

June 3, 1994

GFSLTR 94-0176

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D. C. 20555

Licensee Event Report 94-011, Docket 50-237 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10CFR50.73(a)(2)(iv).

Sincerely,

Gary F() Spedl Station Manager Dresden Station

GFS/JJV:cfq

Enclosure

cc: J. Martin, Regional Administrator, Region III

NRC Resident Inspector's Office

File/NRC

File/Numerical

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FACILI			n Nu	ıclea	Power Stat	ion,	Uni	ts 2 a	and 3		DOC	KET	MUMBER (2) 05000237			PAGE (3) L OF 4
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MONTH	DAY	YE	AR	YEAR SEQUENTIAL NUMBER		REVISION NUMBER		MONTH	DAY	YEAR	1	FACILITY NAME Dresden 3			DOCKET NUMBER 05000249	
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CAUSE SYSTEM C				MPONENT	ENT MANUEACTURED REP			PORTABLE CAUSE			SYS	SYSTEM COMPONENT		MANUFACTURER		REPORTABLE TO NPRDS

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

SUPPLEMENTAL REPORT EXPECTED (14)

(If yes, complete EXPECTED SUBMISSION DATE).

At 0908 on May 04, 1994, while performing 4kV breaker checks on Bus 33 per a Special Procedure (Modification Test for Bus 33 Breakers and Stationary Switch Replacement), Bus 33 and Bus 33-1 were inadvertently de-energized. The 2/3 Emergency Diesel Generator (EDG)[EK] auto-started and closed onto Bus 33-1.

X NO

HONTH

EXPECTED

SUBMISSION

DATE (15)

DAY

YEAR

As part of the Special Procedure, the Nuclear Station Operator (NSO) was switching the Bus 33 feed from Transformer TR-31 (Unit Aux Transformer) to TR-32 (Reserve Aux Transformer). The NSO closed in the feed breaker from TR-32, but failed to notice that the breaker immediately went to its trip-free condition. The NSO then opened the feed breaker from TR-31, de-energizing Bus 33, which caused the Unit 2/3 EDG to start on Bus 33-1 undervoltage. The Unit 2/3 EDG started normally, closed-in to Bus 33-1, and was loaded and run for approximately 20 minutes. Power to Bus 33 was then restored from TR-31, and the Unit 2/3 EDG was secured.

The feed breaker from TR-32 went to its trip-free position because the TR-32 undervoltage relays had not been reset from a previous test.

YES

NRC FORM 366A (5-92)

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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY ONB NO. 3150-0104 EXPIRES 5/31/95

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

Dresden Nuclear Power Station Unit 2/3 Dresden Nuclear Power Station Unit 2/3

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

EVENT IDENTIFICATION:

Auto-start of 2/3 Emergency Diesel Generator Due to Operator Error.

A. PLANT CONDITIONS PRIOR TO EVENT:

Unit: 2 (3)

Event Date: 05/04/94

Event Time: 0908

Reactor Mode: N (N)

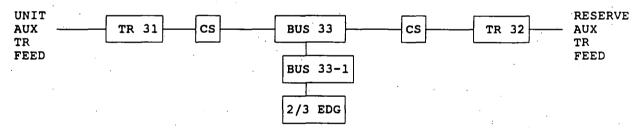
Mode Name: Run (Refuel)

Power Level: 010 (0)

Reactor Coolant System Pressure: 920 psig (0)

B. DESCRIPTION OF EVENT:

At 0908 on May 04, 1994, while performing 4Kv breaker checks on Bus 33 per a Special Procedure, Bus 33 and Bus 33-1 were inadvertently de-energized and the Unit 2/3 EDG auto-started and closed onto Bus 33-1. Bus 33 and Bus 33-1 were being fed from TR 31 feed breaker. The procedure steps being performed were meant to parallel feeds from TR 31 and TR 32 feed breakers across Bus 33 and then open the TR 31 feed breaker. (See sketch below)



The Operator had his hands on both TR 31 and TR 32 feed breaker control switches (CS) and was observing the Bus 33 amp meter. The Operator went to close on the breaker control switch for TR 32 and did not see any load picked up from the breaker closure. The Operator then realized that he should not see any load picked up because he had just verified all normal loads on the Bus were deenergized as part of the procedure he was performing. The Trip Free condition of TR 32 feed breaker to Bus 33 was not noticed by the Operator. The Shift Control Room Engineer (SCRE) observing the evolution noticed the Trip Free condition of TR 32 feed breaker but the Operator had operated the TR 31 feed breaker control switch before he could be warned.

Operators are taught not to rely on single indication but observing meter indication is stressed over breaker indication as this is the most accurate means of verifying breaker closure. The reason for opening the TR 31 feed breaker control switch in a timely manner is to reduce the possibility of the breaker tripping on an overcurrent condition due to circulating currents generated by phase mismatch of parallel power sources. An Annunciator alarm "Bus 33 Main and Res Bkr In Parallel" was expected to occur during the time both TR 31 and TR 32 feed breakers were closed. The Operator observing the Bus 33 Amp meters heard an alarm, "4Kv Main Feed Bkr Trip", signifying the breaker going to the Trip Free condition, he did not verify this was his expected alarm, "Bus 33 Main and Res Bkr In Parallel", and opened TR 31 feed breaker. The

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LICENSEE	EVENT	REPORT	(LER)
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TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

opening of TR 31 feed breaker de-energized of Bus 33 and Bus 33-1. The Unit 2/3 EDG auto-started and energized Bus 33-1. The Unit 2/3 EDG functioned properly and was loaded and ran for approximately 20 minutes, Bus 33 power was then transferred to TR 31 and the Unit 2/3 EDG was secured.

C. CAUSE OF EVENT:

This report is being submitted in accordance with 10CFR50.73(a)(2)(iv) which requires the reporting of any event or condition that resulted in manual or automatic actuation of any Engineered Safety Feature.

The reason for TR 32 feed breaker to Bus 33 Trip Free condition was discovered to be a deficiency in a procedure that had been performed previously. This procedure did not include a step to reset the TR 32 UV devices. An Annunciator alarm from the UV devices "Res Aux TR 32 Undervoltage" was locked in but it did not cause the Operators to realize the TR 32 UV relays had not been reset. The opening of TR 31 feed to Bus 33 while TR 32 feed to Bus 33 was in a Trip Free condition is attributable to Operator error.

D. SAFETY ANALYSIS:

The safety significance of this event is considered minimal. The loss of power to Bus 33 sent auto-start signals to the Emergency Diesel Generator logic. The Unit 2/3 Emergency Diesel Generator started as designed and properly closed onto Bus 33-1, loads were added to allow proper design conditions. The Unit 2/3 EDG was run loaded for approximately 20 minutes to allow proper temperature conditions and then secured.

E. CORRECTIVE ACTIONS:

A Shift Engineers Review Board (SERB) was convened and the event and possible consequences was discussed with the individual involved.

The event was tailgated to all operation crews and training was notified of the event to stress self-check and attention to detail when performing Special Procedures. The author of the Special Procedure was also notified.

A letter detailing the event has been placed on the operation crews bulletin board written by the individual involved concerning a self assessment of his actions during the event.

F. PREVIOUS OCCURRENCES:

LER/Docket Number

Title

94-011

Loss of Power to Bus 34 Resulted in Auto-Start of Unit 3 Emergency Diesel Generator Due lack of preventive maintenance on Bus Pots.

Bus Pots were cleaned and inspected. Bus Pot cleaning will be performed every other refuel outage.

NRC FORM 366A (5-92) U.S. NUCLEAR REGULATORY COMMISSION

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Dresden Nuclear Power Station Unit 2/3		94	011	00	4 OF 4

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

LICENSEE EVENT REPORT (LER)

TEXT CONTINUATION

93-012

Inadvertent Auto Start of 2/3 Diesel Generator Due to Mechanical Failure.

The affected breaker was repaired and testing was successful.

92-033

Inadvertent Auto Start of 2/3 Diesel Generator Due to cubicle door slam.

Include in HVO training syllabus caution to the sensitivity of the relays in question. Post warning signs on cabinet doors. Tailgate current cabinet door situation to all operators. Fixed cabinet doors so that excessive force or special techniques are not required to properly close the doors.

G. COMPONENT FAILURE DATA:

Not Applicable

EVENT SUMMARY AND CAUSE CODES

LER NUMBER

12-2-94-011

Lost generation Cost > \$25,000 Hazard or Spill Personnel injury Component Type X						Reactor trip X ESF actuation NRC reportable LER PSE Pailure mode						NRG GSI Tec Pote SAL			
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