Storage batteries and associated equipment and systems shall be tested and maintained in accordance with the manufacturer's instructions. Any storage batteries or system components used to replace existing units shall be compatible with the battery charger, energy management systems, other storage batteries and other safety systems. Introducing other types of storage batteries into the stationary storage battery system or other types of electrolytes into flow battery systems shall be treated as a new installation and require approval by the fire code official before the replacements are introduced into service.

**1207.3.6 (Final Numbering TBD)** Repairs. Repairs of ESS shall only be done by qualified personnel. Repairs with other than identical parts shall be considered retrofitting and comply with Section 1207.3.7 **(Final Numbering TBD)**. Repairs shall be documented in the service records log.

**1207.3.7 (Final Numbering TBD)** Retrofits. Retrofitting of an existing ESS shall comply with the following:

1. A construction permit shall be obtained in accordance with Section 105.6.5 **(Final Numbering TBD)**.
2. New batteries, battery modules, capacitors and similar ESS components shall be listed.



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	<p>3. Battery management and other monitoring systems shall be connected and installed in accordance with the manufacturer's instructions.</p> <p>4. The overall installation shall continue to comply with UL 9540 listing requirements, where applicable.</p> <p>5. Systems that have been retrofitted shall be commissioned in accordance with Section 1207.2.1 <b>(Final Numbering TBD)</b>.</p> <p>6. Retrofits shall be documented in the service records log.</p> <p>1207.3.7.1 <b>(Final Numbering TBD)</b> Retrofitting lead acid and nickel cadmium. Section 1207.3.7 <b>(Final Numbering TBD)</b> shall not apply to retrofitting of lead-acid and nickel-cadmium batteries with other lead-acid and nickel-cadmium batteries at facilities under the exclusive control of communications utilities that comply with NFPA 76 and operate at less than 50 VAC and 60 VDC.</p> <p><del>1206.2.10.1 Listings. Storage batteries and battery storage systems shall comply with the following:</del></p> <p><del>1. Storage batteries shall be listed in accordance with UL 1973.</del></p> <p><del>2. Prepackaged and pre-engineered stationary storage battery systems shall be listed in accordance with UL 9540.</del></p> <p><del>Exception: Lead-acid batteries are not required to be listed.</del></p> <p>1206.2.10.1 <b>(Final Numbering TBD)</b> Energy storage system listings. ESS shall be listed in accordance with UL 9540. Exception: Lead-acid and nickel-cadmium battery systems installed in facilities under the exclusive control of communications utilities, and operating at less than 50 VAC and 60 VDC in accordance with NFPA 76, are not required to be listed.</p>
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	<p><b>1207.3.2 (Final Numbering TBD) Equipment listing.</b> Chargers, inverters and energy storage management systems shall be covered as part of the UL 9540 listing or shall be listed separately.</p> <p><b>1207.3.3 (Final Numbering TBD) Utility interactive systems.</b> Inverters shall be listed and labeled in accordance with UL 1741. Only inverters listed and labeled for utility interactive system use and identified as interactive shall be allowed to operate in parallel with the electric utility power system to supply power to common loads.</p> <p><b>1207.5.4.1 (Final Numbering TBD) System status.</b> Where required by the fire code official, visible annunciation shall be provided on cabinet exteriors or in other approved locations to indicate that potentially hazardous conditions associated with the ESS exist.</p> <p><del>1206.2.11.2 Smoke detection system. An approved automatic smoke detection system shall be installed in rooms containing stationary storage battery systems in accordance with Section 907.2.</del></p> <p><b>1207.5.4 (Final Numbering TBD) Fire detection.</b> An approved automatic smoke detection system or radiant energy-sensing fire detection system complying with Section 907.2 shall be installed in rooms, indoor areas and walk-in units containing electrochemical ESS. An approved radiant energy-sensing fire detection system shall be installed to protect open parking garage and rooftop installations. Alarm signals from detection systems shall be transmitted to a central station, proprietary or remote station service in accordance with NFPA 72, or where approved to a constantly attended location.</p>
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	<p>1207.5.4.1 (Final Numbering TBD) System status. Where required by the fire code official, visible annunciation shall be provided on cabinet exteriors or in other approved locations to indicate that potentially hazardous conditions associated with the ESS exist.</p> <p>1207.2 (Final Numbering TBD) Commissioning, decommissioning, operation and maintenance. Commissioning, decommissioning, operation and maintenance shall be conducted in accordance with this section.</p> <p>1207.2.1 (Final Numbering TBD) Commissioning. Commissioning of newly installed ESS and existing ESS that have been retrofitted, replaced or previously decommissioned and are returning to service shall be conducted prior to the ESS being placed in service in accordance with a commissioning plan that has been approved prior to initiating commissioning. The commissioning plan shall include the following:</p> <ol style="list-style-type: none"> <li>1. A narrative description of the activities that will be accomplished during each phase of commissioning, including the personnel intended to accomplish each of the activities.</li> <li>2. A listing of the specific ESS and associated components, controls and safety-related devices to be tested, a description of the tests to be performed and the functions to be tested.</li> <li>3. Conditions under which all testing will be performed, which are representative of the conditions during normal operation of the system.</li> <li>4. Documentation of the owner's project requirements and the basis of design necessary to understand the installation and operation of the ESS.</li> <li>5. Verification that required equipment and systems are installed in accordance with the approved plans and specifications.</li> <li>6. Integrated testing for all fire and safety systems.</li> </ol>
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7. Testing for any required thermal management, ventilation or exhaust systems associated with the ESS installation.
8. Preparation and delivery of operation and maintenance documentation.
9. Training of facility operating and maintenance staff.
10. Identification and documentation of the requirements for maintaining system performance to meet the original design intent during the operation phase.
11. Identification and documentation of personnel who are qualified to service, maintain and decommission the ESS, and respond to incidents involving the ESS, including documentation that such service has been contracted for.
12. A decommissioning plan for removing the ESS from service, and from the facility in which it is located. The plan shall include details on providing a safe, orderly shutdown of energy storage and safety systems with notification to the code officials prior to the actual decommissioning of the system. The decommissioning plan shall include contingencies for removing an intact operational ESS from service, and for removing an ESS from service that has been damaged by a fire or other event.

Exception: Commissioning shall not be required for lead-acid and nickel-cadmium battery systems at facilities under the exclusive control of communications utilities that comply with NFPA 76 and operate at less than 50 VAC and 60 VDC. A decommissioning plan shall be provided and maintained where required by the fire code official.

**1207.2.1.1 (Final Numbering TBD)** Initial acceptance testing. During the commissioning process an ESS shall be evaluated for proper operation in accordance with the manufacturer's instructions and the commissioning plan prior to final approval.

**1207.2.1.2 (Final Numbering TBD)** Commissioning report. A report describing the results of the system commissioning,



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including the results of the initial acceptance testing required in Section 1207.2.1.1 (**Final Numbering TBD**), shall be provided to the fire code official prior to final inspection and approval and maintained at an approved on-site location.

**1207.2.2 (Final Numbering TBD) Operation and maintenance.** An operation and maintenance manual shall be provided to both the ESS owner or their authorized agent and the ESS operator before the ESS is put into operation and shall include the following:

1. Manufacturer's operation manuals and maintenance manuals for the entire ESS, or for each component of the system requiring maintenance, that clearly identify the required routine maintenance actions.
2. Name, address and phone number of a service agency that has been contracted to service the ESS and its associated safety systems.
3. Maintenance and calibration information, including wiring diagrams, control drawings, schematics, system programming instructions and control sequence descriptions, for all energy storage control systems.
4. Desired or field-determined control set points that are permanently recorded on control drawings at control devices or, for digital control systems, in system programming instructions.
5. A schedule for inspecting and recalibrating all ESS controls.
6. A service record log form that lists the schedule for all required servicing and maintenance actions and space for logging such actions that are completed over time and retained on-site.

The ESS shall be operated and maintained in accordance with the manual and a copy of the manual shall be retained at an approved on-site location.



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**1207.2.2.1 (Final Numbering TBD)** Ongoing inspection and testing. Systems that monitor and protect the ESS installation shall be inspected and tested in accordance with the manufacturer’s instructions and the operation and maintenance manual. Inspection and testing records shall be maintained in the operation and maintenance manual.

**1207.2.3 (Final Numbering TBD)** Decommissioning. The code official shall be notified prior to the decommissioning of an ESS. Decommissioning shall be performed in accordance with the decommissioning plan that includes the following:  
1. A narrative description of the activities to be accomplished for removing the ESS from service, and from the facility in which it is located.  
2. A listing of any contingencies for removing an intact operational ESS from service, and for removing an ESS from service that has been damaged by a fire or other event.

**Action and Reason:** These proposed code sections reflects new language found in the 2021 International Fire Code

**Results of Action for City and Community:** These changes are a reflection of current 2021 International Fire Code base language that supports our mission of community risk reduction as it relates to ESS.

**1207.10 (Final Numbering TBD)** Mobile ESS equipment and operations. Mobile ESS equipment and operations shall comply with Sections 1207.10.1 (Final Numbering TBD) through 1207.10.7.7 (Final Numbering TBD).



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TABLE 1207.10 MOBILE ENERGY STORAGE SYSTEMS (ESS)

COMPLIANCE REQUIRED		
Feature	Section	DEPLOYMENT*
All ESS installations	1207.4	Yes <sup>a</sup>
Fire suppression systems	1207.5.5	Yes <sup>d</sup>
Maximum allowable quantities	1207.5.2	Yes
Maximum enclosure size	1207.5.6	Yes
Means of egress separation	1207.5.3	Yes
Size and separation	1207.5.1	Yes <sup>b</sup>
Smoke and automatic fire detection	1207.5.4	Yes <sup>c</sup>
Technology-specific protection	1207.5	Yes
Vegetation control	1207.5.7	Yes

- <sup>a</sup> See Section 1207.10.2
- <sup>b</sup> Mobile operations on trucks, vehicles and trailers shall not be required to comply with Section 1207.4.4 permit and structure gas requirements
- <sup>c</sup> Fire suppression system connected via the jacket flange shall be permitted to use approved temporary connections
- <sup>d</sup> In rack-in-unit, spraying is not required between ESS units and the walls of the enclosure
- <sup>e</sup> Alarm signals are not required to be transmitted to an approved station for mobile ESS except as to cases of fire

**1207.10.1 (Final Numbering TBD) Charging and storage.** For the purpose of Section 1207.10 (Final Numbering TBD), charging and storage covers the operation where mobile ESS are charged and stored so they are ready for deployment to another site, and where they are charged and stored after a deployment.

**1207.10.2 (Final Numbering TBD) Deployment.** For the purpose of Section 1207.10, deployment covers operations where mobile ESS are located at a site other than the charging and storage site and are being used to provide power.

**1207.10.3 (Final Numbering TBD) Permits.** Construction permits shall be provided for charging and storage of mobile ESS shall be provided for deployment of mobile ESS as required by Section 1207.1.2 (Final Numbering TBD).

**1207.10.4 (Final Numbering TBD) Construction documents.** Construction documents complying with Section 1207.1.3 (Final Numbering TBD) shall be provided with the construction permit application for mobile ESS charging and storage locations.

**1207.10.4.1 (Final Numbering TBD) Deployment documents.** The following information shall be provided with the operation permit applications for mobile ESS deployments:



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1. Relevant information for the mobile ESS equipment and protection measures in the construction documents required by Section 1207.1.3 (Final Numbering TBD).
2. Location and layout diagram of the area in which the mobile ESS is to be deployed, including a scale diagram of all nearby exposures.
3. Location and content of signage, including no smoking signs.
4. Description of fencing to be provided around the ESS, including locking methods.
5. Details on fire suppression, smoke and automatic fire detection, system monitoring, thermal management, exhaust ventilation and explosion control, if provided.
6. For deployment, the intended duration of operation, including anticipated connection and disconnection times and dates.
7. Location and description of local staging stops during transit to the deployment site. See Section 1207.10.7.5 (Final Numbering TBD).
8. Description of the temporary wiring, including connection methods, conductor type and size, and circuit overcurrent protection to be provided.
9. Description of how fire suppression system connections to water supplies or extinguishing agents are to be provided.
10. Contact information for personnel who are responsible for maintaining and servicing the equipment, and responding to emergencies as required by Section 1207.1.6.1 (Final Numbering TBD).

1207.10.5 (Final Numbering TBD) Approved locations. Locations where mobile ESS are charged, stored and deployed shall be restricted to the locations established on the construction permit.

1207.10.6 (Final Numbering TBD) Charging and storage. Installations where mobile ESS are charged and stored shall be treated as permanent ESS indoor or outdoor installations, and



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shall comply with the following sections, as applicable:

- 1. Indoor charging and storage shall comply with Section 1207.7.
- 2. Outdoor charging and storage shall comply with Section 1207.8.
- 3. Charging and storage on rooftops and in open parking garages shall comply with Section 1207.9 (**Final Numbering TBD**).

Exceptions:

- 1. Electrical connections shall be permitted to be made using temporary wiring complying with the manufacturer's instructions, the UL 9540 listing and NFPA 70.
- 2. Fire suppression system connections to the water supply shall be permitted to use approved temporary connections.

**1207.10.7 (Final Numbering TBD)** Deployed mobile ESS requirements. Deployed mobile ESS equipment and operations shall comply with this section and Table 1207.10 (**Final Numbering TBD**).

**1207.10.7.1 (Final Numbering TBD)** Duration. The duration of mobile ESS deployment shall not exceed 30 days.

Exceptions:

- 1. Mobile ESS deployments that provide power for durations longer than 30 days shall comply with Section 1207.10.6 (**Final Numbering TBD**).
- 2. Mobile ESS deployments shall not exceed 180 days unless additional approval from the Fire Code Official is obtained.

**1207.10.7.2 (Final Numbering TBD)** Restricted locations.

Deployed mobile ESS operations shall not be located indoors, in covered parking garages, on rooftops, below grade or under building overhangs.

**1207.10.7.3 (Final Numbering TBD)** Clearance to exposures.

Deployed mobile ESS shall be separated by a minimum of 10



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feet (3048 mm) from the following exposures:

1. Public ways.
2. Buildings.
3. Stored combustible materials.
4. Hazardous materials.
5. High-piled storage.
6. Other exposure hazards.

Deployed mobile ESS shall be separated by a minimum of 50 feet (15,240 mm) from public seating areas and from tents, canopies and membrane structures with an occupant load of 30 or more.

**1207.10.7.4 (Final Numbering TBD) Electrical connections.** Electrical connections shall be made in accordance with the manufacturer's instructions and the UL 9540 listing. Temporary wiring for electrical power connections shall comply with NFPA 70. Fixed electrical wiring shall not be provided.

**1207.10.7.5 (Final Numbering TBD) Local staging.** Mobile ESS in transit from the charging and storage location to the deployment location and back shall not be parked within 100 feet (30,480 mm) of an occupied building for more than 1 hour during transit, unless specifically approved by the fire code official when the permit is issued.

**1207.10.7.6 (Final Numbering TBD) Fencing.** An approved fence with a locked gate or other approved barrier shall be provided to keep the general public at least 5 feet (1,524 mm) from the outer enclosure of a deployed mobile ESS.

**1207.10.7.7 (Final Numbering TBD) Smoking.** Smoking shall be prohibited within 10 feet (3,048 mm) of mobile ESS. Signs shall be posted in accordance with Section 310.



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	<b>Action and Reason:</b> These proposed code sections reflects new language found in the 2021 International Fire Code	
	<b>Results of Action for City and Community:</b> These changes are a reflection of mobile ESS system language in the current 2021 International Fire Code base that supports our mission of community risk reduction.	
66.	Appendix D	Remove Appendix D's contents (Fire Department Details) from the adopted Fire Code and create a standalone "Phoenix Fire Department Access and Identification Detail Manual." Appendix D will now refer to this document for access details.
	<b>Action and Reason:</b> Chapter 5 of the Phoenix Fire Code drives the requirements for when emergency access is required. Appended D only serves to clarify the way in which the access is to me signed or marked. Example a fire lane sign color, size, lettering, font, and location. As access technology and emergency apparatus evolve, so must the emergency access and signage detail requirements of the fire code. This change allows Fire Prevention to adjust material and specs for access identification as industry evolves rather than awaiting a code change cycle.	
	<b>Results of Action for City and Community:</b> Fire Prevention can approve and allow new technology and materials with a reduced approval time frame for our customers.	
67.	105.6.36	<b>Outdoor assembly event.</b> An operational permit is required to conduct an outdoor assembly event where planned attendance exceeds 500 persons, or where 50 or more persons are in a confined area by temporary fencing or barriers.
	<b>Action and Reason:</b> With the original text, any event with 50 or more people on an already permitted patio or similar enclosed area would require an assembly permit. This was not the intent to require outdoor assembly permits for areas	



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already approved for that use. This new language now adds those confined by temporary fencing or barriers to apply to special temporary events only.

**Results of Action for City and Community:** This will reduce the confusion of the requirements and clarify the intent for temporary special events.



**Section 3**  
**Fire Prevention Fee Schedule Amendment**  
**Detailed Change Log**



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G7242



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**Fire Prevention Fee Schedule Amendments, Consistency, & Clarification Change Tracker**

<b>Changes after Adoption 2018 Fire Prevention Fee Schedule Amendment Log</b>	
Black Text = Current adopted Fee Schedule text	
Blue Bold Text = Proposed amended text to be added	
Blue Bold <del>Strikethrough</del> Text = Proposed amended text to be removed	
<b>Action Taken By:</b>	
<b>Fire Safety Advisory Board</b> <span style="float: right;"><b>Date 9/25/2023</b></span>	
<input checked="" type="checkbox"/> Approved as Submitted <input type="checkbox"/> Modified and Approved <input type="checkbox"/> Denied <input type="checkbox"/> No Action Taken	
<b>Public Safety &amp; Justice Subcommittee</b> <span style="float: right;"><b>Date 1/3/2024</b></span>	
<input checked="" type="checkbox"/> Approved as Submitted <input type="checkbox"/> Modified and Approved <input type="checkbox"/> Denied <input type="checkbox"/> No Action Taken	
<b>City Council Action</b> <span style="float: right;"><b>Date TBD</b></span>	
<input type="checkbox"/> Approved as Submitted <input type="checkbox"/> Modified and Approved <input type="checkbox"/> Denied <input type="checkbox"/> No Action Taken	
<b>Fee Group 5 Stationary Aboveground Storage Tank Assessment</b>	A Group 5 facility is any: Business, factory, institutional, storage or hazardous occupancy that also has storage of hazardous materials in stationary above-ground storage tanks, stationary cryogenic tanks or stationary pressure vessels having a capacity of greater than 60 gallons (227 L), <del>or compressed gas cylinder or dewars greater than 40 gallons (151 L).</del>
<b>Reason:</b> This action removes the \$525 annual assessment fee for properties that use Dewars between 40 – 60 gallons. These are commonly found as carbon dioxide (CO2) vessels used at food establishments and convenience stores for beverage systems. These CO2 systems and Dewars already have a recurring operational permit fees established.	
<b>Results of Action for City and Community:</b> This action removes the unintentional double assessment/fee for these Dewars at businesses. Currently through procedures and SOPs Fire Prevention has not been charging this assessment fee so no cost or fee impacts are anticipated to be experienced by the City or customer.	
<b>Solar Photovoltaic Power System and Electrical Energy Storage Systems Combo OTC</b>	To install or modify a residential solar photovoltaic power system with an alternating current nameplate rating of 3 kW - 15 kW alternating current nameplate rating and battery energy storage system with 3 kWh - 27 kWh capacity.  \$150 per hour / Minimum \$300 (2 hour)
<b>Reason:</b> To streamline processes and reduce costs for the solar and energy storage development community and end users, a combination permit has been introduced. This	



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<p>permit consolidates the over-the-counter permits for solar and battery installations at single-family residential locations when submitted together, resulting in reduced staff processing time and customer fees. Previously, separate permits incurred fees of 4 hours (\$600), whereas the new combo permit costs 2 hours (\$300) in total. This action also brings the permit fee in line with current staff time expenditures facilitating permitting and inspections for these types of installation. These permits account for only 3% of all energy system permits and will have a negligible effect on revenue. Based FY 22-23 data, this change would result in approximately \$63,000 in reduced revenue for a program that generates \$1.9 million in total revenue.</p>	
<p><b>Results of Action for City and Community:</b> Reduction in City staff resources required in processing applications and permits along with streamlining customer application and inspection process.</p>	
<p><b>Table Area Assessment Fees Table</b></p>	<p><b>Building Site area (ft2)</b></p>
<p><b>Reason:</b> This fee is based on total "site area" per code and not "building" site area. This was a clerical error in the original fee schedule that added the word building.</p>	
<p><b>Results of Action for City and Community:</b> No cost or fee impacts anticipated as this error has been temporarily addressed in Fire Prevention procedures and will now be corrected in code.</p>	
<p><b>After Hours Inspections</b></p>	<p>After-hours inspections shall be billed a minimum 3 hrs at the hourly rate. Additional time needed to complete the inspection will be billed at the hourly rate. Special Event permits (Pyrotechnic, bonfire, indoor/outdoor assembly, fire performer, vehicle display inside an assembly, amusement building, trade show, and tent) include 3 hours overtime in the permit fee. Additional time required will be billed at the established rate.</p>
<p><b>Reason:</b> Unlike other permit fees, special event permit fees currently have the base overtime rate compensation built into their permit fee. It was not intended to charge special event permits additional fees for overtime that do not exceed the 3 hours built into the permit.</p>	
<p><b>Results of Action for City and Community:</b> Action will ensure customers are not doubled billed for overtime inspection activity. No cost or fee impacts anticipated as this error has been temporarily addressed in Fire Prevention procedures and will now be corrected in code.</p>	



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<p><b>Semiconductor facility.</b></p>	<p>To operate a semiconductor facility that is not part of an HPM facility</p>
<p><b>Reason:</b> Current Phoenix Fire Code has a requirement for an operational permit for HPM facilities and semiconductor facilities. This results in code as currently adopted, having two permits for the same operation type.</p>	
<p><b>Results of Action for City and Community:</b> Action removes the unintentional possible double permitting and billing for these types of semiconductor facilities.</p>	
<p><b>Solar Photovoltaic Power System and Electrical Energy Storage Systems Combo</b></p>	<p>To install or modify a residential solar photovoltaic power system with an alternating current nameplate rating of greater than 15 kW alternating current nameplate rating and battery energy storage system with a greater than 27 kWh capacity.</p> <p>Plan review Fee = \$150 per hour / Minimum \$300 (2 hour) Inspection Fee = \$150 per hour / Minimum \$150 (1 hour)</p>
<p>To streamline processes and reduce costs for the solar and energy storage development community and end users, a combination permit has been introduced. This permit consolidates the over-the-counter permits for solar and battery installations at single-family residential locations when submitted together, resulting in reduced staff processing time and customer fees. Previously, separate permits incurred fees of 4 hours (\$600), whereas the new combo permit costs 2.5 hours (\$450) in total. This action also brings the permit fee in line with current staff time expenditures facilitating permitting and inspections for these types of installation. These permits account for only 1.2% of all energy system permits and will have a negligible effect on revenue. Based FY 22-23 data, this change would result in approximately \$13,200 in reduced revenue for a program that generates \$1.9 million in total revenue.</p>	
<p><b>Results of Action for City and Community:</b> Reduction in City staff resources required in processing applications, permits, and plan reviews along with streamlining customer application and inspection process.</p>	
<p><b>Flammable/Combustible Dispenser Changeout or Tank Reline OTC</b></p>	<p>To change out a F/C dispenser at a motor vehicle fueling site. Does not include any work below sheer valve (process piping/sumps/etc.) or emergency shutoff switch relocation. All work that is below sheer valve and/or affects piping will require plan review.</p> <p>\$150 per hour / Minimum \$300 (2 hour)</p>



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	<p><b>Reason:</b> This action creates an over the counter (OTC) construction permit to replace the current operational permit required. This action is a construction activity and inadvertently was originally made an operational permit type.</p>
	<p><b>Results of Action for City and Community:</b> This will help expedite fueling sites when they are required to change out a dispenser by reducing permitting time frames. This permit is existing but will now become an over the counter not requiring plans to be submitted as a condition of permit issuance. No cost or fee impacts anticipated.</p>