



Property Risk Consulting Guidelines

A Publication of AXA XL Risk Consulting

PRC.13.0.4

SPECIAL EXTINGUISHING SYSTEMS PERIODIC INSPECTION AND TEST

INTRODUCTION

Many special extinguishing systems are never called upon to extinguish a fire during their lifetimes. However, when they are needed they must be ready to perform with utmost reliability. To ensure this periodic inspection and tests not otherwise covered in the NFPA Standards dealing with the design and acceptance testing of extinguishing systems.

POSITION

Inspect and test special extinguishing systems on weekly, monthly, and semiannual schedules.

Weekly Inspections

Check the following items weekly to ensure the system is in the normal operating mode:

- Control panel not in "alarm" or "trouble" status or in the "off" or "bypass" position.
- Cylinder gauges indicate proper pressure.
- Battery charging properly. (Check battery hydrometer readings monthly, if applicable)
- Pins on manual releases are in place and sealed.
- Electrical conduit and wiring, pneumatic tubing, if any, or other components not physically damaged or obstructed.
- Changes in the size or severity of the hazard have not occurred.
- Ventilation system it is operational and has not been altered.
- · Current system service tag is attached.
- Manual actuators and pull stations are unobstructed.

Monthly Inspections

Check the following items monthly to ensure the system is in the normal operating mode:

• Protective caps, if used, are not damaged and in-place.

Semiannual Tests

Unless a purchaser of the special extinguishing system has personnel trained by the equipment manufacturer to test, maintain and service the system, make arrangements with a competent contractor (preferably the installer) for this work. This contract should provide for semiannual testing, maintenance and emergency servicing of the equipment.

100 Constitution Plaza, Hartford, Connecticut 06103

Copyright® 2020, AXA XL Risk Consulting

Global Asset Protection Services, LLC, AXA Matrix Risk Consultants S.A. and their affiliates ("AXA XL Risk Consulting") provide loss prevention and risk assessment reports and other risk consulting services, as requested. In this respect, our property loss prevention publications, services, and surveys do not address life safety or third party liability issues. This document shall not be construed as indicating the existence or availability under any policy of coverage for any particular type of loss or damage. The provision of any service does not imply that every possible hazard has been identified at a facility or that no other hazards exist. AXA XL Risk Consulting does not assume, and shall have no liability for the control, correction, continuation or modification of any existing conditions or operations. We specifically disclaim any warranty or representation that compliance with any advice or recommendation in any document or other communication will make a facility or operation safe or healthful, or put it in compliance with any standard, code, law, rule or regulation. Save where expressly agreed in writing, AXA XL Risk Consulting and its related and affiliated companies disclaim all liability for loss or damage suffered by any party arising out of or in connection with our services, including indirect or consequential loss or damage, howsoever arising. Any party who chooses to rely in any way on the contents of this document does so at their own risk.

In addition to confirming the amount of agent, test all devices and interlocks. These include:

- Actuation devices.
- Local alarms (audible and visual).
- Alarms to fire department, central station, remote station, proprietary signaling service or local annunciation.
- Damper closure.
- Air conditioning power shutdown.
- Computer shutdown (without adversely affecting operations).
- Agent-actuated pressure switches.
- Detectors sensitivity and operation, including cross-zoning, or similar "AND-gate" function.
- Electric manual releases.
- Mechanical emergency manual releases.
- Automatic door closure.
- Emergency smoke and heat removal system.
- Aborts (if provided).
- Time delays.
- Supervision of all circuits.
- Pneumatic tubing (by manometer if not supervised).
- Normal and emergency manual releases.
- High pressure carbon dioxide cylinders and clean agent cylinders should be weighed. If more than a 5% loss of weight or pressure is noted, the cylinder should be refilled or replaced.
- The perimeter of the enclosure should be inspected for unsealed penetrations. If numerous penetrations are discovered, consideration should be given to conducting a discharge test or an enclosure integrity test following the sealing of the penetrations.

Confirm restoration of all equipment to normal at completion of testing. Maintain a complete written record of all testing, maintenance and servicing.