

High Piled Storage Questionnaire

Business Name: _____ Date: _____

Business Address: _____

Contractor: _____ Phone: _____

Contractor Contact: _____ Email: _____

License Number: _____ Fax: _____

1. Description of Storage:

2. Commodity Classification: (If commodity is Plastic or other Hazardous Material, also fill out attachment A)

- | | | | | |
|--|--|---|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> Class I | <input type="checkbox"/> Class II | <input type="checkbox"/> Class III | <input type="checkbox"/> Class IV | <input type="checkbox"/> Plastics |
| <input type="checkbox"/> MSDS Provided | <input type="checkbox"/> Engineering Specifications Provided | <input type="checkbox"/> Hazardous Materials Stored | | |

3. Method of Storage: (Check all that apply)

- | | | | |
|--|--|--|---------------------------------------|
| <input type="checkbox"/> Solid Piles | <input type="checkbox"/> Racks (Solid Shelves) | <input type="checkbox"/> Racks (Non-Solid Shelves) | <input type="checkbox"/> Bin Box |
| <input type="checkbox"/> Shelf Storage | <input type="checkbox"/> Wood Pallets | <input type="checkbox"/> Plastic Pallets | <input type="checkbox"/> Encapsulated |

4. Pile Storage: Height: _____ ft. _____ in. Pile Dimension: _____ ft. x _____ ft. Aisle Width: _____ ft. _____ in.

 Pile Stability: Stable Unstable Storage Array: Closed Open

5. Rack Storage: Single Row Double Row Multiple Row Moveable

Rack Height: _____ ft. _____ in. Shelf Dimensions: _____ ft. x _____ ft. Aisle Width: _____ ft. _____ in.

 Proposed Storage Height: _____ ft. _____ in. Number of Storage Tiers: _____ Lined Up: Y N

Width of Longitudinal Flue Space: _____ in. Distance between Transverse Flues: _____ ft. _____ in.

6. In-Rack Sprinklers: If Necessary Under no Circumstances Not Required

Additional Information: _____

7. Area of Storage: _____ sq.ft.
8. Building Height: To Underside of Deck _____ ft. _____ in. To Underside of Structure _____ ft. _____ in.
9. Building Vitals: New Building: Y N Building Occupancies: _____
10. Smoke and Heat Venting Provided or Proposed: Y N Ratio: _____ : _____
11. Draft Curtains Provided or Proposed: Y N
12. Small Hose Stations or Standpipe Required by Fire Department or AHJ: Y N

 Size of Hose Valves Required: _____ Hose Rack and Nozzle Required: Y N

13. Indicate if any of the following processes or equipment is intended to be used inside or adjacent to building:

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Printing/Screening | <input type="checkbox"/> Dust Producing | <input type="checkbox"/> Dip Tanks | <input type="checkbox"/> Auto Repair |
| <input type="checkbox"/> Combustible Metals | <input type="checkbox"/> Metal Plating | <input type="checkbox"/> Welding/Cutting | <input type="checkbox"/> Semiconductor |
| <input type="checkbox"/> Chemical Storage | <input type="checkbox"/> Spray Painting | <input type="checkbox"/> Oven/Kilns | <input type="checkbox"/> Other |

If other, please specify: _____

Attachment A

Plastics:

1. Group of Plastics Stored: Group A Group B Group C
2. Type of Plastic Commodity: Nonexpanded Expanded Free Flowing Class IV
3. Packaging of Plastic Commodity: Cartoned (Cardboard or Sim.) Exposed
4. Pile Stability if Solid: Stable Unstable Unknown
5. Percentage of Plastics Included in Storage Area: _____ %

Other Hazardous Materials:

1. Combustible Metals: (list) _____

2. Flammable/Combustible Liquids: (list) _____

- | | | | |
|----------------------------------|---|-------------------------------------|---|
| Flammable Liquids Incl.: | <input type="checkbox"/> Class IA | <input type="checkbox"/> Class IB | <input type="checkbox"/> Class IC |
| Combustible Liquids Incl.: | <input type="checkbox"/> Class II | <input type="checkbox"/> Class IIIA | <input type="checkbox"/> Class IIIB |
| 3. Aerosol Products Incl.: | <input type="checkbox"/> Level 1 | <input type="checkbox"/> Level 2 | <input type="checkbox"/> Level 3 |
| 4. Cellulose Nitrate Film Incl.: | <input type="checkbox"/> Y <input type="checkbox"/> N | Stored in Vault/Cabinet: | <input type="checkbox"/> Y <input type="checkbox"/> N |
| 5. Pyroxylin Plastic Incl.: | <input type="checkbox"/> Y <input type="checkbox"/> N | Stored in Vault/Cabinet: | <input type="checkbox"/> Y <input type="checkbox"/> N |
| 6. Compressed Gas Incl.: | <input type="checkbox"/> Y <input type="checkbox"/> N | Securely Staged: | <input type="checkbox"/> Y <input type="checkbox"/> N |
| 7. Rubber Tires Incl.: | <input type="checkbox"/> Y <input type="checkbox"/> N | Arrangement: _____ | Proposed Height: _____ft. _____in. |

Definitions

Expanded Plastic – Plastics whose density is reduced by the presence of numerous small cavities (cells), interconnecting or not, dispersed throughout the mass. An example would be foam or packing peanuts.

Free Flowing Plastic – Plastics that fall out of their containers during a fire, fill flue spaces, and create a smothering effect on the fire. Examples include powder, pellets, flakes, or random-packed small objects.

Closed and Open Array – A closed array is an arrangement where air movement through the pile is restricted because of 6 in. or less vertical flues. Open arrays have enhanced air movement because vertical flues are greater than 6 in. More air flow is typically less desirable in piled storage.

Stable and Unstable Piles – Stable piles are those arrays where collapse, spillage of content, or leaning of stacks across flue spaces is not likely to occur soon after fire starting. Unstable piles collapse, spill contents, or lean across flue spaces soon after fire development.

Longitudinal Flue Space – The space between rows of storage perpendicular to the direction of loading.

Transverse Flue Space – The space between rows of storage parallel to the direction of loading.

Encapsulation – Packaging consisting of shrink-wrapping the sides and top of a pallet containing a combustible commodity or group of commodities.