

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Fire Detection Systems

FIRE ALARM SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of fire detection system equipment as specified in Addendum "C". The NFPA 72 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Semi-Annual

Scope:

Perform a thorough visual inspection, from floor level, of specified alarm indicating appliances, backup power supply batteries, control panel trouble signals, detection devices and manual fire pull stations.

Secondary power supply batteries shall be tested for voltage output, supervision, load capacity, and length of time in service.

Frequency: Annual

Scope:

Control panel(s) shall be functionally tested for proper operation, including trouble condition signaling, initiating and indicating circuit supervision, and remote signaling.

Manual fire pull stations shall be functionally tested for proper operation.

Audible and visual indicating devices shall be functionally tested.

Auxiliary contact operated devices shall be functionally tested.

Automatic shutdown devices shall be functionally tested.

Smoke detection devices shall be functionally tested with simulated smoke or other manufacturer recommended method.

Restorable type heat detectors shall be functionally tested.

NOTE: Testing smoke detectors for sensitivity is **NOT** included as part of this standard. This test and service function is to be performed upon new system installation and every two years thereafter. This service can be provided, on an as required basis, at additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

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Fire Protection Systems

FIRE DOORS

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These Standards of Performance provide minimum requirements relative to the inspection and testing of fixed fire protection devices as specified in Addendum “C”. The NFPA 80 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Fire doors will be visually inspected for physical damage or improper modification.

The closing/activation hardware will be visually inspected for obvious physical damage.

Fusible links/activation devices will be visually inspected for damage, loading and/or corrosion.

Fire doors that are released upon activation of an alarm on the fire panel shall be functionally tested for releasing action.

The closing hardware shall be visually inspected for obvious physical damage.

For fire doors released by fusible links, the specified links shall be inspected for obvious physical damage.

Fire doors shall be functionally tested (drop test) and checked for operation and full closure.

Resetting of the release mechanism shall be performed in accordance with the manufacturer’s instructions.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

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Fire Detection Systems

INCIPIENT FIRE DETECTION SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and testing of fire detection system equipment as specified in Addendum "C". The NFPA 72 Standard requires more frequent intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Quarterly

Scope:

A thorough visual inspection for any physical damage or obstructions shall be made of all portions of the system that are readily accessible.

The water bottle shall be refilled with distilled water.

Tubing shall be checked for proper connections, and to insure no kinks or obstructions are present.

The cloud chamber airflow, DC voltage levels, and cell voltage levels shall be checked in accordance with the manufacturer's specifications.

Sampling system airflow readings shall be checked to insure the default value is in accordance with manufacturer specifications.

Frequency: Semi-Annual

Scope:

One sampling head per zone shall be checked with a differential pressure gauge and recorded. An adjustment will be made if any tested sampling head is not within the manufacturer's recommended flow.

The sampling manifold shall then be checked with a differential pressure gauge and recorded. If the differential pressure is not within the manufacturer's recommended flow, the sampling head and manifold filters shall be replaced.

The alarm test feature shall be operated in the "go" and "no go" modes to insure proper operation of the relays.

Frequency: Annual

Scope:

Smoke particles shall be introduced to at least one head per zone. Resulting alarm activation will be documented on the test report.

50% of the sampling tubes shall have their head orifice cleaned and serviced according to the manufacturer's specifications.

A diagnostic test of the control panel shall be performed to insure proper operation.

The back-up battery power supply shall be tested.

The sample head filters shall be replaced.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

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OPTICAL FLAME DETECTION

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of fire detection system equipment as specified in Addendum "C". The NFPA 72 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Specified flame detectors and spark/ember detectors shall be tested in accordance with the manufacturer's instructions to determine that each detector is operative.

Specified flame detectors and spark/ember detectors shall be cleaned in accordance with the manufacturer's instructions.

The specified detectors local and supervisory alarm(s) shall be tested for proper operation.

Specified control panels shall be functionally tested for proper operation, including trouble condition signaling, initiating and indicating circuit supervision and remote signaling.

NOTE: Testing detectors for sensitivity is **NOT** included as part of this standard. This service can be provided, on an as needed basis, at additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

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SINGLE STATION SMOKE DETECTOR(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of fire detection system equipment as specified in Addendum "C". The NFPA 72 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Semi-Annual

Scope:

Single station smoke detectors shall be visually inspected to ensure that there have been no changes that would affect equipment performance, such as building modifications, occupancy hazards and environmental effects.

Frequency: Annual

Scope:

Specified smoke detectors shall be functionally tested in place to ensure smoke entry into the sensing chamber and an alarm response.

The control function of the detector shall be checked for proper operation (e.g., fire door release, elevator recalls, HVAC shutdowns, or other auxiliary function).

Smoke detectors shall be cleaned with pressurized air.

NOTE: Sensitivity testing of detectors is **NOT** included as a part of this standard. This service can be provided, on an as needed basis, at additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
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Combustible Gas Monitoring Systems

GENERAL MONITORS - COMBUSTIBLE GAS MONITORING SYSTEM

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These Standards of Performance provide the minimum requirements relative to the inspection, functional testing and field calibration of Combustible Gas Monitoring equipment manufactured by **General Monitors Inc.** This standard is specific for the **Model 480-Single Channel Combustible Gas Monitor** and should not be used with any other equipment. This SOP is written in accordance with the manufacturer information and technical data manual as it applies only to the specified gas monitor referenced in this document. Considering the potential hazard of an explosive level of a combustible gas, **General Monitors** strongly recommends the period between calibrations should never exceed 90 days. It will be the responsibility of the owner of the equipment to determine the need for a more frequent calibration schedule for their particular environment.

Frequency: Quarterly

Scope:

Make a thorough visual inspection of specified portions of the system, which are readily accessible, for any physical damage.

Make a thorough inspection of each sensor for visible physical damage, accidental painting, accumulation of mud or other foreign matter.

Sensors are designed with sintered metal or screen covers that act as flame arrestors. Each sensor will be inspected to ensure these are in place. Sensors are not to be operated without screen or sintered metal parts installed.

Sensors are designed to be installed pointing downward, this is to eliminate the accumulation of water in the sensor head. Inspect for the proper mounting of each specified sensor.

Verify that specified sensors are mounted in a location free from excessive vibration and or potential shock.

Ensure that the threads of the sensor housing lid are fully engaged. ***This lid must never be opened when power is on, otherwise the explosion proof integrity of the sensor assembly is violated.***

Sensors are mounted near the floor for gases heavier than air and near the ceiling for gases lighter than air. Inspect the location of the sensor to ensure they are properly located. Eagle assumes sensors installed by others are properly positioned for the hazard.

Inspect the location of the sensor to ensure that it is located in close proximity to the point where a leak of combustible gas is likely to occur. It will be the owner's responsibility to determine this point and inform the Eagle technician.

Are sensors located in an environmental unfriendly location exposing them to wind, dust, water, shock, or vibration? A standard sensor can be in a temperature environment ranging from -65°F to +200°F.

Each specified sensor will be inspected to determine its time in service. The typical life span in normal service is three years.

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GENERAL MONITORS - COMBUSTIBLE GAS MONITORING SYSTEM

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Sensor covers will be removed and cleaned of dust, dirt, water or other accumulations prior to calibration. **Note: If sensor covers are removed—re-calibration is required after the covers are re-installed.**

It will be the owner's responsibility to notify the Eagle technician of potential Catalytic "Poisons" as they will adversely affect the operation of the sensors. Examples are as follows: Halides (compounds containing chlorine, fluorine, bromine, or iodine), Sulfur compounds (SO_2 , H_2S , CS_2), tetra-ethyl lead, Silicones (contained in grease and aerosols), Acid Vapors and Caustic liquids or vapors.

Specified operating functions of the controllers shall be tested for proper operation, including ready indicator, Gas Alarm indicators, Malfunction indicator, Reset switch, "OPER-CAL" rocker switch, Low alarm, High alarm and set points.

The back-up battery power supply shall be tested, if provided.

The Eagle technicians will perform sensor calibration in accordance with the manufacturer's instruction manual.

Eagle technicians will use General Monitors Portable Calibration Chamber and Portable Purge Calibrator for field calibration in accordance with the manufacturer's instructions.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Life Safety Equipment

EMERGENCY LIGHTING / EXIT LIGHTS

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of emergency lighting equipment as specified in Addendum "C". The NFPA 101 Standard (Life Safety Code) and NFPA 70 (National Electrical Code) require more frequent inspections with their performance being the sole responsibility of the Subscriber.

Frequency: Monthly

Scope:

Visually inspect emergency lights to ensure that lamps, batteries and housings are in proper condition and free from excessive dirt accumulation and corrosion and that electrical connections are properly terminated and installed.

Functionally test emergency lighting system for ninety minutes, if all emergency lighting is not on a dedicated primary power circuit, the test button(s) will be utilized to perform the test. Equipment should be fully operational for the duration of the test.

NOTE: The following services are required by code but are **NOT** included in this inspection agreement:

Monthly testing shall be conducted via the "push-button" method for 30 seconds.

The batteries will be inspected for type and size to verify that they are approved for their intended use and comply with the National Electrical Code.

Visually inspect the light direction to verify that emergency lights are adjusted appropriately to illuminate an approximate means of egress.

Restore primary power to unit and return to normal operating condition.

Each unit will have an inspection sticker installed upon completion of tests.

NOTE: This is a functional test only and does NOT verify proper exit direction or installation.

NOTE: Additional test required beyond this Scope of Work can be provided for an additional cost. We will provide you with a written proposal upon your request for these services.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

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Life Safety Equipment

EMERGENCY SHOWER/EYE & FACE WASH EQUIPMENT

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of safety showers and eye wash station equipment as specified in Addendum "C". The ANSI Standard may require more frequent inspection and testing intervals, than those specified herein, with their performance being the sole responsibility of the Subscriber.

Frequency: Monthly

Scope:

A physical inspection shall be performed to determine proper installation, positioning and general condition of the equipment.

Measure the distance from the surface on which the user stands to the showerhead and verify that it is between 84" and 96".

Conduct a functional test by connecting a flow meter to the shower to be tested and attach the shower to a water supply with a minimum iron pipe size of one inch or an equal test.

Verify that the valve on the shower opens in one second and stays open.

Open the control valve on the water supply and adjust to deliver a minimum of 30 gallons per minute and inspect for substantial water dispersion throughout the pattern. The diameter of the water pattern is to be measured 60" above the user-standing surface and shall be a minimum of 20". Inspect and verify that the center of the spray is at least 16" from any obstructions.

Inspect the shower location and verify that the unit is properly identified with a highly visible sign and that the area around it is well lighted and highly visible.

Verify that the emergency shower is within 100' of the hazard and takes no longer than 10 seconds to reach.

Frequency: Quarterly

Scope:

Each unit will be visually inspected for proper condition and cleanliness.

Plumbed units will be operated to ensure available water supply.

A proper tag shall be affixed to each unit inspected, stating the date of inspection, the company and person making the inspection.

A written report will be provided, giving the complete results of the inspection for each unit.

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Life Safety Equipment

EMERGENCY SHOWER/EYE & FACE WASH EQUIPMENT

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Frequency: Annual

Scope:

A physical inspection shall be conducted to determine proper installation, positioning and general condition of equipment. The equipment shall be determined to be free of any sharp projections anywhere in the operating area of the unit.

Verify that the nozzles are protected from airborne contaminants and that removal of such protection does not require a separate motion by the operator when activating the unit.

Verify that the control valve for the station opens and stays open in one second or less.

Using a flow meter, flow water and verify that the flow rate is at least 3 gallons per minute, that the flushing streams rise to approximately equal heights, and that the water will wash the eyes and face at a velocity low enough not to be injurious to the user.

Inspect the eye/face wash location and verify that the unit is properly identified with a highly visible sign and that the area around it is well lighted and highly visible.

Verify that the eye/face wash equipment is within 100' of the hazard and takes no longer than 10 seconds to reach.

NOTE: The unit should be located as close to the hazard as possible and on the same level. The maximum time required to reach the eye/face wash should be determined by the potential effect of the chemical. For a strong acid or strong corrosive, the eye/face wash should be immediately adjacent to the hazard as practical.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

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Fire Protection Systems

FIRE DAMPER(S)

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These Standards of Performance provide minimum requirements relative to the inspection, care and service testing of fire dampers as specified in Addendum "C". The NFPA 90A Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Hinges and moving parts will be physically inspected for smooth and proper operation.

Latches and cables will be physically tested for proper operation. Cables will be inspected for fraying, excess wear and tear and proper alignment to release devices.

Dampers will be inspected to ensure that the blades are not bent and are properly aligned with the duct housing.

Moving parts will be lubricated, as needed, for smooth operation.

Functional Testing Requirements: Fire dampers shall be functionally tested one year after installation and every four years thereafter and is a maintenance item to be performed at an additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
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Life Safety Equipment

PORTABLE EYE WASH STATION(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of portable eye wash station equipment as specified in Addendum “C”. The ANSI Standard may require more frequent inspection and testing intervals, than those specified herein, with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Discharge water from eye wash units, release any remaining pressure from the unit, open fill cap, and visually inspect interior condition and exterior condition of the unit.

Flush interior of unit with a sanitizing wash and rinse with de-ionized water.

Inspect condition of eye nozzles and covers.

Inspect condition of gasket on fill cap.

Refill unit to proper level, replace fill cap and recharge with air pressure utilizing an “oilless” air compressor to the prescribed pressure.

Provide a written report of services provided and condition of units.

Fill in inspection tags with date inspected and the technician’s initials.

Customer provided material and services:

Replacement parts - gaskets, gauges, nozzles and nozzle covers, etc.;

De-ionized water and sanitizing wash;

“Oilless” air compressor with necessary accessories to fill units;

Departments to deliver units to a pre-arranged location and return units to their assigned areas;

Replacement of units.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

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Fire Protection Systems

SWINGING FIRE/SMOKE DOORS

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These Standards of Performance provide minimum requirements relative to the inspection and testing of these door assemblies as specified in Addendum "C". The NFPA 80 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Visually inspect the condition of listed fire/smoke door assemblies for physical damage.

Functionally operate doors to ensure positive latching when in the closed position.

Visually inspect the size of windows/viewing panes to ensure they do not exceed 100 square inches and are tempered glass with wire mesh inside.

Visually inspect that the door(s) and frame assemblies have proper UL label.

Note: This inspection excludes the investigation of rated door assemblies and rated firewall compatibility.

Doors with magnetic/pneumatic door holders will be tested for proper operation. *Excludes fire doors that are rolling steel and sliding type.*

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

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Gas Fire Protection Systems

CLEAN AGENT SUPPRESSION SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of clean agent suppression system equipment as specified in Addendum "C". The NFPA 2001 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Semi-Annual

Scope:

A visual inspection of the system, portions that are readily accessible, will be performed for physical damage.

The pressure gauge of each cylinder shall be checked to insure proper system operating pressure.

Each cylinder shall be checked for proper liquid level content and/or pressure levels, by approved means.

Nozzles and nozzle caps (if provided) shall be visually examined and checked for damage or obstructions.

Secondary power supplies, inclusive of batteries, shall be tested for proper voltage, supervision, load capacity, and length of time in service.

Frequency: Annual

Scope:

In addition to the above standards, automatic smoke detectors/heat detectors shall be functionally tested for proper operation. Detectors shall be cleaned and serviced according to the manufacturer's specifications.

Manual releases, both local and remote, shall be functionally tested for proper operation.

Specified operating functions of the control panel shall be tested for proper operation, including abort functions, time discharge delays, pre-alarm, discharge alarm, ventilation and power shut downs.

The date of the last hydrostatic test, of the cylinders, shall be recorded and the owner is to be notified when cylinders and hoses are due for testing.

NOTE: The refilling of the cylinders or hydrostatic testing of the cylinders and hoses are maintenance items to be performed at an

Eagle Fire Inc. (EFI) will not accept responsibility for the discharge of your Clean Agent Fire Protection System due to the ratio between the cost of our inspection and the expense of refilling a Clean Agent system after discharge. In order for us to provide our inspection services for these systems, it must be understood and agreed the Subscriber/Subscriber's representative assumes full responsibility for all discharges whether caused by Eagle Fire and/or others. We provide trained personnel to test these systems and exercise due care in performing these services. By authorizing this proposal and the attached specifications, you are agreeing to these conditions and are willing to hold EFI harmless for an accidental discharge of your Fire Protection System if one should occur.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

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Addendum D
Fire Protection Systems

DRY CHEMICAL EXTINGUISHER SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of dry chemical extinguisher system equipment as specified in Addendum "C". The NFPA 17 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Semi-Annual

Scope:

*Note: Subscriber to provide Eagle Fire Inc. technician with original and/or up to date approved system installation drawings and component submittal documentation **prior** to the inspection of the system(s).*

Visually inspect the system(s), equipment and protected areas under the hood. Any changes in hazard or system components since the last inspection (if previously inspected by Eagle Fire Inc.) shall be noted on the report.

Agent container(s) exterior shall be visually inspected for damage.

Interior of non-pressurized dry chemical agent containers shall be visually inspected for agent level. *Dry chemical agents shall be checked for evidence of caking.

The pressure gauge(s) of the agent container(s), if a stored pressure type, shall be inspected for indication of proper operating pressure. For cartridge operated type systems, the cartridge will be weighed to verify proper weight.

System(s) shall be operated by functionally testing to include: automatic detection release by removal of the terminal end fusible link; operation of electrical detection device; release of manual stations; verification of automatic fuel supply shut off (gas and/or electric); verification of fresh air make-up fan shutdown (if applicable); and verification of alarm signaling (if required) to verify components operation.

Nozzles shall be visually inspected, checked for damage or obstructions and nozzle caps (if applicable) are in place.

Manual releases, both local and remote, shall be visually inspected after testing and tamper seals affixed.

Detection operating cables shall be checked for tension and setting.

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Fire Protection Systems

DRY CHEMICAL EXTINGUISHER SYSTEM(S)

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Specified detection release devices (mechanical fusible links and/or electric detectors) shall be examined and cleaned.

Fusible metal alloy type links shall be replaced with new links of same type and temperature rating. The year of the manufacture's link and the date of the installation shall be marked on the system inspection tag and attached to the system(s).

Inspection tags will be attached to the specified system(s) at the completion of the inspection. Existing tags will be removed and discarded at this time. The inspection tag will contain the following information:

Day, Month and year the system maintenance was performed

Number of metal alloy links replaced, temperature(s) of links and manufacturers date of links.

Technician's signature or initials.

NOTE: Actual refilling of the chemical agent containers, six year maintenance and hydro-static testing of the containers is **NOT** part of this standard. These services can be provided by Eagle Fire Inc., on an as needed basis, at additional cost.

*Note: Non-Pressurized Dry Chemical Containers

Per NFPA 17, If there is evidence of caking, the dry chemical agent shall be discarded and the system shall be recharged in accordance the manufacturer's instructions. This service can be provided by Eagle Fire Inc., on an as needed basis, at additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
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Dry Chemical Extinguishing Systems

DRY CHEMICAL SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of dry chemical extinguishing system equipment as specified in Addendum “C”. The NFPA 17 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the owner.

Frequency: Semi-Annual

Scope:

Make a thorough visual inspection of visible portions of the system piping and components for any physical damage.

Nozzles shall be visually examined for proper alignment and free from obstructions and foreign matter.

Determine that cylinders are in place and properly secured.

Fusible links and/or detectors will be visually inspected and cleaned.

Visually inspect to see that the hazard has not changed since the last inspection.

Dry chemical systems shall be tested (without discharging dry chemical), which shall include alarms, releasing devices, shut downs and manual stations verifying their proper operation.

Non-pressurized dry chemical cylinders shall be checked for evidence of the agent caking (excludes 6-year test required for stored pressure cylinders).

Verify that the agent distribution piping is not obstructed.

Fusible metal alloy type sensing elements (fusible links) shall be replaced and the year of manufacturer and date installed noted on the system tag.

Restorable detection devices will be functionally tested.

For additional requirements see Addendum “D” Fire Alarm Releasing Panel.

Visually verify that the proper seals are in place and that the system tag is affixed properly.

NOTE: Actual refilling of the cylinders, six year test and hydrostatic testing of the cylinders is **NOT** included as part of this standard. This is a maintenance item and can be performed at an additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
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Fire Extinguisher Equipment

FIRE EXTINGUISHER(S)

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These Standards of Performance provide the minimum requirements relative to the inspection and functional testing of portable fire extinguishing equipment as specified in Addendum "C". The NFPA 10 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Monthly

Scope:

Hand portable fire extinguishers shall be inspected to see that they are located in their designated place, there is no obvious physical damage or condition to prevent operation, there is no evidence of tampering or actuation, and that there is no obstruction to their access or visibility.

The pressure gauges (where applicable) shall be checked to see that the pressure is in the operable range.

Safety pull pins shall be visually inspected to be in place and sealed with tamper seals.

The inspection tag shall be inspected to be in place and be initialed and dated on the back of the tag by the performing technician. *(Subscriber/Owner shall do additional inspections no less than monthly unless contracted with Eagle).*

Frequency: Annual

Scope:

Extinguishers shall be thoroughly inspected for obvious physical damage, corrosion or leakage.

A check shall be made for fullness by weighing and/or hefting each extinguisher.

The safety pull pin will be removed

Discharge nozzles shall be inspected for foreign debris or clogging.

Carbon Dioxide extinguishers shall have hose assemblies checked for conductivity where applicable.

A proper tag shall be affixed to each unit inspected, stating the date of the inspection and the company and person making the inspection.

NOTE: Refilling of fire extinguishers has **NOT** been included in this standard and is to be performed as required upon authorization from the Subscriber. Also, the six and twelve year maintenance of extinguishers has **NOT** been included in this standard. Both services can be provided upon request, at additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

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Gas Fire Protection Systems

HALON SYSTEM(S)
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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of Halon fire protection system equipment as specified in Addendum "C". The NFPA 12A Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Semi-Annual

Scope:

Make a thorough visual inspection of visible portions of the system piping and components for any physical damage.

Nozzles shall be visually examined for proper alignment and free from obstructions and foreign matter.

Determine that cylinders are in place and properly secured.

Detectors shall be visually inspected for any accumulation of foreign matter and/or obstructions.

Detectors shall be functionally tested for proper operation of control mechanisms.

Mechanical and electrically operated manual releases, both local and remote, shall be functionally tested for proper operation.

Alarms (pre-discharge, discharged, and supervisory) shall be tested for proper operation.

Auxiliary functions (shutdowns, shunts and dampers) shall be tested, when possible, for proper operation.

Halon cylinders shall be checked for proper liquid level utilizing a listed device.

Halon cylinders will be inspected for proper pressure.

Solenoid(s) shall be functionally tested and inspected for proper operation and supervision.

Abort and disconnect switches shall be inspected for proper operation and visual/audible indications.

Control panel(s) shall be functionally tested for proper operation including trouble condition signaling, circuit supervision, and remote signaling.

Power supplies inclusive of specified batteries shall be inspected for proper voltage, supervision, capacity, and length of time in service.

For additional requirements see Addendum "D" Fire Alarm Releasing Panel.

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HALON SYSTEM(S)

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NOTE: Hydrostatic testing of the Halon cylinders and flexible discharge hoses are NOT included in this standard. This service can be provided, on an as needed basis, at additional cost.

Due to the Montreal Protocol and the U.S. Clean Air Act, Halons are no longer manufactured in the United States, as of January 1, 1996. Halon in use and stockpiled can still be used, however the cost to recharge a Halon system has become prohibitive.

Therefore, Eagle Fire Inc., will not accept responsibility for the discharge of your Halon Fire Protection System due to the increased ratio between the cost of our inspection and the expense of refilling a Halon system after discharge.

In order for us to provide our inspection services for these (Halon) systems, it must be understood and agreed the Subscriber/Subscriber's representative assumes full responsibility for all discharges whether caused by Eagle Fire and/or others. We provide trained personnel to test these systems and exercise due care in performing these services.

By authorizing this proposal and the attached specifications, you are agreeing to these conditions and are willing to hold us harmless for the accidental discharge of your Halon Fire Protection System.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

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Gas Fire Protection Systems

HIGH PRESSURE CARBON DIOXIDE SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional test of gas fire protection system equipment as specified in Addendum "C". The NFPA 12 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Semi-Annual

Scope:

Make a thorough visual inspection of visible portions of the system piping and components for any physical damage.

Determine that cylinders are in place and properly secured.

Installed high-pressure cylinders shall be weighed and the date of the last hydrostatic test noted.

Frequency: Annual

Scope:

Accessible nozzles shall be visually examined for proper alignment and free from obstructions and foreign matter.

Detectors shall be visually inspected for any accumulation of foreign matter and/or obstructions.

Detectors shall be functionally tested for proper operation of control mechanisms.

Mechanical and electrically operated manual releases, both local and remote, shall be functionally tested for proper operation.

Alarms (pre-discharge, discharged, and supervisory) shall be tested for proper operation.

Auxiliary functions (shutdowns, shunts and dampers if installed) shall be tested, when possible, for proper operation.

Solenoid(s) shall be functionally tested and inspected for proper operation and supervision.

Abort and disconnect switches shall be inspected for proper operation and visual/audible indications.

For additional requirements see Addendum "D" Fire Alarm Releasing Panel.

NOTE: Refilling, hydrostatic testing of the carbon dioxide cylinders and hoses is **NOT** a part of this standard. This service can be provided, on an as needed basis, at additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See *Supplementary Requirements and Special Instructions* for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Gas Fire Protection Systems

LOW PRESSURE CARBON DIOXIDE SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of low-pressure carbon dioxide system equipment as specified in Addendum "C". The NFPA 12 Standard and NFPA 72 Standard require more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Make a visual inspection of portions of the system that are readily accessible for any physical damage.

Nozzles shall be visually inspected for obstructions and nozzle caps (if applicable) shall be tested for proper operation.

Heat detectors shall be functionally tested to insure the proper control mechanisms will perform satisfactorily.

Mechanical and electrically operated manual releases, both local and remote, shall be functionally tested for proper operation.

The pre-discharge alarms and the discharge alarms shall be tested for proper operation.

Auxiliary functions performed, by the systems, shall be tested for proper operation.

Exercise timers.

The carbon dioxide storage tank shall be checked for proper quantity of agent and proper pressure.

The refrigeration unit will be checked for proper operation to include alarm activation.

The storage tank, safety valves and pilot cabinets shall be checked for leaks.

Hose reels shall be checked for proper operation.

Perform a puff test of systems where possible, due to occupancy, availability of CO₂ and other factors.

For additional requirements see Addendum "D" Fire Alarm Releasing Panel.

NOTE: Refilling of the carbon dioxide storage tank is a maintenance item to be performed at an additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Fire Protection Systems

WET CHEMICAL EXTINGUISHER SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of wet chemical extinguisher system equipment as specified in Addendum "C". The NFPA 17A Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Semi-Annual

Scope:

Note: Subscriber to provide Eagle Fire Inc. technician with original and/or up to date approved system installation drawings and component submittal documentation prior to the inspection of the system(s).

Visually inspect the system(s), equipment and protected areas under the hood. Any changes in hazard or system components since the last inspection (if previously inspected by Eagle Fire Inc.) shall be noted on the report.

Agent container(s) exterior shall be visually inspected for damage.

Interior of non-pressurized wet chemical agent containers shall be visually inspected for agent level.

The pressure gauge(s) of the agent container(s), if a stored pressure type, shall be inspected for indication of proper operating pressure. For cartridge operated type systems, the cartridge will be weighed to verify proper weight (if required).

System(s) shall be operated by functionally testing to include: automatic detection release by removal of the terminal end fusible link; operation of electrical detection device; release of manual stations; verification of automatic fuel supply shut off (gas and/or electric); verification of fresh air make-up fan shutdown (if applicable); and verification of alarm signaling (if required) to verify components operation.

Nozzles shall be visually inspected, checked for damage or obstructions and nozzle caps (if applicable) are in place.

Manual releases, both local and remote, shall be visually inspected after testing and tamper seals affixed.

Detection operating cables shall be checked for tension and setting.

Detection release devices (mechanical fusible links and/or electric detectors) shall be examined and cleaned.

Fusible metal alloy type links shall be replaced with new links of same type and temperature rating. The year of the manufacture's link and the date of the installation shall be marked on the system inspection tag and attached to the system(s).

Inspection tags will be attached to the system(s) at the completion of the inspection. Existing tags will be removed and discarded at this time. The inspection tag will contain the following information:

Day, Month and year the system maintenance was performed
Number of metal alloy links replaced, temperature(s) of links and manufacturers date of links.
Technician's signature or initials

NOTE: Actual refilling of the chemical agent containers, six year maintenance and hydro-static testing of the containers and discharge hoses is **NOT** part of this standard. These services can be provided by Eagle Fire Inc., on an as needed basis, at additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

ANTI-FREEZE SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum “C”. The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

The antifreeze system solution shall be checked annually to verify its freezing point.

A small sample of the liquid solution shall be taken from the test valve and/or the most remote portion of the system where a test is provided. A determination must be made as to the type of solution being utilized. Only propylene glycol or glycerin may be used in systems that are connected to city water.

NOTE: If the type of solution is not identified (system is not tagged and there are no records), a recommendation will be made to have the system drained and refilled with propylene glycol or glycerin as required by NFPA 25. Only manufacturer premixed glycerin solution shall be used in plastic pipe (CPVC) systems.

Identified antifreeze solution(s) freeze point(s) will be determined with the appropriate means of measuring the freeze point of the solution (depending on the type).

The results shall be recorded on the antifreeze inspection tag. The tag will be affixed at a readily accessible location on the antifreeze loop. Additionally, the test results will be recorded on the report of inspection.

If installed, expansion chamber, backflow preventer, or relief valve will be inspected.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

BACKFLOW PREVENTER(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Inspect to verify that the manufacturer's label is in place and that test cocks (4) are in place and in good working condition.

Packing glands and connection flanges shall be inspected for leaks.

A forward flow test shall be conducted equal to the system demand where connections of sufficient size are available or at the maximum flow rate possible when such connections are not provided.

A backflow performance test shall be performed using a duplex or dual gauge test kit to determine that the check valves prevent reverse flow under pressure differentials.

NOTE: If the backflow preventer fails the reverse flow prevention test, the backflow preventer must be repaired immediately or the fire protection system placed out of service.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

CONTROL VALVE(S)

Page 1 of 1

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Monthly

Scope:

Each control valve will be visually inspected for accessibility, normal positioning (open/closed), proper identification, evidence of external leakage, and is properly sealed, locked, or electrically supervised.

Frequency: Quarterly

Scope:

Control valve(s) that are equipped with electric tamper switches will be operated to functionally test and obtain a signal from the tamper switch within the first two revolutions of the hand wheel or during one-fifth of the travel distance of the control valve stem from its normal position.

Frequency: Annual

Scope:

OS&Y valve stem (where applicable) shall be lubricated prior to full range of operation to fully distribute lubricant on the stem during operation.

Each control valve will be operated through its full range of motion and returned to its normal position. (Number of turns to operate valve shall be counted during operation from fully open to fully closed position and recounted to be equal to that from fully closed back to fully open position).

Control valve(s) will be sealed after each operation in accordance with Eagle Fire's Valve Seal Procedure number 300.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

DELUGE SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Quarterly

Scope:

Deluge system valve(s) will be externally inspected to verify components are free from physical damage; trim valves are in appropriate open or closed position, gauges indicating supply water and supervisory air pressures being maintained, and valve seats not leaking.

The supervisory air for detection will be inspected for proper pressure. (The air compressor will be inspected for: proper operation and automatic operation; sufficient oil level; belt conditions and drain supply tank of condensation.)

The system supervisory air pressure switch (detection) will be tested for the operation of a supervisory signal.

The inspector's by-pass test valve will be utilized to test the operation of specified alarm devices.

Alarm devices will be inspected to verify they are free of physical damage.

The hydraulic data plate, if installed, shall be inspected to verify that it is securely attached to the riser and is legible.

A full flow test will be made utilizing the systems main drain (when possible and weather permitting). The observed pressure readings will be recorded on the flow test tag and inspection report form.

Frequency: Annual

Scope:

A visual inspection of exposed system components will be performed from floor level to include: system piping for mechanical damage, loose hangers, external corrosion and leaks; sprinkler heads and/or nozzles for visible mechanical damage, corrosion, painted, proper orientation, obstructed and/or loading.

The deluge valve will be trip tested with the system control valve partially open (3-4 turns), by opening the inspectors test connection valve (pilot line) and/or other means of actuation by varying detection methods. The clapper trip point (water) will be observed and recorded on trip test tag, preaction and/or deluge trip test report and inspection report form. After the valve has been tripped, we will internally inspect the following: interior condition, valve seat, clapper, latching device, and the velocity check valve. The observed conditions will be recorded on the trip test report. The valve will be reset and returned to normal condition.

Each specified, identified, and accessible auxiliary condensate low point drain (described in NFPA 25) will be drained during the annual inspection.

NOTE: The following services are required by code but are NOT included in this inspection agreement:

- A full flow test shall be conducted annually and the interval shall not exceed 18 months, where conditions do not allow annual test.
- Strainers, filters, restricted orifices and diaphragm chambers shall be inspected internally every five years unless tests indicate a more stringent frequency is required.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Fire Protection Systems

WATER MIST SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water mist system equipment as specified in Addendum "C". The NFPA 25 Standard may require more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Note: Subscriber to provide Eagle Fire Inc. technician with original and/or up to date approved system installation drawings and component submittal documentation prior to the inspection of the system(s).

Frequency: Quarterly

Scope:

- Verify water recirculation tank(s) operate per system design, both automatically & manually.
- Inspect system gauges (water/air) for proper physical condition and normal pressure.
- Make a visual inspection of moisture traps and empty.
- Make a visual inspection of compressed gas supply and inlet pressure, outlet water pressure, and oil level on air regulator units of pneumatically operated standby pumps as applicable.

Frequency: Quarterly

Scope:

- Make a visual inspection of additive storage cylinders for external corrosion or damage.
- Make a visual inspection of supervised water levels in recirculation tanks.
- Make a visual inspection of water supply pressure.
- Test and verify operation of high and/or low air alarms and that monitoring entity received all alarms.
- Determine that compressed gas cylinders, water storage, and recirculation cylinders are in place and properly secured.
- Make a visual inspection of high-pressure water cylinder discharge side pressure, vent plugs, and filter.
- Verify proper specification, capacity, and pressure rating for cylinders.

Frequency: Semi-Annual

Scope:

- Make a visual inspection of the quantity of the additive agent.
- Verify the integrity of the enclosure and interlocks.
- Make a visual inspection of pneumatically operated valves and tubing for damage.
- Testing of electric or manual pneumatic solenoid valve releases in accordance with manufacturer specifications.
- Test detection devices and verify operation of detection and release/activation devices.

Frequency: Annual

Scope:

- Make a thorough visual inspection of all hoses, pipe hangers, braces, supports, piping, tubing, and fittings for damage, leakage, corrosion, and freedom from external loads.
- Water mist nozzles shall be visually examined for proper alignment and free from leakage, corrosion, damage, obstructions and foreign matter.
- Verify nozzle discharge patterns are free from impediments, plugs, & obstructions.
- Verify supply of stock nozzles.
- Water quality shall be inspected, drained, flushed, and refilled.
- Additive shall be sampled per the manufacturer.
- Filters, strainers, and cyclone separator shall be visually inspected and cleaned as specified by the manufacturer.

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STANDARDS OF PERFORMANCE
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Fire Protection Systems

WATER MIST SYSTEM(S)

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NOTE: Actual refilling of the chemical agent containers, five year maintenance and hydro-static testing of the containers and discharge hoses is **NOT** part of this standard. These services can be provided by Eagle Fire Inc., on an as needed basis, at additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

DIESEL FIRE PUMP(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum “C”. The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Weekly

Scope:

Perform a thorough visual inspection of fire pump components and visible piping.

Visually inspect the fire pump and jockey pump controllers to verify that power indicating lamps are illuminated and switches are in the “Auto” mode position.

Visually inspect pressure gauges and record existing static water supply pressures.

Check for proper fuel tank level, oil level in engine, coolant level, and electrolyte level in both banks of batteries. Inspect battery terminals for corrosion and cable(s) for proper connections. Visually inspect engine for fuel leaks, coolant leaks, and/or oil leaks.

NOTE: The code requires that a preventive maintenance program be established for the pump driver in accordance with the manufacturer’s recommendations. Our checkpoints do not constitute a preventive maintenance program.

If all conditions above are satisfactory, perform a functional start test by dropping the sensing line pressure at the controller test cock for both the jockey pump and fire pump. Record the start pressures of both pumps and the cut out pressure of the jockey pump.

Perform an operational test of the manual start on batteries 1 and 2 individually.

Inspect the operation of the relief valve, condition of the fire pump(s) packing, bearings and shaft rotation during the operational test. Note any unusual noises or vibrations.

Verify the operation of the fire pump alarms.

Frequency: Annual

Scope:

The fire pump shall be run at churn and flow tested at 100% rated capacity/pressure and 150% rated capacity/pressure to determine its ability to attain satisfactory performance compared to manufacture’s data.

Verify the RPM of the pump shaft utilizing a hand held tachometer during various phases of the pump test.

Test controller for automatic start of engine due to loss of primary power.

The test header will be drained and the ball drip disassembled, cleaned, and checked for proper operation.

The pump room space, environmental conditions shall be inspected (heating, ventilation, illumination, and drainage) to verify manual or automatic operation of the equipment.

A pump test graph will be provided depicting the rated capacities vs. the actual test capacities and interpreted as satisfactory or unsatisfactory.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See *Supplementary Requirements and Special Instructions* for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

DRY PIPE SYSTEM(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Quarterly

Scope:

Dry pipe system valve(s) will be externally inspected to verify components are free from physical damage, trim valves are in appropriate open or closed position, gauges indicating supply water and supervisory air pressures being maintained, and intermediate chamber not leaking.

The priming water will be tested and adjusted to the proper level.

The air supply for system piping will be inspected for proper pressure and operation. *(Air compressor(s) will be inspected for: proper automatic operation; sufficient oil level; belt conditions and drain supply tank of condensation.)*

System supervisory air pressure switches will be tested for the operation of a supervisory signal.

Alarm devices will be inspected to verify they are free of physical damage.

The inspector's by-pass test valve will be utilized to test the operation of alarm devices.

Quick opening devices, if installed, will be inspected for proper air pressure and that the device control valve is opened and sealed. The device(s) will be tested substantially in accordance with the manufacturer recommendations.

The hydraulic data plate, if installed, shall be inspected to verify that it is securely attached to the riser and is legible.

A full flow test will be made utilizing the systems main drain (when possible and weather permitting). The observed pressure readings will be recorded on the flow test tag and inspection report form.

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STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

DRY PIPE SYSTEM(S)

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Frequency: Annual

Scope:

A visual inspection of exposed system components will be performed from floor level to include: system piping for mechanical damage, loose hangers, external corrosion and leaks; sprinkler heads and/or nozzles for visible mechanical damage, corrosion, painted, proper orientation, obstructed and/or loading.

The dry pipe valve will be trip tested with the system control valve partially opened (3-4 turns opened) by opening the inspectors test connection valve. The quick opening device, if installed, and the clapper trip point (air and water) will be observed and recorded on trip test tag, dry valve trip test report and inspection report form. After the dry pipe valve has been tripped, we will internally inspect the following: interior condition, valve seat, clapper, latching device, and the velocity check valve. The observed conditions will be recorded on the dry valve trip test report. The dry pipe valve and quick opening device, if installed, will be reset and returned to normal condition.

Specified, identified, and accessible auxiliary condensate low point drains (described in NFPA 25) will be drained during the annual inspection.

NOTE: The following services are required by code but are **NOT** included in this inspection agreement:

- Every third year and whenever this system is altered, the dry valve shall be trip tested with the control valve fully opened and the quick opening device, if installed, in service.
- Five year maintenance requirements, internal check valve inspection and internal obstruction investigation of system piping.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

ELECTRIC FIRE PUMP(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum “C”. The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Monthly

Scope:

Perform a thorough visual inspection of fire pump components and visible piping.

Visually inspect the fire pump and jockey pump controllers to ensure that power indicating lamps are illuminated and switches are in the “Auto” mode position.

Visually inspect pressure gauges and record existing static water supply pressures.

If all conditions in A, B, & C are satisfactory, perform a functional start test by dropping the sensing line pressure at the controller test cock for both the jockey pump and fire pump. Record the start pressures of both pumps and the cut out pressure of the jockey pump.

Perform a fire pump automatic start test by operating an inspector’s test drain line simulating the discharge of water from a single sprinkler head. Record the start pressure if different from the test results in item D.

Perform an operational test of the manual start and emergency start.

Inspect the operation of the relief valve, condition of the fire pump(s) packing, bearings, and shaft rotation during the operational test. Note any unusual noise or vibrations.

Verify the operation of the fire pump alarms and loss of power alarms.

Frequency: Annual

Scope:

The fire pump shall be run at churn and flow tested at 100% rated capacity/pressure and 150% rated capacity/pressure to determine its ability to attain satisfactory performance compared to manufacture’s data.

Verify the RPM of the pump shaft utilizing a hand held tachometer during various phases of the pump test.

If panel is equipped with an external display, voltage and amp draw will be recorded for each phase during the churn, 100%, and 150% stage of tests. If an external display does NOT exist, Eagle Fire will NOT perform this test for the safety of our technicians.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Fire Detection Systems

FIRE ALARM RELEASING PANEL(S)

Page 1 of 1

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of fire detection system equipment as specified in Addendum "C". The NFPA 72 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Semi-Annual

Scope:

Perform a thorough visual inspection, from floor level, of specified alarm indicating appliances, backup power supply batteries, control panel trouble signals, detection devices and manual fire pull stations.

Secondary power supply batteries shall be tested for voltage output, supervision, load capacity, and length of time in service.

Frequency: Annual

Scope:

Perform a thorough visual inspection of specified alarm indicating appliances, backup power supply batteries, control panel trouble signals, smoke detectors and manual fire pull stations.

Specified manual fire pull stations shall be functionally tested for proper operation.

Specified control panel(s) shall be functionally tested for proper operation, including trouble condition signaling, initiating and indicating circuit supervision, and remote signaling.

Cross-zoned detection, if applicable, shall be functionally tested for proper release operation.

Specified auxiliary contact operated devices shall be functionally tested.

Specified automatic shutdown devices shall be functionally tested.

Specified smoke detection devices shall be functionally tested with simulated smoke or other manufacturer recommended method.

Specified restorable type heat detectors shall be functionally tested.

Other specified detection devices will be tested in accordance with applicable standards and in accordance with manufacturer's instructions.

NOTE: Testing smoke detectors for sensitivity is **NOT** included as part of this standard. This service can be provided, on an as required basis, at additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See *Supplementary Requirements and Special Instructions* for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

FIRE DEPARTMENT CONNECTION(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Quarterly

Scope:

Each specified Fire Department Connection (FDC) shall be inspected to verify the following:

- The fire department connection(s) are visible and accessible.
- Couplings or swivels are not damaged and rotate smoothly.
- Plugs or caps are in place and undamaged.
- Gaskets are in place and in good condition.
- Identification signs are in place.
- The check valve is not leaking.
- The automatic drain valve (ball drip) is in place and operating properly.
- The fire department connection clapper(s) is in place and operating properly.

Frequency: Annual

Scope:

Fire Department Connection(s) couplings will be lubricated.

Each specified Fire Department Connection ball drip (if safely accessible) will be disassembled, cleaned, checked for proper condition and reinstalled.

WARNING: Subscriber shall verify FDC threads are compatible with the local fire department hose thread.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Fire Protection Systems

FIRE HOSE

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These Standards of Performance provide minimum requirements relative to the care, use and service testing of fire hose as specified in Addendum "C". The NFPA 1962 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

A visual examination shall be made to see that hose has not been vandalized, that the nozzles and couplings are attached, that there is no evidence of mildew, rot, or damage by chemicals, vermin or abrasion. Check to see that the hose and nozzles are free of debris. Check hose to see that it is properly racked.

Hand hoses shall be re-racked, being sure that folds do not occur in the same places. Hose line connection valves shall be flushed, cleaned, and checked for proper operating condition.

Records of the age of the hand hose shall be kept, and the owner is to be notified when service tests of the hose are due to be performed.

NOTE: This standard does **NOT** include repair and/or replacement of failed hoses. Service tests of hose, required at three-year intervals are not included in this proposal. For more information, reference NFPA #1962.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

FIRE HYDRANT(S)

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These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Semi-Annual

Scope:

Fire hydrants shall receive a thorough visual inspection checking for proper thread condition and presence of protective caps.

Leaded in discharge outlets shall be inspected for damage and proper tightness.

Operating stems and gate valves shall be inspected for proper condition.

Hydrants shall be flushed and functionally tested for proper operation. Hydrants shall be flushed thoroughly so debris that may be loose in the water supply is discharged.

Hydrants shall be visually inspected for leaks.

Hydrants shall be lubricated as per manufacturer specifications.

Hydrants shall be inspected to ensure that water is properly draining via the weep hole.

NOTE: Water supply evaluations are NOT included in this standard and are to be performed as required upon authorization from the owner.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

FOAM-WATER SPRINKLER SYSTEM(S)

Page 1 of 2

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum “C”. The NFPA 25 Standard requires more frequent inspection intervals than specified herein and references additional NFPA standards with their performance being the sole responsibility of the Subscriber.

Frequency: Quarterly

Scope:

Visually inspect system piping, hangers and fittings for mechanical damage (broken pipe, cracked fitting), external corrosion and visible leaks from floor level.

Visually inspect the condition of foam tank(s), proportioning equipment, pump(s) (foam and water), and verify liquid levels.

Visually inspect pneumatic and/or manual control valves as to position (open or closed) and verify they are in accordance with operating conditions.

Proportioning systems shall be visually inspected and foam pump(s) will be run circulating foam concentrate back to the foam tank (if applicable).

Perform a main drain water flow test at specified system risers.

Perform a functional test of system(s) water flow alarm devices.

Foam concentrate strainers will be visually inspected and cleaned.

Deluge valves: see Addendum “D” Preaction and/or Deluge Valves (if applicable).

Fire Alarm Releasing Panel: see Addendum “D” Fire Alarm Releasing Panel (if applicable).

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

FOAM-WATER SPRINKLER SYSTEM(S)

Page 2 of 2

Frequency: Annual

Scope:

Discharge devices shall be flow tested with water and observed for proper position, location and obstruction.

Manual actuation devices will be tested for proper operation.

An operational test will be performed to ensure that the foam-water system(s) will respond as designed both automatically and manually.

Coordinate with local fire department to support test and provide on-site training to Fire Department personnel, if required.

EXCEPTION: Foam discharges and cleanup is the responsibility of the owner/representative.

During foam-water solutions discharge a sample of the solution will be captured and checked by a temperature compensated refractometer or a conductivity meter to verify concentration of the solution. The results will be plotted on a graph and compared against predicted results.

NOTE: Replacement foams and renewable parts are NOT included in this standard. If requested, Eagle can provide this service at additional cost.

Foam tanks will be visually inspected for proper foam concentrate level.

Vacuum vent(s) shall be removed and visually inspected for obstructions or other foreign objects.

A sample of the foam concentrate, from specified foam storage tank(s), will be obtained and sent for analysis.

Visually inspect the condition of the foam house for proper drainage, lighting and heating.

NOTE: NFPA 25 requires that foam storage tanks be drained, flushed and internally inspected every ten (10) years. In addition, tanks used in standard pressure proportioner systems and bladder tanks shall be hydrostatically tested to their specified working pressures. These maintenance items are NOT included in our service, but can be provided on an as needed basis.

MULTIPLE SYSTEMS: Multiples systems expected to operate in case of a fire shall be inspected simultaneously; this service can be provided at an additional cost upon request.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Foam Protection Systems

HIGH EXPANSION FOAM SYSTEM(S)

Page 1 of 1

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of foam-based fire protection system equipment as specified in Addendum "C". The NFPA 11A Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Perform a thorough visual inspection of exposed system components from floor level to include: system piping for mechanical damage; loose hangers; external corrosion and leaks; foam tank(s) and piping for visible leaks or corrosion; foam generating appliances for visible mechanical integrity.

Flow water only through foam generating appliance(s) to verify their proper operation; inspect condition of screens and moving parts required to operate during water flow.

Inspect and flush strainer(s) as required, if applicable.

Obtain a sample of the foam concentrate and send to the manufacturer to be tested and evaluated. The manufacturer will return a report indicating the foam suitability; forward a copy of this report to the owner.

When possible and if on site conditions permit, perform a thirty (30) second foam discharge test to ensure proper operation of specified components. (This test is only to be performed by trained and qualified personnel.)

NOTE: Foam containment and disposal to be the responsibility of the owner and/or his designated representative. Consideration to safety of personnel and equipment will be of the utmost importance prior to performing any test.

Upon completion of the discharge test, specified foam tanks will be serviced/replenished with the proper high expansion foam.

NOTE: Replacement foam to be provided by the owner.

Each system tested with full water flow and/or foam test will be flushed and properly drained of water.

Deluge valves: see Addendum "D" Preaction and/or Deluge Valves

For additional requirements see Addendum "D" Fire Alarm Releasing Panel.

NOTE: NFPA 25 requires that foam storage tanks be drained, flushed and internally inspected every ten (10) years. In addition, tanks used in standard pressure proportioner systems and bladder tanks shall be hydrostatically tested to their specified working pressures. These maintenance items are **NOT** included in our service, but can be provided on an as needed basis, at additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Fire Protection Systems

INCINERATORS/WASTE/LINEN HANDLING SYSTEMS AND EQUIPMENT

Page 1 of 1

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum "C". The NFPA 82 Standard and NFPA 13 Standard require more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Perform a visual inspection of exposed system components from floor level to include: system piping for mechanical damage, external corrosion and leaks (if accessible); sprinkler heads for visible mechanical damage, corrosion, painted, obstructed and/or loading.

The closing hardware shall be visually inspected for obvious physical damage.

For chute loading and unloading released by fusible links, the specified links shall be inspected for obvious physical damage.

The doors shall be functionally tested by removing the links and verified for full closure and positive latching every four years, this is a maintenance item to be performed at an additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Fire Protection Systems

MANUALLY OPERATED MONITOR(S)

Page 1 of 1

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water- based fire protection system equipment as specified in Addendum “C”. The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Visually inspect the physical condition of the monitor(s) for corrosion, bent or damaged travel locks and nozzle obstructions.

Lubricate moving parts and operate through range of motion, verify the operation of vertical and horizontal travel locks.

Perform a flow test, where conditions permit, to check for obstructions, adequate flow and note area of coverage.

Verify that water drains from body of monitor, where applicable.

Verify monitors are covered and protected from the elements.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Foam Protection Systems

MOBILE FOAM SYSTEM(S)

Page 1 of 1

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of foam-based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Perform a visual inspection of system components for visual damage and/or corrosion: piping, valves, foam devices, eductors and other apparatus.

Perform a visual inspection of the condition of the trailer to include: tires, structural integrity, tongue and towing device.

Verify the required instruction plates are securely fastened to the unit and are readable.

Verify that the hose threads are compatible with local fire service threads and plant threads. Are adapters available, if required?

Units with onboard foam storage tanks: a sample of the foam concentrate will be obtained and sent to the manufacturer for analysis.

Perform an operational test of the foam unit utilizing water only to verify the proper operation of components. Use a measured amount of water, in a container to educt from, in order to test accuracy of the proportioning system.

It is the owner's responsibility to provide replacement foam upon completion of testing.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

PARTIAL SPRINKLER SYSTEM(S)

Page 1 of 1

These Standards of Performance provide minimum requirements relative to the Inspection and Functional Testing of Water-Based Fire Protection System equipment as specified in Addendum “C”. The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Quarterly

Scope:

The water flow switch (if provided) shall be tested with an actual water flow through the inspector’s test valve (if provided).

If a test valve is not provided, the flow switch shall be tested for electrical continuity and alarm bell operation by manually activating the switch.

Frequency: Annual

Scope:

A visual inspection of exposed system components will be performed from floor level to include: system piping for mechanical damage, loose hangers, external corrosion and leaks; sprinkler heads for visible mechanical damage, corrosion, painted, proper orientation, obstructed and/or loading.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

POST INDICATOR VALVE(S)

Page 1 of 1

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard may require more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Quarterly

Scope:

Each Post Indicator Valve(s) (PIV) and/or Wall Post Indicator Valve(s) (WPIV) shall be visually examined for condition, in normal open or closed position, and is properly sealed, locked, or supervised.

Each PIV / WPIV with a valve supervisory tamper switch shall be operated to determine if a distinctive signal of the supervisory switch indicates movement of the valve within the first two revolutions of the valve handle/hand wheel or when the valve stem has moved one-fifth of the distance from its normal position. The signal shall not be restored at any valve position except the normal position. The valve shall be fully opened until spring or torsion is felt in the rod and backed off one quarter turn to prevent jamming.

Frequency: Annual

Scope:

Each PIV / WPIV shall be lubricated and fully operated, counting the number of turns until fully closed.

Each PIV / WPIV will be reopened, counting the number of turns (equal to close turns) and shall be fully opened until spring or torsion is felt in the rod, indicating that the rod has not become detached from the valve and shall be backed one-quarter turn from the wide-open position to prevent jamming.

Each PIV / WPIV target indicators (open-close) will be inspected to verify proper alignment.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

PREACTION SYSTEM(S)

Page 1 of 2

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Quarterly

Scope:

Specified pre-action system valve(s) will be externally inspected to verify components are free from physical damage; trim valves are in appropriate open or closed position, gauges indicating supply water and supervisory air pressures being maintained, and valve seats not leaking.

The priming water will be inspected and adjusted to the proper level for the check valve installed in the preaction system riser.

The supervisory air for detection and/or system piping will be inspected for adequate pressure. (The air compressor will be inspected for: automatic operation; sufficient oil level; belt conditions and drain supply tank of condensation.)

The system supervisory air pressure switch (detection and/or piping) will be inspected to verify free from damage and tested for the operation of a supervisory signal.

Specified alarm devices will be inspected to verify they are free of physical damage.

The hydraulic data plate, if installed, shall be inspected to verify that it is securely attached to the riser and is legible.

The inspector's by-pass test valve will be utilized to test the operation of specified alarm devices.

A full flow test will be made utilizing the systems main drain (when possible and weather permitting). The observed pressure readings will be recorded on the flow test tag and inspection report form.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

PREACTION SYSTEM(S)

Page 2 of 2

Frequency: Annual

Scope:

A visual inspection of exposed system components will be performed from floor level to include: system piping for mechanical damage, loose hangers, external corrosion and leaks; sprinkler heads for visible mechanical damage, corrosion, painted, proper orientation, obstructed and/or loading.

The preaction and/or deluge valve will be trip tested with the system control valve partially open (3-4 turns), by opening the inspectors test connection valve (pilot line) and/or other means of actuation by varying detection methods. The clapper trip point (water) will be observed and recorded on trip test tag, preaction and/or deluge trip test report and inspection report form. After the valve has been tripped, we will internally inspect the following: interior condition, valve seat, clapper, latching device, and the velocity check valve. The observed conditions will be recorded on the trip test report. The valve will be reset and returned to normal condition.

Each specified, identified, and accessible auxiliary condensate low point drain (described in NFPA 25) will be drained during the annual inspection.

NOTE: The following services are required by code but are **NOT** included in this inspection agreement:

- A full flow test shall be conducted and the interval shall not exceed three years.
- Strainers, filters, restricted orifices and diaphragm chambers shall be inspected internally every five years unless testing indicates that a more stringent frequency is required.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

STANDPIPE AND HOSE SYSTEMS

Page 1 of 1

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Annual

Scope:

Each hose valve will be inspected to ensure the hand wheel is not broken or missing, outlets hose threads are not damaged, hose valve not leaking and hose gasket is in place.

The standpipe hose(s) will be inspected to ensure they have not been vandalized; that the nozzles are connected properly and not obstructed; free from rot, vermin, abrasion, mildew; and properly racked.

The standpipe hose(s) will be re-racked, taking care that folds do not occur in the same places. We will note the last hydrostatic test of the standpipe hose and record the service date on our inspection reports.

Note: Excluded services and tests:

- ***Standpipes and/or pressure reducing valves require flow testing at 5-year intervals.***
- ***Standpipe hose is required to be hydrostatically tested every 3 years.***
- ***Check valves are required to be internally inspected every 5-years.***

Eagle will provide this maintenance service at an additional cost when requested by the customer.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See *Supplementary Requirements and Special Instructions* for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection System

STANDPIPE SYSTEM(S)

Page 1 of 1

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Quarterly

Scope:

Pressure reducing valve(s) (if installed) shall be inspected to verify it is in the open position, hand wheel is installed and not broken, are maintaining downstream pressures, and are not leaking.

Frequency: Annual

Scope:

Perform a visual inspection of exposed system components from floor level to include: system piping for mechanical damage, loose hangers, external corrosion, and leaks.

Each hose valve and/or pressure reducing hose valve shall be inspected to ensure that the valve is free from any obstructions, hand wheel is not broken or missing, outlet threads are not damaged, gaskets are in place and not damaged or any deterioration, are not leaking and reducer and cap are in place.

Each Class I or Class III standpipe fire department hose valve will be opened and partially flushed to assure the valve moves from the seat.

Note: Flow testing of the standpipe system and/or pressure reducing valves, and hose valves, required to be performed at five year intervals, is NOT included as a part of this standard. This testing can be provided on an as needed basis, at an additional cost.

Note: Class II hose connections (hose valves on hose stations) are required to be opened, partially flushed, and closed every 3 years. This is NOT included as a part of this standard. This maintenance can be provided on an as needed basis, at an additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

EAGLE FIRE INC.
STANDARDS OF PERFORMANCE
Addendum D
Water-Based Fire Protection Systems

WET PIPE SYSTEM(S)

Page 1 of 1

These Standards of Performance provide minimum requirements relative to the inspection and functional testing of water-based fire protection system equipment as specified in Addendum "C". The NFPA 25 Standard requires more frequent inspection intervals than specified herein with their performance being the sole responsibility of the Subscriber.

Frequency: Quarterly and Semi-Annually

Scope:

Wet pipe system alarm valves and riser checks will be externally inspected to verify components are free from physical damage, trim valves are in appropriate open or closed position, gauges indicating supply water pressure being maintained, and retarding chambers or alarm drains are not leaking.

Alarm devices will be inspected to verify they are free of physical damage.

Wet pipe system(s) inspector's test valve(s) will be opened fully to simulate the operation of one sprinkler head to verify the activation of specified alarm devices.

The hydraulic data plate, if installed, shall be inspected to verify that it is securely attached to the riser and is legible.

A full flow test will be made utilizing the systems main drain (when possible and weather permitting). The observed pressure readings will be recorded on the flow test tag and inspection report form.

Frequency: Annual

Scope:

A visual inspection of exposed system components will be performed from floor level to include: system piping for mechanical damage, loose hangers, external corrosion and leaks; sprinkler heads for visible mechanical damage, corrosion, painted, proper orientation, obstructed and/or loading.

Note: Internal inspections of system check valves and system piping that are required to be performed by NFPA 25, at (5) five year intervals, are not included in this S.O.P. This is a maintenance item to be performed at an additional cost.

Noted deficiencies: These are maintenance items to be performed at an additional cost.

Note: See Supplementary Requirements and Special Instructions for further inspection details.

SPECIAL INSTRUCTIONS

- **Subscriber responsible for contacting the monitoring company and local fire department prior to and after all inspection and testing.**
- **Subscriber to provide one (1) person to assist Eagle Fires Technician for the duration of each inspection.** (Assist with access to areas for testing, acknowledge all signals received at the Fire Alarm panel and Annunciator, and communicate to technician while in the field)
- **Subscriber is responsible for notifying occupants prior to scheduled testing of the fire alarm notification appliances.** Annual testing of these appliances will need time allotted to verify each device for proper operation. This testing may need to be performed during off-normal working hours to avoid disturbance to occupants.
- **Subscribers with DRY type sprinkler systems (Including Deluge Systems) need to maintain system piping dry at all times.** Frequent draining of auxiliary LOW POINT condensate drains is strongly recommended to be performed prior to and during periods of freezing weather.
- **Subscribers with Fire Pump(s)-Fire Pumps** are required to be run weekly per NFPA 25. (Diesel Pumps - 30 min.; Electric Pumps - 10 min.)
The Subscriber shall provide to Eagle Fire, on site, a copy of all fire protection system(s) as-built drawings prior to performing inspections. All devices and equipment must be safely accessible at the time of scheduled inspection and testing.
- The Subscriber is responsible to provide an elevator technician to be present during the annual inspection of devices related to the elevator for power shunt and recall. These devices include smoke detectors for primary and alternate recall of elevator, heat detectors used to shunt power to elevator, and control relays provided to initiate the recall and shunt functions of the elevators. The annual inspection of these devices will be scheduled in advance to allow time for scheduling with your elevator service company. This testing may need to be scheduled and performed during off-normal working hours to avoid confusion with occupants during capture of elevators. (example - Early a.m. or after 5 p.m.)
- Inspection proposal is based on prearranged authorization to proceed. Return visits for the purpose of completing any inspection due to circumstances beyond Eagle Fire's control, not to exclude cancellation of the inspection once an Eagle Fire Technician has arrived, will result in additional costs. Subscriber cancellation requires 24-hour advance notice.

EAGLE FIRE INC.
Addendum G
Fire Protection Systems Agreement

SUPPLEMENTARY REQUIREMENTS

- The inspection reports will be completed and indicate the condition of the system at the time the inspection was performed. Pertinent test data will be included in these reports as required.
- Upon completion of the inspection our reports will be reviewed with the customer, owner and/or their appointed representative.
- As required by local ordinance, a copy of the inspection reports will be forwarded to the authority having jurisdiction.
- In jurisdictions requiring electronic inspection compliance reporting, additional fees will apply.
- Each specified life safety or fire protection system inspected will have the appropriate tags or labels affixed to system component indicating the services performed. This tag will contain, as a minimum, the date of the inspection and the technicians name.
- Each specified fire protection and life safety system will be inspected and functionally tested substantially in accordance with the applicable National Fire Protection Association Standards, the Manufacturer's instructions and local requirements.
- Trained and experienced fire protection technicians and/or specialist will perform each specified inspection and functional test. Their professional resume will be provided upon request.
- As the result of the inspection and functional test we have made recommendations based on our observations. These observations and/or recommendations made as the result of these inspections and functional test shall not be considered as an engineering review.
- Our technicians and/or specialist will observe Eagle Fire's Safety and Health Program during the performance of their work while in your facility or building.
- Eagle Fire's technicians and/or specialist are not responsible for identifying changes in occupancy, hazard, storage commodity, storage arrangement, building modifications, or other conditions that affect the original system design criteria of the fire protection systems they inspect or test. It is the owners and/or his appointed representative's responsibility to notify Eagle Fire in writing of these changes during the duration of this Fire Protection System Inspection Agreement. (EFI Form 409).

EAGLE FIRE INC.
Addendum F
State Fire Prevention Codes and Standards

Alabama

Page 1 of 2

The State of Alabama Fire Marshal's office has adopted The International Fire Code (IFC) (2021 Edition) and references the following NFPA standards as a base for inspection, testing and maintenance of fire protection systems. Inspections and functional testing performed by Eagle Fire are substantially in accordance with the applicable NFPA Standards referenced in our attached Standards of Performance, Addendum D, which are incorporated herein: * *The following referenced NFPA Standards can be obtained by visiting www.nfpa.org or by calling NFPA Customer Service at 800.344.3555.*

NFPA 10

2018

- *Portable Fire Extinguishers*

NFPA 11

2016

- *Low, Medium, and High Expansion Foam*

NFPA 12

2018

- *Carbon Dioxide Extinguishing Systems*

NFPA 12A

2018

- *Halon 1301 Fire Extinguishing Systems*

NFPA 13

2019

- *Installation of Sprinkler Systems*

NFPA 13D

2019

- *Installation of Sprinkler Systems in One and Two Protection Family Dwellings and Manufactured Homes*

NFPA 13R

2019

- *Low Rise Residential Occupancies*

NFPA 14

2019

- *Installation of Standpipe and Hose Systems*

NFPA 15

2017

- *Water Spray Fixed Systems for Fire Protection*

NFPA 16

2019

- *Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*

NFPA 17

2021

- *Dry Chemical Extinguishing Systems*

NFPA 17A

2021

- *Wet Chemical Extinguishing Systems*

NFPA 20

2019

- *Installation of Stationary Pumps for Fire*

NFPA 22

2018

- *Water Tanks for Private Fire Protection*

NFPA 24

2019

- *Installation of Private Fire Service Mains and their Appurtenances*

NFPA 25

2020

- *Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*

NFPA 70®

2020

- *National Electrical Code®*

NFPA 72

2019

- *National Fire Alarm Code*

NFPA 80

2019

- *Fire Doors and Fire Windows*

NFPA 101

2021

- *Life Safety Code®*

NFPA 2001

2018

- *Clean Agent Fire Extinguishing Systems*

References: <https://www.firemarshal.alabama.gov/PDF/FM-101r-2024.pdf>

Information contained in this document was provided by the listed agencies and Eagle Fire makes no claim as to their accuracy. (Revision 12/2025)

Georgia

Page 1 of 2

The State of Georgia is currently operating under the Rules and Regulations of The Safety Fire Commissioner. The Rules and Regulations refer to The International Fire Code (IFC) (2018 Edition) and National Fire Protection Association Standards (NFPA) by identification, effective date and title. Inspections and functional testing performed by Eagle Fire are substantially in accordance with the applicable NFPA Standards referenced in our attached Standards of Performance, Addendum D, which are incorporated herein: **The following referenced NFPA Standards can be obtained by visiting www.nfpa.org or by calling NFPA Customer Service at 800.344.3555.*

NFPA 10

2022

- *Portable Fire Extinguishers*

NFPA 11

2024

- *Low, Medium, and High Expansion Foam*

NFPA 12

2022

- *Carbon Dioxide Extinguishing Systems*

NFPA 12A

2022

- *Halon 1301 Fire Extinguishing Systems*

NFPA 13

2022

- *Installation of Sprinkler Systems*

NFPA 13D

2022

- *Installation of Sprinkler Systems in One and Two Protection Family Dwellings and Manufactured Homes*

NFPA 13R

2022

- *Low Rise Residential Occupancies*

NFPA 14

2024

- *Installation of Standpipe and Hose Systems*

NFPA 15

2022

- *Water Spray Fixed Systems for Fire Protection*

NFPA 16

2019

- *Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*

NFPA 17

2024

- *Dry Chemical Extinguishing Systems*

NFPA 17A

2024

- *Wet Chemical Extinguishing Systems*

NFPA 20

2022

- *Installation of Stationary Pumps for Fire*

NFPA 22

2023

- *Water Tanks for Private Fire Protection*

NFPA 24

2016

- *Installation of Private Fire Service Mains and their Appurtenances*

NFPA 25

2025

- *Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*

NFPA 70®

2023

- *National Electrical Code®*

NFPA 72

2022

- *National Fire Alarm Code*

NFPA 80

2022

- *Fire Doors and Fire Windows*

NFPA 101

2024

- *Life Safety Code®*

NFPA 2001

2022

- *Clean Agent Fire Extinguishing Systems*

References: State of Georgia Office of Insurance and Safety Fire Commissioner, Rules and Regulations of The Safety Fire Commissioner. All referenced codes adopted as modified by Rules and Regulations of the State of Georgia Chapter 120-3-3.

<https://oci.georgia.gov/inspections-permits-plans/buildings-fire-suppression-systems/rules-and-regulations>

Information contained in this document was provided by the listed agencies and Eagle Fire makes no claim as to their accuracy. (Revised 12/2025)

Maryland

Page 1 of 2

The State of Maryland is currently operating under NFPA 1 (2024 edition). This NFPA standard references additional National Fire Protection Association Standards and their applicable adopted editions. Inspections and functional testing performed by Eagle Fire are substantially in accordance with the applicable NFPA Standards referenced in our attached Standards of Performance, Addendum D, which are incorporated herein: * *The following referenced NFPA Standards can be obtained by visiting www.nfpa.org or by calling NFPA Customer Service at 800.344.3555.*

NFPA 10
2022

- *Portable Fire Extinguishers*

NFPA 14
2024

- *Installation of Standpipe and Hose Systems*

NFPA 11
2021

- *Low, Medium, and High Expansion Foam*

NFPA 15
2022

- *Water Spray Fixed Systems for Fire Protection*

NFPA 12
2022

- *Carbon Dioxide Extinguishing Systems*

NFPA 16
2015

- *Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*

NFPA 12A
2022

- *Halon 1301 Fire Extinguishing Systems*

NFPA 17
2024

- *Dry Chemical Extinguishing Systems*

NFPA 13
2022

- *Installation of Sprinkler Systems*

NFPA 20
2022

- *Installation of Stationary Pumps for Fire*

NFPA 13D
2022

- *Installation of Sprinkler Systems in One and Two Protection Family Dwellings and Manufactured Homes*

NFPA 13R
2022

- *Low Rise Residential Occupancies*

NFPA 22

2023

- *Water Tanks for Private Fire Protection*

NFPA 24

2022

- *Installation of Private Fire Service Mains and their Appurtenances*

NFPA 25

2023

- *Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*

NFPA 70®

2023

- *National Electrical Code®*

NFPA 72

2022

- *National Fire Alarm Code*

NFPA 80

2022

- *Fire Doors and Fire Windows*

NFPA 101

2024

- *Life Safety Code®*

NFPA 2001

2022

- *Clean Agent Fire Extinguishing Systems*

References: <https://mdsp.maryland.gov/firemarshal/Pages/CodeEnforcementLicensingRegulation.aspx>

Information contained in this document was provided by the listed agencies and Eagle Fire makes no claim as to their accuracy. (Revised 12/2025)

NORTH CAROLINA

Page 1 of 2

The State of North Carolina adopted and is currently operating under the North Carolina State Fire Prevention Code, 2018 edition, (referencing The International Fire Code (IFC) (2015 Edition) with North Carolina amendments). The North Carolina Code refers to additional National Fire Protection Association Standards (NFPA) by identification, effective date and title. Inspections and functional testing performed by Eagle Fire are substantially in accordance with the applicable NFPA Standards referenced in our attached Standards of Performance, Addendum D, which are incorporated herein: **The following referenced NFPA Standards can be obtained by visiting www.nfpa.org or by calling NFPA Customer Service at 800.344.3555.*

NFPA 10

2013

- *Portable Fire Extinguishers*

NFPA 11

2010

- *Low, Medium, and High Expansion Foam*

NFPA 12

2011

- *Carbon Dioxide Extinguishing Systems*

NFPA 12A

2009

- *Halon 1301 Fire Extinguishing Systems*

NFPA 13

2013

- *Installation of Sprinkler Systems*

NFPA 13D

2013

- *Installation of Sprinkler Systems in One and Two Protection Family Dwellings and Manufactured Homes*

NFPA 13R

2013

- *Low Rise Residential Occupancies*

NFPA 14

2013

- *Installation of Standpipe and Hose Systems*

NFPA 15

2012

- *Water Spray Fixed Systems for Fire Protection*

NFPA 16

2015

- *Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*

NFPA 17

2013

- *Dry Chemical Extinguishing Systems*

NFPA 17A

2013

- *Wet Chemical Extinguishing Systems*

NFPA 20

2013

- *Installation of Stationary Pumps for Fire*

NFPA 22

2013

- *Water Tanks for Private Fire Protection*

NFPA 24

2013

- *Installation of Private Fire Service Mains and their Appurtenances*

NFPA 25

2014

- *Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*

NFPA 70®

2014

- *National Electrical Code®*

NFPA 72

2013

- *National Fire Alarm Code*

NFPA 80

2013

- *Fire Doors and Fire Windows*

NFPA 101

2015

- *Life Safety Code®*

NFPA 2001

2015

- *Clean Agent Fire Extinguishing Systems*

References: <https://codes.iccsafe.org/content/NCFC2018>

Information contained in this document was provided by the listed agencies and Eagle Fire makes no claim as to their accuracy. (Revised 6/22)

SOUTH CAROLINA

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The South Carolina Department of Labor, Licensing and Regulation, Division of Fire and Life Safety, and Office of State Fire Marshal and the State of South Carolina has adopted and updated as of January 1, 2023, by state law or regulation, individually and as referenced in the International Fire Code (2021), the NFPA Standards. The State of South Carolina has adopted (SCRR & LAW) or referenced National Fire Protection Association Standards (NFPA) by identification, effective date and title. Inspections and functional testing performed by Eagle Fire are substantially in accordance with the applicable NFPA Standards referenced in our attached Standards of Performance, Addendum D, which are incorporated herein: **The following referenced NFPA Standards can be obtained by visiting www.nfpa.org or by calling NFPA Customer Service at 800.344.3555.*

NFPA 10
2018

- *Portable Fire Extinguishers*

NFPA 11
2016

- *Low, Medium, and High Expansion Foam*

NFPA 12
2018

- *Carbon Dioxide Extinguishing Systems*

NFPA 12A
2018

- *Halon 1301 Fire Extinguishing Systems*

NFPA 13
2019

- *Installation of Sprinkler Systems*

NFPA 13D
2019

- *Installation of Sprinkler Systems in One and Two Protection Family Dwellings and Manufactured Homes*

NFPA 13R
2019

- *Low Rise Residential Occupancies*

NFPA 14
2019

- *Installation of Standpipe and Hose Systems*

NFPA 15
2017

- *Water Spray Fixed Systems for Fire Protection*

NFPA 16
2019

- *Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*

NFPA 17
2021

- *Dry Chemical Extinguishing Systems*

NFPA 17A
2021

- *Wet Chemical Extinguishing Systems*

NFPA 20
2019

- *Installation of Stationary Pumps for Fire*

NFPA 22

2018

- *Water Tanks for Private Fire Protection*

NFPA 24

2019

- *Installation of Private Fire Service Mains and their Appurtenances*

NFPA 25

2020

- *Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*

NFPA 70®

2020

- *National Electrical Code®*

NFPA 72

2019

- *National Fire Alarm Code*

NFPA 80

2019

- *Fire Doors and Fire Windows*

NFPA 101

2021

- *Life Safety Code®*

NFPA 2001

2018

- *Clean Agent Fire Extinguishing Systems*

References: <https://llr.sc.gov/bcc/pdf/files/SC-Code-Adoption-Notice.pdf>

All codes referenced herein are adopted as modified by the state of South Carolina.

Information contained in this document was provided by the listed agencies and Eagle Fire makes no claim as to their accuracy. (Revision 12/2025)

The State of Tennessee Department of Commerce and Insurance is currently operating under International Fire Code (2012 edition). This NFPA standard references additional National Fire Protection Association Standards and their applicable adopted editions. Inspections and functional testing performed by Eagle Fire are substantially in accordance with the applicable NFPA Standards referenced in our attached Standards of Performance, Addendum(s) D, which are incorporated herein: * *The following referenced NFPA Standards can be obtained by visiting www.nfpa.org or by calling NFPA Customer Service at 800.344.3555.*

NFPA 10
2010

- *Portable Fire Extinguishers*

NFPA 11
2010

- *Low, Medium, and High Expansion Foam*

NFPA 12
2009

- *Carbon Dioxide Extinguishing Systems*

NFPA 12A
2009

- *Halon 1301 Fire Extinguishing Systems*

NFPA 13
2010

- *Installation of Sprinkler Systems*

NFPA 13D
2010

- *Installation of Sprinkler Systems in One and Two Protection Family Dwellings and Manufactured Homes*

NFPA 13R
2010

- *Low Rise Residential Occupancies*

NFPA 14
2010

- *Installation of Standpipe and Hose Systems*

NFPA 15
2010

- *Water Spray Fixed Systems for Fire Protection*

NFPA 16
2011

- *Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*

NFPA 17
2009

- *Dry Chemical Extinguishing Systems*

NFPA 17A
2009

- *Wet Chemical Extinguishing Systems*

NFPA 20
2010

- *Installation of Stationary Pumps for Fire*

NFPA 22

2008

- *Water Tanks for Private Fire Protection*

NFPA 24

2010

- *Installation of Private Fire Service Mains and their Appurtenances*

NFPA 25

2011

- *Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*

NFPA 70®

2011

- *National Electrical Code®*

NFPA 72

2010

- *National Fire Alarm Code*

NFPA 80

2010

- *Fire Doors and Fire Windows*

NFPA 101

2012

- *Life Safety Code®*

NFPA 2001

2012

- *Clean Agent Fire Extinguishing Systems*

References: https://www.tn.gov/content/dam/tn/commerce/documents/fire_prevention/posts/2020-4-12_sfmo-code-adoption-and-history.pdf

Information contained in this document was provided by the listed agencies and Eagle Fire makes no claim as to their accuracy. (Revision 12/2025)

VIRGINIA

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The State of Virginia adopted and is currently operating under the Virginia Statewide Fire Prevention Code (2021 edition). The Virginia Statewide Fire Prevention Code, through the International Fire Code (IFC) (2021 edition) references additional standards, such as the National Fire Protection Association Standards (NFPA) and its applicable dates for individual standards. Inspections and functional testing performed by Eagle Fire are substantially in accordance with the applicable NFPA Standards referenced in our attached Standards of Performance, Addendum D, which are incorporated herein: * *The following referenced NFPA Standards can be obtained by visiting www.nfpa.org or by calling NFPA Customer Service at 800.344.3555.*

NFPA 10

2018

- *Portable Fire Extinguishers*

NFPA 11

2016

- *Low, Medium, and High Expansion Foam*

NFPA 12

2018

- *Carbon Dioxide Extinguishing Systems*

NFPA 12A

2018

- *Halon 1301 Fire Extinguishing Systems*

NFPA 13

2019

- *Installation of Sprinkler Systems*

NFPA 13R

2019

- *Low Rise Residential Occupancies*

NFPA 14

2019

- *Installation of Standpipe and Hose Systems*

NFPA 15

2017

- *Water Spray Fixed Systems for Fire Protection*

NFPA 16

2019

- *Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*

NFPA 17

2021

- *Dry Chemical Extinguishing Systems*

NFPA 17A

2021

- *Wet Chemical Extinguishing Systems*

NFPA 20

2019

- *Installation of Stationary Pumps for Fire*

NFPA 22

2018

- *Water Tanks for Private Fire Protection*

NFPA 24

2019

- *Installation of Private Fire Service Mains and their Appurtenances*

NFPA 25

2020

- *Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*

NFPA 70®

2020

- *National Electrical Code®*

NFPA 72

2019

- *National Fire Alarm Code*

NFPA 80

2019

- *Fire Doors and Fire Windows*

NFPA 101

2021

- *Life Safety Code®*

NFPA 2001

2018

- *Clean Agent Fire Extinguishing Systems*

References: <https://codes.iccsafe.org/content/VAFC2021P1>

Information contained in this document was provided by the listed agencies and Eagle Fire makes no claim as to their accuracy. (Revision 12/2025)

WEST VIRGINIA

Page 1 of 2

The State of West Virginia adopted and is currently operating under the West Virginia State Fire Code (2024 edition). The West Virginia Statewide Fire Prevention Code, through the National Fire Protection Association (NFPA) NFPA 1 (2021 edition) references additional standards and its applicable dates for individual standards. Inspections and functional testing performed by Eagle Fire are substantially in accordance with the applicable NFPA Standards referenced in our attached Standards of Performance, Addendum D, which are incorporated herein: * *The following referenced NFPA Standards can be obtained by visiting www.nfpa.org or by calling NFPA Customer Service at 800.344.3555.*

NFPA 10
2018

- *Portable Fire Extinguishers*

NFPA 11
2016

- *Low, Medium, and High Expansion Foam*

NFPA 12
2018

- *Carbon Dioxide Extinguishing Systems*

NFPA 12A
2018

- *Halon 1301 Fire Extinguishing Systems*

NFPA 13
2019

- *Installation of Sprinkler Systems*

NFPA 13D
2019

- *Installation of Sprinkler Systems in One and Two Protection Family Dwellings and Manufactured Homes*

NFPA 13R
2019

- *Low Rise Residential Occupancies*

NFPA 14
2019

- *Installation of Standpipe and Hose Systems*

NFPA 15
2017

- *Water Spray Fixed Systems for Fire Protection*

NFPA 16
2019

- *Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*

NFPA 17
2021

- *Dry Chemical Extinguishing Systems*

NFPA 17A
2021

- *Wet Chemical Extinguishing Systems*

NFPA 20
2019

- *Installation of Stationary Pumps for Fire*

NFPA 22

2018

- *Water Tanks for Private Fire Protection*

NFPA 24

2019

- *Installation of Private Fire Service Mains and their Appurtenances*

NFPA 25

2020

- *Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems*

NFPA 70®

2020

- *National Electrical Code®*

NFPA 72

2019

- *National Fire Alarm Code*

NFPA 80

2019

- *Fire Doors and Fire Windows*

NFPA 101 - Adopted in full under West Virginia Fire Code

2021

- *Life Safety Code®*

NFPA 2001

2018

- *Clean Agent Fire Extinguishing Systems*

References: <https://firemarshal.wv.gov/laws>

Information contained in this document was provided by the listed agencies and Eagle Fire makes no claim as to their accuracy. (Revision 12/2025)