Utility Procedure: TD-4430P-02

Publication Date: 6/21/2010

Expectations

1. Perform station inspection, testing, and maintenance work and correct minor issues encountered.

Station Fire Protection Systems/Equipment Routine

- 2. Log issues and associated corrections in the Station Log Book.
- 3. If any issues need additional action, submit a work request and make a note under "Comments."
- 4. Complete the appropriate forms with each station visit and submit them to the appropriate supervisor.
- 5. Keep records on site for a minimum of 5 years.

The California Fire Code (invoked as law under <u>Titles 19 and 24</u> to the <u>California Code of Regulations</u>) requires that various inspection, testing, and maintenance (IT&M) activities be performed on fire protection equipment and systems. The frequencies and requirements for these IT&M activities are contained in the National Fire Protection Association (NFPA) standards listed in Table 1 below.

Table 1. NFPA Standards

Fire Protection System or Equipment	NFPA Reference
Portable fire extinguishers	10
Foam extinguishing systems	1 1
Carbon dioxide extinguishing systems	12
Automatic halon extinguishing systems	1 2A
Sprinkler systems	1 3
Standpipe and hose	14
Water spray systems	15
Fire pumps	20
Water storage tanks	22
Water mains and hydrants	24
IT&M of water based systems	25
Detection and alarm systems	72
Clean agent (gaseous) systems	2001

The requirements and frequencies for the various IT&M activities from the documents listed above are summarized in the tables on the following pages.

Note: Activities that must be conducted by a qualified vendor licensed in the State of California are identified with an asterisk (*).

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Table 2. Monthly Inspections

System or Equipment	Sat.	Unsat.	Corrections?
Portable Fire Extinguishers			
General fire extinguisher inspection:	,	.;	
 Check the extinguisher to ensure that it is fully charged (i.e., pressure 			
indicator is in the green zone) and in good overall condition.			
 Check for obvious signs of physical damage (e.g., broken parts, cracked hose), corrosion, leakage, or prior use (i.e., broken seals or missing pins). 			
 Portable extinguishers must be readily visible (or indicated by signs). 			
accessible, and properly mounted in their designated locations.			
 Check the last service date. Log on the extinguisher tag the date of 			
inspection and employee's name or LAN ID.			
 If damaged or otherwise found deficient, replace the extinguisher with an equivalent spare. Note any abnormal conditions found. 			
Hydrants, Hose Stations (Hose Houses), Fire Department Connections			
Visually check the general condition of hydrants, hose stations, and fire			***************************************
department connections for obvious signs of damage and that access is free of obstructions.			
Visually check that hose houses contain the required equipment (e.g., hose,			
nozzles, wrench, adapters/fittings) and are free of damage.		<u> </u>	
Sprinkler Systems (Wet Pipe, Ory Pipe, Pre-Action, and Water Spray)			
Verify that all system gauges are in good condition, and that system pressure is being maintained.			
Verify that control valves are in the proper positions, and that access to the valves is free of obstructions (approximately 3-foot [ft] clearance).			
Visually check that alarm devices (e.g., horns/bells) are in good condition.			
Fire Water Supplies (Pumps, Tanks, Feed from Public Main)			
Verify that all water supply control valves are secured open (i.e., by chains,			
seals, or (amper switches).			
Verify that fire pumps start automatically on low pressure.			
Detection (Smoke, Heat, UV/IR) and Alarms			
Verify that the fire alarm control panel (FACP) is in "normal-ready" mode.			
Inspect the back-up battery for signs of corrosion.			
Other Fire Extinguishing Systems (Hi-Ex Foam, Gaseous)			
Verify that all system components are in good condition, and the system is in normal mode.			
Refer to the manufacturer's instructions for additional requirements/guidance.			

Date.	Name.
Comments:	

Gas Station Facilities Inspection, Testing, and Maintenance Procedures, Attachment 6

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Table 3. Quarterly Inspections

System or Equipment	Sat.	Unsat.	Corrections?
Portable Fire Extinguishers			
No additional requirements beyond the monthly inspections.			
Hydrants, Hose Stations (Hose Houses), Fire Department Connections			
No additional requirements beyond the monthly inspections.			
Sprinkler Systems (Wat Pipe, Ory Pipe, Pre-Action, and Water Spray)			
Verify that sprinkler heads/spray nozzles are in good condition and that there are no obstructions (18-inch clearance) that could affect their spray pattern.			
Check the stock of spare sprinklers (orifice size and temperature rating).			
Fire Water Supplies (Pumps, Tanks, Feed from Public Main)			
No additional requirements beyond the monthly inspections.			
Detection (Smoke, Heat, UV/IR) and Alarms			
No additional requirements beyond the monthly inspections.			
Other Fire Extinguishing Systems (Hi-Ex Foam, Gaseous)			
* Have each system serviced semi-annually by a qualified vendor, or as specified in accordance with the manufacturer's instructions.			

^{*} Note: These activities must be conducted by a state-qualified vendor.

Date:	Name:
Comments:	

Utility Procedure: TD-4430P-02
Publication Date: 6/21/2010

Table 4. Annual Inspection, Test and Maintenance

Have each portable extinguisher serviced by a qualified vendor. tydrants, Hoss Stations (Hoss Hosse), Fire Department Connections FDCs) Remove caps on hydrants and FDCs to ensure the pipe is free of betructions. Perily that hose rack/reel and nozzles operate smoothly. Remove the hose from the rack and check for mildew, cuts, abrasions, and their indication of deterioration. Re-rack the hose to ensure there are no inks. //erify the hose hydrostatic test date (within 3-years) and service pressure. //prify the hose hydrostatic test date (within 3-years) and service pressure. //prify the hose hydrostatic test date (within 3-years) and service pressure. //prify the hose hydrostatic test date (within 3-years) and service pressure. //prify the hose hydrostatic test date (within 3-years) and service pressure. //prify the time inspector's test valve to verify that local and remote water flow laterns activate within 90 seconds. // rest all tamper switches or supervisory devices for receipt of trouble signals. // conduct a main drain test to verify the availability of adequate pressure record static and residual pressures). // refer water spray and pre-action valves. // refer water spray and pre-action valves. // refer water spray and pre-action valves. // refer water supplies (Pumps, Tanks, Feed from Public Main) // conduct a fire pump test, and verify the pump operates within the pump curve. // cycle water supply and ensure proper operation of isolation valves. // calibrate (sensitivity test) detectors in accordance with the manufacturer's instructions. // refer the inspiration of the detectors in accordance with the manufacturer's instructions. // refer that alarm signals (trouble and fire) are being monitored. // Public Fire fixtinguishing &yekens (Hi-tix Foam), Giscoous) // Public Fire Fixtinguishing &yekens (Hi-tix Foam), Giscoous) // refer that alarm signals (trouble and fire) are being monitored. // Public Fire Fixtinguishing fixting Barriers // Review the facility is Fire Pre-Plans (if	System or Equipment	Şat.	Unsat.	Corrections?
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Review the facility's Fire Pre-Plans (if it exists) to ensure the plans represent he existing conditions of the facility. Contact the Operations Specialists is updates are needed. Inspect "critical" barriers (as noted on the Fire Pre-Plans) to ensure the integrity of the barriers are intact (i.e., penetrations sealed, doors properly atch) to prevent propagation of fire or smoke. Contact Station Engineering if epairs are needed. Inspect "Contact Station Engineering if epairs are needed." Inspect "Contact Station Engineering if epairs are needed. Inspect "Contact Station Engineering if epairs are needed." Inspect "Contact Station Engineering if epairs are needed. Inspect "Contact Station Engineering if epairs are needed."	* Have each system serviced semi-annually by a qualified vendor, or as specified in accordance with the manufacturer's instructions.		- HONORONO DE PORTO DE LOS DELOS DE LOS DELOS DE LOS DELOS DE LOS DE LOS DE LOS DE LOS DELOS	
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ntegrity of the barriers are intact (i.e., penetrations sealed, doors properly atch) to prevent propagation of fire or smoke. Contact Station Engineering if epairs are needed. Note: These activities must be conducted by a state-qualified vendor. Date: Name:	Review the facility's Fire Pre-Plans (if it exists) to ensure the plans represent the existing conditions of the facility. Contact the Operations Specialists is updates are needed.			
Date: Name:	Inspect "critical" barriers (as noted on the Fire Pre-Plans) to ensure the integrity of the barriers are intact (i.e., penetrations sealed, doors properly latch) to prevent propagation of fire or smoke. Contact Station Engineering if repairs are needed.			
	* Note: These activities must be conducted by a state-qualified ve	endor.		
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Utility Procedure: TD-4430P-02
Publication Date: 6/21/2010

Table 5. 5-Year Service/Test

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		Sat. Unsa				

^{*} Note: These activities must be conducted by a state-qualified vendor.

Date:	Name:
Comments:	

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