



Fire Prevention and Building Safety

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Gregg A. Cleveland, Fire Chief



HOW TO APPLY FOR THE INSTALLATION/REPLACEMENT OF A CLEAN AGENT FIRE EXTINGUISHING SYSTEM

STEP 1: Plans conditionally approved by the State of Wisconsin or a fire alarm plan reviewer approved by the City of La Crosse Fire Department are accepted. The La Crosse Fire Department will conditionally approve plans on the local level except those requiring State approval. The La Crosse Fire Department has the right not to approve plans at the local level.

All plans must include:

- Scope of work.
- All property information (ie. Business Name, Address, Installer Contact and Phone Number).
- Graphical Information (ie. Scale, Points of Compass, Location within Building).
- Floor Plan.
- All initiating and annunciating devices, CP and their respective location(s).
- All standards that the system was designed to.
- Manufacture Installation Certification per NFPA 2001.
- Make and Model of control panel installed.
- Make and model of detectors installed.

In addition to the requirements listed above, the following items that pertain to the design of the system per NFPA 2001 shall be indicated on the plans and or other system documentation specifications sheet.

- Location and construction of protected enclosure walls and partitions.
- Enclosure cross section, full height or schematic diagram, including location and construction of building floor/ceiling assemblies above and below, raised access floor and suspended ceiling.
- Agent being used.
- Design extinguishing or inserting concentration.
- Description of exposures surrounding the enclosure.
- Description of the agent storage containers used including internal volume, storage pressure, and nominal capacity expressed in units of agent mass or volume at standard conditions of temperature and pressure.
- Description of nozzle(s) used including size, orifice port configuration, and equivalent orifice area.

- Description of pipe and fittings used including material specifications, grade, and pressure rating.
- Description of the method of detector mounting.
- Equipment schedule or bill of materials for each piece of equipment or device showing device name, manufacturer, model or part number, quantity, and description.
- Plan review of protected area showing enclosure partitions (full and partial height); agent distribution system including agent storage containers, piping, and nozzles; type of pipe hangers and rigid pipe supports; detection, alarm, and control system including all devices and schematic of wiring interconnection between them; end-of-line device locations; location of controlled devices such as dampers and shutters; and location of instructional signage.
- Scale drawing showing the layout of the annunciator panel graphics.
- Complete step-by-step description of the system sequences of operations, including functioning of abort and maintenance switches, delay timers, and emergency power shutdown.
- Point-to-point wiring schematic diagrams showing all circuit connections to the system control panel and graphic annunciator panel.
- Complete calculations to determine enclosure volume, quantity of clean agent, and size of indicating devices, and number and location of detectors.
- System Monitoring.

The detail on the system shall include information and calculations on the amount of agent; container storage pressure; internal volume of the container; the location, type, and flow rate of each nozzle including equivalent orifice area; the location, size, and equivalent lengths of pipe, fittings, and hose; and the location and size of the storage facility. Pipe size reduction and orientation of tees shall be clearly indicated. Information shall be submitted pertaining to the location and function of the detection devices, operating devices, auxiliary equipment, and electrical circuitry, if used. Apparatus and devices used shall be identified. Any special features shall be adequately explained.

STEP 2: Complete the required application.

STEP 3: Permit /Acceptance Test Fee: \$200.00

STEP 4: Send or drop off the completed application, two sets of plans, one set of electronic plans (PDF) format and Permit/Acceptance Test Fee of \$200.00 to:

Fire Prevention Bureau
La Crosse Fire Department
726 5th Avenue South
La Crosse, Wisconsin 54601

STEP 5: Installation of clean agent systems may begin after issuance of permit. Verbal notification for starting installation by the Fire Prevention Bureau may be granted before the permit is processed. Installation of clean agent systems prior to issuance of a permit or verbal authorization will result in **Double Fees**. Work shall be completed by certified personnel.

STEP 6: The installer of the clean agent system shall provide a minimum of two business days' notice to the Fire Prevention Bureau prior to the performance of any inspection or test to the system.

STEP 7: The Fire Prevention Bureau will conduct an acceptance test of the system according to NFPA 2001 standards.

Responsibilities of Clean Agent Extinguishing System Owners after system acceptance:

Portions of buildings containing Clean Agent Extinguishing Systems whether required by this code or not, shall be maintained in good working order and tested by a qualified company as required by NFPA 2001. Records of this testing shall be located by the system control panel and be made available to the Fire Department upon request. The occupant or owner of a building shall notify the Fire Chief or Fire Department immediately when the building's Clean Agent Extinguishing System is rendered out of service for any reason.

NOTE

The installer of the Clean Agent Extinguishing System shall provide a minimum of two business days' notice to the Fire Prevention Bureau prior to the performance of any inspection or test to the system. System monitoring shall be live at final inspection. If a re-inspection is required the Installer shall pay a fee of \$75.00, payable to the La Crosse Fire Department prior to the next inspection.

**Permit Application for Installation/Replacement for
Clean Agent Extinguishing Systems**

Contractor:

Name: _____

Address: _____

City: _____

State: _____ **Zip Code:** _____

Phone: _____

Site Information:

Occupant: _____

Address: _____

PERMIT/ACCEPTANCE FEE: \$200.00 each system

NOTE

The installer of the Clean Agent Extinguishing System shall provide a minimum of two business days' notice to the Fire Prevention Bureau prior to the performance of any inspection or test to the system. System monitoring shall be live at final inspection. If a re-inspection is required the Installer shall pay a fee of \$75.00, payable to the La Crosse Fire Department prior to the next inspection.

Return this form with the appropriate fee and plans to the Fire Prevention Bureau, La Crosse Fire Department, 726 5th Avenue South, La Crosse, Wisconsin 54601.