



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 West Bend Fire Department are accepted. The West Bend Fire Department will conditionally approve plans on the local level except those requiring state approval. The West Bend Fire Department has the right in certain circumstances, 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, Matchlines if applicable).
- 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 inerting 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.

General Info 262.335.5054
Fire Chief 262.335.5052 Bn. Chief 262.335.5053
Fire Inspector 262.335.5055 Fax 262.335.5148
325 N. 8th Avenue, West Bend, WI 53095



FIRE DEPARTMENT

- 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 view 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 if required by the authority having jurisdiction.
- Complete step-by-step description of the system sequence 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 backup batteries and method used to determine number and location of audible and visual 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.

General Info 262.335.5054
Fire Chief 262.335.5052 Bn. Chief 262.335.5053
Fire Inspector 262.335.5055 Fax 262.335.5148
325 N. 8th Avenue, West Bend, WI 53095



STEP 3. Permit Fee: \$100.00

STEP 4. Send or drop off the completed application and 4 sets of plans and permit Fee to:

Fire Prevention Bureau
West Bend Fire Department
325 N. 8th Avenue
West Bend, WI 53095

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 2 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.

General Info 262.335.5054
Fire Chief 262.335.5052 Bn. Chief 262.335.5053
Fire Inspector 262.335.5055 Fax 262.335.5148
325 N. 8th Avenue, West Bend, WI 53095



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

Contractor:

Name _____

Address _____

City _____

State _____ Zip _____

Phone Number _____ Installer Certification Level _____

Site Information:

Occupant _____

Address _____

Permit Fee: \$100.00 each system

NOTE

The installer of the Clean Agent Extinguishing System shall provide a minimum of 2 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.

Return this form with the appropriate fee and plans to the Fire Prevention Bureau, West Bend
Fire Department, 325 N. 8th Avenue, West Bend, WI 53095

**General Info 262.335.5054
Fire Chief 262.335.5052 Bn. Chief 262.335.5053
Fire Inspector 262.335.5055 Fax 262.335.5148
325 N. 8th Avenue, West Bend, WI 53095**