



NUCLEAR OPERATIONS DEPARTMENT  
PILGRIM NUCLEAR POWER STATION  
Procedure No. 2.1.12  
DAILY DIESEL GENERATOR SURVEILLANCE

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Approved Charles Matt  
ORC Chairman  
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2.1.12-1 Rev. 11

I. PURPOSE

To monitor and record critical Diesel Generator parameters that could affect the immediate response of the units.

II. DISCUSSION

The Diesel Generators are designed to start and accept load within 10 seconds from the initiating signal. In order to do this, the units must be kept warm and all auxiliaries must be immediately available.

III. LIMITATIONS

Refer to system procedures for details.

IV. PROCEDURE

- A. Record data as indicated on Form OPER-27, Attachment A - "Diesel Generator Daily Surveillance".

NOTE: \*\* Require value entry.

- B. Return completed forms to the Control Room Annex.

V. ATTACHMENTS

- A. Diesel Generator Daily Surveillance, OPER 27.

PNPS-1  
DIESEL GENERATOR  
DAILY SURVEILLANCE  
OPER 27

DATE \_\_\_\_\_

TIME \_\_\_\_\_

Give unit an overall visual check and report any discrepancy in REMARKS\* on Page 4 of this form.

NOTE: \*\* Require value entry.

		UNIT A	UNIT B
EXCITER CUBICLE (C101/102)			
1	Auto/Manual Switch in (Auto)		
2	Voltage Regulator Indicator (Green/Auto)		
3	Governor Mode Indicator (Green/Isochronous)		
ENGINE CONTROL AUXILIARY EQUIPMENT PANELS			
<u>PANEL No. 1 (C103C/104C)</u>			
4	Jacket Water Press. PSI ( $2.3 \leq 4$ )	**	**
5	Starting Air Supply No. 1, (PSI $125 \leq 150$ )	**	**
5a	Starting Air Supply No. 2, (PSI $125 \leq 150$ )	**	**
6	Lube Oil Temp. IN ( $100^{\circ}\text{F} \leq 120^{\circ}\text{F}.$ )	**	**
7	Lube Oil Temp. OUT ( $100^{\circ}\text{F} \leq 120^{\circ}\text{F}.$ )	**	**
8	Lube Oil Press. ( $4 \leq 10$ PSI)	**	**
9	Jacket Water Temp. IN	**	**
10	Jacket Water Temp. OUT	**	**
11	Air Manifold Temp. ( $100^{\circ}\text{F} \leq 130^{\circ}\text{F}.$ )	**	**
12	Fuel Oil Temp ( $60^{\circ}\text{F} \leq 95^{\circ}\text{F}.$ ) (Rm. Amb.)	**	**
13	Jet Assist Press. ( $220$ PSI $\leq 250$ PSI)	**	**
<u>PANEL NO. 2 (C103B/C104B)</u>			
14	Running Time Meter reading, Hrs.	**	**
15	Check Panalarm System, report any faults indicated		
16	Unit Mode (Green/Auto)		
17	Air Motor Test Switch (M1 & M2)		
18	Emergency Stop Button (Run)		

PANEL NO. 3 (C103A/C103B)

Check Lights that are on

- 19 Lube Oil Prelub Pump (Red)
- 20 DC Fuel Pump (Green)
- 21 Air Compressor No. 1 (Green/Auto)
- 22 Air Compressor No. 2 (Green/Auto)

Check breakers closed

- 23 Start Air Compressor
- 24 Turbo Air Compressor
- 25 Lube Oil Pump
- 26 Lube Oil Heater
- 27 Jacket Water Heater
- 28 Gen. Heater
- 29 Cubical Heater

AUTOMATIC TEMP. AND DAMPER CONTROL (C89/C90)

- 30 Check press. to Control Box, IN ( $19 \leq 21$  PSI)
- 31 Check press. to Control Box, OUT ( $19 \leq 21$  PSI)
- 32 Outside Air Plenum °F.
- 33 Room Air °F.

GENERAL

- 34 Check for any abnormal leakage in engine and fuel room. This includes fuel drip buckets over 1/2 full and fuel trans. pump pits wet.
- 35 Note level of fuel oil in day tank-fractional estimate
- 36 Fuel Oil Transfer Pump Control Set (Auto)
- 37 Check that fuel oil valve from day tank to engine is open.
- 38 Fuel Oil Storage Tank Level (C-84)% Percentage R (if  $\leq 75\%$  notify N.W.E.)

UNIT A	UNIT B
**	**
**	**

**	**
**	**



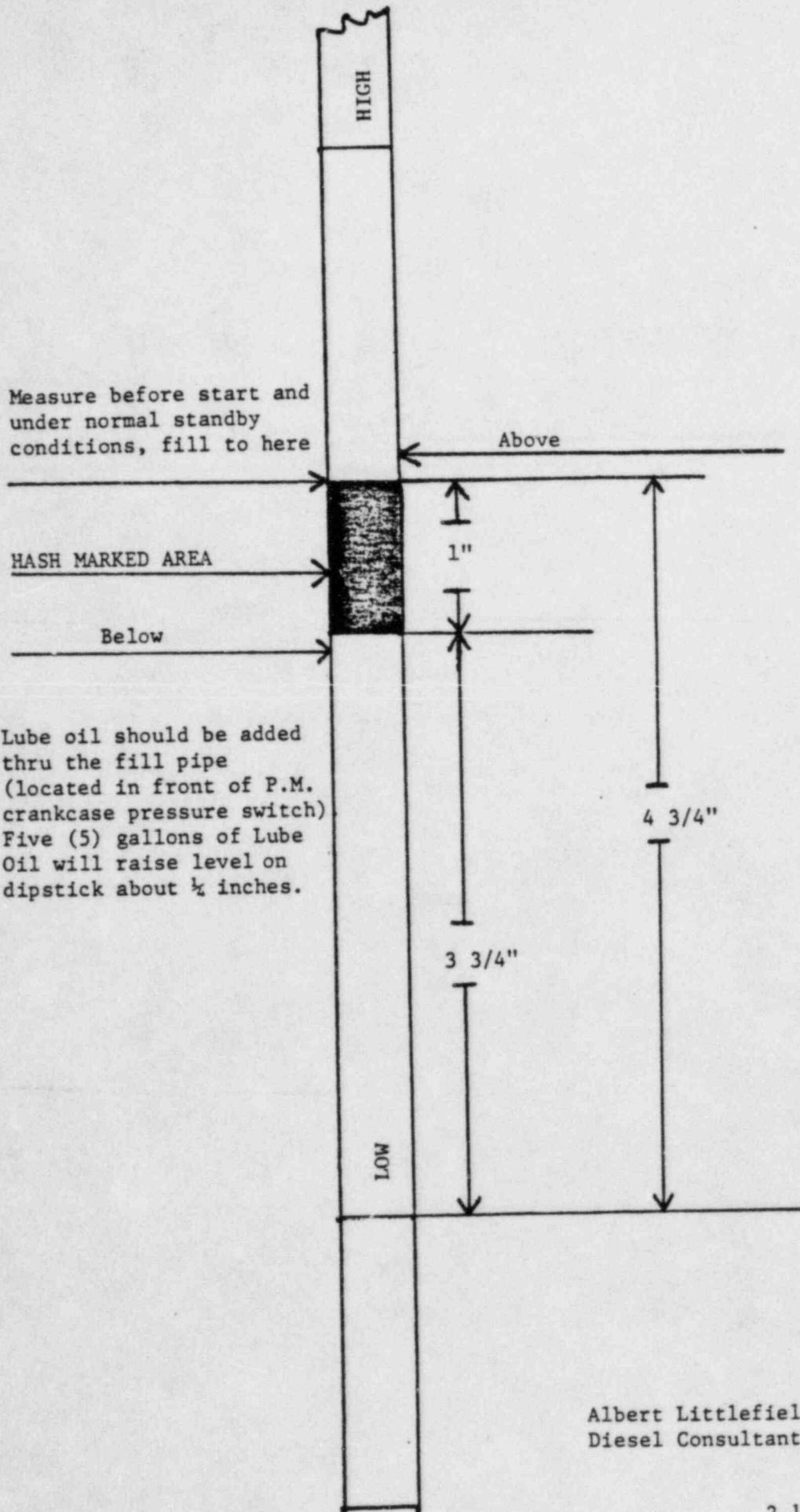
		UNIT A	UNIT B
58	Air Compressor Oil Level, Starting		
59	Air Compressor Oil Level, Jet Assist		
60	Check oil level in Crankcase of gasoline compressor engines.		
61	Check that sump pump is operating properly.		
<p><u>NOTE</u></p> <p>If float is not holding pump switch in <u>ON</u> (this is the up position) it is O.K.</p>			
62	Dry Chemical extinguishing system verify cylinder pressures within operable range (green band)		
63	Heat tracing operable, sprinkler supply, B Diesel (amber light on) NOTE: When outside air temp is below 32°F, insure that temp. as indicated on T1-722 is <u>        </u> > <u>        </u> 40°F.	X	
	Diesel Room A (2-30A & 1-250A) _____		
	Diesel Room B (2-30A & 1-250A) _____		

REMARKS\*

All readings within established limits and no unexplained discrepancies.

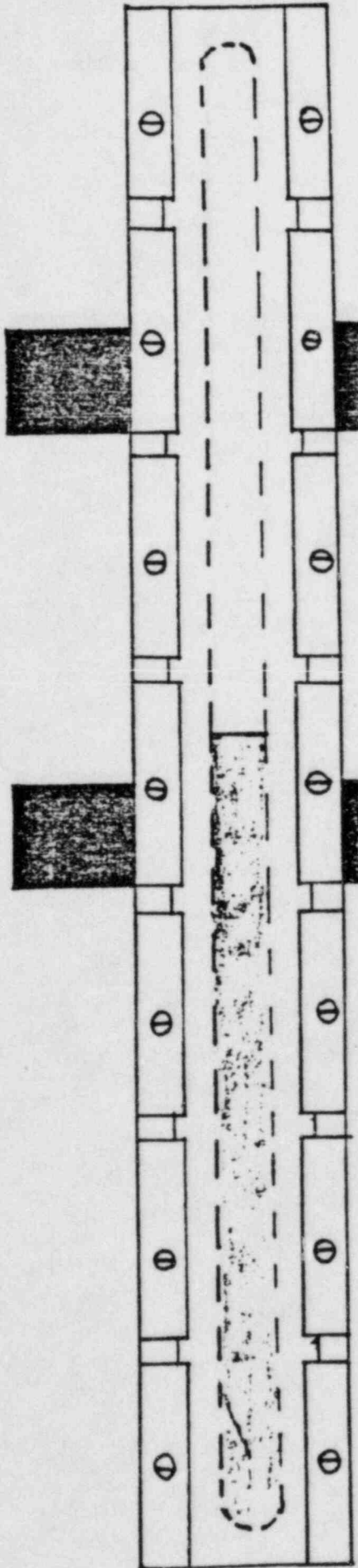
Verified by \_\_\_\_\_ NPO Date \_\_\_\_\_

Reviewed by \_\_\_\_\_ N.W.E. Date \_\_\_\_\_



NOTE: Lube oil should be added thru the fill pipe (located in front of P.M. crankcase pressure switch) Five (5) gallons of Lube Oil will raise level on dipstick about 1/2 inches.

Albert Littlefield  
Diesel Consultant



When Adding Coolant  
Attempt to Keep Water Level  
Between Black Marks

When on Standby Water level  
position should not go below  
top of Black Mark

NOTE: 2 gallons of coolant  
will raise sight glass  
level about 1"  
Log quantity of  
coolant added

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Diesel Consultant