



CLARK COUNTY FIRE DEPARTMENT  
Fire Prevention Bureau  
575 E. Flamingo Road, Las Vegas, NV 89119  
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**Permit Type: 105.6.22**  
**Control Number: A.0**  
**Effective Date: October 3, 2011**

**TITLE: HIGH PILED COMBUSTIBLE STORAGE**

**SCOPE:** Clark County Fire Department requirements for the submittal and approval of High Piled Storage.

Other operational uses that support the high-piled storage, such as fire sprinklers, fire alarms, fire access, fire hydrants, flammable/combustible liquids, hazardous materials, or any other associated activity subject to a Clark County Fire Department permit, shall have separate permits prior to commencing those other activities.

**PURPOSE:** To standardize plan/permit requirements of the Fire Department in accordance with the Clark County Fire Code and amendments. High Piled Storage permits are limited to a duration of one year and shall be renewed annually.

**DEFINITIONS:**

**Assessor's Parcel Number (APN):** A unique number assigned to each property by the Clark County Assessor's office.

**Commodity** – A combination of products, packing materials, and containers

**Encapsulated** – Where plastic completely encloses the sides and top of a pallet load

**Longitudinal flue spaces** – the space between rows perpendicular to the direction of loading

**Transverse flue spaces** – the space between rows of storage parallel to the direction of loading

**PERMIT FEES:**

Permit fees shall be assessed in accordance with the Permit Fee Schedule as adopted in the Clark County Fire Code. For applications that are expedited, additional fees shall apply.

**ANNUAL RENEWABLE PERMIT PROCEDURE:**

After approval of your initial permit(s), your permit(s) will automatically set-up a renewal reminder. Approximately 30-60 days prior to the expiration of your permit, a renewal notice will be mailed to you with instructions for the annual permit renewal.

If you do not receive this notice, it is your responsibility to submit the renewal application. Please refer to the website for additional information.

### **SPECIFICATIONS AND SUBMITTAL REQUIREMENTS:**

A minimum of 3 sets of plans must be submitted for review. A copy of the approved plans must be kept at the premises in an approved location. All submittals must be legible and readable or the plan shall be issued a correction letter for cause.

Plans shall address the following:

1. Site plan and address of building, including street names, assessor's parcel number (APN), fire access lanes and fire hydrant locations.
2. Floor plan of the building showing locations and dimensions of high-piled storage areas.
3. Useable storage height for each storage area
4. Number of tiers within each rack, if applicable.
5. Commodity clearance between top of storage and the sprinkler deflector for each storage arrangement.
6. Aisle dimensions between storage arrays.
7. If storage occurs on racks, provide a copy of the permit from the Department of Development Services for racks.
8. Maximum pile volume for each storage array.
9. Location and classification of commodities in accordance with Section 2303 of the Clark County Fire Code.
10. Location of commodities which are banded or encapsulated.
11. Location of required fire department access doors.
12. Type of fire suppression and fire detection systems.
  - a. For density/area fire sprinklers protecting the high-piled storage area, indicate the sprinkler identification number (SIN), the sprinkler k factor, square footage of the remote area, and the system design density. If the SIN is not available, a copy of the manufacturer specification sheet for the sprinkler head is required.
  - b. For specific application sprinklers, such as large-drop and ESFR sprinklers, protecting the high-piled storage area, indicate the sprinkler identification number (SIN), the sprinkler k factor, the number of sprinkler heads in the remote area, and the minimum residual pressure provided at the most hydraulically demanding sprinkler head. If the SIN is not available, a copy of the manufacturer specification sheet for the sprinkler head is required.
13. Location of valves controlling the water supply of ceiling and in-rack sprinklers.
14. Type, location, and specifications of smoke removal and curtain board systems. This information shall include temperature rating of fusible links that are installed in smoke/heat vents. Also this information shall include whether the smoke removal system is automatic or manual.
15. Dimension and location of transverse and longitudinal flue spaces.

16. Additional information regarding design features, commodities, storage arrangement and fire protection features within the high-piled storage area shall be provided at the time of permit, when required by the *fire code official*.
17. Type of shelving material used, whether it is solid, slatted, or wire mesh.
18. Verification of sufficient fire flow provided for the building

NOTE: DUE TO THE COMPLEXITY OF THESE REQUIREMENTS, IT IS RECOMMENDED THAT THE APPLICANT RETAIN A FIRE PROTECTION CONSULTANT PRIOR TO SUBMITTAL

### **PLANS CHECK STATUS INSTRUCTIONS:**

The status of the review can be checked by logging on to:

[www.clarkcountynv.gov/depts/fire](http://www.clarkcountynv.gov/depts/fire)

### **INSPECTIONS THAT MAY BE REQUIRED AND SCHEDULING INSTRUCTIONS:**

If approved, an inspection will need to be scheduled. To schedule an inspection, go to: [www.clarkcountynv.gov/depts/fire](http://www.clarkcountynv.gov/depts/fire). A fire inspector will review your site in accordance with the approved plans and this guideline and, if compliant, will issue the permit.

Any required inspections for the Department of Development Services will need to be scheduled with that department. Any racks required for the storage arrangement shall be field-approved by Development Services prior to scheduling an inspection with Clark County Fire Department.

The Clark County Fire Department's Fire Prevention Bureau (FPB) may witness and accept inspection, testing and maintenance of fire and life safety systems conducted by approved individuals as required by and within the scope and authority of the Clark County Fire Code.

This Guideline does not take the place of the Fire Code and does not take precedence over any Fire Code requirement or position taken by the Fire Chief. When a conflict exists between the requirements of this Guideline and the Fire Code or the opinion of the Fire Chief, the Fire Code or opinion of the Fire Chief prevails.

Technical Assistance, when required by the Fire Chief, will require a Technical Opinion and Report prepared by a State of Nevada licensed: qualified engineer, specialist, laboratory, or fire safety specialty organization acceptable to the Fire Chief and the owner. The Fire Chief is authorized to require design submittals to bear the Wet Stamp and Signature of a professional engineer.

Acceptance of Alternative Materials and Methods requires a Technical Opinion and Report prepared by a State of Nevada licensed: qualified engineer, specialist, laboratory, or fire safety specialty organization acceptable to the Fire Chief and the owner. The Fire Chief is authorized to require design submittals to bear the Wet Stamp and Signature of a professional engineer.