DAP FORM 02-08C
SUPPLEMENTAL REPORT TO LER

DVR NO.							SYSTEM AFFECTED
	STA		UNIT		YEAR	NO.	
D	12	-	2	-	93	017 S1	

PART 1 TITLE OF EVENT

	OCCURRED	
Unusual Event not Declared in July from	7/6/93	1625
Both Unit 2 and Unit 2/3 Diesel Generators	7/7/93	1415
Being Inoperable due to Personnel Error	7/17/93	0523 and 1152
	DATE	TIME

REASON FOR SUPPLEMENTAL REPORT

To state results of Site engineering evaluation regarding Loss of the Circulating Lube Oil Pump and Loss of Turbo Charger Lube Oil Pump concerning Emergency Diesel Generator Operability.

PART 2

ACCEPTANCE BY STATION REVIEW	S Lawson	MC Strait	
DATE	12/17/93	12/17/93	
SUPPLEMENTAL REPORT APPROVED AND AUTHORIZED FOR DISTRIBUTION			
	STATION MANAGER		DATE 12/17/93

LICENSEE EVENT REPORT (LER)

Form Rev 2.0

Facility Name (1)	Docket Number (2)	Page (3)
Dresden Nuclear Power Station, Unit 2	0 5 0 0 0 2 3 7	1 of 0 4

Title (4)

Unusual Event not Declared in July from Both Unit 2 and Unit 2/3 Diesel Generators Being Inoperable due to Personnel Error

Event Date (5)			LER Number (6)				Report Date (7)			Other Facilities Involved (8)	
Month	Day	Year	Year	Sequential Number	Revision Number		Month	Day	Year	Facility Names	Docket Number(s)
0 9	0 8	9 3	9 3	--- 0 1 7	--- 0 1		1 2	2 1	9 3	N/A	
										N/A	

OPERATING MODE (9)	N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIRMENTS OF 10CFR (Check one or more of the following) (11)							
POWER LEVEL (10)	0 9 0		20.402(b)		20.405(c)		50.73(a)(2)(iv)		73.71(b)
			20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)		73.71(c)
			20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)		Other (Specify in Abstract below and in Text)
			20.405(a)(1)(iii)	X	50.73(a)(2)(i)		50.73(a)(2)(viii) (A)		
			20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)		
			20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(x)		

LICENSE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
J. J. Viney Ext.3526	AREA CODE 8 1 5 9 4 2 - 2 9 2 0

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)		Expected Submission Date (15)	Month	Day	Year
	Yes (If yes, complete EXPECTED SUBMISSION DATE)	X NO			

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On four occasions during the time periods of 1625 to 2053 on 7/6/93, between 1415 to 1419 on 7/7/93, between 0523 to 0604 and between 1152 to 1200 on 7/17/93. It was not recognized that when the feed breaker from Bus 29 to Motor Control Centers (MCC) 29-2 and 29-4 was open that both the Unit 2 and Unit 2/3 Emergency Diesel Generators (EDG) were inoperable and unusual events should have been declared per BWR Emergency Actions Levels (EALs) 3.e. The Unit 2 EDG was correctly considered inoperable due to loss of power to its cooling water pump as fed from MCC 29-2. The Unit 2/3 EDG was not considered inoperable per Dresden Operating Annunciator Procedure (DAN) DG 2/3 B (C2) (C3) because of a loss of power to its Circulating Lube Oil pumps that are fed from MCC 29-4. This was in error. The DAN that administratively declares the EDGs inoperable states the EDG may be used in an emergency. Since the 2/3 EDG could be used, Personnel in the Control Room did not declare the 2/3 EDG inoperable. The review of this event conducted by the Site Engineering Construction (SEC) group to determine if procedure revisions or plant modifications were required is now complete. Corrective action # 3 is changed.

PLANT AND SYSTEM IDENTIFICATION:

General Electric-Boiling Water Reactor-2527 MWt rated core thermal power.

Nuclear Tracking System (NTS) tracking code numbers are identified in the text as (XXX-XXX-XX-XXXXX)

EVENT IDENTIFICATION:

Unusual Event not Declared in July from Both Unit 2 and Unit 2/3 Diesel Generators Being Inoperable due to Personnel Error

A. CONDITIONS PRIOR TO EVENT:

Unit: 2 Event Date: On 7/6/93 On 7/7/93 On 7/17/93 Event Time: Between 1625 and 2053 Between 1415 and 1419 Between 0523 and 0604 and again between 1152 and 1200

Reactor Mode: Run Mode Name: N Power Level: 90%

Reactor Coolant System (RCS) Pressure: 1000 psig

B. DESCRIPTION OF EVENT:

On four occasions during the periods between 1625 to 2053 on 7/6/93, between 1415 to 1419 on 7/7/93, between 0523 to 0604 and again between 1152 to 1200 on 7/17/93 It was not recognized that when the feed breaker from Bus 29 to MCC 29-2 and MCC 29-4 was open that both the Unit 2 and Unit 2/3 Emergency Diesel Generators (EDG) were inoperable and unusual events should have been declared per EAL 3.e.

Trip of the feed breaker from bus 29 to MCC 29-2 and MCC 29-4 on 7/6/93 is discussed in LER 93-008 and the cause of the breaker trip is unknown and still under investigation. Trip of the feed breaker from bus 29 to MCC 29-2 and MCC 29-4 on 7/7/93 was a planned event to replace the feed breaker. Trip of the feed breaker from bus 29 to MCC 29-2 and MCC 29-4 on 7/17/93 was a second occurrence of the breaker trip due to an unknown condition. This trip is also included in LER 93-008.

MCC 29-2 supplies power to the cooling water pump of the Unit 2 EDG and it was recognized that the Unit 2 EDG was inoperable. MCC 29-4 supplies power to the Unit 2/3 EDG Circulating Lube Oil Pump and the Turbocharger Lube Oil Pump which ensure prelube to the engine and turbocharger. Although the 2/3 EDG trouble annunciator did alarm, it was not acknowledged by Personnel in the Control Room that the 2/3 EDG was administratively inoperable per DAN DG 2/3 B (C2) (C3). Both DANs have "Caution" statements that state loss of the Circulating Lube Oil Pump or loss of the Turbo Charger Lube Oil Pump will result in possible loss of immersion heaters and will cause loss of lubrication to the turbo charger bearings. In conclusion, both caution statements declare the Diesel Generator may be used for emergency conditions. However, the step after the caution statements in both DANs contain the words "declare the Diesel Generator inoperable".

The Updated Final Safety Analysis Report (UFSAR) explains the Diesel Generator Lube Oil System upgrade as a system to provide a continuous

lube oil supply to engine and turbocharger bearings during engine standby and, consequently, to reduce cumulative bearing damage due to lack of prelube. GM-EMD standard operating manual recommended prelubrication of the engines prior to any start which follows a shutdown period of 48 hours or more. Surveillance procedures did not include any provision for prelubrication. The UFSAR also states "The lube oil system modification has no effect on the start and load rate capability, overall capacity, or operability status of the diesel generator units as outlined in the Technical Specifications".

C. APPARENT CAUSE OF EVENT:

This report is being submitted in accordance with 10CFR50.73 (a) (2) (i) (B) which requires the reporting of any operation or condition prohibited by the plant's Technical Specifications.

Although Operations personnel were aware of the loss of the Circulating Lube Oil Pump and loss of the Turbo Charger Lube Oil Pump due to MCC 29-4 being deenergized, they did not consider the 2/3 EDG as being inoperable. Based on past experience and practices, the wording of both DAN procedures and the USFAR, the 2/3 EDG was judged as being degraded but still operable with a high degree of reliability. It was not realized at the time that the administratively inoperable 2/3 EDG constituted an Unusual Event and that proper notifications should have been made.

D. SAFETY ANALYSIS OF EVENT:

The safety significance is considered minimal. The pre-lube system is designed to provide a continuous supply of warm oil circulating to the Turbocharger and bearings in the Engine. This helps to reduce effects of rapid acceleration and prolong life and reliability of the Engine. In the event that the prelube system is lost, the EDG is still available to autostart and carry the required loads. Furthermore, the manufacturer implies that a loss of the prelube system would present a concern after 48 hours of inactivity. The prelube system was unavailable for a maximum of 5 hours during any one of the events and was restored immediately thereafter.

E. CORRECTIVE ACTIONS:

The proper agencies were notified.

Personnel involved were counselled by management on procedure adherence expectations.

This event has been included in training.

SEC is evaluating the this condition with the following objectives.

1. If the EDG's are indeed inoperable when the Circulating Lube Oil Pump and the Turbocharger Lube Oil Pump are not available, then a design change is required to change the source of power to the pumps of the 2/3 EDG.

2. SEC to evaluate when the Circulating Lube Oil Pump and the Turbocharger Lube Oil Pump are not available if immediately starting the affected EDG and letting it run unloaded until the oil pumps can be restored is a viable option.

3. This supplement LER is to provide the results of the evaluation by Site Engineering. It was determined that the EDG's will perform their design function if the Circulating Lube Oil Pump and the Turbocharger Lube Oil Pump are not available. Reference letter #0123076 from Site Engineering group to G. Spedl dated November 23, 1993. Dresden Annunciator Procedures are to be revised accordingly. (NTS # 237-200-93-10902)

F. PREVIOUS OCCURRENCES:

A Data Base search failed to find any applicable previous occurrences although one event was recognized as not being the correct EAL.

LER/Docket Numbers	Title
NTS # 2371009202004	Failure to declare an unusual event per criteria of either EAL No. 8.e. or 9.a.

G. COMPONENT FAILURE DATA:

Manufacturer	Nomenclature	Model Number	Mfg. Part Number
Not Applicable			