Water Mist Systems

Inspection, Testing, and Maintenance of Water Mist Systems

Nar	ne of F	rop	erty:		Inspector:	
Add	dress:					Contract No.:
Pho	ne Nu	mbe	er:			Date:
Thi	s Repo	rt C	overs	: [☐ Mc	onthly 🗌 Quarterly 🗌 Annual
				[_ Ot	her
Ins	pectio	ons				
Мо	nthly					
	Yes		No		N/A	Water storage tank—sight glass valves are open
	Yes		No		N/A	Water circulation tank—water level is full (unsupervised)
						Compressed Gas Cylinders
	Yes		No		N/A	Cylinder pressure psi (bar) unsupervised
	Yes		No		N/A	Cylinder control valve is open
	Yes		No		N/A	Plant air, compressor, and receiver (supervised)
						Air pressure psi (bar)
						Standby Pump
	Yes		No		N/A	Compressed gas supply inlet air pressure psi (bar)
						Outlet water pressure psi (bar)
						Pneumatic Valves
	Yes		No		N/A	Cylinder valves in correct (open or closed) position
	Yes		No		N/A	Master release valves in correct (open or closed position)
						System Control Valves
	Yes		No		N/A	In the correct (open or closed) position
	Yes		No		N/A	Sealed, locked, or supervised
	Yes		No		N/A	Accessible
	Yes		No		N/A	Free from damage or leaks
	Yes		No		N/A	Proper signage
						Nozzles
	Yes		No		N/A	In place, pointed in the intended direction, and free from external loading and corrosion
	Yes	П	No		N/A	Blow-off cap (if required) in place and free to operate

					Fire Pumps—Electrical Systems
	Yes		No	N/A	Exercise isolating switch
	Yes		No	N/A	Circuit breakers and circuit breaker fuses
					Fire Pumps—Battery Systems
	Yes		No	N/A	Remote corrosion, case clean and dry
	Yes		No	N/A	Specific gravity/state or charge
	Yes		No	N/A	Charter/charge rate
	Yes		No	N/A	Equalize charge
Qua	arterly				
	Yes		No	N/A	Water supply pressure psi
	Yes		No	N/A	Water storage tank—water level is full
	Yes		No	N/A	Water tank pressure psi
	Yes		No	N/A	Water storage cylinder (high pressure) water level is full (unsupervised)
	Yes		No	N/A	Additive storage cylinder general condition
	Yes		No	N/A	Water recirculation tank—water level is full (supervised)
	Yes		No	N/A	Compressed gas cylinder support frame and restraints
	Yes		No	N/A	Compressed gas cylinder pressure psi
	Yes		No	N/A	Moisture trap and oil injection in good condition
	Yes		No	N/A	Release valve tubing in good condition
					Pipe and Fittings
	Yes		No	N/A	Free of mechanical damage
	Yes		No	N/A	Missing or damaged paint or coatings
	Yes		No	N/A	Free of corrosion or rust
	Yes		No	N/A	Misalignment or trapped sections
	Yes		No	N/A	Low point drains not damaged or corroded
Ser	ni-annı	ual			
	Yes		No	N/A	Water supply source in good condition
	Yes		No	N/A	Water tank valves and appurtenances in good condition
	Yes		No	N/A	Water storage cylinder is full
	Yes		No	N/A	Additive agent level is full
	Yes		No	N/A	Air compressor/receiver capacity checked
	Yes		No	N/A	Enclosure integrity verified
Anı	nual				
	Yes		No	N/A	Water supply source in good condition
	Yes		No	N/A	Interior of water tank inspected

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	Yes		No		N/A	Water quality checked
	Yes		No		N/A	Water temperature °F (°C)
						High-Pressure Water Storage Cylinder
	Yes		No		N/A	Support frame/restraints in good condition
	Yes		No		N/A	Vent plugs function during refiring
	Yes		No		N/A	Filters on refill connection in good condition
	Yes		No		N/A	Water recirculation tank supports and attachments in good condition
						Compressed Gas Cylinders
	Yes		No		N/A	Inspect cylinder capacity and pressure rating
	Yes		No		N/A	Check cylinder compliance specification
	Yes		No		N/A	Compressed gas meets specifications
	Yes		No		N/A	Air supply moisture content acceptable
Tes						
Qua	arterly	_		_		
Ш	Yes	Ш	No	Ш	N/A	Test start/stop pressure settings for standby pump
						psi start psi stop
Anı	nual					
	Yes		No		N/A	Water supply tested
						psi gpm minute duration
	Yes		No		N/A	Additive agent quality tested
	Yes		No		N/A	Additive agent injection—full discharge test
						Water Recirculation Tank
	Yes		No		N/A	Low water level alarm functions
	Yes		No		N/A	Float operated valve functions
	Yes		No		N/A	Pressure at outlet during discharge psi
	Yes		No		N/A	Backflow preventer functions
	Yes		No		N/A	Air supply capacity and duration tested
						Pump Performance Test
						Use Form 19, Fire Pumps Annual Performance Tests
						Pneumatic Valves
	Yes		No		N/A	Solenoid release of master valve functions
	Yes		No		N/A	Manual release of master valve functions
	Yes		No		N/A	Slave valves operate correctly

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	Yes		No		N/A	On-off cycling of valves	s tested			
	Yes		No		N/A	All control valves operated through full range of motion and returned to normal position				
	Yes		No		N/A	Range of motion and ret	turned to norma	al position		
	Yes		No		N/A	Trip test of dry and prea	ction water mis	st system		
						Full Flow Trip Test				
	Yes		No		N/A	Unobstructed discharge	from all nozzle	es		
	Yes		No		N/A	Pressure reading at cont	rol valve			
	Yes		No		N/A	Detection system respon	nse time	sec		
	Yes		No		N/A	Detection system tested	in accordance	with NFPA 72		
	Yes		No		N/A	Ventilation system inter	locks tested			
	Yes		No		N/A	Fuel/lubrication system	interlocks teste	ed		
	Yes		No		N/A	Cylinders—hydrostatic	test every 5-1/2	years		
Maintenance Semi-annual □ Yes □ No □ N/A Air supply filters and moisture traps cleaned □ Yes □ No □ N/A Water recirculation tank filters, strainers and cyclone separator cleaned										
							Check	Change	Clean	Test
Pur	np Sys	tem					Check	Change	Clean	Test
	np Sys		rs.				Check	Change	Clean	Test
Lub		earing		lay					_	
Lub	ricate b	earing p shaf	t end pl		c accur	acy)				
Lub Che Pres	ricate be	earing p shaf uge/se	t end pl	check	c accur	acy)				
Lub Che Pres	ricate be	earing p shaf uge/se ing al	end pl	check	caccur	acy)				
Lub Che Pres Pun Ele	ricate beck pumpssure gar	earing p shaf uge/se ing al	end plensors (dignmen	check	accur	acy)				
Lub Che Pres Pun Ele Trip	eck pump ssure gar np coupl	earing p shaf uge/se ing al Syste break	end plensors (dignmenter)	check		acy)				
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Lub Chee Press Pun Ele Trip Ope Ope Tigl Lub rela Cali	ctrical ocircuit erate manufacture manufac	earing p shaff	er e	mean ual stactions	s arting 1	means cessary)				

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Comments	
Signature:	Date:
License/Certification No.:	