

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Peach Bottom Atomic Power Station - Unit 2DOCKET NUMBER (2)
0 5 0 0 0 2 7 7 1 OF 0 4TITLE (4)
ECCS and Diesel Generator Initiation on False Reactor Low LevelEVENT DATE (5)
MONTH DAY YEAR
0 6 2 9 8 5 8 5
LER NUMBER (6)
SEQUENTIAL NUMBER
0 1 0
REVISION NUMBER
0 0 0
REPORT DATE (7)
MONTH DAY YEAR
0 7 3 1 8 5
OTHER FACILITIES INVOLVED (8)
FACILITY NAME
DOCKET NUMBER (8)
0 5 0 0 0 1 1
0 5 0 0 0 1 1THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 43.61 (Check one or more of the following) (11)
OPERATING MODE (9) N
POWER LEVEL (10) 0 1 0 0
20.402(a) 20.406(a) 60.73(a)(2)(iv) 73.71(a)
20.406(a)(1)(i) 60.73(a)(2)(v) 73.71(a)
20.406(a)(1)(ii) 60.73(a)(2)(vi) OTHER (Specify in Abstract below and in Test, NRC Form 364A)
20.406(a)(1)(iii) 60.73(a)(2)(vii)(A)
20.406(a)(1)(iv) 60.73(a)(2)(vii)(B)
20.406(a)(1)(v) 60.73(a)(2)(viii)LICENSEE CONTACT FOR THIS LER (12)
NAME W. C. Birely, Senior Engineer - Licensing Section
TELEPHONE NUMBER
AREA CODE 2 15
8 4 1 7 5 0 4 1 8COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)
CAUSE SYSTEM COMPONENT MANUFACTURER REPORTABLE TO NRC
N
CAUSE SYSTEM COMPONENT MANUFACTURER REPORTABLE TO NRCSUPPLEMENTAL REPORT EXPECTED (14)
YES (If yes, complete EXPECTED SUBMISSION DATE) X NO
EXPECTED SUBMISSION DATE (15)
MONTH DAY YEAR

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

Abstract: 2-85-10

On June 29, 1985 with Unit 2 in cold shutdown and all control rods in the full-in position, initiation of the Emergency Core Cooling System (ECCS) occurred. The event occurred when reactor level transmitter sensing lines were being backfilled. During the event, the E-1 and E-3 diesel generators failed to start as a result of a permit applied to the core spray system logic. Following the event, the initiation signal was reset and the affected systems were returned to service. There were no adverse consequences.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMS NO. 3150-0104

EXPIRES 8/31/86

FACILITY NAME (1) Peach Bottom Atomic Power Station - Unit 2	DOCKET NUMBER (2) 05000277815	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
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TEXT (if more space is required, use additional NRC Form 364a (17))

Description of the Event:

On June 29, 1985 at 2:20 a.m., with Unit 2 in cold shutdown, an ECCS and diesel generator start were initiated as a result of receiving an inadvertent reactor low level signal. The false low level signal that initiated this event was generated when reactor instrument sensing lines on rack 20C65B were being backfilled. The E-2 and E-4 diesel generators started; however, the E-1 and E-3 diesel generators did not start. The low level initiation signal was reset and the affected systems were returned to service. Investigation into the failure of the E-1 and E-3 diesel generators to start was initiated.

The EIIS code for the effected systems are JC and JM for reactor protection and primary containment isolation systems, respectively.

Consequences of the Event:

During the event, the ECCS logic operated properly. The failure of the E-1 and E-3 diesel generators to start was a result of a permit applied to the core spray logic.

Since the unit was in cold shutdown and had not operated since April 28, 1984, core spray and RHR system operability was not required. Operability of four diesel generators is not required with the unit in cold shutdown and offsite power available. Unit 3, which was in operation, did have all four diesel generator automatic initiations available at the time of the event. Therefore, there were no adverse consequences of this event.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

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Station - Unit 2

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NUMBERREVISION
NUMBER

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TEXT (If more space is required, use additional NRC Form 306A's) (17)

Cause of the Event:

At the time of the event, instrument rack 20C65B sensing lines, containing reactor level transmitters LT-2-6-72B & D, were being backfilled. Level transmitters LT-2-6-72B & D actuate the ECCS during a reactor low level condition. During backfilling, false low level signals from these transmitters initiated the automatic start of the E2 and E4 diesel generators. The E1 and E3 diesel generators did not start because of a permit applied to the core spray logic to permit the replacement of a test switch.

Backfilling is performed using a portable pressurized water supply or demineralized water header to purge instrument sensing lines of air. The instrument sensing lines were pressurized to approximately 100 psig with the instrument equalizer valves closed using the portable supply resulting in false reactor low water level signals from LT-2-6-72B & D.

Corrective Actions:

To prevent recurrence of the event and remove the root cause of events reported in LER's 2-85-04, 2-85-07, 2-85-09 and 2-85-10, continued use of the portable backfilling device was suspended on June 29, 1985. It was determined that a high degree of skill is required to backfill using the portable device and very slight error in its operation can cause the events described. Backfilling was completed using only demineralized water supplied at approximately 50 psig. The demineralized water source was isolated from the sensing lines using double check valves to prevent inadvertent contamination of the demineralized water lines. The method of performing backfilling will be reviewed further.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

TEXT (If more space is required, use additional NRC Form 365A's) (17)

Previous Similar Events

Similar events were reported for Peach Bottom Atomic Power
Station Unit 2 in the following LER's:

2-85-04
2-85-07

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

July 31 , 1985

Docket No. 50-277

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Washington, DC 20555

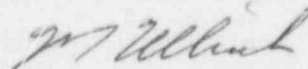
SUBJECT: Licensee Event Report
Peach Bottom Atomic Power Station - Unit 2

This LER concerns an automatic initiation of the Emergency Core Cooling System and the Diesel Generators with all control rods in the full-in position.

Reference:	Docket No. 50-277
Report Number:	2-85-10
Revision Number:	00
Event Date:	June 29, 1985
Report Date:	July 31, 1985
Facility:	Peach Bottom Atomic Power Station RD #1, Box 208, Delta, PA 17314

This LER is being submitted pursuant to the requirements of 10 CFR 50.73(a)(2)(iv). We regret the delayed submittal of this LER and any inconvenience it may have caused.

Very truly yours,



W. T. Ullrich
Superintendent
Nuclear Generation Division

cc: Dr. Thomas E. Murley, Administrator, Region I, USNRC
T. P. Johnson, Resident Inspector

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