



Electric Scientific Company Fire Protection Systems

Mandatory Personnel Safety and Reliability Upgrades For CO2 Extinguishing Systems per NFPA 12 2005 Edition

Through our membership in FSSA (Fire Suppression Systems Association) we have learned that because risks associated with CO2 in occupied or occupiable spaces code changes will impact how new systems are designed and installed, as well as requirements upgrade safety features on all existing systems.

Application/Systems affected are:

- Total Flood CO2 in normally occupied spaces
- Total Flood CO2 in occupied spaces
- Local Application Systems (where it is possible to enter)
- Any system where the discharge of CO2 agent will expose personnel to hazardous concentrations of CO2

New Systems:

- CO2 total flooding systems shall not be installed in normally occupied enclosures except where no equivalent level of fire protection is available with other types of clean agents
- If it is determined that CO2 is to be used, the designer/installer shall provide to the AHJ supporting documentation to verify that CO2 is the most appropriate agent for the application

New and Existing Systems:

- Safety Signs
- Lock-out Valves
- Pneumatic Time-Delays
- Pneumatic Discharge Alarms
- Olfactory Device (oil of wintergreen)

Existing Systems must be in compliance by December 31, 2008.

We wanted to be certain you had this information for your personnel and customers.

All the specifics can be found in the 2005 edition of NFPA 12.