Diesel Ca Fire Pump	lifornia Code of Regulation Inspection, Testing, and Maint	s - Title 19 tenance	Annual Report	1 of 9
Property Information	TE OF CALLEOR	Contractor	r or Licensed Owner Info	rmation
Building Name		Name		
Address		Address		
	ATRE MARIE	City	St. 2	Zip
City	License #	Phone		
Contact Person	SFM	Job #		
Phone	CSLB	Misc.		

Pump #	Pump and Driver Information						
Pump Manufacturer		Max Suction Pressure	psi	Driver Mfr.			
Pump Model		Max psi (shutoff)	psi	Driver Model			
Pump Serial #		Rated Capacity	gpm	Driver Rated RPM			
Rated RPM		Rated Pressure	psi	Fuel Tank Capacity	gal.		
Controller Mfr		150% Rated Capacity	gpm				
Controller Model		Rated Pressure @ Rated Capacity	psi				
Controller S/N							

Where the pump and driver manufacturer's recommendations are not available, use the items in this form, which reference NFPA 25, Table 8.5.3. If the manufacturer's recommendations are available, then those recommendations are to be used.

Annual Flow Test											
Churn (0%)		Flow (gpm)	Suction (psi)		C	Discharge (psi)	Net Pressur (psi)	re	Speed (rpm)		
8.3.5.1											
100% Rated Flow	Nozzle #	Size	Pitot Pressure		low pm)	Suction (psi)	Discharge (psi)		vet ure (psi)	Speed (rpm)	
	1										
	2										
	3]					
	4]					
	5]					
	6					1					
150% Rated Flow	Nozzle #	Size	Pitot Pressure		low pm)	Suction (psi)	Discharge (psi)		Vet ure (psi)	Speed (rpm)	
	1										
	2					Suction pressure	e at 150% of rated	flow at I	east 0 psi	?	
	3					(8.1.6.1) Yes No					
	4					For pump syster	ns installed per NF	PA 20.	using suc	tion tanks where	
	5					NFPA 20 permit	ted the suction pre	ssure to	be not le	ss than 3 psi, is	
	6					the suction pressure at least 3 psi? (8.1.6.2)					

Fire Pump Test Curves	
Manufacturer's shop test curve	1. 8.3.5.3(1)
Original adjusted fire pump curve using net pump pressures	2. 8.3.5.3(1)
Current adjusted fire pump curve using net pump pressures	3. 8.3.5.3(1)
Original unadjusted fire pump curve using net pump pressures	4. 8.3.5.3(1)
Current unadjusted fire pump curve using net pump pressures	5. 8.3.5.3(1)
Current unadjusted fire pump curve using total pump pressure + supply pressure	6. 8.3.5.7
Note: The fire pump nameplate data is permitted to be used if the manufacturer's shop test curve is unavailable. (8.3.5.3(2))	

Diesel Fire Pump	California Code of Regulations Inspection, Testing, and Mainte	s - Title 19 mance	Annual Report	2 of 9
Property Information	E OF CALIFORN	Contractor	or Licensed Owner Inform	nation
Building Name		Name		
Address	ATT OT STATE	Job #		
City	ATRE MARE			

Test Results and Evaluation (8.3.5.7)								
Fire Prote	ection System Demand Informati	on		Fire	Pump			
Type of System	Required Pressure at the Pump Discharge Flange (psi)	Required Flow (gpm)	Is the fire pur	Is the fire pump capable of supplying the system demand using the unadjusted pump curve?				
			🗌 Yes 📃 No					
			🗌 Yes 📃 No					
			🗌 Yes 📃 No					
			🗌 Yes 📃 No					
			🗌 Yes 📃 No					
Are fire pump test results satisfactory?			Yes 🗌 No	8.1.6 8.3.5 8.3.5.2.1	8.3.5.3 8.3.5.4 8.3.5.5	8.3.5.6 8.3.5.7		

			al Fire Pump ting, and Maintena spection, Testing, a	ance and Mainten	ance Items	
		I = Inspection T = Test M = Maintenanc	· · · · · · · · · · · · · · · · · · ·	P = Pa	ass F = Fail N/A = Not Applicabl	e
Item		Description	NFPA 25 CA ed. Reference	Date	Comments Only	P,F,N/A
		Fire pump Start/Stop Pressures				
1.01	I	Fire Pump Start Pressure	8.3.2.8(1)(f)		psi	
1.02	I	Fire Pump Stop Pressure	8.3.2.8(1)(f)		psi	
1.03	I	Pressure Maintenance Pump Start Pressure	8.3.2.8(1)(g)		psi	
1.04	1	Pressure Maintenance Pump Stop Pressure	8.3.2.8(1)(g)		psi	
		Pump House				
1.05	I	Pump House Heating and Ventilating Louvers. Illumination	8.2.2(1)(a) 8.2.2(1)(b) 8.3.4.3			
		Fire Pump System				
1.06	I.	Control Valves - Identification Sign	13.3.1			
1.07	1	Control Valves - Inspection	13.3.2			
1.08	1	Pump suction, Discharge & Bypass Valves Open	8.2.2(2)(a)			
1.09	I	Normally Closed Valves Are Closed (Test Header/Venturi Meter)	8.2.2(2)(g) 13.3.2.2			
1.10	I	Piping is Free of Leaks	8.2.2(2)(b)			
1.11	ı	Suction Line Pressure Gauge Reading within Acceptable Range (Same as Water Level in Tank or Static Pressure in Water Main)	8.2.2(2)(c)			
	I	Suction Pressure Reading	8.2.2(2))c)		psi	
1.12	I	Discharge Line Pressure Gauge Reading within Acceptable Range (Same as Suction Gauge Reading)	8.2.2(2)(d)			
	I	Discharge Pressure Reading	8.2.2(2)(d)		psi	
1.13	I	Suction Reservoir Full	8.2.2(2)(e)			

Diesel Fire Pump	ia Code of Regulations ection, Testing, and Mainte	s - Title 1 enance	9 Annual 3 of 9 Report 3 of 9	
Property Information		E OF CALIFORN	Co	ontractor or Licensed Owner Information
Building Name			Name	
Address			Job #	
City		FIRE MARIE		

	Annual Fire Pump Inspection, Testing, and Maintenance Include ALL Monthly and Annual Inspection, Testing, and Maintenance Items							
	I = Inspection \mathbf{T} = Test \mathbf{M} = Maintenance P = Pass F = Fail N/A = Not Applicable							
Item		Description	NFPA 25 CA ed. Reference	Date	Comments Only	P,F,N/A		
1.14	1	Wet Pit Suction Screens are Unobstructed and in Place	8.2.2(2)(f)					
1.15	1	Check Pump Packing Glands for Slight Discharge (Pump Not Running)	8.2.2(2)(h)					
1.16	1	Check Pump Packing Glands for Slight Discharge (Pump Running)	8.3.2.8(1)(b)					
1.17	1	Suction Line Pressure Gauge Reading (Pump Running)	8.3.2.8(1)(a)		psi			
1.18	I	Discharge Pressure Gauge Reading (Pump Running)	8.3.2.8(1)(a)		psi			
1.19	1	Check for Unusual Noise or Vibration	8.3.2.8(1)(d)					
1.20	I	Check Packing Boxes, Bearings, or Pump Casing for Overheating	8.3.2.8(1)(e)					
1.21	I	Circulation Relief Valve Operating Properly	13.5.7.1.2					
1.22	I	Observe Time for Motor to Accelerate to Full Speed	8.3.2.8(2)(a)					
1.23	I	Record Time the Controller is On 1st Step (For Reduced Voltage or Reduced Current Starting)	8.3.2.8(2)(b)					
		Electrical System Conditions						
1.24	1	Controller "Power On" Pilot Light is Illuminated	8.2.2(3)(a)					
1.25	1	Transfer Switch Normal Pilot Light is Illuminated	8.2.2(3)(b)					
1.26	I	Isolating Switch is Closed - Standby (Emergency) Source	8.2.2(3)(c)					
1.27	I	Reverse Phase Alarm Pilot Light is Off, or, Normal Phase Rotation Pilot Light is On	8.2.2(3)(d)					
1.28	Т	Oil Level in Vertical Motor Sight Glass is within Acceptable Range	8.2.2(3)(e)					
1.29	I	Power to Pressure Maintenance (Jockey) Pump is Provided	8.2.2(3)(f)					
		Diesel Engine System Conditions						
1.30	I	Fuel: Tank Level (Two-Thirds Full)	8.2.2(4)(a)					
1.31	I	Fuel: Tank Float Switch	Table 8.1.2					
1.32	1	Fuel: Solenoid Valve Operation	Table 8.1.2					
1.33	1	Fuel: Flexible Hoses and Connectors	Table 8.1.2					
1.34	1	Fuel: Tank Vents & Overflow Piping is Unobstructed	Table 8.1.2					
1.35	1	Fuel: Piping	Table 8.1.2					
1.36		Lubrication System: Oil level	Table 8.1.2					
1.37	1	Lubrication System: Crankcase Breather	Table 8.1.2					
1.38		Cooling System: Level	Table 8.1.2					
1.39	1	Cooling System: Adequate Cooling Water to Heat Exchanger	Table 8.1.2					
1.40	1	Cooling System: Water Pump	Table 8.1.2					
1.41	I	Cooling System: Condition of Flexible Hoses and Connections	Table 8.1.2					

Diesel Fire Pump	California Code of Regulation Inspection, Testing, and Maint	s - Title 19 enance	Annual 4 Report 4	of 9
Property Information	THE OF CALLEON	Contrac	ctor or Licensed Owner Information	
Building Name		Name		
Address		Job #		
City	FIRE MARIE			

	Annual Fire Pump Inspection, Testing, and Maintenance Include ALL Monthly and Annual Inspection, Testing, and Maintenance Items								
	I = Inspection T = Test M = Maintenance P = Pass F = Fail N/A = Not Applicable								
Item		Description	NFPA 25 CA ed. Reference	Date	Comments Only	P,F,N/A			
1.42	Ι	Cooling System: Jacket Water Heater	Table 8.1.2						
1.43	Ι	Cooling System: Antifreeze Protection Level	Table 8.1.2						
1.44	I	Cooling System: Inspect Ductwork	Table 8.1.2						
1.45	Ι	Battery System: Electrolyte Level	Table 8.1.2						
1.46	Ι	Battery System: Charger and Charge Rate	Table 8.1.2						
1.47	Ι	Battery System: Equalize Charge	Table 8.1.2						
1.48	I	Battery System: Terminals Clean and Tight	Table 8.1.2						
1.49	I	Exhaust System: Leakage	Table 8.1.2						
1.50	Ι	Exhaust System: Flexible Exhaust	Table 8.1.2						
1.51	Ι	Exhaust System: Hangers and Supports	Table 8.1.2						
1.52	I	Electrical System: General Inspection	Table 8.1.2						
1.53	I	Electrical System: Circuit Breakers or Fuses	Table 8.1.2						
1.54	I	Electrical System: Wire Chafing Where Subject to Moving	Table 8.1.2						
		Fire Pump Tests							
2.01	Т	Pump Operation - No Flow Condition	8.3.2						
2.02	Т	Engine Generator Sets	NFPA 110						
2.03	Т	Control Valve - Position	13.3						
2.04	Т	Control Valve - Operation	13.3.3.1						
2.05	Т	Supervisory Devices	13.3.3.5.1						
2.06	Т	Pump Operation - Flow Condition	8.3.3.1						
2.07	Т	Pressure Reducing Valve	13.5.1.2						
2.08	Т	Time Pump Runs After Starting For Automatic Stop Controllers)	8.3.2.8(2)(c)		min/sec				
2.09	Т	Control Valve Test	13.3.3						
		Pump System				•			
2.10	Т	Pump System: Check Pump Shaft End Play	Table 8.6.1						
2.11	т	Pump System: Check Accuracy of Pressure Gauges/Sensors	Table 8.6.1						
2.12	Т	Pump System: Check Pump Coupling Alignment	Table 8.6.1						
2.13	Т	Pressure Relief Valve	13.5.7.2						
2.14	Т	Circulation Relief Valve	13.5.7.1.2						
2.15	Т	Exercise Isolating Switch and Circuit Breaker	Table 8.1.2						

Diesel Fire Pump	California Code of Regulations Inspection, Testing, and Mainten		Annual Report	5 of 9
Property Information	THE OF CALIFOR	Contracto	or or Licensed Owner Informat	ion
Building Name		Name		
Address	J A A A A A A A A A A A A A A A A A A A	lob #		
City	THE MARIE			

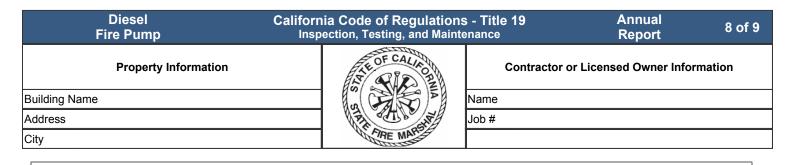
		Annual Inspection, Testir	Fire Pump	ance				
	Include ALL Monthly and Annual Inspection, Testing, and Maintenance Items							
Item		I = Inspection T = Test M = Maintenance Description	NFPA 25 CA ed.	P = Date	Pass F = Fail N/A = Not Applicat Comments Only	P,F,N/A		
		Annual Test - Indicate Method of Discharge	Reference	Duto				
2.16	т	If the current test does NOT use the method described in 8.3.3.1.2.1 - then indicate the DATE the last time this method was used:	8.3.3.1.2.1 8.3.3.1.2.2 8.3.3.1.2.3 8.3.3.1.3		8.3.3.1.2.1 8.3.3.1.2.2 8.3.3.1.2.3			
2.17	Т	Automatic Transfer Switch Test	8.3.3.4					
2.18	т	Alarm Tests	8.3.3.5					
2.19	Т	Electronic Fuel Management Control System Test	8.3.3.8					
2.20	т	Trip Circuit Breaker	Table 8.1.2					
2.21	Т	Operate Manual Starting Means	Table 8.1.2					
2.22	т	Parallel and Angular Alignment Test	8.3.4.4					
		Diesel Engine System						
2.23	т	Battery System: Specific Gravity or State of Charge	Table 8.1.2					
2.24	Т	Electrical System: Operation of Safeties and Alarms	Table 8.1.2					
2.25	Т	Exhaust System: Excessive Back Pressure Table 8.1.2						
		Maintenance				1		
3.01	М	Lubricate Pump Bearings	Table 8.1.2					
3.02	М	Check Pump Shaft End Play	Table 8.1.2					
3.03	М	Check Accuracy of Pressure Gauges	Table 8.1.2					
3.04	М	Check Pit Suction Screens	Table 8.1.2					
3.05	М	Lubricate Coupling	Table 8.1.2					
3.06	М	Lubricate Right-angle Gear Drive	Table 8.1.2					
3.07	М	Tighten Electrical Connections	Table 8.1.2					
3.08	М	Lubricate Mechanical Moving Parts (Excluding Starters and Relays)	Table 8.1.2					
3.09	М	Calibrate Pressure Switch Settings	Table 8.1.2					
3.10	м	Grease Motor Bearings	Table 8.1.2					
3.11	м	Check Voltmeter and Ammeter for Accuracy	Table 8.1.2					
3.12	м	Printed Circuit Boards without Corrosion	Table 8.1.2					
3.13	м	Any Cracked Cable/Wire Insulation	Table 8.1.2					
3.14	м	Any Leaks in Plumbing Parts	Table 8.1.2					
3.15	м	Any Signs of Water on Electrical Parts	Table 8.1.2					
3.16	м	Suction Screens	8.3.3.7					

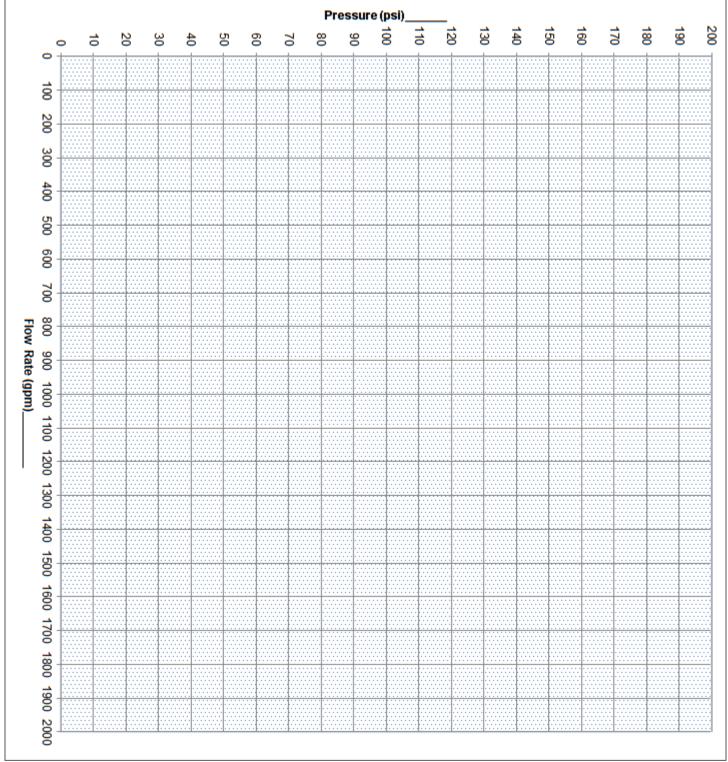
Diesel Fire Pump	California Inspec	a Code of Regulations ction, Testing, and Mainte) Annual 6 of 9 Report 6 of 9				
Property Information		E OF CALLEONN	Contractor or Licensed Owner Information				
Building Name			Name				
Address			Job #				
City		FIRE MARIE					

	Annual Fire Pump Inspection, Testing, and Maintenance Include ALL Monthly and Annual Inspection, Testing, and Maintenance Items							
	I = Inspection T = Test M = Maintenance $P = Pass F = Fail N/A = Not Applicable$							
Item		Description	NFPA 25 CA ed. Reference	Date	Comments Only	P,F,N/A		
3.17	м	Control Valve Maintenance	13.3.4					
		Diesel Engine System						
3.18	м	Fuel: Water in System	Table 8.1.2					
3.19	М	Fuel: Strainer, Filter, Dirt Leg, or Combination Thereof	Table 8.1.2					
3.20	м	Cooling System: Antifreeze	Table 8.1.2					
		Lubrication System						
3.21	м	Lubricate Oil Heater	Table 8.1.2					
3.22	М	Crankcase Breather	Table 8.1.2					
3.23	М	Oil Change	Table 8.1.2					
3.24	М	Oil Filter	Table 8.1.2					
		Cooling System			-			
3.25	М	Water Strainer	Table 8.1.2					
3.26	М	Antifreeze Protection Level	Table 8.1.2					
3.27	М	Rod Out Heat Exchanger	Table 8.1.2					
3.28	М	Clean Louvers	Table 8.1.2					
		Exhaust System						
3.29	3.29 M Drain Condensation Trap Table 8.1.2							
		Battery System			-			
3.30	М	Remove Corrosion, Exterior Clean and Dry	Table 8.1.2					
		Electrical System			1	-		
3.31.	М	Boxes, Panels and Cabinets	Table 8.1.2					
3.32	М	Tighten Control and Power Wiring Connections	Table 8.1.2					
3.33	М	Circuit Breakers and Fuses	Table 8.1.2					
3.34		Inspect and Operate Emergency Manual Starting Means (Without Power)	Table 8.1.2					
3.35	М	Adjust Gland Nuts if Necessary						
3.36	м	Obstruction Investigation Required (If "Yes", see Deficiencies and Comments Section for Results.)	14.3		☐ Yes ☐ No			
3.37	М	System Returned to Service	4.5.3 15.7		☐ Yes ☐ No			

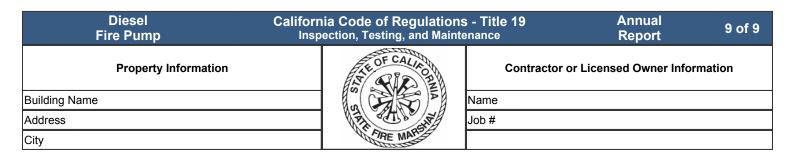
Diesel Fire Pump	California Code of Inspection, Test	Regulations	19 Annual 7 of 9 Report 7 of 9			
Property Information	ALL OF	CALIFORN	Contractor or Licensed Owner Information			
Building Name		Name				
Address		The state	Job #			
City		E MAH				

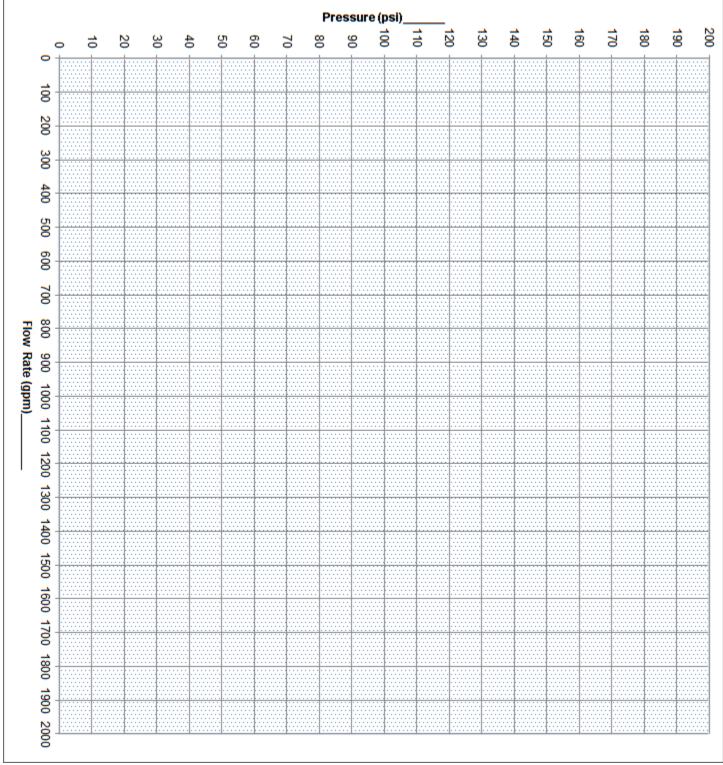
D = Def	ciency C	= Com	ment	(Indica	ate type)	
ltem	Date	Riser	r D	С	Deficiencies and Comments Indicate all equipment, devices and parts that were repaired or replaced	
Check here if additional Deficiencies and Comments are listed on Form AES 9. See Correction Form AES 10 for corrected deficiencies. Number attached:						
l he th	I hereby certify that the fire protection equipment listed above has been fully inspected, tested, and maintained on this date by the company indicated above, in accordance with CCR, Title 19, Sections 901 to 906 and that the equipment is fully operable except as noted in the "Deficiencies and Comments" section of this form.					
Print Na	ime					
Signatu				Date		





- Curve Identification: 1. Manufacturer's shop test curve 2. Original adjusted fire pump curve 3. Current adjusted fire pump curve





Curve Identification:

Original unadjusted fire pump curve
 Current unadjusted fire pump curve

6. Current unadjusted fire pump curve using total pump pressure + supply pressure