Char	nges after Adop	otion 2018 Fire Code Amendment Log Revised 1/10/2020
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1.	101.2.2	101.2.2 Policies Explanatory materials. A diamond (♦) in the margin indicates that a City
		of Phoenix policy explanatory material document has been created to clarify the
		application of this code, in accordance with Section 104.7.1.
	Reason: Consist	tent with amendments in prior codes.
2.	104.10.2	104.10.2 Forensic analysis. The <i>fire code official</i> may require a forensic analysis of the
		cause of failure by an independent laboratory approved by the fire code official.
	Reason: Allows	for more extensive investigation after an incident.
3.	105.6.36	105.6.36 Outdoor assembly event. An operational permit is required to conduct an
		outdoor assembly event where planned attendance exceeds 1,000 500 persons, or when
		50 or more persons are in a confined area.
	Reason: Consist	tent with amendments in prior codes.
4.	105.6.51	105.6.51 City of Phoenix permits. The <i>fire code official</i> is authorized to issue operational
		permits for work as set forth in Sections 105.6.51.1 through 105.6.51.5.19.
	Reason: These	facilities operate in other occupancies.
5.	105.6.51.2	105.6.51.2 Ammunition. An operating permit is required for manufacturing or reloading
		any amount of small arms ammunition for resale, or to manufacture or reload any amount
		of military, specialty or custom ammunition.
		Exception: Storage in Group R-3 occupancies of smokeless propellant, black
		powder and small arms primers for personal use, not for resale and in accordance
		with Section 5606.
	Reason: These	facilities operate in other occupancies.
6.	105.6.51.4	105.6.51.4 Behavioral healthcare facility, Group I 1. An operational permit is required to
		operate a behavioral healthcare facility.
	Reason: These	facilities operate in other occupancies.
7.	105.6.51.5	105.6.51.5 Carbon dioxide liquid beverage systems. An operational permit is required to
		operate a carbon dioxide liquid beverage system.
	Reason: These	facilities operate in other occupancies.
8.	105.6.51.8	105.6.51.8 Developmentally disabled group care homes Group I-1. An operational permit
	103.0.31.0	is required to operate, developmentally disabled group home.
	Reason: These	facilities operate in other occupancies.
9.	105.6.51.9	105.6.51.9 Educational facility. An operational permit is required for public and private
	103.0.31.3	schools K through 12.
	Reason: Restor	red. Rest of section renumbered accordingly.
10.	105.6.51.10	105.6.51.10 Fireworks, retail sales, indoors. An operational permit is required to conduct
10.	105.0.51.10	retail sales of fireworks indoors.
	Posson: Bostor	ed – remainder of section renumbered.
11.	105.6.51.11	105.6.51.11 Fireworks, retail sales, outdoor. An operational permit is required to conduct
11.	105.6.51.11	retail sales of fireworks outdoors.
		retail sales of fileworks outdoors.
		Fireworks, special effects / theatrical performances. To use fireworks, pyrotechnic or
	1	special effect materials using CO ₂ , LP-Gas or other materials for theatrical performances
	Reason: Restor	before a proximate audience.
12.	Reason: Restor	

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	Reason: Restor	ed – remainder of section renumbered.
13.	105.6.51.17	105.6.51.17 . Medical facilities. An operational permit is required to operate a medical facility.
	Reason: Restor	ed.
14.	105.6.51.18	105.6.51.18 Semiconductor facility. An operational permit is required to operate a
		semiconductor facility.
	Reason: Restor	ed – remainder of section renumbered.
15.	105.7.9	105.7.9 Flammable and combustible liquids. A construction permit is required:
		1. To install, repair or modify a pipeline for the transportation of flammable or
		combustible liquids.
		2. To install, construct or alter tank vehicles, equipment, tanks, plants, terminals, wells,
		fuel-dispensing stations, refineries, distilleries and similar facilities where flammable
		and <i>combustible liquids</i> are produced processed, transported, stored, dispensed or
		used.
		3. To install, alter, remove, abandon or otherwise dispose of a flammable or <i>combustible liquid</i> tank.
		Exceptions:
		To temporarily or permanently install a storage tank or aboveground storage tank or
		pressure vessel for Class I, II or III-A liquids with less than 125 gallons (473 L) outside a
		building, or 60 gallons (227 L) inside a building.
		2. To temporarily or permanently install a storage tank or aboveground storage tank or
		pressure vessel less than 1,000 gallons (3785 L) for Class III-B liquids.
		4. To slurry fill an underground tank.
		5. To neutralize the hazard and abandon an underground or above ground tank
	Reason: Slurry a	nd abandon are operational activities, not new construction.
16.	105.7.26	105.7.26 City of Phoenix required permits. The <i>fire code official</i> is authorized to issue
		construction permits for work as set forth in Sections 105.7.26.1 through 105.7.26.13.
	•	Phoenix only permit section renumbered for consistency throughout the code. Remainder of
	section renumbe	
17.	105.7.26.9	105.7.26.9 Fire protection system removal permits. A removal permit allows the applicant
		to remove systems or equipment. The fire department shall be notified when any system is
		to be removed. Replacement of a required system shall be within the same business day.
	December Droyida	Removal permits shall only be issued to current qualified contractors.
18.	105.7.26.10.2	es tracking of installation locations.
10.	103.7.20.10.2	105.7.26.10.2 Hydrant, temporary. A construction permit is required for the installation of a temporary hydrant and up to 500 feet (152 m) of fire line.
	Reason: Provide	es tracking of installation locations.
19.	105.7.26.11	105.7.26.11 Lithium ion battery systems. To install or modify a lithium ion battery storage
	10317120111	system used for facility standby power emergency power or uninterruptible power supplies
		as regulated by Section 1206.2.
	Reason: New pe	ermit to be issued in order to track installation location of these systems. Remainder of
	section renumber	,
20.	106.10	106.10 Area assessment fees. 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 ²), shall be assessed an additional fee calculated on the total area of

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		the site. The assessment fee shall be calculated in intervals of 250,000 square feet			
		(23 225 m ²) in accordance with the fee schedule. For those facilities being assessed			
		hazardous material fees area fees will be based on the fee group on accordance with Table			
		8106.3.			
21.		number correction.			
21.	Section 114	SECTION 114 CERTIFICATE OF INSURANCE			
		114.1 General. A valid certificate of insurance shall be filed with the <i>fire code official</i> when			
		applying for a permit to conduct blasting and pyrotechnics.			
		114.2 Certificate of insurance required. The certificate shall be issued by an insurance			
		company authorized to transact business in the State or Arizona or be named on the list of			
		unauthorized insurers maintained by the Arizona Department of Insurance. The following			
		information shall be identified:			
		1. The contractor shall be named as the insured. If the insurance is provided by an			
		individual, company or partnership other than the contractor, the contractor			
		shall be named as an additional insured.			
		2. "The City of Phoenix, a Municipal Corporation, its agents, employees and			
		volunteers" shall be named as an additional insured and certificate holder.			
		3. A minimum of \$1,000,000 general liability limits, including contractual liability			
		policy, shall be provided for the following activities:			
		3.1. Storage or use of <i>explosive materials</i> .			
		3.2. Storage or use of pyrotechnic displays.			
		3.3. Use of open flames before a proximate audience.			
		114.3 Additional insurance. Greater liability insurance amounts may be required when			
		deemed necessary by the fire code official.			
	Reason: Restore				
22.	Section 115	SECTION 114 115			
	2	Fire Watch			
22		m moved and renumbered to accommodate restored Section 114.			
23.	Definitions	OUTDOOR ASSEMBLY EVENT. An outdoor gathering of persons for any purpose having a projected attendance of 500 or more persons or confining 50 or more persons by temporary			
		installation of fencing.			
	Reason: Section	n 114 Firewatch moved to 115 to restore the 114 Insurance requirements.			
24.	315.4.14	315.4.14 Fire watch. When required by the <i>fire code official</i> , a fire watch shall be provided in			
		accordance with Section 114 115.			
	Reason: Section	114 Firewatch moved to 115 to restore the 114 Insurance requirements.			
25.	315.7	315.7 Outdoor pallet storage. Pallets stored outdoors shall comply with Sections 315.7			
		through 315.7.7.8. Pallets stored within a building shall be protected in accordance with			
		Chapter 32. Pallets at pallet manufacturing and recycling facilities shall comply with Chapter			
	Reason: Provide	28. es clarity for consumers.			
26.	403.12.1	403.12.1 Fire watch personnel. Where, in the opinion of the <i>fire code official</i> , it is essential			
		for public safety in a place of assembly or any other place where people congregate,			
<u> </u>	j	in plant said, in a plant of any of any other plant mile people songregate,			

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	because of the number of persons, or the nature of the performance, exhibition, display,				
		contest or activity, the owner, agent or lessee shall provide one or more fire watch			
		personnel, as required and <i>approved</i> . Fire watch personnel shall comply with Sections 115,			
		403.12.1.1 and 403.12.2. Such fire watch personnel shall not be required or permitted,			
		while on duty, to perform any other duties than those specified herein, in accordance with			
		Section 114 115.			
	Reason: Section	114 Firewatch moved to 115 to restore the 114 Insurance requirements.			
27.	501.2	501.2 Permits. A permit shall be required as set forth in Sections 105.6 and 105.7.			
		es previous amendment.			
28.	503.2.8.1	503.2.8.1 Curbs. A rolled curb meeting Maricopa Association of Governments standards or			
	000121012	equivalent shall be installed at the entrances to fire apparatus access roads.			
		equivalent shall be instance at the entrances to the apparatus assess roads.			
		503.2.9 Curbs. A rolled curb meeting Maricopa Association of Governments standards or			
		equivalent shall be installed at the entrances to fire apparatus access roads.			
	Posson: Postoro	es previous amendment.			
29.	503.3.2.10	503.2.10 Alternative surface. Fire apparatus access roads not conforming to a Maricopa			
23.	303.3.2.10	Association of Governments standard shall be in accordance with this section, Maricopa			
		Association of Governments standards. Alternative surface fire lanes shall meet the			
		requirements of fire apparatus access roads and this section.			
30.		es previous amendment.			
30.	503.3.2.10	503.2.9 Maintenance. Fire apparatus access roads shall be maintained as approved, by the			
		owner at all times.			
31.		es previous amendment.			
31.	503.2.10.1	503.2.10.1 Report. Alternative surface fire apparatus access roads shall be designed by an			
		engineer registered by the State of Arizona. The engineer shall prepare a sealed design report for submittal to and approval by the fire department. Plans shall be sealed and			
	Reason:	submitted with the report (see Section 501.3).			
32.	503.3.2.10.2	503.2.10.2 Stabilization. Stabilization of the fire apparatus access road surface shall be			
02.	303.3.2.10.2	addressed in the alternative surface fire apparatus access road report and may be			
		accomplished by curbing.			
		accomplished by curbing.			
		At a minimum, the surface of fire apparatus access roads shall be as follows:			
		1. Minimum 6 inches (152 mm) of native soil compacted to 95 percent of standard			
		proctor density (ASTM D 698), and			
		2. Minimum 4 inches (102 mm) of aggregate base compacted to 100 percent of			
		standard proctor density (ASTM D 698).			
		The surface of fire apparatus access roads may differ from the above requirements if it is			
		shown that the surface provided is sufficient to support an imposed live load of 70,000			
		pounds (31 752 kg) with a maximum axle load of 28,000 pounds (12 701 kg). An engineer			

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		registered by the State of Arizona shall prepare and seal the soil compaction report. The			
		report shall be available for review by the fire code official.			
	Reason: Restore	es previous amendment.			
33.	503.3.2.10.3	503.2.10.3 Compaction. Minimum 95 percent compaction of subgrade soil is required.			
	Reason: Restore	es previous amendment.			
34.	503.3.2.10.4	503.2.10.4 Curbs. A rolled curb shall be installed at the entrances to fire apparatus access			
		roads. See Chapter 80, Referenced Standards, for Maricopa Association of Government			
		Standards with City of Phoenix supplements.			
	Reason: Restore	es previous amendment.			
35.	503.3.2.10.5	503.2.10.5 Marking. The curb shall be painted red or red reflectors shall be installed to			
		define the width of alternative surface fire apparatus access roads. The reflectors shall be			
		imbedded into bordering curbing at intervals not exceeding 25 feet (4572 mm) (see			
		Appendix D).			
	Reason: Restore	es previous amendment.			
36.	503.3.2.10.6	503.2.10.6 Special inspections. An Arizona-registered professional engineer shall conduct a			
		special inspection prior to final approvals being issued for the alternative surface fire			
		apparatus access road. The report shall be submitted for review by the fire code official.			
	Reason: Restore	es previous amendment.			
37.	503.3.2.10.7	503.2.10.7 Special inspection documentation. The special inspection documentation shall			
		include, but not be limited to, the following:			
		1. Subgrade soil compaction report.			
		2. Base material quality, thickness and compaction.			
		3. Concrete depth and compressive strength, when applicable.			
		4. An evaluation of the installation in accordance with design drawings and manufacturer specifications.			
		5. Crown and drainage requirements.			
		6. Stabilization.			
	Reason: Restore	es previous amendment.			
38.	503.3.2.10.8	503.2.10.8 Engineering report . An engineer registered by the State of Arizona shall prepare			
		and seal a soil compaction report, ensuring the road will support the imposed live load,			
		drainage, stabilization and curbing. The report shall be submitted for review by the <i>fire</i>			
		code official.			
	Reason: Restore	es previous amendment.			
39.	503.3.2 #7	503.3.2 Fire apparatus access road signs.			
		7. Fire apparatus access roads shall be identified by curbs painted red on both the top and			
		face along the entire length of the fire apparatus access road. Where no curb exists, or a			
		rolled curb is installed, a 6-inch (152 mm) wide red stripe applied the full length of the			
		fire apparatus access road.			
	Reason: Restore	es previous amendment.			
40.	503.3.3	503.3.3 Stenciling. The fire code official is authorized to require stenciling or other			
		permanent markings to improve the identification of fire apparatus access roads. Where			
		required, the stenciling shall state "FIRE LANE – NO PARKING." Lettering shall be white on			

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	-	a red painted curb and shall be a minimum of 3 inches (76 mm) high with a 1/2- inch (13			
		mm) brush stroke.			
		Exception: A fire apparatus access road that is greater than 36 feet in width shall not be			
		required to have signs or red painted curbs on either side of the fire apparatus access			
		road.			
	Reason: Restore	s previous amendment			
41.	503.3.3.4	503.3.4 Marking not required. A <i>fire apparatus access road</i> that is greater than 36 (10 973 mm) in			
		width shall not be required to have signs and painted curbs on either side of the fire apparatus			
		access road.			
		s previous amendment			
42.	503.3.3.5	503.3.5 Signs required on both sides of a road. When a fire apparatus access road is less			
		than 28 feet (8534 mm) in width, fire lane signs and red painted curbs are required on both			
		sides of the access road.			
		Fire apparatus access roads serving only Group R-3 occupancies are required to have signs and red			
	Dessey, Desteys	painted curbs installed on both sides of the road when they are 20 feet (6096 mm) or less in width.			
43.	503.3.3.6	s previous amendment 503.3.6 Signs required on one side of road. When a fire apparatus access road is 28 feet			
73.	505.5.5.0	(8534 mm) or greater and less than or equal to 36 feet (10 973 mm) in width, fire lane signs			
		and red painted curbs are required to be installed on a minimum of one side of the access			
		road.			
		Todu.			
		Fire apparatus access roads serving only Group R-3 occupancies require signs and red			
		painted curbs on a minimum of one side of the fire apparatus access road when it is greater			
		than or equal to 20 feet (6096 mm) and less than or equal to 28 feet (8534 mm) in width.			
	Reason: Restore	es previous amendment			
44.	503.6	503.6 Security gates. The installation of security gates across a fire apparatus access road			
	333.3	shall be <i>approved</i> by the <i>fire code official</i> , and in accordance with Section 512. Where			
		security gates are installed, they shall have an <i>approved</i> means of emergency operation.			
		The security gates and the emergency operation shall be maintained operational at all			
		times. Electric gate operators, where provided, shall be <i>listed</i> in accordance with UL 325.			
		Gates intended for automatic operation shall be designed, constructed and installed to			
		comply with the requirements of ASTM F2200. Fire apparatus access gates shall be			
		designed and installed such that they do not obstruct the ingress or egress of emergency			
		vehicles.			
	Reason: Ensures	compliance with security gates.			
45.	605.8.2.2	605.8.2.2 Supervisory Alarm. A supervisory alarm shall activate visual and audible device in			
		the area of detection and in the immediate vicinity of the area of detection at 10% of the			
		IDLH of the refrigerant. The detector shall transmit the appropriate signals to an approved			
		location.			
	Reason: Omittee	d from original 2018 amendment.			
46.	609.3	609.3 Cryogenic Tanks and Piping. Cryogenic tanks and piping associated with Hyperbaric			
	300.0	Facilities shall also comply with Chapter 50 and 55.			
L		radinates shall also comply with enapter 50 and 55.			

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Green text = previously adopted Phx Amendment | Purple = policy text added back to code & new to 2018 | Blue text = 2018 After Adoption Amendment Reason: Omitted from original 2018 amendment. 47. 919.1 **SECTION 919 EXISTING-**HIGH-RISE SMOKE REMOVAL SYSTEMS ◆919.1 Smoke removal. To facilitate smoke removal in buildings built prior to engineered smoke management requirements. There shall be capability for post-fire salvage and overhaul operations. Buildings and structures shall be equipped with natural or mechanical ventilation for removal of products of combustion in accordance with one of the following: Easily identifiable, manually operable windows or panels shall be distributed around the perimeter of each floor at not more than 50-foot (15 240 mm) intervals. The area of operable windows or panels shall be not less than 40 square feet (3.7 m²) per 50 linear feet (15 240mm) of perimeter. Exceptions: 1.1 In Group R-1 occupancies, each sleeping unit or suite having an exterior wall shall be permitted to be provided with 2 square feet (0.19 m²) of venting area in lieu of the area specified in Item 1. 1.2 Windows shall be permitted to be fixed provided that glazing can be cleared by fire fighters. Mechanical air-handling equipment providing one exhaust air change every 15 2. minutes for the area involved. Return and exhaust air shall be moved directly to the outside without recirculation to other portions of the building. 3. Any other design that will produce equivalent results approved by the fire code official, through the appeals process. Reason: Chapter 9 is for new construction. Items 1.1 & 1.2 renumbered in ICC fashion. Fire Operations will not break glass for smoke removal. Not an option in Phoenix. 48. 1107.1 **SECTION 1107 EXISTING HIGH-RISE SMOKE REMOVAL SYSTEMS** ◆ 1107.1 Smoke removal. To facilitate smoke removal in buildings built prior to engineered smoke management requirements, there shall be capability for post-fire salvage and overhaul operations. Buildings and structures shall be equipped with natural or mechanical ventilation for removal of products of combustion in accordance with one of the following: Easily identifiable, manually operable windows or panels shall be distributed around the perimeter of each floor at not more than 50-foot (15 240 mm) intervals. The area of operable windows or panels shall be not less than 40 square feet (3.7 m²) per 50 linear feet (15 240mm) of perimeter. Exceptions: In Group R-1 occupancies, each sleeping unit or suite having an exterior wall shall be permitted to be provided with 2 square feet (0.19 m²) of venting area in lieu of the area specified in Item 1. 1.2 Windows shall be permitted to be fixed provided that glazing can be cleared by fire fighters. Mechanical air-handling equipment providing one exhaust air change every 15 minutes for the area involved. Return and exhaust air shall be moved directly to

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		the outside without recirculation to other portions of the building.		
		3. Any other design that will produce equivalent results approved by the <i>fire code</i> official, through the appeals process.		
	Reason: Copied	from Chapter 9 to ensure requirement for existing buildings.		
49.	1103.5.6	1103.5.6 Sprinkler systems—partially sprinklered buildings. When existing nonsprinklered		
		buildings of mixed occupancy are required to install sprinklers based on a change of occupancy classification, sprinklers shall be installed throughout the fire area that includes the new occupancy. The fire-resistance rating of fire barriers or horizontal assemblies separating sprinklered and nonsprinklered fire areas shall be a minimum of 2 hours. Fire		
		department connection signage shall be in accordance with Section 912.		
		Exception: Group R-1, R-2, R-4 occupancies and multistory buildings shall be		
		sprinklered throughout regardless of separations.		
	Reason: Provid	es additional clarity to the rules of partially sprinklered buildings.		
50.	1201.1	1201.1 Scope. The provisions of this chapter shall apply to the installation, operation and		
		maintenance of energy systems used for generating or storing energy. It shall not apply to		
		equipment associated with the generation, control, transformation, transmission, or		
		distribution of energy installations that is under the exclusive control of an electric utility or		
		lawfully designated agency.		
		s permits and compliance with specific code requirements.		
51.	1203.1.1	1203.1.1 Stationary generators. Stationary emergency and standby power generators		
		required by this code shall be listed in accordance with UL 2200. Associated flammable or		
		combustible liquid tanks shall also comply with Chapters 50 and 57.		
52.		es permits and compliance with specific code requirements.		
52.	1204.1.1	1204.1.1 Permits. Permits shall be obtained for solar photovoltaic systems in accordance with Section 105.7.21		
		Exception: Solar photovoltaic systems with less than 3 kW alternating current nameplate		
		rating.		
	Reason: Provide	es for tracking of system installations.		
53.	1204.1.2	1204.1.2 Marking. Marking is required on interior and exterior direct-current (DC)		
		conduit, enclosures, race- ways, cable assemblies, junction boxes, combiner boxes and		
		disconnects.		
	Reason: Provide	es clarification. This is base code language is from 2012 Chapter 6.		
54.	1204.1.2.1	1204.1.2.1 Materials. The materials used for marking shall be reflective, weather resistant		
		and suitable for the environment. Marking as required in Sections 1204.1.2 through		
		1204.1.6 shall have all letters capitalized with a minimum height of 3/8 inch (9.5 mm) white		
		on red background.		
		es clarification. This is base code language is from 2012 Chapter 6.		
55.	1204.1.2.2	1204.1.2.2 Marking content. The marking shall contain the words "WARNING: PHOTOVOLTAIC POWER SOURCE."		
	Poscon, Provido			
56.	1204.1.2.3	s clarification. This is base code language is from 2012 Chapter 6. 1204.1.2.3 Main service disconnect. The marking shall be placed adjacent to the main		
33.	1204.1.2.3	service disconnect in a location clearly visible from the location where the disconnect is		
		operated.		
	Reason: Provide	es clarification. This is base code language is from 2012 Chapter 6.		
		5 Section 2000 10 2000 10 10 10 10 10 10 10 10 10 10 10 10		

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57.	1204.1.3	1204.1.3 Location of marking. Marking shall be placed on interior and exterior DC conduit, raceways, enclosures and cable assemblies every 10 feet (3048 mm), within 1 foot (305 mm) of turns or bends and within 1 foot (305 mm) above and below penetrations of roof/ceiling assemblies, walls or barriers.	
	Reason: Provide	es clarification. This is base code language is from 2012 Chapter 6.	
58.	1204.2	1204.2 Access and pathways. Roof access, pathways, and spacing requirements shall be provided in accordance with Sections 1204.2.1 through 1204.3.3. Pathways shall be over areas capable of supporting fire fighters accessing the roof. Pathways shall be located in areas with minimal obstructions, such as vent pipes, conduit or mechanical equipment. Residential structures shall be designed so that each photovoltaic array is no greater than 150 feet (45 720 mm) by 150 feet (45 720 mm) in either axis.	
		Exceptions: 1. Detached, nonhabitable Group U structures including, but not limited to, detached garages serving Group R-3 buildings, parking shade structures, carports, solar trellises and similar structures. 2. Roof access, pathways and spacing requirements need not be provided where the fire code official has determined that rooftop operations will not be employed.	
	Reason: Suppor	ts operations and provides clarification. This is base code language is from 2012 Chapter 6.	
59.	1204.2.1	Solar photovoltaic systems for Group R-3 buildings. Solar photovoltaic systems for Group R-3 buildings shall comply with Sections 1204.2.1.1 through 1204.2.1.3.5. Exceptions: 1. These requirements shall not apply to structures designed and constructed in accordance with the International Residential Code. 2. These requirements shall not apply to roofs with slopes of 2 units vertical in 12	
		units horizontal or less.	
60.	1204.2.1.1	1204.2.1.1 Pathways to ridge. Not fewer than two 36 inch-wide (914 mm) pathways on separate roof planes, from lowest roof edge to ridge, shall be provided on all buildings. Not fewer than one pathway shall be provided on the street or driveway side of the roof. For each roof plane with a photovoltaic array, not fewer than one 36-inch-wide (914 mm) pathway from lowest roof edge to ridge shall be provided on the same roof plane as the photovoltaic array, on an adjacent roof plane or straddling the same and adjacent roof planes.	
		1204.2.1.1 Roof access points. Roof access points shall be located in areas that do not require the placement of ground ladders over openings such as windows or doors and located at strong points of building construction in locations where the access point does not conflict with overhead obstructions such as tree limbs, wires, or signs.	
		ts operations and provides clarification. This is base code language is from 2012 Chapter 6.	
61.	1204.2.1.2	1204.2.1.2 Setbacks at ridge. For photovoltaic arrays occupying 33 percent or less of the plan view total roof area, a setback of not less than 18 inches (457 mm) wide is required on both sides of a horizontal ridge. For photovoltaic arrays occupying more than 33 percent of the plan view total roof area, a setback of not less than 36 inches (457 mm) wide is required on both sides of a horizontal ridge.	

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	,	1204.2.1.2 Residential buildings with hip roof layouts. Panels or modules installed on		
		residential buildings with hip roof layouts shall be located in a manner that provides a 3-		
		foot-wide (914 mm) clear access pathway from the eave to the ridge on each roof slope		
		where panels or modules are located. The access pathway shall be located at a structurally		
		strong location on the building capable of supporting the live load of firefighters accessing		
		the roof.		
	Reason: Support	ts operations and provides clarification. This is base code language is from 2012 Chapter 6.		
62.	1204.2.1.3	1201.2.1.3 Alternative setbacks at ridge. Where an automatic sprinkler system is installed		
		within the dwelling in accordance with Section 903.3.1.3, setbacks at the ridge shall		
		conform to one of the following:		
		1. For photovoltaic arrays occupying 66 percent or less of the plan view total roof area, a		
		setback of not less than 18 inches (457 mm) wide is required on both sides of a horizontal		
		ridge.		
		2. For photovoltaic arrays occupying more than 66 percent of the plan view total roof area,		
		a setback of not less than 36 inches (914 mm) wide is required on both sides of a horizontal		
		ridge.		
		1204.2.1.3 Residential buildings with a single ridge. Panels or modules installed on		
		residential buildings with a single ridge shall be located in a manner that provides two, 3-		
		foot-wide (914 mm) access pathways from the eave to the ridge on each roof slope where		
		panels or modules are located.		
	Reason: Support	ts operations and provides clarification. This is base code language is from 2012 Chapter 6.		
63.	1204.2.1.4	1204.2.1.4 Residential buildings with roof hips and valleys. Panels/modules installed on		
		residential buildings with roof hips and valleys shall be located no closer than 18 inches		
		(457 mm) to a hip or a valley where panels/modules are to be placed on both sides of a hip		
		or valley. Where panels are to be located on only one side of a hip or valley that is of equal		
		length, the panels shall be permitted to be placed directly adjacent to the hip or valley.		
	Reason: Support	ts operations and provides clarification. This is base code language is from 2012 Chapter 6.		
64.	1204.2.1.5	1204.2.1.5 Residential building smoke ventilation. Panels/modules installed on residential		
		buildings shall be located no higher than 3 feet (914 mm) below the ridge in order to allow		
		for fire department smoke ventilation operations.		
		ts operations and provides clarification. This is base code language is from 2012 Chapter 6.		
65.	1204.2.2	1204.2.2 Emergency escape and rescue openings. Panel and modules installed on Group		
		R-3 buildings shall not be placed on the portion of a roof that is below an emergency		
		escape and rescue opening. A pathway of not less than 36 inches (914 mm) wide shall be		
		provided to the emergency escape and rescue opening.		
		ts operations and provides clarification. This is base code language is from 2012 Chapter 6.		
66.	1204.3.2	1204.3.2 Interior pathways. Interior pathways shall be provided between array sections to		
		meet the following requirements:		
		1. Pathways shall be provided at intervals not greater than 150 feet (45 720 mm)		
		throughout the length and width of the roof.		
		2. A pathway not less than 4 feet (1219 mm) wide in a straight line to roof standpipes		
		or ventilation hatches.		
		3. A pathway not less than 4 feet (1219 mm) wide around roof access hatches, with		
		not fewer than one such pathway to a parapet or roof edge.		

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		 The pathway shall be over areas capable of supporting the liv accessing the roof. 	e load of firefighters
		5. The centerline axis pathways shall be provided in both axes	of the roof. Centerline
		axis pathways shall run where the roof structure is capable of	of supporting the live
		load of fire fighters accessing the roof.	
	Reason: Support	ts operations and provides clarification. This is code language is from	2012 Chapter 6.
67.	1204.3.3	1204.3.3 Smoke ventilation. The solar installation shall be designed	
		requirements:	0
		Where nongravity-operated smoke and heat vents occur, a page.	athway not less than 4
		feet (1219 mm) wide shall be provided bordering all sides.	
		2. Smoke ventilation options between array sections shall be or	ne of the following:
		2.1. A pathway not less than 8 feet (2438 mm) wide.	·· o ·
		2.2. Where gravity-operated dropout smoke and heat vents of	occur, a pathway not
		less than 4 feet (1219 mm) wide on not fewer than one	
		2.3. A pathway not less than 4 feet (1219 mm) wide borderin	
		(1219 mm by 2438 mm) venting cutouts every 20 feet (6	·
		alternating sides of the pathway.	,
		3. Arrays shall be no greater than 150 feet (45 720 mm) by 150	feet (45 720 mm) in
		distance in either axis in order to create opportunities for fire	
		ventilation operations.	
	Reason: Support	ts operations and provides clarification. This is code language is from	2012 Chapter 6.
68.	1206.1	1206.1 Scope. The provisions in this section are applicable to energy	
		designed to provide electrical power to a building or facility. These s	
		provide standby or emergency power, an uninterruptable power sup	•
		load sharing or similar capabilities. Energy storage system in Group	• •
		occupancies shall be in accordance with 1206.2.1 and 1206.4. Appro	
		for all installations.	0 0 1
		Exception: Electrical energy storage systems with a capacity of 3 k	Wh or less.
		1206.1.1 Permits. Permits shall be obtained for the construction a	
		stationary storage battery systems with a capacity of more than 3	•
		with Section 105.7.2.	
		Exception: Operating permits are not required for Group R-3 a	and R-4 occupancies.
	Reason: Clarifies		'
69.	1206.2	Stationary storage battery systems. Stationary storage battery syst	ems having capacities
		exceeding the values shown in Table 1206.2 shall comply with Section	• •
		1206.2.12.13.6, as applicable. Approved signage is required for all in	
	Reason: Support	ts operations and provides clarification. This is base code language is	
70.	1206.2.1	1206.2.1 Permits. Permits shall be obtained for the construction and	
		stationary storage battery systems with a capacity of 3 kWh or more	· ·
		Section 105.7.2.	,
	Reason: Clarifies		
71.	1206.2.3	1206.2.3 Hazard mitigation analysis. A failure modes and effects an	alvsis (FMFA) or other
-	1200.2.0	approved hazard mitigation analysis. A failure modes and effects and approved hazard mitigation analysis shall be provided in accordance	· · · · · · · · · · · · · · · · · · ·
		under any of the following conditions:	With 5000011 104.7.2
		ander any of the following conditions.	

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		Battery technologies not specifically identified in Table 1206.2 are provided.	
		2. More than one stationary storage battery technology is provided in a room or indoor	
		area where there is a potential for adverse interaction between technologies.3. Where allowed as a basis for increasing maximum allowable quantities in accordance	
		with Section 1206.2.9.	
		4. When required by the <i>fire code official</i> .	
	Reason: Clarifie		
72.	1206.2.3.1	1206.2.3.1 Fault condition. The hazard mitigation analysis shall evaluate the	
		consequences of the following failure modes, and others deemed necessary by the	
		fire code official. Only single-failure modes shall be considered.	
		Thermal runaway condition in a single-battery storage rack, module or array.	
		Failure of any energy management system.	
		3. Failure of any required ventilation system.	
		4. Voltage surges on the primary electric supply.	
		5. Short circuits on the load side of the stationary battery storage system.	
		6. Failure of the smoke detection, fire-extinguishing or gas detection system.	
		7. Spill neutralization not being provided or failure of the secondary	
		containment system.	
		8. Failure of temperature control.	
73.	1206.2.3.6	1206.2.3.6 Forensic analysis. The <i>fire code official</i> may also require a forensic analysis of	
		the cause of failure by an independent laboratory approved by the fire code official in	
		accordance with Section 104.10.2.	
	Reason: Allows	for more extensive investigation after an incident.	
74.	1206.2.8.3	1206.2.8.3 Stationary battery arrays . Storage batteries, prepackaged stationary storage	
		battery systems and preengineered stationary storage battery systems shall be segregated	
		into stationary battery arrays not exceeding 50 kWh (180 megajoules) each. Each stationary	
		battery array shall be spaced not less than 3 feet (914 mm) from other stationary battery arrays and from walls in the storage room or area. The storage arrangements shall comply	
		with Chapter 10.	
		Exceptions:	
		Lead acid and nickel cadmium storage battery arrays.	
		Listed preengineered stationary storage battery systems and prepackaged	
		stationary storage battery systems shall not exceed 250 kWh (900 megajoules)	
		each, where approved by the fire code official.	
		3. The <i>fire code official</i> is authorized to approve listed, preengineered and	
		prepackaged battery arrays with larger capacities or smaller battery array spacing	
		if large-scale fire and fault condition testing conducted or witnessed and reported	
		by an approved testing laboratory is provided showing that a fire involving one	
		array will not propagate to an adjacent array, and be contained within the room for a duration equal to the fire-resistance rating of the room separation specified	
		in Table 509 of the International Building Code.	
	Reason: Ensure	s large systems are approved per the code.	
	Libare.	side of stering are approved per the code.	

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75.	1206.2.8.7.1	1206.2.8.7.1 Separation. Stationary storage battery systems located outdoors shall be		
		separated by a minimum 5 feet (1524 mm) 10 feet (3048 mm) from the following:		
		1. Lot lines.		
		2. Public ways.		
		3. Buildings.		
		4. Stored combustible materials.		
		5. Hazardous materials.		
		6. High-piled stock.		
		7. Other exposure hazards.		
		Exception: The <i>fire code official</i> is authorized to approve smaller separation distances		
		if largescale fire and fault condition testing conducted or witnessed and reported by		
		an approved testing laboratory is provided showing that a fire involving the system will		
		not adversely impact occupant egress from adjacent buildings, or adversely impact		
		adjacent stored materials or structures.		
	Reason: Provide	es a larger safety separation, at the request of the FSAB.		
76.	1206.2.11.3	1206.2.11.3 Exhaust ventilation. Where required by Section 1206.2.3 or 1206.2.12 Table		
		1206.2.10, ventilation of rooms containing stationary storage battery systems shall be		
		provided in accordance with the <i>International Mechanical Code</i> and one of the following:		
	Reason: Allows	for small systems to be installed.		
77.	1206.4	1206.4 Energy storage system in Group R-3 and R-4 occupancies. Energy storage systems		
		in Group R-3 and R-4 occupancies shall be installed and maintained in accordance with this		
		section. The temporary use of an owner or occupant's electric powered vehicle as an		
		energy storage system shall be in accordance with Section 1206.4.		
		Exception: Energy storage systems in Group R-3 and R-4 occupancies with a capacity of 3		
		kWh or less.		
	Reason: Allows	for small systems to be installed.		
78.	1206.4.3	1206.4.3 Location. Energy storage system shall only be installed in the following locations:		
		 Detached garages and detached accessory structures. 		
		2. Attached garages separated from the dwelling unit living space and sleeping units		
		in accordance with Section 406.3.2 of the International Building Code.		
		3. Outdoors on exterior walls in accordance with 1206.4.3.1		
		4. Utility closets and storage or utility spaces within dwelling units and sleeping units.		
		Other locations with Fire Marshal approval.		
	Reason: Not allo			
79.	1206.4.3.1	1206.4.3.1 Exterior wall and outdoor installations. Energy storage system shall be		
		permitted to be installed outdoors on exterior walls of buildings or on the ground when all		
		of the following conditions are met:		
		 The maximum energy capacity of individual energy storage system units shall not exceed 20 kWh. 		
		2. The energy storage system shall comply with applicable requirements in Sections		
		1206. The installation is in accordance with Zoning setback requirements.		
		The energy storage system shall be installed in accordance with the manufacturer's instructions and their listing.		
		4. Individual energy storage system units shall be separated from each other by not		
		less than 3 feet (914 mm).		

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		5. The energy storage system shall be separated from doors, windows, operable						
		openings into buildings, or HVAC inlets by at least 5 feet (1524 mm).						
		Exception: Where approved by the <i>fire code official</i> , smaller separation distances in						
		items 4 and 5 may be permitted based on large scale fire testing						
	Reason: Installa	ations must be in accordance with Fire and Zoning ordinances.						
80.	1206.4.4	1206.4.4 Energy ratings. Individual energy storage system units shall have a maximum						
		rating of 20 kwh. The aggregate rating structure shall not exceed:						
		1. 40 kWh within utility closets and storage or utility spaces.						
		80 kWh in attached or detached garages and detached accessory structures.						
		2. 80 kWh on exterior walls.						
		3. 80 kWh outdoors on the ground.						
	Reason: Energy	storage systems are not allowed in closets.						
81.	2001.1	2001.1 Scope. Airports, heliports, helistops and aircraft hangars shall be in accordance with						
		this chapter, and the most current version of other nationally recognized standards.						
	Reason: Ensure	s the Fire Code does not hinder other FAA compliance requirements.						
82.	2201.2	2201.2 Permits. Permits shall be required for combustible dust-producing operations as set						
		forth in Section 105.6 and 105.7.						
02		uction permits are now required.						
83.	2307.2.4	2307.2.4 Breakaway devices. Breakaway devices shall comply with ANSI/IAS NGV 4.4,						
		Breakaway Devices for Natural Gas Dispensing Hoses and Systems.						
		A breakaway device shall be installed at every dispensing point. A breakaway device shall						
		be arranged to separate using a force not greater than 150 lb (68 kg) when applied in any direction that the vehicle would move.						
		A listed emergency breakaway device shall be installed and shall comply with NFPA 58						
		and UL 567, Standard for Emergency Breakaway Fittings,						
		Swivel Connectors, and Pipe-Connection Fittings for Petroleum Products and LP-Gas, and						
		be designed to retain liquid on both sides of the breakaway point, or other devices						
		affording equivalent protection approved by the <i>fire code official</i> .						
	Reason: Adds o	letails for clarity.						
84.	2807.4	2807.4 Material-handling equipment. Approved material-handling equipment shall be						
		readily available by contract to aid in the event of emergency for moving wood chips and						
		hogged material.						
		Equipment available shall include:						
		1. Equipment to move stored material during a fire						
		2. Water trucks						
		3. Water pumps if using pond for any piece of water source						
0.5		es previous amendment ensuring proper equipment is readily available.						
85.	2807.6.3	2807.6.3 Push-out or clear area. Approved push-out or clear areas shall be provided for						
		pile storage. Any pile in place exceeding thirty (30) days and when piles are over 100 cubic						
		yards (76.5 m ³) in size shall have a push out area. The intent is to provide areas to spread						
		piles and move unburned material away from a pile in the event of fire or hotspot within						
		the pile. Push-out/clear areas shall be located not more than 250 feet (76 200 mm) from						
		the pile and shall be not located within 20 feet (6096 mm) of any building, or other						
		combustibles. The push-out/clear area shall be sized to hold no less than a quarter of the						

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	'	size of the single largest pile it serves at a maximum depth of 3 feet (914 mm). Water shall
		be immediately available to aid in cooling.
	Reason: Resto	res previous amendment ensuring enough space is provided to push burning piles around to
	put out fire.	
86.	2810.2.1	2808.2.1 Delivery & tipping Area. Feedstock and raw materials shall be placed into
		designated tipping areas or separated piles upon delivery and shall comply with all storage
		requirements for compost and mulch.
	Reason: Put in	to this section in error.
87.	2810.1	2810.1 General. The outside storage of wood pallets and wood composite pallets on the
		same site as a pallet manufacturing or recycling facility shall comply with Sections 2810.2
		through 2810.16. Pallets stored within a building shall be protected in accordance with
		Chapter 32.
00		des clarity if compliance with code.
88.	2810.1.1	2810.1.1 Pallet types. Pallets shall be all wood, with slatted or solid top or bottom, with
		metal fasteners, or shall be plastic or composite pallets, listed and labeled in accordance
		with UL 2335 or FM 4996. Plastic pallets shall be both solid and gridded deck, independent
		of the pallet manufacturing process, type of resin used in fabrication or geometry of the pallet.
	Dessey, Defin	
89.	2810.8.1	es types of pallets governed by this section of code. 2810.8.1 Pallet pile stability and size. Pallet stacks shall be arranged to form stable piles.
05.		res previous amendment.
90.	2810.9	2810.9 Size of piles. Piles shall not exceed 150,000 cubic feet (4248 m3) in volume.
50.		res previous amendment.
91.	2810.10	2810.10 Aisles. Aisles shall be a minimum of 20 feet (6096 mm) wide and shall be
51.	2810.10	maintained clear and unobstructed at all times.
	Reason: Resto	res previous amendment.
92.	2810.11	2810.11 Dead-ends. No dead-end aisles shall be allowed within the facility.
		res previous amendment.
93.	2810.12	2810.12 Fire apparatus access roads. Fire apparatus access roads in accordance with
		Section 503 shall be located so that a maximum grid system unit of 50 feet by 150 feet (15
		240 mm by 45 720 mm) is established.
	Reason: Resto	res previous amendment.
94.	2810.13	2810.13 Prohibited locations. Pallets shall not be stored underneath high-voltage
		transmission lines, elevated roadways.
	Reason: Resto	res previous amendment. Remainder of section renumbered accordingly.
95.	3301.3	3301.3 Permits. Permits shall be required as set forth in Section 105.6 through 105.7.
	Reason: Ensure	es piles are started and maintained in compliance with the code.
96.	3401.3	3401.3 Site plans. At the time of permit application for storing tires outdoors, a site plan
		shall be submitted to the fire code official identifying the location and dimensions of tire
		storage areas, tire pile dimensions and height, distance from buildings and property lines,
		width and location of aisles, and fire apparatus access roads. See Section 105.4.
	Reason: Ensure	es piles are started and maintained in compliance with the code.

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97.	3405.1	3405.1 Individual piles. Tire storage shall be restricted to individual piles not exceeding 5,000 square feet (464.5 m2) of continuous area. Piles shall not exceed 50,000 cubic feet (1416 m3) in volume or 10 feet (3048 mm) in height.
		Piles 2,501 — 4,999 square feet (232 m² — 464.5m²) shall comply with Section 315.4. Tires shall be placed on solid, level ground.
	Reason: Not nee	eded after amendment
98.	3405.10	3405.10 Barriers. When the number of tires stored exceeds 25,000 cubic feet, the storage area shall be surrounded by suitable barriers capable of containing liquid products of combustion resulting from a fire.
	Reason: Not enf	orceable.
99.	3405.11	3405.11 Drainage. Means shall be provided that will prevent the drainage of liquid products of combustion from posing a threat th health or safety or the environment.
	Reason: Not enf	
100.	3501.2	3501.2 Permits. Permits shall be required as set forth in Section 105.6.
		 Exceptions: Work conducted at one- and two-family dwellings. A hot work program shall not be required when a business has no more than two employees, who conduct welding, cutting, use open torches or other hot work operations.
		es exceptions to permit requirement.
101.	3501.2.1	3501.2.1 When permits are not required. The person conducting hot work operations shall be responsible for ensuring that such operations are conducted in accordance with the safety requirements of this chapter regardless of whether permits are or are not required.
102.	5003.2.2.1	es exceptions to permit requirement. 5003.2.2.1 Design and construction. Piping, tubing, valves, fittings and related components
	3003.2.2.1	used for hazardous materials shall be in accordance with the following: 8. Where gases or liquids having a hazard ranking of: Health Class 3 or 4 Flammability Class 4 Reactivity Class 3 or 4 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. Exceptions: 1. Piping for inlet connections designed to prevent backflow. 2. Piping for pressure relief devices.
	Reason: #8 resto	pred from previous amendment.
103.	5004.7	5004.7 Standby or emergency power. Where mechanical ventilation, treatment systems, temperature control, alarm, detection or other electrically operated systems

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		are required, such systems shall be provided with an emergency or standby power in						
		accordance with Section 1203.						
		In buildings or rooms storing highly toxic or toxic gases, refrigerated storage or organic						
		peroxides with a self-accelerating decomposition temperature of 122°F or less, or Group H-						
		5 occupancies shall be provided with a standby power system in accordance with the						
		National Electrical Code and Section 604. The <i>fire code official</i> is authorized to require						
		standby power as a result of a formal process hazard analysis.						
	Reason: Restore	es previous amendment. Toxic gases are not otherwise addressed.						
104.	5005.1.5	5005.1.5 Standby or emergency power. Where mechanical ventilation, treatment						
		systems, temperature control, manual alarm, detection or other electrically operated						
		systems are required by this code, such systems shall be provided with an emergency or						
		standby power system in accordance with Section 1203. In buildings or rooms storing or						
		using highly toxic or toxic gases, using highly toxic liquids in an open system or Group H-5						
		occupancies shall be provided with standby power system in accordance with the National						
		Electrical Code Section 604.						
		s code requirement found in National Toxic Gas Code.						
105.	5005.1.12	5005.1.12 Emergency isolation. Where gases or liquids having a hazard ranking of Health						
		Class 3 or 4, Flammability Class 4, Reactivity 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.						
	Reason: Comple	etes all hazard classes of extreme reactivity.						
106.	5301.2	5301.2 Permits. Permits shall be required as set forth in Section 105.6 and 105.7.						
		d to reflect City of Phoenix permit sections.						
107.	5303.4.3	5303.4.3 Piping systems identification. Piping systems shall be marked 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 not less than every 20 feet (6096						
		mm) or fraction thereof throughout the piping run. Piping contents and direction of						
		flow shall be identified in accordance with Chapter 50.						
	Reason: Added	to better identify the section.						
108.	5607.1.8	5607.1.8 Signage. Signs reading "BLASTING ZONE AHEAD" and "TURN OFF TWO-WAY						
		RADIOS" shall be provided when explosive material use is proposed within 1000 feet (304						
		800mm mm) of public right-of-ways.						
	Reason: Alerts t	he public of location of blasting zones. Remainder of section renumbered.						
109.	5701.1	5701.1 Scope and application. Prevention, control and mitigation of dangerous conditions						
		related to storage, use, dispensing, mixing and handling of flammable and combustible						
		liquids shall be in accordance with Chapter 50 and this chapter. Prior to the installation or						
		modification of piping, systems containing flammable and combustible liquids plans shall be						
		submitted to the Phoenix Fire Department for review and approval. A registered professional						
		engineer shall seal and sign the construction documentation.						

Char	Changes after Adoption 2018 Fire Code Amendment Log Revised 1/10/2020							
Red	ed text = IFC changes to 2018 base code Black and stricken text – Base code being deleted							
Gree	Green text = previously adopted Phx Amendment Purple = policy text added back to code & new to							
2018	2018 Blue text = 2018 After Adoption Amendment							
	Reason: Ensures plan review is conducted prior to installation.							
110.	5706.9 5706.9 Location of fuel tanks of sub-based generators. Above-ground fuel storage tanks for							
		generators shall be located with respect to distances to lot lines of ad	joining property which					
		can be built on, nearest side of any public way or from nearest imp	ortant building on the					
		same property in accordance with Tables 3405.3.4(1) and 3405.3.	.4(2) _5705.3.4 (1) and					
		5705.3.4 (2).						
	Reason: Chapte	ers moved in the base code.						
111.	Chapter 80	Adopts NFPA 855 Standard for the Installation of Energy Storage Syste	ems, 2020 Edition					
	Reason: This car	care occurs in other occupancies.						
112.	Remove Chapter 81 from the 2018 International Fire Code (IFC) with Phoenix amendments for proposed							
	adoption as the Phoenix Fire Prevention Fee Schedule, Appendix A, Chapter 15 of the City Code.							