

FIRE PROTECTION SYSTEMS AND EQUIPMENT INSPECTION, TESTING, AND MAINTENANCE

## FREQUENCY CHART

FIRE SPRINKLER SYSTI		NEDA (SIDE COSTO	FIRE ALARM SYSTEMS		ALEDA /ELE ELECTION
ACTIVITY	FREQUENCY	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR	ACTIVITY	FREQUENCY	NFPA/FIRE CODE REFERENCI  & EFFECTIVE YEAR
Visual Inspection (e.g., system pressure, check	Quarterly Can be performed by staff	NFPA 25 (13.3.2.1) NFPA 25 (5.3.2)	<u>Verify No Troubles</u> (e.g., check the lights on the	Weekly Can be performed by staff	NFPA 72 14.3.1 & 14.3.4
gauges, rusting components, evidence of a leak, damage, etc.)		2017	panel, supervisory signals weekly, etc.)	Report any change in status of the panel immediately	2016
Complete NFPA 25 Inspection	Annually	Phoenix Fire Code	Annual Inspection	Annually	NFPA 72 14.3.1 & 14.3.4
e.g., water flow, valve activation, etc.)	Contractor conducts inspection	Section 901.6 2012	Test all connected devices (e.g., smoke detectors, heat detectors, batteries, circuits,	Contractor conducts inspection	2016
5-Year Inspection	<u>5-Years</u>	NFPA 25	etc.)		
e.g., internal valve and pipe, heck all valve covers and branch lines for corrosion,	Contractor conducts inspection	Chapter 15			
etc.)		2017			
COMMERCIAL HOOD	FIRE SUPPRESSION		<b>EMERGENCY POWER</b>	GENERATORS	
ACTIVITY	FREQUENCY	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR	ACTIVITY	FREQUENCY	NFPA/FIRE CODE REFERENC & EFFECTIVE YEAR
/isual Inspection	Weekly	IFC Table 609.3.3.1	<u>Visual Inspection</u>	<u>Weekly</u>	NFPA 110 8.4.1, NFPA 111
e.g., make sure caps are in place, check system pressure,	Can be performed by staff	2016	If the generator is required by the Fire Code (e.g., City Hall,	Can be performed by staff	8.4.1, IFC 604.3, & IBC 2702
etc.)			Phoenix Convention Center, etc.)		NFPA 2010 IFC/IBC 2012
Maintenance and Cleaning	Depends on frequency of use,	IFC Table 609.3.3.1	Generator Test	Monthly	NFPA 110 8.4.1, NFPA 111
Failure to conduct	every 6-months typical, 3- months for heavy use,	2012	(e.g., run generator, check fluids and fuel, etc.)	Can be performed by staff (included fueling of	8.4.1, IFC 604.3, & IBC 2702
maintenance and cleaning will	annually for low use (e.g.,	2012	nuids and ruel, etc.)	generator)	NFPA 2010
result in a fire	hood systems in senior centers, seasonal facilities, etc.)			·	IFC/IBC 2012
Semiannual Inspection	Every 6-months	IFC Table 609.3.3.1	Load Testing	Annually	NFPA 110 8.4.1, NFPA 111
	Contractor conducts	2012	Testing of generator under	Can be performed by staff	8.4.1, IFC 604.3, & IBC 2702
Commercial Hood System	inspection Annually	2012 IFC Table 609.3.3.1	significant electrical load (e.g., elevators, escalators,		NFPA 2010
est	Contractor conducts test	2012	emergency lighting, etc.)		IFC/IBC 2012
en-Year Hydrostatic Test	Every Ten-Years	IFC Table 609.3.3.1			
	Contractor conducts test (replacing the agent tank is an	2012			
	acceptable alternative)		ELEVATORS & ESSALA		
FIRE PUMPS	EDECHENCY	NEDA /FIDE CODE DEFEDENCE	ELEVATORS & ESCALA		NEDA/EIDE CODE DEFEDENC
ACTIVITY	FREQUENCY	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR	ACTIVITY	FREQUENCY	NFPA/FIRE CODE REFERENC & EFFECTIVE YEAR
Run Test	Monthly	NFPA 25 8.3.1.1 & 8.3.1.2	Elevator and Escalator	Annually	ASME A17.1
lectrical pumps run for 10 ninutes	minutes  Can be performed by staff	2017	<u>Inspection</u>	Contractor conducts inspection	
Diesel pumps run for 30	can be performed by stair	2017		mapeedion	
ire Pump Maintenance	Annually	NFPA 25 8.5			
Manufacturers Guidelines & Innual Flow Test	Contractor conducts inspection and test	2017			
			SPECIAL AGENT EXTIN	IGUISHING SYSTEMS	
PRE-ACTION SPRINKLER SYSTEM (the content below is in addition to that for fire sprinkler systems above)					
prinkler systems above)			EM 200 SYSTEM		
prinkler systems above)  ACTIVITY	FREQUENCY	NFPA/FIRE CODE REFERENCE	FM 200 SYSTEM  ACTIVITY	FREQUENCY	NFPA/FIRE CODE REFERENCE
ACTIVITY	FREQUENCY	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR	ACTIVITY		& EFFECTIVE YEAR
ACTIVITY  /isual Inspection	FREQUENCY  Monthly	NFPA/FIRE CODE REFERENCE		Semiannual	
ACTIVITY <u>'isual Inspection</u> Check for system changes e.g., valves, air pressure,	FREQUENCY	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR	ACTIVITY		& EFFECTIVE YEAR
ACTIVITY  /isual Inspection Check for system changes e.g., valves, air pressure, corrosion, etc.)  Dpen & Prime Water Level	FREQUENCY  Monthly	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR NFPA 25 13.4.3.1.3	ACTIVITY	Semiannual Contractor conducts	& EFFECTIVE YEAR
Visual Inspection Check for system changes e.g., valves, air pressure, corrosion, etc.) Open & Prime Water Level Service	FREQUENCY  Monthly Can be performed by staff  Quarterly Contractor conducts this service	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR NFPA 25 13.4.3.1.3 2017 NFPA 25 13.4.3.2.1 2017	ACTIVITY  Semiannual Inspection	Semiannual Contractor conducts inspection Annually	& EFFECTIVE YEAR NFPA 2001 7.1.3
ACTIVITY  /isual Inspection Check for system changes e.g., valves, air pressure, corrosion, etc.) Open & Prime Water Level	FREQUENCY  Monthly Can be performed by staff  Quarterly Contractor conducts this	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR NFPA 25 13.4.3.1.3 2017 NFPA 25 13.4.3.2.1	ACTIVITY  Semiannual Inspection	Semiannual Contractor conducts inspection  Annually Contractor conducts	NFPA 2001 7.1.3
ACTIVITY  'isual Inspection  check for system changes e.g., valves, air pressure, orrosion, etc.)  Open & Prime Water Level ervice  rip Test 'aries as to the extent of the	FREQUENCY  Monthly Can be performed by staff  Quarterly Contractor conducts this service Annually	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR NFPA 25 13.4.3.1.3 2017 NFPA 25 13.4.3.2.1 2017	ACTIVITY  Semiannual Inspection  Annual Inspection	Semiannual Contractor conducts inspection  Annually Contractor conducts	& EFFECTIVE YEAR NFPA 2001 7.1.3
ACTIVITY  /isual Inspection Check for system changes e.g., valves, air pressure, corrosion, etc.)  Open & Prime Water Level iervice  //rip Test //aries as to the extent of the ystems size and complexity	FREQUENCY  Monthly Can be performed by staff  Quarterly Contractor conducts this service Annually Contractor conducts	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR NFPA 25 13.4.3.1.3 2017 NFPA 25 13.4.3.2.1 2017 NFPA 25 13.4.5.2.4 2017	ACTIVITY  Semiannual Inspection	Semiannual Contractor conducts inspection  Annually Contractor conducts	& EFFECTIVE YEAR NFPA 2001 7.1.3
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ACTIVITY  Visual Inspection Check for system changes e.g., valves, air pressure, orrosion, etc.) Open & Prime Water Level vervice  Varies as to the extent of the ystems size and complexity  SPECIAL EXTINGUISH  ACTIVITY  Visual Inspection e.g., check valves, power, vanel, system changes, etc.) Annual Inspection Note: Every FM 200, Halon, or	FREQUENCY  Monthly Can be performed by staff  Quarterly Contractor conducts this service Annually Contractor conducts inspection & test  NG ALARM DETECTION FREQUENCY  Monthly Can be performed by staff  Annually Contractor conducts	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR NFPA 25 13.4.3.1.3  2017  NFPA 25 13.4.3.2.1  2017  NFPA 25 13.4.5.2.4  2017  NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR NFPA 72 Table 14.3.1  2016  NFPA 72 Table 14.3.1	ACTIVITY  Semiannual Inspection  Annual Inspection  PLEASE NOTE  This list is not all inclusive. In approving any inspection, te applicable referenced standa evidenced in that the inspection Systems specin NFPA 72 are very detailed	Semiannual Contractor conducts inspection  Annually Contractor conducts inspection  andividuals responsible for consting or maintenance are endered to ensure all requisite ite tion, testing, and maintenancified in NFPA 25 and those response to the stressed to additionally, it is stressed to the stress	& EFFECTIVE YEAR  NFPA 2001 7.1.3  NFPA 2001 7.1.3  NFPA 2001 7.1.3  nducting, reviewing or couraged to review the ms are addressed. This is ce criteria for Water Based elating to Fire Alarm System hat all inspection, testing an
ACTIVITY  Tisual Inspection Theck for system changes e.g., valves, air pressure, orrosion, etc.) Open & Prime Water Level ervice  Trip Test Taries as to the extent of the systems size and complexity  SPECIAL EXTINGUISH  ACTIVITY  Tisual Inspection e.g., check valves, power, tanel, system changes, etc.) Innual Inspection Iote: Every FM 200, Halon, or aseous extinguishment	FREQUENCY  Monthly Can be performed by staff  Quarterly Contractor conducts this service Annually Contractor conducts inspection & test  NG ALARM DETECTION FREQUENCY  Monthly Can be performed by staff  Annually	NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR  NFPA 25 13.4.3.1.3  2017  NFPA 25 13.4.3.2.1  2017  NFPA 25 13.4.5.2.4  2017  NFPA/FIRE CODE REFERENCE & EFFECTIVE YEAR  NFPA 72 Table 14.3.1  2016	ACTIVITY  Semiannual Inspection  Annual Inspection  PLEASE NOTE  This list is not all inclusive. In approving any inspection, te applicable referenced standa evidenced in that the inspection Fire Protection Systems specin NFPA 72 are very detailed maintenance work be thorough.	Semiannual Contractor conducts inspection  Annually Contractor conducts inspection  andividuals responsible for consting or maintenance are endered to ensure all requisite ite tion, testing, and maintenance ified in NFPA 25 and those read to detail the stressed toghly documented, and that	& EFFECTIVE YEAR  NFPA 2001 7.1.3  NFPA 2001 7.1.3  NFPA 2001 7.1.3  nducting, reviewing or couraged to review the ms are addressed. This is ce criteria for Water Based elating to Fire Alarm System hat all inspection, testing an
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Fire detection, alarm, and extinguishing systems, smoke management systems, mechanical smoke exhaust systems, and smoke and heat vents shall be maintained in an operative condition at all times, and shall be replaced or repaired where defective. All fire protection systems shall be inspected and tested annually by a contractor licensed by the State of Arizona who has a current business certificate issued by the Phoenix Fire Department to work on the particular fire protection system being inspected or tested. See Section 105.3.1. It shall be the responsibility of the owner to ensure that these requirements are met. Non-required fire protection systems and equipment shall be inspected, tested and maintained in accordance with Table 901.6.1 or removed.

## Smoke management/control 909.20.3 testing.

Operational testing of the smoke control system shall include all equipment such as initiating devices, fans, dampers, controls, doors and windows.

## 909.20.4 Dedicated smoke control systems.

Dedicated smoke control systems shall be operated for each control sequence semiannually. The system shall also be tested under standby power conditions.

## $\underline{909.20.5\ Nondedicated\ smoke\ control\ systems}.$

Non-dedicated smoke control systems shall be operated for each control sequence annually. The system shall also be tested under standby power conditions.