

Contractors Permit Submission Requirement Checklist

Clean Agent Systems

1. Location including street address and occupant business name.
2. Written narrative providing intent and system description. Verifying equipment is listed for intended use and providing specification listing sheets.
3. Provide type of agent to be installed and design manual for pre-engineered systems.

Floor Plan

1. A graphic representation of the scale used.
2. Room description and dimensions.
3. An equipment symbol legend.
4. Sectional view of the room with floor and ceiling assemblies and isometric view of the system.
5. Floor plan and isometric detail of the agent distribution system including calculation reference points, pipe diameter and length, device and nozzle location and position, detail of method used to secure the agent container and pipe system to the structure.
6. Method for appliance installation including the selected wiring and conductors for these devices.
7. Location of the system control panel (constantly attended) and the location of the FACP monitoring the system.
8. Sequence of operations (signal matrix).
9. Calculations for the clean agent serving the enclosed volume. Calculations for the back-up power and voltage drops. Engineer stamp required.

Analysis of Hazards to Personnel

1. Exposure limits.
2. Provide pre-discharge alarm for inert clean agents.

3. Provide plan for rescue of trapped personnel.

Electrical Components

1. Provide standby power source for the control unit.
2. Provide detail to indicate the main power supply is on a dedicated branch circuit and properly labeled.

Clean Agent Information

1. Type of system: flooding or local application
2. Type of hazard protected and quantity.
3. Type of agent: Halocarbon or Inert Gas
4. Design concentration.
5. Volume of area protected. Provide ventilation shut-down information.
6. Calculations should include: nozzle flow rate and orifice size, pipe diameter and length, gas temperature, reference points, gas quantity, and volume of protected area.
7. Provide discharge time.

Operating Devices, Control Devices and Alarms

1. Provide listing agency information and equipment data sheets.
2. Detail the location of the manual release device(s).
3. Provide detail of verbiage and location of warning and instruction signage at entrances and interior of protected areas.
4. Provide confirmation of audible alarms levels meeting NFPA 72 requirements.

5. Abort switches provided are required to be interior of the protected area near an exit and require constant pressure. Required to be connected to alarm signaling devices.
6. Provide information confirming protected area is properly sealed. Forced-air ventilation shut down should be included in this information.