

CLEAN AGENT SYSTEM CHECK LIST



BUILDING NAME: _____ LOCATION: _____

DESIGNER: _____ INSTALLER: _____

SCO REPRESENTATIVE: _____ DATE: _____

FIRE ALARM TECHNICIAN: _____ OWNER NAME: _____

INSTALLATION

- Are all openings sealed or equipped with automatic closures?
- Other than the ventilation systems identified in 5.3.5.2, forced air ventilation systems all mechanical units shall be shut down or closed automatically where their continued operation would adversely affect the performance of the fire extinguishing system.
- An approved job site copy of plans must be on the site at the time of the inspection in labeled PVC tube.
- Suitable safeguards shall be provided to ensure prompt evacuation of and prevent entry into hazardous atmosphere. i.e. Personnel training, warning signs, discharge alarms.
- Verify storage containers are located as indicated on shop drawings.
- Agent storage shall not be located where it can be rendered inoperable or unreliable due to mechanical damage, exposure to chemicals, harsh weather or any other foreseeable cause.
- If container is connected to a manifold, automatic means, such as a check valve shall be provided to prevent agent loss and to ensure personnel safety
- Each agent container shall have a permanent nameplate or other marking that indicates the following
 - For halocarbons: the agent, gross weights, and super pressurization level of the container.
 - For inert gases: the agent, pressurization level of the container, and nominal agent volume.
- Room pressurization test been performed "door fan test"? Typical minimum retention time is 8-10 minutes.
- O&M manuals been provided to owner
- Piping adequately supported
- Are containers in good physical condition? Are they securely held in position?
- Does breaker feeding control panel have lock on breaker attachment?
- Manual pull stations shall be properly installed, readily accessible, and shall require two separate and distinct actions for operation.
- Are axillary tanks if equipped labeled?

TESTING PROCEDURE

- If the system is connected to an alarm receiving office, notify the alarm receiving office that the fire system test is to be conducted and that an emergency response by the fire department or alarm station personnel is not desired.
- Disable each agent storage container release mechanism so that activation of the release circuit will not release agent. Reconnect the release circuit with a functional device in lieu of each agent storage container release mechanism. For electrically actuated release mechanisms, these devices can

include 24V lamps, flashbulbs, or circuit breakers. Pneumatically actuated released mechanisms can include pressure gauges.

FUNCTIONAL OPERATIONAL TESTS

- Operate detection initiating circuit(s). Verify that all alarm functions occur according to design specifications. Check to see if warning signs are properly displayed.
- Operate the necessary circuit to initiate a second alarm circuit, if present. Verify that all second alarm functions occur according to design specifications.
- Operate manual release.
- Operate abort switch, if supplied. Verify that abort functions occur according to design specification. Confirm that visual and audible supervisory signal are received at the control panel.
- Test all valves, unless testing the valve will release agent or damage the valve.
- Test time delay to check time limit and check that timer will complete its cycle even though wiring between it and the detector circuit is interrupted.
- Check for complete closer of dampers in time frame listed on drawings.
- Check doors; check for any doors blocked open.
- Verify equipment shutdown properly

REMOTE MONITORING OPERATIONS:

- Operate one of each type of input device while on standby power. Verify that an alarm signal is received at remote panel after device is operated. Reconnect primary power supply.
- Operate each type of alarm condition on each signal circuit and verify receipt of trouble condition at the remote station

CONTROL PANEL PRIMARY POWER SOURCE:

- Verify that the control panel is connected to a dedicated circuit and labeled properly. This panel shall be readily accessible, yet restricted from unauthorized personnel.
- Test a primary power failure in accordance with manufacturer's specification with the system fully operated on standby power.
- Exercise all functions.
- Check supervision if applicable of each circuit (including releasing devices).

EMERGENCY POWER:

- Check battery condition.
- Check charger operation.
- Check automatic changeover

NC Building Code, Chapter 35 Referenced Standards set the NFPA 72 version requirements

Projects permitted under NC Building Code 2009 - NFPA2001 2004

Projects permitted under NC Building Code 2012 - NFPA2001 2008

REFERENCE INFORMATION TO ASSIST SYSTEM INSPECTION

*Note: These items are not intended to meet all of the criteria for NFPA 2001 testing requirements.