FIRE PUMP NO FLOW CHURN TEST

	LLSC Form
C	FIRE PUMP
W-Diesel M-Electric	No-Flow

Facility:			W-Dies	· I N	No-Flow
DATE:	INCDE	ECTOR:	M-Elec	tric	Page 1
-		-		- '	uge I
BUILDING LOCATION:		PUMP ID:			
Diesel Engine-driven fire pumps - Weekly per NFPA 25-2011, 8.3.1 Electric Motor-driven fire pumps - Monthly per NFPA 25-2011, 8.3.2					
A. NO-FLOW (CHURN) FIRE PU	MP TEST		.3.2	<u>EC.02</u> EP#	2 <u>.03.05</u> † 6
1. Start the pump automatically by (Auto timer may be substite) 2. Run pump, without water flow, for a substite of the substitute o	uted for the starting proc or (10 min elec)(30 min d	edure)	8	NFPA 25 .3.2.2; .3.2.3; 8.3.	8.3.2.6 8.3.2.4
4. Complete the checklists below		OBSERVATIONS			
ALL PUMPS	READINGS (§8.3.2.8)	(Describe problems be		ОК	Fail
a. Time Pump Starts operation		I. Inspect pump packing glan discharge & adjust nuts if ne	_		
b. Current System Pressure		(§8.3.2.8)			
c. Pump Starting Pressure		m. Inspect for unusual noise or vibration			
d. System Suction Pressure		(§8.3.2.8)			
e. System Discharge Pressure		n. Inspect boxes, bearings, pump casing			
f. Highest Pressure during test***		for overheating (§8.3.2.8)			
g. Lowest Pressure during test***		o. Verify downstream pressure in the discharge piping <= rated pressure of components (§13.5.7.2)			
h. Pump Discharge Pressure					
i. Pump Churn Pressure (Calc diff between suction & discharge psi)		p. Verify water flows through Circulation Relief Valve when the fire pump is churnning (§13.5.7.1)			
j. Time Pump Stops operation					
k. Total time pump ran		a Varify the calculated Chur			
(calc diff "j"-"a":		q. Verify the calculated Churn pressure match churn pressure on pump			
*** For pumps with electonic pressu	ire sensors to control	nameplate	•		
the fire pump operation	st Applicable (pe Flee drives	numnal			
	ot Applicable (no Elec driven				
a. Time controller is on 1st step*		c. Time pump runs after star	ting**		
b. Time for motor to reach full rpm					

FIRE PUMP NO FLOW CHURN TEST

	LLSC Form
C	FIRE PUMP
W-Diesel M-Electric	No-Flow

Facility:	W-Diesel M-Electri	I N	o-Flow
DATE:	INSPECTOR:	P	age 2
DIESEL PUMPS Not Applicable (no Diesel of a. Time for engine to crank? b. Time for engine to reach running speed? (max 10 sec)	c. Observe periodically while engine is running: engine oil pressure gauge, speed indicator, water, and oil temp indicators	OK	Fail
	d. Check the heat exchanger for cooling waterflow?		
	e. Check the heat exchanger for cooling waterflow?		
	f, Record any abnormalities?		
B.BREAKER OPERATION	NFPA 110-2010 8.4.6.1	<i>EC.02.</i> EP#	<u>03.05</u> (No#)
Either before or after the Churn Test, exercse the pump circuit breaker by turning it "off" & then turning it "on"			blem
DESCRIBE PROBLEMS & ACTIONS TAKEN			

© Lauzon Life Safety Consulting, Jan 2020