#### **ATTACHMENT A**

Cha	nges after Ado	ption 2018 Fire Code Amendment Log Revised 10/21/19
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1.	101.2.2	<b>101.2.2 Policies Explanatory materials.</b> 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: Consi	stent with amendments in prior codes.
2.	105.6.36	<b>105.6.36 Outdoor assembly event.</b> An operational permit is required to conduct an
	200.0.00	outdoor assembly event where planned attendance exceeds 1,000 500 persons, or when
		50 or more persons are in a confined area.
	Reason: Consi	stent with amendments in prior codes.
3.	105.6.51	<b>105.6.51 City of Phoenix permits.</b> 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.
4.	105.6.51.2	<b>105.6.51.2 Ammunition.</b> 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.
		<b>Exception:</b> 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.
5.	105.6.51.4	105.6.51.4 Behavioral healthcare facility, Group I 1. An operational permit is required to
	103:0:31:4	operate a behavioral healthcare facility.
	Reason: These	facilities operate in other occupancies.
6.	105.6.51.5	105.6.51.5 Carbon dioxide liquid beverage systems. An operational permit is required to
		operate a carbon dioxide <del>liquid</del> beverage system.
	Reason: These	e facilities operate in other occupancies.
7.	105.6.51.8	105.6.51.8 Developmentally disabled group care homes Group I-1. An operational permit is
		required to operate, developmentally disabled group home.
	Reason: These	e facilities operate in other occupancies.
8.	105.6.51.9	<b>105.6.51.9 Educational facility.</b> An operational permit is required for public and private
		schools K through 12.
	Reason: Resto	ored. Rest of section renumbered accordingly.
9.	105.6.51.10	<b>105.6.51.10 Fireworks, retail sales, indoors.</b> An operational permit is required to conduct
		retail sales of fireworks indoors.
	Reason: Resto	red – remainder of section renumbered.
10.	105.6.51.11	<b>105.6.51.11 Fireworks, retail sales, outdoor.</b> An operational permit is required to conduct
		retail sales of fireworks outdoors.
		Fireworks, special effects / theatrical performances. To use fireworks, pyrotechnic or special
		effect materials using CO <sub>2</sub> , LP-Gas or other materials for theatrical performances before a
		proximate audience.
	Reason: Posto	proximate addience:  ored – remainder of section renumbered.
11.	105.6.51.12	<b>105.6.51.12 Fireworks, wholesale sales.</b> An operational permit is required for wholesale sale
	103.0.31.12	of consumer fireworks.
	Reason: Resto	ored – remainder of section renumbered.
12.	105.6.51.17	<b>105.6.51.17</b> . <b>Medical facilities.</b> An operational permit is required to operate a medical facility.
	103.0.31.17	203/032127. Historical facilities: All operational permit is required to operate a medical facility.

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	Reason: Resto	ored.
13.	105.6.51.18	105.6.51.18 Semiconductor facility. An operational permit is required to operate a
		semiconductor facility.
		pred – remainder of section renumbered.
14.	105.7.9	<b>105.7.9 Flammable and combustible liquids.</b> 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	and abandon are operational activities, not new construction.
15.	105.7.26	<b>105.7.26 City of Phoenix required permits.</b> 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.
		f Phoenix only permit section renumbered for consistency throughout the code. Remainder of
	section renum	
16.	105.7.26.9	<b>105.7.26.9</b> 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.
	Posson, Drovis	Removal permits shall only be issued to current qualified contractors.
17.	105.7.26.10.2	des tracking of installation locations.  105.7.10.2 Hydrant, temporary. A construction permit is required for the installation of a
17.	105.7.26.10.2	temporary hydrant and up to 500 feet (152 m) of fire line.
	Reason: Provid	des tracking of installation locations.
18.	105.7.26.11	<b>105.8.11 Lithium ion battery systems.</b> To install or modify a lithium ion battery storage system
	103.7.20.11	used for facility standby power emergency power or uninterruptible power supplies as
		regulated by Section 1206.2.
	Reason: New r	permit to be issued in order to track installation location of these systems. Remainder of
	section renum	,
19.	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 <sup>2</sup> ), shall be assessed an additional fee calculated on the total area of the 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
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		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: Sectio	n 114 Firewatch moved to 115 to restore the 114 Insurance requirements.
26.	503.2.8.1	<b>503.2.8.1 Curbs.</b> A rolled curb meeting Maricopa Association of Governments standards or
		equivalent shall be installed at the entrances to fire apparatus access 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.
	Reason: Restor	res previous amendment.
27.	503.3.2.10	503.2.10 Alternative surface. Fire apparatus access roads not conforming to a Maricopa
		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.
	Reason: Restor	res previous amendment.
28.	503.3.2.10.1.8	<b>503.2.10.1.8 Engineering report</b> . 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 fire
		code official.
	Reason: Resto	res previous amendment.
29.	503.3.2.10.1.9	<b>503.2.10.1.9 Special inspections.</b> 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 <i>fire code official</i> .
	Reason: Resto	res previous amendment.
30.	503.3.2.10.1.10	<b>503.2.10.1.10 Special inspection documentation.</b> 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.
	D D	6. Stabilization.
31.	<b>503.3.2 #7</b>	res previous amendment.  7. Fire apparatus access roads shall be identified by curbs painted red on both the top and
51.	303.3.2 #7	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
	Posconi Dosta	apparatus access road.
32.	<b>503.6</b>	res previous amendment.  503.6 Security gates. The installation of security gates across a fire apparatus access road
52.	505.6	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.

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		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: Ensur	es compliance with security gates.
33.	605.8.2.2	<b>605.8.2.2 Supervisory Alarm.</b> 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: Omitt	red from original 2018 amendment.
34.	609.3	<b>609.3 Cryogenic Tanks and Piping.</b> Cryogenic tanks and piping associated with Hyperbaric
		Facilities shall also comply with Chapter 50 and 55.
	Reason: Omitt	red from original 2018 amendment.
35.	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:
		1. 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.
		<u>1.2</u> Windows shall be permitted to be fixed provided that glazing can be cleared by fire fighters.
		2. 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 the outside without recirculation to other portions of the building.
		3. Any other design that will produce equivalent results <i>approved</i> by the <i>fire code</i>
	<b>B</b>	official, through the appeals process.
	-	ter 9 is for new construction. Items 1.1 & 1.2 renumbered in ICC fashion. Fire Operations will
36.	<b>1107.1</b>	s for smoke removal. Not an option in Phoenix.  SECTION 1107
30.	110/.1	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

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		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. 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.
		<ol> <li>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 the outside without recirculation to other portions of the building.</li> </ol>
		3. Any other design that will produce equivalent results approved by the <i>fire code official</i> , through the appeals process.
	Reason: Copied	d from Chapter 9 to ensure requirement for existing buildings.
37.	1201.1	<b>1201.1 Scope.</b> 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.
	Reason: Ensur	es permits and compliance with specific code requirements.
38.	1203.1.1	<b>1203.1.1 Stationary generators.</b> 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.
		es permits and compliance with specific code requirements.
39.	1204.1.1	1204.1.1 Permits. Permits shall be obtained for solar voltaic systems in accordance with Section 105.7.21  Exception: Solar photovoltaic systems with a 3 kW or less alternating current nameplate rating that are not tied into the utility companies power grid system.
	Reason: Provid	es for tracking of system installations.
40.	1204.1.2	<b>1204.1.2 Marking.</b> Marking is required on interior and exterior direct-current (DC) conduit, enclosures, race- ways, cable assemblies, junction boxes, combiner boxes and disconnects.
0.4		es clarification. This is base code language is from 2012 Chapter 6.
41.	1204.1.2.1	<b>1204.1.2.1 Materials.</b> 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.
	Reason: Provid	es clarification. This is base code language is from 2012 Chapter 6.
42.	1204.1.2.2	<b>1204.1.2.2 Marking content.</b> The marking shall contain the words "WARNING: PHOTOVOLTAIC POWER SOURCE."
	Reason: Provid	es clarification. This is base code language is from 2012 Chapter 6.

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43.	1204.1.2.3	<b>1204.1.2.3 Main service disconnect.</b> The marking shall be placed adjacent to the main
		service disconnect in a location clearly visible from the location where the disconnect is
		operated.
I	Reason: Provid	des clarification. This is base code language is from 2012 Chapter 6.
	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: Provid	des clarification. This is base code language is from 2012 Chapter 6.
	1204.2	<b>1204.2 Access and pathways.</b> 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 in order to create
		opportunities for fire department smoke ventilation operations.
		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.
		Panels/modules shall be permitted to be located up to the roof ridge where an alternative
		ventilation method approved by the fire chief has been provided or where the fire chief
		has determined vertical ventilation techniques will not be employed.
	Reason: Suppo	orts operations and provides clarification. This is base code language is from 2012 Chapter 6.
16.	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
		<del>planes.</del>
		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 no
		conflict with overhead obstructions such as tree limbs, wires, or signs.
		orts operations and provides clarification. This is base code language is from 2012 Chapter 6.
17.	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 systems for one- and two- family dwellings. Access to residential
		systems for one- and two-family dwellings shall be provided in accordance with Sections
		605.11.3.2.1 through 605.11.3.2.4.
	Reason: Suppo	orts operations and provides clarification. This is base code language is from 2012 Chapter 6.
48.	1204.2.1.3	1204.2.1.3 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 hip roof layouts. Panels/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/modules are located. The access pathway shall be located at a structurally strong
		location on the building capable of supporting the live load of fire fighters accessing the roof.
		<b>Exception:</b> These requirements shall not apply to roofs with slopes of two units vertical in 12
		units horizontal (2:12) or less.
	Reason: Suppo	orts operations and provides clarification. This is base code language is from 2012 Chapter 6.
49.	1204.2.1.4	1204.2.1.4 Residential buildings with a single ridge. Panels/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/modules
		are located.
		<b>Exception:</b> This requirement shall not apply to roofs with slopes of two units vertical in
		12 units horizontal (2:12) or less.
	Reason: Suppo	orts operations and provides clarification. This is base code language is from 2012 Chapter 6.
50.	1204.2.1.5	1204.2.1.5 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.
		Exception: These requirements shall not apply to roofs with slopes of two units vertical in 12
	Pagant Cunn	units horizontal (2:12) or less.
51.	<b>1204.2.1.6</b>	orts operations and provides clarification. This is base code language is from 2012 Chapter 6.  1204.2.1.6 Residential building smoke ventilation. Panels/modules installed on residential
51.	1204.2.1.0	buildings shall be located no higher than 3 feet (914 mm) below the ridge in order to allow
		for fire department smoke ventilation operations.
	Reason: Suppo	orts operations and provides clarification. This is base code language is from 2012 Chapter 6.
52.	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.
	1	1

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		<ol> <li>A pathway not less than 4 feet (1219 mm) wide in a straight line to roof standpipes or ventilation hatches.</li> <li>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.</li> </ol>
		<ul> <li>4. The pathway shall be over areas capable of supporting the live load of firefighters accessing the roof.</li> <li>5. The centerline axis pathways shall be pro- vided in both axes of the roof. Centerline axis pathways shall run where the roof structure is capable of supporting the live load of fire fighters accessing the roof.</li> </ul>
	Reason: Suppo	orts operations and provides clarification. This is code language is from 2012 Chapter 6.
53.	1204.3.3	1204.3.3 Smoke ventilation. The solar installation shall be designed to meet the following
		requirements:  1. Where nongravity-operated smoke and heat vents occur, a pathway not less than 4 feet (1219 mm) wide shall be provided bordering all sides.  2. Smoke ventilation options between array sections shall be one of the following:  2.1. A pathway not less than 8 feet (2438 mm) wide.  2.2. Where gravity-operated dropout smoke and heat vents occur, a pathway not less than 4 feet (1219 mm) wide on not fewer than one side.  2.3. A pathway not less than 4 feet (1219 mm) wide bordering 4-foot by 8-foot (1219 mm by 2438 mm) venting cutouts every 20 feet (6096 mm) on 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 department smoke
ŀ	<b>.</b>	ventilation operations.
ГΛ		orts operations and provides clarification. This is code language is from 2012 Chapter 6.
54.	1206.1	1206.1 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 system in Group R-3 and R-4 occupancies shall be in accordance with 1206.2.1 and 1206.4. Approved signage is required for all installations.  Exception: Electrical energy storage systems with a capacity of 3 kWh or less.  1206.1.1 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.  Exception: Operating permits are not required for Group R-3 and R-4 occupancies.
		es requirements.
55.	1206.2.1	<b>1206.2.1 Permits.</b> 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.
	Reason: Clarifi	es requirements.
56.	1206.2.3	<b>1206.2.3 Hazard mitigation analysis.</b> A failure modes and effects analysis (FMEA) or other approved hazard mitigation analysis shall be provided in accordance with Section 104.7.2 under any of the following conditions:
		1. Battery technologies not specifically identified in Table 1206.2 are provided.

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		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: Clarifi	es requirements.
57.	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	es large systems are approved per the code.
58.	1206.2.8.7.1	<b>1206.2.8.7.1 Separation.</b> 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.
		<b>Exception:</b> 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.
		des a larger safety separation, at the request of the FSAB.
59.	1206.2.3	<b>1206.2.3 Hazard mitigation analysis.</b> A failure modes and effects analysis (FMEA) or other
		approved hazard mitigation analysis shall be provided in accordance with Section 104.7.2
		under any of the following conditions:
		1. Battery technologies not specifically identified in Table 1206.2 are provided.

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		<ol> <li>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.</li> <li>Where allowed as a basis for increasing maximum allowable quantities in accordance with Section 1206.2.9.</li> <li>When required by the fire code official.</li> </ol>
	Reason: Allow	s for requirements by the fire code official.
60.	1206.2.11.3	<b>1206.2.11.3 Exhaust ventilation.</b> 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: Allow	s for small systems to be installed.
61.	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.
62.	<b>1206.4.3</b>	s for small systems to be installed.
02.		<ol> <li>1206.4.3 Location. Energy storage system shall only be installed in the following locations:         <ol> <li>Detached garages and detached accessory structures.</li> <li>Attached garages separated from the dwelling unit living space and sleeping units in accordance with Section 406.3.2 of the International Building Code.</li> <li>Outdoors on exterior walls in accordance with 1206.4.3.1</li> <li>Utility closets and storage or utility spaces within dwelling units and sleeping units.</li></ol></li></ol>
63.	1206.4.3.1	1206.4.3.1 Exterior wall and outdoor installations. Energy storage system shall be
	1200.4.5.1	<ol> <li>permitted to be installed outdoors on exterior walls of buildings or on the ground when all of the following conditions are met:         <ol> <li>The maximum energy capacity of individual energy storage system units shall not exceed 20 kWh.</li> <li>The energy storage system shall comply with applicable requirements in Sections 1206. The installation is in accordance with Zoning setback requirements.</li> <li>The energy storage system shall be installed in accordance with the manufacturer's instructions and their listing.</li> <li>Individual energy storage system units shall be separated from each other by not less than 3 feet (914 mm).</li> <li>The energy storage system shall be separated from doors, windows, operable openings into buildings, or HVAC inlets by at least 5 feet (1524 mm).</li> </ol> </li> <li>Exception: Where approved by the <i>fire code official</i>, smaller separation distances in</li> </ol>
		items 4 and 5 may be permitted based on large scale fire testing
	Reason: Insta	llations must be in accordance with Fire and Zoning ordinances.
64.	1206.4.4	<b>1206.4.4 Energy ratings.</b> 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.

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		1. 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: Energ	gy storage systems are not allowed in closets.	
65.	2001.1	<b>2001.1 Scope.</b> Airports, heliports, helistops and aircraft hangars shall be in accordance with this chapter, and the most current version of other nationally recognized standards.	
	Reason: Ensur	res the Fire Code does not hinder other FAA compliance requirements.	
66.	2201.2	<b>2201.2 Permits.</b> Permits shall be required for combustible dust-producing operations as set forth in Section 105.6 and 105.7	
	Reason: Const	truction permits are now required.	
67.	2307.2.4	2307.2.4 Breakaway devices. Breakaway devices shall comply with ANSI/IAS NGV 4.4,	
Ì		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 fire code official.	
	Reason: Adds	details for clarity.	
68.	2807.4	<b>2807.4 Material-handling equipment.</b> 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	
		pres previous amendment ensuring proper equipment is readily available.	
69.	2807.6.3	<b>2807.6.3 Push-out or clear area.</b> 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 <sup>3</sup> ) 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 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	pres previous amendment ensuring enough space is provided to push burning piles around to	
	put out fire.	ores previous amenament ensuring enough space is provided to pash parting piles around to	
70.	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.	
	<b>D</b>	nto this section in error.	
	<b>Reason:</b> Put ir	ito tilis section in error.	

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71.	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.
	Reason: Prov	vides clarity if compliance with code.
72.	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.
	Reason: Defi	ines types of pallets governed by this section of code.
73.	2810.8.1	<b>2810.8.1 Pallet pile stability and size.</b> Pallet stacks shall be arranged to form stable piles.
	Reason: Rest	tores previous amendment.
74.	2810.9	2810.9 Size of piles. Piles shall not exceed 150,000 cubic feet (4248 m3) in volume.
	Reason: Rest	tores previous amendment.
75.	2810.10	2810.10 Aisles. Aisles shall be a minimum of 20 feet (6096 mm) wide and shall be maintained
		clear and unobstructed at all times.
	Reason: Rest	tores previous amendment.
76.	2810.11	<b>2810.11 Dead-ends.</b> No dead-end aisles shall be allowed within the facility.
	Reason: Rest	tores previous amendment.
77.	2810.12	<b>2810.12 Fire apparatus access roads.</b> 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.
		tores previous amendment.
78.	2810.13	<b>2810.13 Prohibited locations.</b> Pallets shall not be stored underneath high-voltage
		transmission lines, elevated roadways.
		tores previous amendment. Remainder of section renumbered accordingly.
79.	3301.3	<b>3301.3 Permits.</b> Permits shall be required as set forth in Section 105.6 through 105.7.
		res piles are started and maintained in compliance with the code.
80.	3401.3	<b>3401.3 Site plans.</b> 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.
		res piles are started and maintained in compliance with the code.
81.	3405.1	<b>3405.1 Individual piles.</b> 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
		<del>(1416 m3) in volume or</del> 10 feet (3048 mm) in height.
		Piles 2,501 – 4,999 square feet (232 m <sup>2</sup> – 464.5m <sup>2</sup> ) shall comply with Section 315.4. Tires
		shall be placed on solid, level ground.
00		needed after amendment
82.	3405.10	<b>3405.10 Barriers.</b> 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	enforceable.

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83.	3405.11	<b>3405.11 Drainage.</b> 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 en			
84. <b>3501.2 3501.2</b> Permits. Permits shall be required as set forth in Section 105.6.				
		Exceptions:		
		Work conducted at one- and two-family dwellings.		
		2. 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.		
	Reason: Ident	ifies exceptions to permit requirement.		
85.	3501.2.1	<b>3501.2.1 When permits are not required</b> . 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.		
	Reason: Ident	ifies exceptions to permit requirement.		
86.	5003.2.2.1	<b>5003.2.2.1 Design and construction.</b> Piping, tubing, valves, fittings and related components		
		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.		
		tored from previous amendment.		
87.	5004.7	<b>5004.7 Standby or emergency power.</b> Where mechanical ventilation, treatment		
		systems, temperature control, alarm, detection or other electrically operated systems		
		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: Resto	res previous amendment. Toxic gases are not otherwise addressed.		
88.	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		
		required by this code, such systems shall be provided with an emergency or standby power		

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		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		
	Danaga Dafla	Section 604.		
89.	5005.1.12	cts code requirement found in National Toxic Gas Code.  5005.1.12 Emergency isolation. Where gases or liquids having a hazard ranking of Health		
03.	3003.1.12	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: Comp	letes all hazard classes of extreme reactivity.		
90.	5303.4.3	<b>5303.4.3 Piping systems identification.</b> 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.		
91.		d to better identify the section.		
51.	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	the public of location of blasting zones. Remainder of section renumbered.		
92.	5701.1	<b>5701.1 Scope and application.</b> 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.		
	Reason: Ensur	es plan review is conducted prior to installation.		
93.	5706.9	<b>5706.9 Location of fuel tanks of sub-based generators.</b> Above-ground fuel storage tanks for		
		generators shall be located with respect to distances to lot lines of adjoining property which		
		can be built on, nearest side of any public way or from nearest important building on the same		
	Posson: Chant	property in accordance with Tables 3405.3.4(1) and 3405.3.4(2)_5705.3.4 (1) and 5705.3.4 (2).		
94.	Chapter 80	ers moved in the base code.  Adopts NFPA 855 Standard for the Installation of Energy Storage Systems, 2020 Edition		
	•	are occurs in other occupancies.		
95.	Chapter 81	Behavioral health care facilities, Group I 1.		
	Operating	An operational permit shall be required for a thorough fire inspection which is conducted per		
	Permits	year and upon change of ownership or tenancy.		
		Permit 1.0 hr		
	Reason: This c	are occurs in other occupancies.		

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96.	Developmentally disabled group care homes Group I-1.			
	Chapter 81 Operating	An operational permit is required to operate, developmentally disabled group home.		
	Permits	Permit		
		red to ensure ongoing inspections in facilities.		
97.	Chapter 81	Combustible dust producing operation. To operate a grain elevator, flour starch mill, feed		
	Operating	mill, or a plant pulverizing aluminum, coal, cocoa, spices or sugar, or other operations		
	Permits	producing combustible dusts as defined in Chapter 2. Permit 1.0 2.0 hr		
	Termits	Reason: Inspection and data entry take a minimum of 2 hours to complete.		
98.	Chapter 81	Combustible fiber producing operation. An operational permit is required for the storage		
	Operating	and handling of combustible fibers in quantities greater than 100 cubic feet (2.8 m3). Permit		
	Permits	1.0 2.0 hr		
		ction and data entry take a minimum of 2 hours to complete.		
99.	Chapter 81	Compressed gas. For the storage, use or handling at normal temperature and pressure (NTP)		
33.	Operating	of compressed gases in excess of the amounts listed in table 105.6.8.		
	Permits	Exceptions:		
	Termits	1. Vehicles equipped for and using compressed gas as a fuel for propelling vehicles.		
		2. Carbon dioxide, see Carbon Dioxide.		
		Included in Assessment.		
		Permit 1.0 hr		
	Reason: Resto			
100.	Chapter 81	Daycare facilities, commercial.		
	-			
	Operating	An operational permit is required to operate a commercial daycare (6 or more) facility for		
	Operating Permits	An operational permit is required to operate a commercial daycare (6 or more) facility for children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs		
		children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs		
101.	Permits Reason: Restor	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs		
101.	Permits	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.		
101.	Permits Reason: Restor	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private		
101.	Permits Reason: Restor Chapter 81 Operating	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19.		
101.	Permits Reason: Restor Chapter 81 Operating Permits	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19.		
	Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19. red from 2012.		
	Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor Chapter 81	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19. red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives,		
	Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor Chapter 81 Operating	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19. red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs		
	Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor Chapter 81 Operating Permits	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19. red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs		
102.	Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19. red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs		
102.	Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor Chapter 81 Chapter 81	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19. red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs red from 2012.  Firework, sales.		
102.	Permits Reason: Restor Chapter 81 Operating	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19. red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs red from 2012.  Firework, sales. To conduct sales of fireworks indoors. Permit 1.0 hr		
102.	Permits Reason: Restor Chapter 81 Operating Permits	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19. red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs red from 2012.  Firework, sales. To conduct sales of fireworks indoors. Permit 1.0 hr		
102.	Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19.  red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs  red from 2012.  Firework, sales.  To conduct sales of fireworks indoors. Permit 1.0 hr		
102.	Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor Chapter 81 Chapter 81	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19.  red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs  red from 2012.  Firework, sales.  To conduct sales of fireworks indoors. Permit 1.0 hr  red from 2012.  Firework, sales.		
102.	Permits Reason: Restor Chapter 81 Operating	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19. red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs red from 2012.  Firework, sales. To conduct sales of fireworks indoors. Permit 1.0 hr  red from 2012.  Firework, sales. To conduct sales of fireworks indoors. Permit 1.0 hr		
102.	Permits Reason: Restor Chapter 81 Operating Permits	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19. red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs red from 2012.  Firework, sales. To conduct sales of fireworks indoors. Permit 1.0 hr  red from 2012.  Firework, sales. To conduct sales of fireworks indoors. Permit 1.0 hr		
102.	Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor Restor Restor Restor Restor Restor Restor	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19.  red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs  red from 2012.  Firework, sales.  To conduct sales of fireworks indoors. Permit 1.0 hr  red from 2012.  Firework, sales.  To conduct sales of fireworks indoors. Permit 1.0 hr		
102.	Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19.  red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs  red from 2012.  Firework, sales.  To conduct sales of fireworks indoors. Permit 1.0 hr  red from 2012.  Firework, sales.  To conduct sales of fireworks indoors. Permit 1.0 hr		
102.	Permits Reason: Restor Chapter 81 Operating Permits Reason: Restor	children or adults. Permit 1.0 hr; 51 persons or more 2.0 hrs red from 2012.  105.6.51.9 Educational facility. An operational permit is required for public and private schools K through 12.  Section number is deleted per ICC Editor 10/17/19. red from 2012.  Explosives. For the manufacture, storage, handling, sale or use of any quantity of explosives, or explosive materials. Permit 2.0 1.0 hrs red from 2012.  Firework, sales. To conduct sales of fireworks indoors. Permit 1.0 hr red from 2012.  Firework, sales. To conduct sales of fireworks indoors. Permit 1.0 hr red from 2012.  Firework, sales. To conduct wholesale sales of fireworks. Permit 1.0 hr		

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106.				
	Operating	To install or modify a flammable/combustible tank. Inerting of the tank is included in		
	Permits	removal fee.		
	i cimits	Permit		
	Reason: Reloca	ated from New Construction to Operational permit.		
107.	Chapter 81	[F] Flammable /combustible liquid, tank modification, OTC.		
	Operating	To include change of contents, sump-pump change-out, dispenser change-out, dispenser re-		
	Permits	piping, dispenser repair, tank re-lining, tank cutting, tank repair or re-piping, vent pipe		
		relocations, or emergency shutoff switch relocation or repair.		
		Permit		
		Exceptions: Routine maintenance		
	Reason: Reloca	ated from New Construction to Operational permit.		
108.	Chapter 81	[F] Flammable/combustible liquids tank, defuel/pump-out, OTC.		
	Operating	To defuel or pump-out an underground or above-ground storage tank used for fueling motor		
	Permits	vehicles, by any means other than the approved, stationary on-site pumps normally used for		
		dispensing purposes.		
		Permit2.0 hrs		
	Reason: Reloca	ated from New Construction to Operational permit.		
109.	Chapter 81	[F] Flammable/combustible liquids tank, slurry fill, OTC.		
	Operating	To slurry fill an underground tank.		
	Permits	Permit 2.0 hrs		
	Reason: Reloca	ated from New Construction to Operational permit.		
110.	Chapter 81	[F] Flammable/combustible liquids tank, abandon, OTC.		
	Operating	To abandon an underground or above-ground flammable / combustible liquids tank.		
	Permits	Permit2.0 hrs		
		ated from New Construction to Operational permit.		
111.	Chapter 81	[F] Flammable/combustible liquids tank, place out of service, OTC.		
	Operating	To place out of service for up to one year an underground or above-ground		
	Permits	flammable/combustible liquids tank.		
		Permit		
		ated from New Construction to Operational permit.		
112.	Chapter 81	Juvenile group home.		
	Operating	An operational permit is required annually to operate a juvenile group home, Group I-1.		
	Permits	Permit1.0 + \$10 per bed		
		rames for permit renewal will be addressed via policy and state guidelines. These group homes		
112		ble types of occupancies and we charge a bed fee.		
113.	Chapter 81	After hours fees. After hours or weekend inspections shall be billed a minimum 3		
	Operating Permits	hours at the hourly rate. Additional time needed to complete the inspection will be		
	Permits	billed at the hourly rate.		
	Reason: Fees a	added to address work conducted after city business hours or on weekends.		
114.	Chapter 81	Penalty fees. Permit application and applicable documents shall be submitted within 5		
	Operating	business days of the defuel / pump-out. A penalty fee of \$25 per day shall be assessed for		
	Permits	permit applications not submitted 5 business days prior to the defuel / pump-out.		
		1 to the second		

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2018	2018   Blue text = 2018 After Adoption Amendment			
	Reason: Timeframes for permit renewal will be addressed via policy. These group homes occur in multiple			
	types of occupancies and we charge a bed fee.			
115.	Chapter 81	Medical Facility.		
	Operating	To operate a medical facility.		
	Permits	Permit		
	Reason: Resto			
116.	Chapter 81	Nursing homes.		
	Operating	An operational permit is required annually to operate a nursing home.		
	Permits	Permit		
	Reason: Timef	rames for permit renewal will be addressed via policy.		
117.	Chapter 81	Outdoor assembly events. To conduct public or private events outdoors, having a projected		
	Operating	attendance of <del>1,000</del> 500 or more persons or confining 50 or more persons by temporary		
	Permits	installation of fencing. Permit 3.0 hrs		
	Reason: Consis	stent with amendment in previous codes.		
118.	Chapter 81	Plant extraction systems.		
	Operating	An operational permit is required to use plant extraction systems.		
	Permits	Permit 1 <del>.0</del> 2.0 hrs		
	Reason: This o	peration typically needs more than one inspection to complete. Fee to cover additional		
	inspections.			
119.	Chapter 81	Semiconductor facility.		
	New Con.	To operate a semiconductor facility.		
	Permits	Permit 1.0 hr		
	Reason: Omitted form 2018			
120.	Chapter 81	Tire rebuilding plant.		
	Operating	To establish, conduct and maintain a tire rebuilding plant.		
	Permits	Permit 2.0 3.0 hrs		
		ised to match tire storage permit time.		
121.	Chapter 81	Tires, storage.		
	Operating	To establish, conduct or maintain storage of used, or scrap tires and tire byproducts that		
	Permits	exceeds 2,500 cubic feet (71 m) of total volume of scrap tires, and for indoor storage of tires		
		and tire byproducts. Permit 3.0 hrs		
422		ged to match Chapter 1 permit requirement language.		
122.	8103.3	8103.3 Expedited plan review. When allowed by the fire code official, a plan review may be		
		expedited. The permit applicant shall pay an additional fee of three the hourly hours.		
		Additional time needed to complete will be billed at the hourly rate for each additional hour		
	Danage Trees	or portion thereof. Fees shall be cumulative.		
122	Reason: Typog			
123.	8103.11	8103.11 Work without a permit. Work commencing without the applicable Fire Prevention		
		permit is strictly prohibited. Where required by the fire code official a penalty equal to 300		
	Posses Add -	percent of the total cost of the required plan review, permit and inspection fees shall apply.		
		d to reflect additional cost of new construction work, as different from beginning an operation		
	without an operational permit.			

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124.	Chapter 81	[F&P] NFPA 13 & 13R sprinkler system.				
	New Con.  To install or modify a NFPA 13 automatic sprinkler system. Plan review is for the first 40 square feet (3716 m²) of one building with 1 2 calculations, up to 3 stories above or be					
		grade.				
	Plan Review2.5 hrs					
		Each additional 40,000 sq ft (3716 m²) add 1.0 hr				
		Additional calculations/design areas 1.0 hr				
		Water tank add 1.0 hr				
		High challenge commodity above Group A plastic being stored add 4.0 hrs				
		Standpipe add2.5 hrs				
		Inspection2.0 hrs				
		Each additional 40,000 square feet (3716 m <sup>2</sup> ) in the same building add 1.0 hr hour				
	Inspection of high challenge commodity2.0 hrs  Plan review modification 21-200 heads2.0 hrs  Plan review modification of each additional 21-200 heads 2.0 hrs					
Inspection 21-200 heads2.5 hrs						
Inspection of each additional 200 heads2.5 hrs		Inspection of each additional 200 heads2.5 hrs				
		Inspection2.5 hrs				
	Reason: This p	ermit is intended for lead acid battery systems. A separate permit is required for lithium.				
		Battery systems, stationary fuel cell power systems. electrical energy storage systems to				
	New Con. include lithium ion battery systems.					
	Permits	To install or modify a stationary battery storage system used for facility standby power				
		emergency power or uninterruptible power supplies electrical energy storage systems as				
		regulated by Section 1206.2 and 1206.4				
		Up to 3kWh to 19kWh over the counter permit. 1.0 hour				
		— 20kWh and over				
		Plan Review2.0 hrs				
		Modification Permit 1.0 hr				
		Inspection 1.0 hr				
		Battery systems, lithium. See Lithium ion battery systems.				
120	·	ermit is intended for lead acid battery systems. A separate permit is required for lithium.				
126.	Chapter 81	Battery Systems, Electrical Energy Storage Systems to include Lithium Ion Battery Systems,				
	New Con. Permits	OTC. To install Floatrical Energy Storage Systems regulated by Section 1206 A with a conscity of				
	Permits	To install Electrical Energy Storage Systems regulated by Section 1206.4 with a capacity of more than 3 kWh to 19 kWh in an R-3 or R-4 occupancy.				
		Permit				
	Reason: Requi	res full plan review process				
127.	Chapter 81	Capacitor energy storage system.				
	New Con.	To install a capacitor energy storage system in excess of 3 kWh in accordance with Section				
	Permits	1206.3.				
		Plan Review2.0 hrs				
		Modification				
		Permit Inspection				
	Reason: Requi					
ı	Reason: Requires full plan review process					

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128.	Chapter 81 [F] Combustible dust or fiber collection system.			
	New Con.	To install, modify or alter combustible dust or fiber collection system.		
	Permits	Plan Review2.0 hrs		
		Modification 1.5 hr		
		Inspection 1.0 hr		
	Reason: Requi	res full plan review process.		
129.	Chapter 81	[P] Fire alarm modification w/plan review.		
	New Con.	To modify an existing fire alarm system.		
	Permits	Plan Review First 1-10 devices 2.0 hrs		
		Each additional 25 devices 1.0 hr		
	Reason: Clarifi	es how to charge for additional devices.		
130.	Chapter 81	[F] Fire apparatus alternative surface access road.		
	New Con.	To install or modify alternative surface fire apparatus access roads (fire lane).		
	Permits	Plan Review2.0 hrs		
		Modification		
		Inspection		
	Reason: Inspec	ction should only take 1 hour.		
131. Chapter 81 [F] Firefighter breathing air systems.				
	New Con.	To install or modify a firefighter breathing air system.		
	Permits	Plan Review3.0 2.0 hrs		
		Modification3.0 hrs 1.0 hr		
		Inspection 6.0 hrs		
		Modification Inspection		
Reason: Plan review time adjusted to reflect actual time spent.				
132.	Chapter 81	[F] Fire protection system removal., OTC.		
	New Con.	To permanently remove any fire protection system. Permit is not required for removal when		
	Permits	a permit has been issued for installation of replacement system, or entire building is being		
		demolished.		
		Permit Plan Review2.0 1.0 hrs		
		Inspection		
422		nger available over-the-counter. Requires review to ensure other systems are not affected.		
133.	Chapter 81	Flammable/combustible liquids, aboveground tank.		
	New Con.	To temporarily or permanently install or modify Class I, II, IIIA or IIIB flammable/combustible		
	Permits	liquids storage tank or pressure vessel with:		
		1. A nominal capacity of 125 gallons (473 L) outside a building, or		
		2. Any size tank inside a building, or		
		3. Class IIIB liquids with a nominal capacity of 1,000 gallons (3785 L) or more.		
		Includes tanks in vaults and any required piping, valves and dispensing equipment.		
		Plan Review4.0 hrs		
		Modification2.5 hrs		
		Inspection2.0 hrs		
		With fixed fire protection		
		Plan Review8.0 hrs		
L		The received an arrange of the second		

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Inspection ...... 1.0 hr

**Reason:** Time adjusted to reflect actual time spent.

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2018	Blue text = 3	2018 After Adoption Amendment	
140.	Chapter 81	[F] Plant extraction systems.	
	New Con.	To install or modify a plant extraction system.	
	Permits	Plan Review	
		Modification2.0 hrs	
		Inspection <u>2.0</u> 3.0 hrs	
	Reason: Time	adjusted to reflect actual time spent.	
141.	Chapter 81	Refrigeration system.	
	New Con.	To install, modify or alter a refrigeration system.	
	Permits	Plan Review F2352.0 4.0 hrs	
		Modification F2362.0 hrs	
		Inspection 4.0 hrs	
	Reason: Time	adjusted to reflect actual time spent.	
142.	Chapter 81	[P] Smoke & heat vents.	
	New Con.	To install or modify smoke and heat vents. Modification requires new plan submittal.	
	Permits	Plan Review first 1—400 vents	
		Permit F1102.0 hrs	
		Each additional 1—40 vents 1.0 hr	
		Inspection first 1—40 vents2.5 hrs	
		Inspect each additional 1—40 vents 1.0 hr	
		Inspections of smoke control or removal systems shall be conducted by fire pro-	otection
		engineers and fire prevention inspectors.	
		graphical error.	
143.	Chapter 81	Solar photovoltaic power systems.	
	New Con.	To install or modify a solar photovoltaic power system.	
	Permits	Residential Plan Review <del>0.5</del> 2.0 hr	
		Inspection <del>0.5</del> 1.0 hr	
		Commercial Plan Review	
		Inspection	
		increased to address actual time to complete.	
144.	Chapter 81	[F] Solar photovoltaic power systems, OTC.	
	New Con.	To install or modify install a residential solar photovoltaic power system with an alt	•
	Permits	current nameplate rating of 3 kW to 10 kW in an R-3 or R-4 occupancy or the installa	
		residential solar photovoltaic system for a water heater with a system size of 30kW	√th (462
		square feet (49.9 M <sup>2</sup> ) of collector) or less in an R-3 or R-4 occupancy.	
		Permit	
4.5-		ed to record time and recover fee for inspections, not otherwise captured.	
145.	8106.9	8106.5 General fire inspection.	
		A non-fire code required general inspection may be requested and conducted upon re	equest
		for a fee.	
		Permit 1.0 hr	
	_	Additional inspections will be charged reinspection fees.	
	Reason: Create	ed to record time and recover fee for inspections, not otherwise captured.	

ext = IFC char	nges to 2018 base code   Black and stricken <b>text</b> — Base code beir			
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•				
8106.9	<b>8106.9 Maintenance inspections.</b> Inspections to ensure code co deficiency reports shall be assessed at the hourly rate, minimum of 1-laccordingly].	•		
Reason: Creat	ed to record time and recover fee for inspections, not otherwise captu	red.		
8106.3	Table 8107-6.3 Area Assessment Fees			
	(Applies to Fee Groups 1, 2 or 3 only)			
	A. Facilities and sites with total areas of more than 250,000 square	feet (23 225 square		
	meters) shall be levied an area assessment fee in addition to their a	annual assessment fee.		
	B. The Area Assessment will be the fee group annual assessment for	r the first 250,000 square		
	feet (23 225 square meters), plus 50 percent of the annual assess	ment fee for each		
	additional 250,000 square feet (23 225 square meters).			
Reason: Time	adjusted to reflect actual time spent.			
1	Blue text = 3106.9  Reason: Creat 3106.3	Blue text = 2018 After Adoption Amendment  8106.9 Maintenance inspections. Inspections to ensure code codeficiency reports shall be assessed at the hourly rate, minimum of 1-accordingly].  Reason: Created to record time and recover fee for inspections, not otherwise capturables.  Table 8107-6.3 Area Assessment Fees (Applies to Fee Groups 1, 2 or 3 only)  A. Facilities and sites with total areas of more than 250,000 squaremeters) shall be levied an area assessment fee in addition to their confect (23 225 square meters), plus 50 percent of the annual assessment.		