



Fire Chiefs Association of **Santa Cruz County**
FIRE PREVENTION OFFICERS SECTION

Contractor's Material and Test Certificate for Aboveground Piping

PROCEDURE

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by the property owner or their authorized agent. All defects shall be corrected and system left in service before contractor's personnel finally leave the job.

A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners, and contractor. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

Property name	Date
Property address	APN

Plans	Accepted by approving authorities (names)		
	Address		
	Installation conforms to accepted plans	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Equipment used is approved	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If no, state deviations			

Instructions	Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
	If no, explain				
	Have copies of the following been left on the premises?				
	1. System components instructions	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
2. Care and maintenance instructions	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
3. NFPA 25	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
4. With whom have the copies been left?					

Location of system	Supplies buildings
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Sprinklers	Make	Model	Year of manufacture	Orifice size	Quantity	Temperature rating

Pipes and fittings	Type of pipe _____
	Type of fittings _____

Alarm valve or flow indicator	Alarm device			Maximum time to operate through test connection	
	Type	Make	Model	Minutes	Seconds

Dry pipe operating test	Dry valve				Q.O.D							
	Make		Model		Serial No.		Make		Model		Serial No.	
		Time to trip through test connection ^{a,b}		Water pressure	Air pressure	Trip point air pressure	Time water reached test outlet ^{a,b}		Alarm operated properly			
		Minutes	Seconds	psi	psi	psi	Minutes	Seconds	Yes	No		
	Without Q.O.D.											
	With Q.O.D.											
If no, explain												
Deluge and preaction valves	Operation <input type="checkbox"/> Pneumatic <input type="checkbox"/> Electric <input type="checkbox"/> Hydraulics											
	Piping supervised <input type="checkbox"/> Yes <input type="checkbox"/> No				Detecting media supervised <input type="checkbox"/> Yes <input type="checkbox"/> No							
	Does valve operate from the manual trip, remote, or both control stations?								<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Is there an accessible facility in each circuit for testing?						If no, explain					
	<input type="checkbox"/> Yes <input type="checkbox"/> No											
	Make	Model	Does each circuit operate supervision loss alarm?		Does each circuit operate valve release?		Maximum time to operate release					
			Yes	No	Yes	No	Minutes	Seconds				
Pressure-reducing valve test	Location and floor	Make and model	Setting	Static pressure		Residual pressure (flowing)		Flow rate				
				Inlet (psi)	Outlet (psi)	Inlet (psi)	Outlet (psi)	Flow (gpm)				
Test description	<u>Hydrostatic:</u> Hydrostatic tests shall be made at not less than 200 psi (13.6 bar) for 2 hours or 50 psi (3.4 bar) above static pressure in excess of 150 psi (10.2 bar) for 2 hours. Differential dry pipe valve clappers shall be left open during the test to prevent damage. All aboveground piping leakage shall be stopped.											
	<u>Pneumatic:</u> Establish 40 psi (2.7 bar) air pressure and measure drop, which shall not exceed 1½ psi (0.1 bar) in 24 hours. Test pressure tanks at normal water level and air pressure and measure air pressure drop, which shall not exceed 1½ psi (0.1 bar) in 24 hours.											
Tests	All piping hydrostatically tested at _____ psi (_____ bar) for _____ hours							If no, state reason				
	Dry piping pneumatically tested <input type="checkbox"/> Yes <input type="checkbox"/> No											
	Equipment operates properly <input type="checkbox"/> Yes <input type="checkbox"/> No											
	Do you certify as the sprinkler contractor that additives and corrosive chemicals, sodium silicate or derivatives of sodium silicate, brine, or other corrosive chemicals were not used for testing systems or stopping leaks? <input type="checkbox"/> Yes <input type="checkbox"/> No											
	Drain test	Reading of gauge located near water supply test connection: _____ psi(_____ bar)				Residual pressure with valve in test connection open wide: _____ psi(_____ bar)						
	Underground mains and lead-in connections to system risers flushed before connection made to sprinkler piping						Other Explain					
Verified by copy of the Contractor's Material and Test Certificate for Underground Piping. <input type="checkbox"/> Yes <input type="checkbox"/> No												
Flushed by installer of underground sprinkler piping <input type="checkbox"/> Yes <input type="checkbox"/> No												
If powder-driven fasteners are used in concrete, has representative sample testing been satisfactorily completed? <input type="checkbox"/> Yes <input type="checkbox"/> No						If no, explain						

^a Measured from time inspector's test connection is opened.

^b NFPA 13 only requires the 60-second limitation in specific sections.

Blank testing gaskets	Number used	Locations	Number removed
Welding	Welding piping <input type="checkbox"/> Yes <input type="checkbox"/> No		
	If yes...		
	Do you certify as the sprinkler contractor that welding procedures used complied with the minimum requirements of AWS B2.1, ASME Section IX <i>Welding and Brazing Qualifications</i> , or other applicable qualification standard as required by the AHJ?		<input type="checkbox"/> Yes <input type="checkbox"/> No
	Do you certify that all welding was performed by welders or welding operators qualified in accordance with the minimum requirements of AWS B2.1, ASME Section IX <i>Welding and Brazing Qualifications</i> , or other applicable qualification standard as required by the AHJ?		<input type="checkbox"/> Yes <input type="checkbox"/> No
Do you certify that the welding was conducted in compliance with a documented quality control procedure to ensure that (1) all discs are retrieved; (2) that openings in piping are smooth, that slag and other welding residue are removed; (3) the internal diameters of piping are not penetrated; (4) completed welds are free from cracks, incomplete fusion, surface porosity greater than $1/16$ in. diameter, undercut deeper than the lesser of 25% of the wall thickness or $1/32$ in.; and (5) completed circumferential butt weld reinforcement does not exceed $3/32$ in.?		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Cutouts (discs)	Do you certify that you have a control feature to ensure that all cutouts (discs) are retrieved?		<input type="checkbox"/> Yes <input type="checkbox"/> No
Hydraulic data nameplate	Nameplate provided <input type="checkbox"/> Yes <input type="checkbox"/> No	If no, explain	
Sprinkler contractor removed all caps and straps? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Remarks	Date left in service with all control valves open		
Signatures	Name of sprinkler contractor		
	Tests witnessed		
	The property owner or their authorized agent (signed)	Title	Date
	For sprinkler contractor (signed)	Title	Date
Additional explanation and notes			