NRC Form 316 (9-63)				LICENSEE EVENT REPORT (LER)					U.S. NUCLEAR REGULATORY CONDITION APPROVED ONG NO, 2150-0104 EXPIRES: 8/31/05				
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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85

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# Description

IRC Form 366A

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On November 22, 1987 at 0258 Operations personnel identified that the level in diesel oil storage tank T-10 [DC;TK] was below the Plant Technical Specification (TS) limit. TS 3.7.1 requires that a minimum of 16,000 gallons of oil be in T-10 when the primary coolant system [AB] is heated above 325 degrees. At the time of discovery, approximately 12,000 gallons of oil were in T-10. The reactor was critical with the Plant operating at 99 percent of rated power when the condition was discovered.

While performing TS Surveillance Procedure D/WO-1, "Operators Daily/Weekly/Bi-Weekly Items", a Control Room Operator noted a discontinuity (88 percent to 68 percent) from previous data trends in the diesel oil storage tank level indication. Tank level is monitored and Operators are alerted to low oil levels by level alarm LIA-1400 [DC;LA]. Consequently, an Auxiliary Operator (AO) was dispatched to physically measure tank level with a dipstick. Measurements revealed that approximately 12,000 gallons of oil were present in the tank.

At 0258 an Unusual Event was declared due to activation of TS 3.0.3. At 0310 Plant shutdown was commenced. Actions were immediately initiated to procure and assure oil delivery. By 0732 approximately 4,900 gallons of oil were delivered to T-10. The storage tank level was manually verified to assure greater than 16,000 gallons of oil were present and at 0736, the Plant secured from the Unusual Event. At 0905 Operations personnel began raising the Plant power level from the low of 80 percent achieved during the event.

## Cause Of The Event

The failure to assure compliance with TS 3.7.1 was caused by erroneous readings provided to Control Room Operators via level indicator LIA-1400. Investigations by Instrumentation and Control (I&C) personnel have attributed the erroneous readings to temperature induced transmitter drift within LT-1400 [DC;LT].

A review of post calibration records indicated that when the ambient temperature drops, the output of the transmitter increases and when the ambient temperature goes up, transmitter output decreases. An increase in transmitter output yields a positive (additive) indication of diesel oil storage tank level.

### Corrective Actions

After physically verifying the oil level in the storage tank, an Unusual Event was declared and reactor power reduction initiated.

U.S. NUCLEAR REGULATORY COMMISSION

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IRC Form 3644

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Efforts were immediately undertaken to procure diesel oil and within approximately four and one-half hours, T-10 had been filled to a level in excess of the TS requirements.

TS Surveillance Procedure D/WO-1 has been changed to require physical verification (dipsticking) of T-10.

An evaluation has been undertaken to assess alternative level instrumentation. Until potential actions as a result of this evaluation have been taken, Operations personnel will use physical detection to verify tank level.

## Analysis Of The Event

The TS requirement to maintain 16,000 gallons of diesel oil in storage tank T-10, in addition to the TS requirement to maintain 2,700 gallons of diesel oil in each of the day tanks, T-25A and T-25B [DC;TK] will provide a diesel generator [EK;DG] operation under required loading conditions for a minimum of seven days.

As stated in the basis for TS 3.7, this amount of diesel oil is felt adequate since it is considered incredible not to be able to secure oil from one of several sources within a radius of 70 miles in less than three days under the worst of weather conditions.

The last receipt and input of diesel oil to storage tank T-10 occurred on November 10, 1987. This input resulted in the tank being filled to approximately 80 percent or 23,454 gallons.

At the time of the event, with approximately 12,000 gallons of diesel oil in storage tank T-10, approximately five days of diesel operation was available. Therefore, no threat to the safety of the general public was presented.

This event is being reported in accordance with 10CFR50.73(a)(2)(i) as an operational condition prohibited by TS.

### Additional Information

No known similar reportable events have been identified.

Diesel oil storage tank level transmitter LT-1400 is a Model 617B, manufactured by Robertshaw Controls (R290).



General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0550

December 22, 1987

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Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

DOCKET 50-255 - LICENSE DPR-20 - PALISADES PLANT --LICENSEE EVENT REPORT 87-040 -- (TECHNICAL SPECIFICATION REQUIREMENTS NOT MET FOR DIESEL OIL STORAGE TANK LEVEL)

Licensee Event Report (LER) 87-040, (Technical Specification Requirements Not Met for Diesel Oil Storage Tank Level) is attached. This event is reportable to the NRC per 10CFR50.73(a)(2)(i).

Brian D Johnson Staff Licensing Engineer

CC Administrator, Region III, USNRC NRC Resident Inspector - Palisades

Attachment

