

# IFC Ch. 50 HAZ MAT [HM] (Addendum)

## 2012 International Fire Code Checklist

Code Section	Requirements & Corrective Actions	Violation ✓
5001.3.3.2	Repair non-operational <b>HM Equipment</b> and operate it per the manufacturer's instructions.	
5001.3.3.3	Reduce the <b>Risk of Unintentional Reactions/Releases</b> that could endanger people and/or property.	
5001.3.3.4	Provide an approved <b>Spill Containment System</b> or HM <b>Containment Pallets</b> to protect people and property.	
5001.3.3.5	Remove all <b>Ignition Sources</b> away from HM which could cause a fire or explosion.	
5001.3.3.6	Protect HM from <b>physical damage</b> by installing approved Vehicle Crash Protection posts or other means.	
5001.3.3.10	Provide an approved means of <b>Ventilation</b> to HM area posing a fire, explosion or health risk per the International Mechanical Code.	
5001.3.3.15	Develop a written <b>Emergency Plan</b> , with affected employees, to ensure that proper actions are taken by them in the event of an emergency.	
5001.5.1	Develop a <b>HM Management Plan (HMMP)</b> , including a facility site plan, designating the following: <ol style="list-style-type: none"> <li>1. Access to each storage and use area.</li> <li>2. Location of emergency equipment.</li> <li>3. Location where liaison will meet emergency responders.</li> <li>4. Facility evacuation meeting point locations.</li> <li>5. The general purpose of other areas within the building.</li> <li>6. Location of all above-ground and underground tanks and their appurtenances including, but not limited to, sumps, vaults, below-grade treatment systems and piping.</li> <li>7. The hazard classes in each area.</li> <li>8. Locations of all control areas and Group H [High-Hazard] occupancies.</li> <li>9. Emergency exits.</li> </ol>	
5001.5.2	Develop, maintain and submit to the LHCDF Fire Prevention Bureau, a <b>HM Inventory Statement (HMIS)</b> including the following information: <ol style="list-style-type: none"> <li>1. Product names.</li> <li>2. Components.</li> <li>3. Chemical Abstract Service (CAS) numbers.</li> <li>4. Locations where stored or used.</li> <li>5. Container sizes.</li> <li>6. Hazard classifications.</li> <li>7. Amounts in storage.</li> <li>8. Amounts in use-closed systems.</li> <li>9. Amounts in use-open systems.</li> </ol>	
5003.1.1 5003.1.3	Reduce your inventory of stored or "in use" HM, below the allowable <b>Maximum Allowable Quantity</b> per control area as required.	
5003.2.3 5003.2.6	Repair, replace or remove <b>Defective Equipment</b> , machinery and/or required detection and alarm systems associated with the use, storage or handling of HM. Ensure that the products are listed by an approved listing laboratory.	
5003.2.6.1	Properly safeguard or remove stationary <b>HM tanks</b> not used for a period of <b>90 days</b> . Have the fill line, gauge opening and pump connection secured against tampering and the vent lines shall be properly maintained.	
5003.2.7	Install, replace or repair a <b>Liquid-level Limit Control System</b> including a sight gage or measuring instrument in atmospheric tanks having a capacity <b>Exceeding 500 Gallons</b> of a HM to prevent overfilling of the tank.	
5003.2.9.1 5003.2.9.2	Have all HM <b>Equipment, Devices and Systems</b> requiring <b>Periodic Testing</b> , tested by an approved testing authority, to the manufacturer's requirements and to the manufacturer's testing frequencies. Testing shall be at conducted at least annually at a minimum. Keep records of service and testing on site.	
5003.3 5003.3.1.2 5003.3.1.4	Clean up, or cause to be cleaned up, leaked or <b>Spilled HM</b> and make provisions for controlling and mitigating unauthorized <b>discharges</b> to reduce and control future leaks and spills using containment pallets or other approved methods.	
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.	
5003.5 5003.5.1 5003.6	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 LHCDF.	
5003.7.1	Refrain from <b>Smoking</b> , or allow smoking, in areas where HM is stored or used. Affix approved <b>"NO SMOKING"</b> signs at <u>all entrances</u> to the hazardous facility or area. Minimum <b>2" red lettering</b> on a white background. Affix <b>Approved Signs</b> designating that smoking is permitted within approved smoking areas.	

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5003.7.2	Refrain from using <b>Open Flames, Hot Work Operations, or High-temperature Devices</b> in the immediate areas where HM are stored or used. Minimum separation distance is <b>20 feet</b> .	
5003.8.3 5003.8.3.3	Make necessary repairs to ensure that each <b>HM Control Area</b> has at least a <b>1-hour fire-resistance rating</b> , with walls and ceiling, in each approved room, to a maximum of 4 control areas on the ground floor.	
5003.8.4.1 5003.8.4.2	Bring your <b>Gas Room</b> into compliance with the International Fire, Building and Mechanical Codes. Obtain necessary permits through the LHCBD & LHCFD. Approved gas rooms must be protected with an automatic sprinkler system and properly constructed and ventilated where compressed gases are stored or used.	
5003.8.6	Install, repair or replace <b>Gas Cabinets</b> in accordance with §5003.8.6.1 through §5003.8.6.3.	
5003.9.2	Provide or increase approved <b>gas security</b> for the safe storage, handling, or care of HM to prevent unauthorized entry.	
5003.9.3	Install approved protective <b>Guard Posts (Bollards)</b> to protect your HM storage tanks, piping, valves and fittings from vehicle impact and per <b>LHCFD Spec # 15 Vehicle Crash Protection</b> .	
5003.9.4	Repair or replace damaged or unapproved <b>Electrical Wiring</b> to HM related equipment, devices or systems.	
5003.9.5	Provide a means to prevent the accumulation of static charges by use of an appropriate <b>Bond, Ground</b> or other approved means.	
5003.9.8	Separate <b>Incompatible HM</b> in storage or use areas, where containers having a capacity of more than 5 pounds or 0.5 gallon are present, by a distance of at least <b>20 feet</b> . Or provide an approved <b>18" high</b> noncombustible partition. Or store HM in approved hazardous material storage cabinets.	
5003.9.9	Provide storage of individual HM containers on <b>Shelves with a Lip</b> or guard to prevent vibration from dislodging items. Ensure that shelving is of substantial construction and adequately braced and anchored.	
5003.10.1	Replace the missing <b>Protective Caps</b> atop all <b>Compressed Gas Cylinders</b> and keep them on when not in use.	
5003.11.3.2	Reduce HM storage and <b>Display Heights</b> below <b>6 feet</b> above floor level in the <b>Display Areas</b> of the store and below <b>8 feet</b> in the <b>Storage Areas</b> in the stockroom as required for <b>Group M occupancies</b> .	
5003.11.3.3	Store individual HM <b>containers</b> containing less than <b>5 gallons</b> , or <b>25 pounds</b> , on <b>Pallets, Racks or Shelves</b> .	
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.	
5003.11.3.6	Remove individual <b>HM containers</b> exceeding <b>100 pounds</b> for solids / <b>10 gallons</b> for liquids from <b>Storage and Display areas</b> .	
5003.11.3.9	Remove HM storage from <b>Aisles</b> and maintain a minimum <b>4 feet Aisle Width</b> on at least three <b>(3) Sides</b> of the storage or display area.	
5003.12	Remove <b>Weeds, Debris and Common Combustible Materials</b> not necessary to the storage in the areas surrounding a HM outdoor control area and keep clear a minimum of <b>15 Feet</b> . Maintain at least <b>20 Feet</b> from a <b>Lot Line</b> that can be built upon, public street, public alley or public way unless permitted.	
5004.2.3	<b>Containment pallets.</b> When used as an alternative to spill control and secondary containment for outdoor storage in accordance with the exception in §5004.2, <b>containment pallets</b> shall comply with all of the following: <ol style="list-style-type: none"> <li>1. A liquid-tight sump accessible for visual inspection shall be provided.</li> <li>2. The sump shall be designed to contain not less than <b>66 gallons</b>.</li> <li>3. Exposed surfaces shall be <b>compatible</b> with material stored.</li> <li>4. Containment pallets shall be protected to prevent collection of <b>rainwater</b> within the sump.</li> </ol> Provide approved FL/CL <b>Containment Pallets</b> for individual vessels having a capacity of <b>&gt;55 gallons</b> or an <b>Aggregate Capacity</b> of multiple vessels <b>&gt;1,000 Gallons</b> . Pallets must be liquid-tight, hold at least 66 gallons, compatible with the material and protected to prevent sprinkler or rainwater within the pallet.	