



Uintah Fire Suppression S. S. D.

152 East 100 North, Vernal, Utah 84078 435-781-6755 435-781-4962 FAX

WET CHEMICAL EXTINGUISHING SYSTEMS (NFPA 17A)

Name of Business _____
Address _____ Phone Number _____

- o **3.3.9.2 Owners Manual** - A pamphlet containing the manufacturer's recommendations for the proper inspection and operation of the extinguishing system.
- o **4.3.1.5** - All discharge nozzles shall be provided with caps or other suitable devices to prevent the entrance of grease vapors, moisture, or other foreign materials into the piping.
- o **4.4.3.1** - On activation of any cooking equipment fire extinguisher system, all sources of fuel and electric power that produce heat to all equipment protected by the system shall be shut down.
- o **4.8** - Wet chemical systems shall be provided with an audible or visual indicator to show that the system is in a ready condition or is in need of recharging.
- o **5.1.1** - Wet chemical fire extinguishing systems shall comply with standard UL300.
- o **5.2.1** - All systems shall have both automatic and manual methods of actuation.
- o **5.2.1.9** - The extinguishing system shall be connected to the fire alarm system. If provided, in accordance with the requirements of NFPA 72, so that the actuation of the extinguishing system will sound the fire alarm as well as provided the function of the extinguishing system.
- o **5.2.1.10** - A readily accessible means for manual activation shall be located in a path of egress. When manual activation is used for cooking related protection. The manual activation device shall be installed no more than 48 inches nor less than 42 inches above the floor and shall clearly identify the hazard protected.
- o **4.3.2** - Gas appliances not requiring protection but located under same ventilation equipment shall also be shut off.
- o **4.5.1** - Pipe and associated fittings shall be of non combustible material having physical & chemical characteristics compatible with the wet chemical solution.
- o **5.4.3** - Wet chemical containers and expellant gas assemblies shall not be located where they could be subjected to mechanical, chemical, or other damage.
- o **5.4.4** - Where damage due to chemical or mechanical exposure is expected. Protective devices such as enclosures or guards acceptable to the AHJ shall be provided.
- o **5.4.5** - Wet chemical containers and expellant gas assemblies shall be accessible for inspection, maintenance and recharge.
- o **5.4.6** - Wet chemical containers and expellant gas assemblies shall be located near the hazard or hazards protected but not where they will be exposed to the fire.

- **5.5.1** – All discharge nozzles shall be designed and subsequently located, installed, or protected so that they are not subject to mechanical, environmental, or other conditions that could render them inoperative.
- **5.6.1.5** - At least one fusible link or heat detector shall be installed within each exhaust duct opening in accordance with the manufacturers listing.
- **5.6.2.1.1** – A fusible link or heat detector shall be located at each branch due to common duct connection.
- **5.6.4** – Movable cooking equipment shall be provided with a means to ensure that it is correctly positioned in relation to the appliance discharge nozzle during cooking operations.
- **6.1** – Specifications for wet chemical fire extinguishing systems shall be drawn up with care under the supervision of a trained person and with the advice of the AHJ.
- **6.3.5** – Where plans are required they shall be submitted to the AHJ for approval before work starts.
- **6.4.4** - The owner shall be provided with a copy of the manufacturers listed installation and maintenance manual or listed owners manual.
- **7.1.1** – Recharging supplies of wet chemical shall be stored in the original closed shipping container supplies by the manufacturer.
- **7.1.3** – System access for inspection or maintenance that requires opening panels in the fire chases or ducts or both shall not be permitted while any appliance or equipment is protected by that system is in operation.
- **7.2.1 – Owners Inspection:** Inspection shall be conducted on a monthly basis in accordance with the manufacturers listed installation and maintenance manual or the owners manual.
- **7.2.2 – Inspections shall include verification of the following.**
 - ✓ The extinguishing system is in it's proper location.
 - ✓ The manual actuators are unobstructed.
 - ✓ The tamper indicators and scales are intact/
 - ✓ The maintenance tag or certification is in place.
 - ✓ No obvious physical damage or condition exists that might prevent operation.
 - ✓ The pressure gauge, if provided, is in operable range.
 - ✓ The nozzle blow off caps are intact and undamaged.
 - ✓ The hood, duct, and protected cooking appliances have not been replaced, modified, or relocated.
- **7.2.5** – At least monthly, the date the inspection is performed and the initials of the person performing the inspection shall be recorded.
- **7.2.6** – The records shall be retained for the period between the semiannual maintenance inspections.
- **7.3.1** – A trained person who has undergone the instructions necessary to perform the maintenance and recharge service reliably and has the applicable manufacturers listed installation and maintenance manual and service bulletins shall service the wet chemical fire extinguishing system 6 months apart as outlined in 7.3.2

- o **7.3.2** – At least semi-annually maintenance shall be conducted in accordance with the manufacturers listed installation and maintenance manual.
- o **7.3.2.1** – Maintenance shall include the following:
 - ✓ A check to see that the hazard has not changed
 - ✓ An examination of the detectors, the expellant gas container, the agent container, releasing devices, piping, hose assemblies, nozzles, signals, all auxiliary equipment, and the liquid level of all non pressured wet chemical containers.
 - ✓ Verification that the agent distribution piping is not obstructed.
- o **7.3.2.3** – All wet chemical systems shall be tested, which shall include the operation of the detection of the system signals and releasing devices, including manual stations and other associated equipment.
- o **7.3.2.6** – Each wet chemical system shall have a tag or label securely attached, indicating the month and year of the maintenance is performed and indentifying the person performing the service. Only the current tag or label shall remain in place.
- o **7.3.3** – Fixed temperature – sensing elements of the fusible metal alloy type shall be replaced at least annually from the date of installation. They shall be destroyed when removed.
- o **7.5.1** – The following parts of wet chemical extinguishing systems shall be subjected to a hydrostatic pressure test in intervals not exceeding 12 years.
 - ✓ Wet chemical containers.
 - ✓ Auxiliary pressure containers.
 - ✓ Hose assemblies.

Representative Signature: _____ Inspectors Signature: _____

Certificate of Fire Clearance: _____ Granted _____ Failed

Notes: _____
