

# IFC Ch. 57 Flammable & Combustible Liquids [FL/CL] (Addendum)

## 2012 International Fire Code Checklist

IFC Section	Requirements and Corrective Actions	See "REMARKS" on your Fire Inspection Report	Violation ✓
5701.1 5003.1.1	<b>Maximum Allowable Quantity (MAQ) Per Control Area.</b> Reduce your storage / use of <b>Flammable and Combustible Liquids</b> to the <b>MAQ</b> tables found in IFC §5003.1.1 as required in the comments section of the <b>Fire Inspection Report</b> .		
5703.1	<b>Electrical.</b> Refrain from using unauthorized <b>Electrical Wiring/Equipment</b> and install and maintain approved wiring/ equipment in close proximity to FL & CL and in accordance with IFC §605 and NFPA 70 <i>NEC</i> .		
5703.2.1 906.3	<b>Portable fire extinguishers.</b> Provide minimum <b>3-A:40-B:C fire extinguisher(s)</b> within <b>30 feet</b> of the FL/CL storage or use areas or minimum <b>4-A:80- B:C</b> extinguisher(s) within <b>50 feet</b> of the hazard.		
5703.5	<b>Labeling and signage.</b> Affix authorized, durable, <b>Warning Signs</b> , for the purpose of identifying the hazards of storing or using FL, where required by the LHCFD. Signs shall have white lettering on a red background and read: <b>DANGER-FLAMMABLE LIQUIDS</b> . Letters shall not be less than <b>3 inches</b> in height and ½ inch in stroke.		
5003.4	Obtain and keep in an accessible location, all required <b>Material Safety Data Sheets</b> (MSDS/SDS) for hazardous materials on site excluding designated hazardous waste.		
5703.5 5003.5 5003.6	<b>Hazard Identification Signs.</b> Affix and maintain approved <b>NFPA 704 Hazard Identification Signs</b> where required. Markings are required on individual and stationary containers, aboveground tanks, packaging, and at entrances to locations where HM are stored, dispensed, used or handled. Ensure that signs are not obscured and of durable design. The size, color and lettering shall be approved by the LHCFD. See <b>NFPA Warning Placard Requirements</b> .		
5703.5.3	<b>Warning labels.</b> Provide approved FL <b>Warning Labels</b> on individual containers and packages (e.g. DOT labels) or remove containers.		
5003.8.3 5003.8.3.1	<b>Control areas &amp; Construction requirements.</b> Reduce the amount of FL/CL to the maximum allowable quantity permitted by §5003.8.3.1 – §5003.8.3.5 or legally re-construct the separation between the fire control areas. For information, contact the LHC Building Division at (928) 453-4148 or in person.		
	<b>Label or placard.</b> Affix an authorized, durable, <b>NFPA 704 label</b> or placard on <b>FL/CL storage tanks</b> storing more than <b>100 gallons</b> in capacity using numbers in the diamond corresponding with the SDS (Ex. 1-3-0). See <b>NFPA Warning Placard Requirements</b> .		
5704.2.4 5003.7	<b>Sources of ignition.</b> Refrain from <b>Smoking</b> , or allow smoking, open flames or other ignition sources, in areas where FL/CL are stored or used. Affix approved <b>"NO SMOKING"</b> signs at all entrances to FL/CL rooms or areas. Minimum <b>Red 2" Lettering on a white background</b> . Affix approved signs designating where smoking is permitted within approved smoking areas outside hazard areas.		
5704.2.6 5704.3.3.2 5003.9.8	<b>Separation from incompatible materials.</b> <b>Separate FL &amp; CL from Incompatible HM</b> in storage or use areas, where containers having a capacity of more than 0.5 gallon are present, by a distance of at least <b>20 feet</b> . Or provide an approved <b>18" high noncombustible partition</b> . Or store HM in approved FL storage cabinets. (e.g. acids and oxidizers)		
5704.2.6	<b>Separation from incompatible materials.</b> <b>Grass, Weeds, Combustible Materials</b> and waste Class I, II, III-A liquids shall not be accumulated in an unsafe manner at a storage site. Remove <b>weeds</b> , debris and common <b>combustible materials</b> not necessary to the storage in the areas surrounding a FL/CL outdoor control area and keep clear a <b>minimum of 15 feet</b> . Maintain at least <b>20 feet</b> from a lot line that can be built upon, public street, public alley or public way unless permitted. Lawfully dispose of hazardous waste liquids.		
5704.2.9	<b>Above-ground tanks.</b> Above-ground storage of <b>Flammable and Combustible Liquids in Tanks</b> shall comply with §5704.2 and §5704.2.9 .1 through §5704.2.9.7.1 0. File a Construction Permit application, for the FL/CL <b>Above Ground Storage Tank(s)</b> , with the LHCFD Fire Prevention Bureau. Comply with all permit requirements. Follow <b>LHCFD Spec #21 Standard for Temporary AGST Motor Fuel &amp; Dispensing Operations</b> .		
5704.2.9.7.4 5004.2.2.4	<b>Secondary containment.</b> Provide approved <b>Secondary Containment</b> , designed to contain a spill from the <b>Largest Individual Vessel</b> for all protected FL/CL Above-ground Tanks on the premises. If the area is <b>Open to Rainfall</b> , ensure that the containment is designed to include the volume of a <b>24-hour rainfall</b> as determined by a 25-year storm and make provisions to drain accumulations of groundwater and rainwater.		
5704.2.9.7.5	<b>Vehicle impact protection.</b> Provide documentation that the FL/CL protected above-ground storage tank meets the impact test protocol of Standard UL 2085, or install approved protective <b>Guard Posts (Bollards)</b> to protect your tank, piping, electrical conduit or dispensers, from <b>Vehicle impact</b> , and per <b>LHCFD Spec #15 Vehicle Crash Protection</b> .		
5704.2.13.1.2 5704.2.14 5704.2.7.3 §5704.2.7.4	<b>Underground FL/CL Storage Tanks Out of service for 90 days.</b> Safeguard the <b>Underground FL/CL Storage tank(s)</b> which have not been utilized with <b>90 days</b> . Prior to removing the tanks, evaluate the liquid contents in the tanks. Safely withdraw all liquid product(s) from the tanks and determine the contents of each tank and provide documentation regarding the contents of each tank. If hazardous materials are present within the tanks, dispose of the materials in accordance with federal, state and local regulations. Safeguard piping, dispensers and associated appurtenances from the site and dispose of them in accordance with federal, state and local regulations. If you desire to abandon the tanks altogether, obtain a LHCFD permit to do so.		
5704.2.13.1.3 5704.2.14 5704.2.13.1.4	<b>Underground FL/CL Storage Tanks Out of service for One Year.</b> Remove the <b>Underground FL/CL Storage Tank(s)</b> which have not been used in <b>365 days</b> , after obtaining a <b>LHCFD Construction Permit</b> to do so. Prior to removing the tanks, evaluate the liquid contents in the tanks. Safely withdraw all liquid product(s) from the tanks and determine the contents of each tank and provide documentation regarding the contents of each tank. If hydrocarbon products are present within the tanks, dispose of the materials in accordance with federal, state and local regulations. Remove all tanks, piping, dispensers and associated appurtenances from the site and dispose of them in accordance with federal, state and local regulations.		
5704.2.15	<b>Above Ground Tanks-Maintenance.</b> <b>Repair and Maintain FL/CL Above-ground Tanks</b> , connected piping and ancillary equipment to a safe operating condition and in accordance with their listings. Repair damaged tank or components to acceptable standards or remove from service.		

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5704.3 5704.3.1.1	<b>Container and portable tank storage.</b> Eliminate <b>Unauthorized FL/CL Containers</b> less than <b>60 gallons</b> / <b>Portable Tanks</b> less than <b>660 gallons</b> , and use only approved types.		
5704.3.2	<b>Liquid storage cabinets.</b> Store FL in excessive of <b>10 Gallons</b> per control area, in an approved <b>FL Storage Cabinet</b> conforming to all of the requirements of §5704.3.2.1 through §5704.3.2.2.		
5704.3.3.3	<b>Clear means of egress.</b> Remove or relocate <b>FL/CL Containers</b> to at least <b>5 Feet</b> away from <b>Exit Doors and Exit Paths</b> .		
5704.3.3.4	<b>Empty containers or portable tank storage.</b> Remove all unnecessary <b>Empty FL/CL Containers and Portable Tanks</b> . Previously used containers are to be stored as filled ones. Replace all <b>Missing Covers, Caps, Plugs and Bungs</b> on open containers to prevent spillage and contamination.		
5704.3.3.5 5704.3.3.5.3	<b>Shelf storage.</b> Replace unapproved <b>FL/CL Shelving</b> with approved shelving. Ensure that shelves are adequately braced and provided with a lip to prevent product displacement. <b>Wood Shelves</b> must be at least 1" nominal thickness. Maintain FL & CL containers, stored on shelving, in an <b>Orderly Manner</b> .		
5704.3.3.6	<b>Rack storage.</b> Provide and maintain a minimum <b>4-foot-wide Aisles between Adjacent Racks</b> and any adjacent storage of liquids. Provide and maintain a minimum width of <b>8-feet for Main Aisles</b> . Keep aisles clear at all times.		
5704.3.3.7	<b>Pile or palletized storage.</b> Solid pile and palletized storage in [H2 or H3] <b>Liquid Warehouses</b> , see 5704.3.3.7.		
5704.3.3.9	<b>Idle combustible pallets.</b> Storage of empty or idle combustible pallets inside an unprotected liquid storage area shall be limited to a maximum pile size of <b>2,500 square feet</b> and to a maximum storage <b>height of 6 feet</b> . Storage of empty or idle combustible pallets inside a protected liquid storage area shall comply with NFPA 13. Pallet storage shall be separated from liquid storage by <b>aisles</b> that are at least <b>8 feet wide</b> . Remove or relocate <b>Idle Combustible Pallets</b> at least <b>8 feet</b> from FL/CL storage areas and limit <b>Pallet Height to 6 feet</b> and store no more than <b>2,500 square feet</b> in volume.		
5704.3.3.8	<b>Limited combustible storage.</b> <b>Separate Combustible Materials</b> , including pallets, away from FL/CL storage areas by at least <b>8 feet</b> .		
5704.3.3.10	<b>Containers in piles.</b> Refrain from <b>Stacking FL/CL Containers/tanks in Piles</b> in an unstable fashion and provide stability.		
5704.3.4.1	<b>Maximum allowable quantity per control area.</b> Limit aggregate FL storage in <b>Wholesale &amp; Retail Occupancies</b> of 1-A liquids to <b>60 Gallons</b> in unsprinklered buildings and <b>30 gallons</b> in sprinklered buildings. Limit aggregate FL/CL storage of Class 1B, 1C, II & IIIA liquids to the prescribed amount in <b>IFC Table 5704.3.4.1</b> .		
5704.3.4.2	<b>Occupancy quantity limits (Indoors).</b> Limit the aggregate storage of <b>Class 1-B/1-C FL &amp; Class II CL</b> , necessary for demonstration, treatment, laboratory work, maintenance purposes and operation of equipment, within a <b>1-hour Control Area</b> , to <b>120 gallons in unsprinklered buildings</b> or <b>240 gallons in fully sprinklered buildings</b> . Limit the aggregate storage of <b>Class III-A CL</b> to <b>330 gallons in unsprinklered buildings</b> or <b>660 gallons in sprinklered buildings</b> . Limit the aggregate storage of <b>Class III-B CL</b> to <b>13,200 gallons in an unsprinklered buildings</b> or <b>unlimited within a sprinklered building</b> .		
5704.3.5.2	<b>Storage pile heights.</b> Relocate <b>FL or CL (Class II) Containers</b> having less than a <b>30-gallon Capacity</b> so they are not stacked more than <b>3 feet or Two Containers High</b> , whichever is greater, unless stacked on fixed shelving or otherwise satisfactorily secured. Reduce containers of <b>Class I &amp; II liquids 30 gallons</b> or more to only <b>one container high</b> . Store containers in an <b>upright position</b> .		
5704.3.5.3	<b>Storage distance from ceilings and roofs.</b> Lower all <b>FL/CL Containers/portable Tanks</b> at least <b>3 feet away</b> from the nearest beam, chord, girder or other obstruction, and at least <b>3 feet</b> below fire sprinklers, ceilings and other potential obstructions.		
5704.3.5.4	<b>Combustible materials.</b> In areas that are inaccessible to the public, Remove or separate all FL/CL <b>Containers Away from Combustible Materials</b> , stored in the same pile or rack section (not including packaging), in areas that are <b>inaccessible to the public</b> .		
5704.3.6	<b>Wholesale and retail sales uses.</b> FL/CL in <b>Group M</b> occupancy wholesale and retail sales uses shall be in accordance with the provisions in §5704.3.6		
5003.11.3.5	Remove or replace <b>unauthorized</b> HM containers with <b>Approved Containers</b> for the intended use and <b>Identify their Contents</b> on each container.		
5704.3.6.1	<b>Container type.</b> <b>Containers for Class I Liquids Shall be Metal</b> . Remove <b>non-metallic containers</b> containing Class 1 liquids <b>In Wholesale and Retail Sales Areas</b> , unless excepted.		
5704.3.6.2	<b>Container capacity.</b> Remove containers containing <b>Class 1 Liquids Exceeding 5 Gallons in Wholesale and Retail Sales Areas</b> .		
5704.3.6.3	<b>Fire protection and storage arrangements.</b> <b>Fire Protection and Container Storage Arrangements</b> shall be in accordance with Table 5704.3.6.3(1) or the following: 1. Storage on shelves shall not exceed 6 feet in height, and shelving shall be metal. 2. Storage on pallets or in piles greater than 4 feet 6 inches in height, or where the ceiling exceeds 18 feet in height, shall be protected in accordance with Table 5704.3.6.3(4), and the storage heights and arrangements shall be limited to those specified in Table 5704.3.6.3(2). 3. Storage on racks greater than 4 feet 6 inches in height, or where the ceiling exceeds 18 feet in height shall be protected in accordance with Tables 5704.3.6.3(5), 5704.3.6.3(6), and 5704.3.6.3(7) as appropriate, and the storage heights and arrangements shall be limited to those specified in Table 5704.3.6.3(3). Combustible commodities shall not be stored above flammable and combustible liquids. Reduce <b>Storage on Metal Shelving</b> to a maximum height of <b>6 feet</b> above floor level in <b>Wholesale and Retail Sales Areas</b> . Remove <b>Combustible Commodities</b> stored above FL/CL or relocate FL/CL to an approved area.		

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5704.3.6.4	<p><b>Warning for containers.</b> Ensure that all cans, Containers and vessels containing FL offered for sale are provided with a Warning Indicator, painted or printed on the container and stating that the liquid is <b>FLAMMABLE</b>, in Wholesale and Retail Sales Areas.</p>																																																						
5704.4	<p><b>Outdoor storage of containers and portable tanks.</b> Storage of flammable and combustible liquids in closed containers and portable tanks outside of buildings shall be in accordance with §5703 and §5704.4.1 through §5704.4.8. Capacity limits for containers and portable tanks shall be in accordance with §5704.3. Reduce outdoor liquid storage to the requirements in Table 5704.4.2 below.</p> <p style="text-align: center;"><b>TABLE 5704.4.2</b> <b>OUTDOOR LIQUID STORAGE IN CONTAINERS AND PORTABLE TANKS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">CLASS OF LIQUID</th> <th colspan="2">CONTAINER STORAGE— MAXIMUM PER PILE</th> <th colspan="2">PORTABLE TANK STORAGE— MAXIMUM PER PILE</th> <th rowspan="2">MINIMUM DISTANCE BETWEEN PILES OR RACKS (feet)</th> <th rowspan="2">MINIMUM DISTANCE TO LOT LINE OF PROPERTY THAT CAN BE BUILT UPON<sup>c,d</sup> (feet)</th> <th rowspan="2">MINIMUM DISTANCE TO PUBLIC STREET, PUBLIC ALLEY OR PUBLIC WAY<sup>d</sup> (feet)</th> </tr> <tr> <th>Quantity<sup>a,b</sup> (gallons)</th> <th>Height (feet)</th> <th>Quantity<sup>a,b</sup> (gallons)</th> <th>Height (feet)</th> </tr> </thead> <tbody> <tr> <td>IA</td> <td>1,100</td> <td>10</td> <td>2,200</td> <td>7</td> <td>5</td> <td>50</td> <td>10</td> </tr> <tr> <td>IB</td> <td>2,200</td> <td>12</td> <td>4,400</td> <td>14</td> <td>5</td> <td>50</td> <td>10</td> </tr> <tr> <td>IC</td> <td>4,400</td> <td>12</td> <td>8,800</td> <td>14</td> <td>5</td> <td>50</td> <td>10</td> </tr> <tr> <td>II</td> <td>8,800</td> <td>12</td> <td>17,600</td> <td>14</td> <td>5</td> <td>25</td> <td>5</td> </tr> <tr> <td>III</td> <td>22,000</td> <td>18</td> <td>44,000</td> <td>14</td> <td>5</td> <td>10</td> <td>5</td> </tr> </tbody> </table>			CLASS OF LIQUID	CONTAINER STORAGE— MAXIMUM PER PILE		PORTABLE TANK STORAGE— MAXIMUM PER PILE		MINIMUM DISTANCE BETWEEN PILES OR RACKS (feet)	MINIMUM DISTANCE TO LOT LINE OF PROPERTY THAT CAN BE BUILT UPON <sup>c,d</sup> (feet)	MINIMUM DISTANCE TO PUBLIC STREET, PUBLIC ALLEY OR PUBLIC WAY <sup>d</sup> (feet)	Quantity <sup>a,b</sup> (gallons)	Height (feet)	Quantity <sup>a,b</sup> (gallons)	Height (feet)	IA	1,100	10	2,200	7	5	50	10	IB	2,200	12	4,400	14	5	50	10	IC	4,400	12	8,800	14	5	50	10	II	8,800	12	17,600	14	5	25	5	III	22,000	18	44,000	14	5	10	5
CLASS OF LIQUID	CONTAINER STORAGE— MAXIMUM PER PILE		PORTABLE TANK STORAGE— MAXIMUM PER PILE		MINIMUM DISTANCE BETWEEN PILES OR RACKS (feet)	MINIMUM DISTANCE TO LOT LINE OF PROPERTY THAT CAN BE BUILT UPON <sup>c,d</sup> (feet)	MINIMUM DISTANCE TO PUBLIC STREET, PUBLIC ALLEY OR PUBLIC WAY <sup>d</sup> (feet)																																																
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5704.4.3 5004.2.3	<p><b>Spill Control &amp; Secondary Containment - Containment Pallets Outdoors.</b> Provide approved FL/CL Containment Pallets for individual vessels having a capacity of &gt;55 gallons or an aggregate capacity of multiple vessels &gt;1,000 gallons. Pallets must be liquid-tight, hold at least 66 gallons, compatible with the material and Protected to Prevent sprinkler or Rainwater Within the Pallet.</p>																																																						
5705.1	<p><b>Dispensing, use, mixing and handling of flammable liquids</b> shall be in accordance with Section 5703 and this section. Tank vehicle and Tank Car Loading and Unloading and other special operations shall be in accordance with §5706.</p>																																																						
5705.2	<p><b>Liquid transfer.</b> Refrain from using unauthorized Liquid Transfer Equipment for transfer of Class I, II and IIIA liquids and replace with approved Positive Displacement Pumps listed for this use.</p>																																																						
5705.2.1 5705.2.3	<p><b>Pumps.</b> Replace unauthorized or defective FL Transfer Equipment and ensure that only listed and approved positive-displacement pumps, hoses and valves remain in operable condition.</p>																																																						
5705.2.4	<p><b>Transferring Class I, II and III liquids.</b> Class I liquids or when heated to or above their flash points, Class II and Class III liquids shall be transferred by one of the following methods:</p> <ol style="list-style-type: none"> <li>From safety cans complying with UL 30.</li> <li>Through an approved closed piping system.</li> <li>From containers or tanks by an approved pump taking suction through an opening in the top of the container or tank.</li> <li>For Class IB, IC, II and III liquids, from containers or tanks by gravity through an approved self-closing or automatic-closing valve when the container or tank and dispensing operations are provided with spill control and secondary containment in accordance with §5703.4. Class IA liquids shall not be dispensed by gravity from tanks.</li> <li>Approved engineered liquid transfer systems.</li> </ol> <p><b>Exception:</b> Liquids in original shipping containers not exceeding a 5.3-gallon capacity. Refrain from transferring Class I-A liquids (e.g. racing gasoline, ethylene oxide, etc.) with a FP&lt;73 ° F. and a BP&lt;100° F., by gravity method from containers greater than 5 gallons (U.S.). Use an approved pump from the top of the container or tank.</p>																																																						
5705.3.2	<p><b>Bonding of vessels.</b> Where transferring of FL from one container to another, attach Bond Wires, Ground Cables, Piping or similar means to a static grounding system to maintain equipment at the same electrical potential to prevent sparking.</p>																																																						
5705.3.3	<p><b>Heating, lighting and cooking appliances.</b> Remove the gasoline or other FL heating appliance from the building. Replace with approved type heaters for indoor use, where needed.</p>																																																						
5705.3.4	<p><b>Location of processing vessels.</b> Processing Vessels shall be located with respect to distances to lot lines of adjoining property which can be built on, in accordance with Tables 5705.3.4(1) and 5705.3.4(2).</p>																																																						
5705.3.5	<p><b>Maximum allowable quantity (MAQ) per control area.</b> Indoor use, dispensing and mixing of flammable and combustible liquids shall not exceed the MAQ per control area indicated in Table 5003.1.1(1) and shall not exceed the additional limitations set forth in §5705.3.5.2 Occupancy quantity limits. The following limits for quantities of FL &amp; CL used, dispensed or mixed based on occupancy classification shall not be exceeded in Groups A,B,E,F,I,M,R &amp; S. Class IB/IC/II. Limit your indoor Dispensing or Open Use of all Class I &amp; II liquids, in containers to a maximum 30 Gallons per control area or 60 Gallons in a sprinkled building.</p>																																																						
5705.3.6	<p><b>Cleaning with flammable and combustible liquids.</b> Either clean parts in approved parts wash machinery or use non-flammable/combustible solvents in an approved manner. Parts Cleaners must be listed, labeled, have a fusible link or similar device and approved for use. Machines must be at least 30-feet apart.</p>																																																						
5705.3.7	<p><b>Rooms or buildings for Quantities exceeding the MAQ per control area. (Indoor areas)</b> See §5705.3.7.1 through 5705.3.7.6.3.</p>																																																						
5705.3.8	<p><b>Use, dispensing and handling Outside of Buildings.</b> Dispensing of liquids into motor vehicle fuel tanks at Motor Fuel-Dispensing Facilities shall be in accordance with Chapter 23.</p>																																																						
5705.3.8.1	<p><b>Spill control.</b> Where exceeding the MAQ limits, provide approved spill control measures for hazardous materials, when transferred from containers, outdoors.</p>																																																						

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5705.3.8.2	<p><b>Location on property.</b> Limit <b>Outdoor FL/CL Dispensing Activities</b> from <b>Class 1A</b> containers exceeding <u>10 gallons</u>, or <b>Class 1B</b> containers exceeding <u>15 gallons</u>, or <b>Class 1C</b> containers exceeding <u>20 gallons</u>, or <b>Class II</b> containers exceeding <u>30 gallons</u>, <b>Class IIIA</b> containers exceeding <u>80 gallons</u> or <b>Class IIIB</b> containers exceeding <u>3,300 gallons</u> <b>Within 15 feet</b> of buildings or combustible materials or <b>Within 25 Feet</b> of building openings, lot lines, public streets, public alleys or public ways. Limit for <b>Combined FL</b> is <b>30 gallons</b> where approved. Dispensing activities that <b>exceed these quantities</b> shall not be conducted within <b>15 Feet</b> of storage of any FL / CL liquids.</p>		
5705.5	<p><b>Alcohol-based hand rubs</b> classified as Class I or II liquids. Relocate <b>wall-mounted alcohol-based hand rub dispensers</b>, where applicable, so they are: Mounted between <b>42" and 48" above floor level</b>; Separated by <b>at least 48"</b>; so they are not located directly above or below an electrical receptacle, switch, appliance, device or other ignition source; and keep <b>clear and unobstructed</b> space between the dispenser and the floor. Consider changing hand rubs to a non-flammable/combustible formula. Dispensers installed in occupancies with <b>carpeted floors</b> shall only be allowed in areas equipped throughout with an approved automatic sprinkler system.</p>		
5706.2	<p><b>Storage and Dispensing of flammable and combustible liquids on Construction Sites.</b></p>		
5706.6.1	<p><b>Operation of Tank Vehicles.</b></p>		

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