INSTALLATION, MAINTENANCE, AND TESTING REGULATIONS

Fire Suppression Systems
Application Packet

Lake Villa Fire Prevention Bureau
P.O. Box 269
910 East Grand Ave. Lake Villa, IL 60046
Phone: (224)444-8222  Fax: (847)356-7530
**General Information:**

The Lake Villa Fire Protection District is the authority having jurisdiction for the plan review and acceptance testing of Fire Protection Systems. This includes new systems and/or modifications/alterations to existing systems. Fire protection systems include, but are not limited to sprinkler systems, dry pipe systems, standpipe systems, ansul systems and FM 200 systems etc. All required fire protection system installations must be approved and accepted by the Lake Villa Fire Prevention Bureau before an occupancy permit will be issued.

**Codes**

The following Codes have been adopted by the Lake Villa Fire Protection District.

- 2012 International Building Code (With Village Amendments)
- 2012 International Fire Code (With Fire District Amendments)
- Current Publication of NFPA standards not already mentioned.
Plan Review Information

Plans for each fire protection system must be submitted to the Lake Villa Fire Prevention Bureau, 910 East Grand Ave, P.O. Box 269 Lake Villa, IL 60046, for review. Plans are generally reviewed and written comments provided within 10 business days. After the review is completed, the applicant will be furnished with at least one (1) set of stamped drawings, which are required to be on-site and available for the Fire Department inspector.

The plan submittal shall include:

1. A minimum of two (2) sets of plans for each fire protection system.
2. The intended use of the building including materials within the building and the maximum height of any storage.
3. Identify room use and show dimensions, details of ceiling, etc.
4. Fire protection system calculations.
5. Manufacturers specification sheets on all equipment.
6. Plan Review Submittal Form.

- The plan review fee must accompany the submitted plans. The plan review fee is minimum $300.00 and includes review and initial inspection. Greater than 100 head, additional $1.25 each sprinkler head.
- Additional $110.00 for each system retest for any reason.
- When a fire protection system is being modified and such modification involves twenty (20) heads/nozzles or less, the plan review fee also includes one (1) inspection.
- Fire protection systems must be designed and installed and function in accordance with locally adopted codes and locally adopted amendments to the codes. This information, and other general information regarding Fire Protection Systems and Fire Alarm Systems is available from the Lake Villa Fire Protection District. To obtain this information, call (224) 444-8222.
Requirements

Warehouse and Storage Buildings

Unknown specification use and occupancy for new warehouse building (use Groups S or F) with a ceiling roof height of 25 feet or greater to be protected with ESFR (Early Suppression Fast Response) fire sprinkler system or hydraulically calculated system for Class IV commodities with rack storage calculated to the greatest storage height. All sprinkler systems shall be electronically supervised by a fire alarm system.

Bulk Storage of Tires:

Buildings and structures where the area for the storage of tires exceeds 5,000 square feet shall be equipped throughout with an automatic sprinkler system.

Sprinkler riser and/or fire pump room access door

Provide an outside access door to the sprinkler riser room and/or fire pump room. The door shall be labeled with minimum 4-inch letters.

All doors which lead to fire pumps and sprinkler riser rooms shall be labeled with minimum 4-inch lettering “SPRINKLER ROOM”.

Strobe Light

A strobe light shall be installed on the exterior of all occupancies protected by a fire sprinkler system. The strobe light shall be located directly over the fire department connection and next to the 10-inch exterior bell or in a location approved by the Code Official.

Refer to Lake Villa Fire Prevention Code for Additional Requirements
Inspection Information

Fire Protection systems must be inspected at certain intervals according to the following schedule:

Fire Sprinkler Systems:
- Witness underground pipe flush test.
- Rough inspection of piping if required.
- Hydrostatic test (includes the Fire Department Connection)
- Air Test (where required) in addition to Hydro Test.
- Flow test/Trip test
- Final acceptance/performance test

Ansul Systems:
- Trip/Dump test (Includes verification of fire panel zoning)
- Final acceptance/performance test

Other Systems: Information is provided on the plan review comment sheet/form, included with your permit.
- Inspections may be scheduled by calling 224/444-8222 - 48 hours in advance. All appropriate installers must be present for system inspecting and testing.
  If an inspection/test fails, the Fire Department will attempt to accommodate the fire protection system installer’s request by scheduling a re-test the next business day. Any re-inspection/re-test will result in a $110.00 fee.
- All Fire Alarm and Supervisory devices shall be installed and connected at the time of final acceptance testing.

Annual Fire Alarm Testing

All fire alarm systems, fire suppression systems, cooking suppression systems, and any other fire safety system required to be tested, serviced, or inspected according to NFPA 25 shall be tested and cleaned at least annually, 6 months minimum for cooking suppression systems, and the results shall be sent to us through our third party administrator, Brycer LLC, at www.thecomplianceengine.com.
# PLAN REVIEW SUBMITTAL FORM

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<th>New</th>
<th>Re-Submital</th>
<th>As-Built</th>
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## Project Information

- **Text:**
- **Address:**
- **City, State & Zip:**
- **Contractor:**

## Plan Review Type (Check Appropriate Use and Plan Submittal)

- Residential
- Commercial
- Industrial
- Special Event/Temporary
- Life Safety Review
- Fire Alarm System
- Sprinkler System
- Standpipe Connection
- Fire Pump
- Kitchen Hood & Duct Suppression System
- Clean Agent Suppression System
- Fuel Storage Tank
- Below Ground
- Above Ground
- Other:

## Contact Information

- **Contact Person:**
- **Mailing Address:**
- **City, State & Zip:**
- **Phone:**
- **Fax:**
- **Email:**

## Office Use Only

- **Fee:**
- **Reviewed by:**
- **Review Date:**
- **Approved** | **Denied**
- **Permit Number:**
- **Plana Stamped:** Yes | No
- **Letter Attached:** Yes | No
- **Permit Included:** Yes | No
- **Returned by Mail** | **Called for Pick-Up**
- **Picked-Up:**
  - **By:**
  - **Date:**
- **Notes:**

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