Y = Satisfactory

## **Water Mist Systems**

## **Inspection, Testing, and Maintenance** of Water Mist Systems

Name of Property:		Inspector:  Contract No.:  Date:				
Address:						
Phone Number:						
This Report Covers:	☐ Weekly		Monthly		Quarterly	
	☐ Annual		Other			
Inspections						
Weekly						
This form covers a 6-	month period.					
Year:	Syste	em:				
Location:						
<ol> <li>Check that water tank is</li> <li>Check air pressure gaug</li> <li>Check air pressure gaug</li> </ol>	e to confirm that adeque to confirm that adequ	ate air pro ate air pro	essure is being ma essure is being ma	intained l	by the compressor.	
4. Record any notes about	me system that the insp	ector del	ieves to de signific	Jailt.		

**N** = Unsatisfactory (explain below)

Date	Inspector	Water Level	Air Tank Pressure (2)	Air Compressor	Notes (4)

Моі	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	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-Ann	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
Anr	nual			
	Yes	☐ No	N/A	Water supply source in good condition
	Yes	☐ No	N/A	Interior of water tank inspected

	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								
	Yes	No	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					
	Yes	No	N/A	All pneumatic cylinder release valves reset					

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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 returned to normal position					
	Yes		No		N/A	Trip test of dry and prea	ction water mis	st system			
						Full Flow Trip Test					
	Yes No No Unobstructed discharge fi							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			
	intena ni-Ann Yes Yes	ual	No No		N/A N/A	Air supply filters and me	_		parator cleaned		
							Check	Change	Clean	Test	
Pur	np Sys	tem					Check	Change	Clean	Test	
	np Sys		S				Check	Change	Clean	Test	
Lub		earings		ay							
Lub	ricate be	earings o shaft	end pl		c accura	ку)					
Lub Che Pres	ricate be	earings o shaft uge/ser	end pl	check	s accura	ncy)					
Lub Che Pres	ricate be ck pump sure gau	earings o shaft uge/ser ing ali	end pl nsors (o	check	accura	ncy)					
Lub Che Pres Pum Elec	ricate be ck pump sure gau np coupl	earings shaft uge/ser ing ali	end pl nsors (d gnmen	check	accura	ncy)					
Lub Che Pres Pum Elec	ricate be ck pump sure gau up coupl ctrical	shaft uge/ser ing ali  Syste breake	end pl nsors (d gnmen	check		ncy)					
Lub Che Pres Pum Elec Trip Ope	ricate beck pump sure gau ap coupl ctrical	shaft uge/ser ing ali  Syste breake	end pl nsors (d gnmen em	t	S						
Lub Che Press Pum Elec Trip Ope	ricate be ck pump sure gat up coupl ctrical circuit rate man	earings shaft shaf	end pl nsors (d gnmen em er arting r	mean	s arting r						
Lub Che Pres Purr Elec Trip Ope Ope	ricate be ck pump sure gau ap coupl ctrical circuit rate man rate eme	earings of shaft and shaft	end pl nsors (o gnmen em er arting p	mean statetions	s arting r	neans					
Lub Che Press Pum Elec Trip Ope Ope Tigh Lub rela	ricate be ck pump sure gau ap coupl ctrical circuit rate man rate eme	shaft uge/ser ing ali Syste breake nual sta	end pl nsors (d gnmen em er arting p y manu connectical mo	mean statetions	s arting r	neans cessary)					
Lub Che Press Pum Elec Trip Ope Ope Tigh Lub rela Cali	ricate beck pump sure gat ap coupl ctrical circuit rate man atten electricate man ys)	earings o shaft uge/ser ing ali Syste breake nual sta ergency etrical of echani	end pl nsors (d gnmen em er arting p y manu connectical mo	mean statetions	s arting r	neans cessary)					

## Form 31

Comments	
Overall System Status	
Satisfactory Unsatisfactory	
Signature:	Date:
License/Certification No.:	