

PETRY NUCLEAR POWER PLANT

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Michael D. Lyster
VICE PRESIDENT - NUCLEAR

January 6, 1992 PY-CEI/NRR-1433 L

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

> Perry Nuclear Power Plant Docket No. 50-440 LER 91-024

Dear Sir:

Enclosed is Licensee Event Report 91-024 for the Perry Nuclea. Power Plant.

The required submittal date for LER 91-024 was January 3, 1992. However, due to unanticipated delays this LER is being submitted 1 (one) working day after the required due date. The Perry NRC Resident Inspector and NRC Region III were notified of the delay on January 3, 1992.

Sincerely,

Michael D. Lyster

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Enclosure: LER 91-024

cc: NRC Project Manager NRC Sr. Resident Inspector NRC Region III

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LICENSES EVENT REPORT (LER)

ESTIGATED BURDEN FER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST TOO HRS FORWARD COMMENTS REGARDING DURIEN ETHINGT TO THE RECORDS AND REPORTS MARAGEMENT BRANCH (F430), U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON DC 2055S, AND TO THE FAFERWORK REDUCTION FROUT OF 3150 61041, OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503

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On December 4, 1991, a Perry Plant Operator (PPO) performing a weekly check of the Emergency Service Water (ESW) keepfill system discovered the keepfill system pressure reading approximately 3.5 psig. The keepfill system pressure is required to be \geq 13 psig when the ESW A loop is in standby. The PPO checked the position of keepfill isolation valve 1P45-F72OA and found it closed. The ESW A loop and associated loads were declared inoperable in accordance with the applicable Technical Specification Action Statements.

The mispositionin, 'valve 1P45-F720A was attributed to personnel error. The last authorized repositioning of 1P45-F720A occurred on November 21, 1991. Interviews of personnel performing work in the vicinity of the keepfill isolation valve did not reveal the source of the error. It was therefore assumed that the valve mispositioning was an unintentional error by an unidentified person.

To prevent recurrence of a similar incident involving the keepfill isolation valve, the required valve position will be changed from normally open to locked open. Additionally, all licensed and non-licensed plant operators will receive training on this event as part of requalification training.

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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3180-0104 EXPIRES 4/30/02

LICENSZE EVENT REPORT (LER)

ESTIMATED BURDEN PER JESPONSE TO COMPLY WITH THIS INFORMATION POLLECTION REQUEST BOO HRS FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (F-330). US NUCLEAR REGIJ, AYORY COMMISSION, WASHINGTON, DC 20856, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104). OFFICE OF MANAGEMENT AND BUDDET WASHINGTON, 020803.

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Perry Nuclear Power Plant, Unit I	0 6 0 0 0 4 4 0	911 -0 12 14 - 0 10	012 01 014		

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I. Introduction

On December 4, 1991, at 2115, the Emergency Service Water (ESV) [BI] A loop was declared inor rable due to a mispositioned valve. At the time of the event, the plant was in erational Condition 1 (Power Operation) at 100 percent of ated thermal power with the Reactor Pressure Vessel [RPV] at approximately 1025 psig and saturated conditions.

II. Description of the Event

On December 4, 1991, at 2115, a Perry Plant Operator (PPO) performing a weekly check of the Emergency Service Water (ESW) keepfill system discovered the keepfill system pressure reading approximately 3.5 psig. At the time of the event the ESW A loop was thought to be in the standby mode. In this configuration, the required pressure for the keepfill system is greater than or equal to 13 psig. Upon discovery of the abnormal reading the PPO immediately notified the Control Room. The PPO subsequently shecked the position of ESW keepfill isolation valve 1P45-F720A and found it closed. At the direction of the Control Room 1P45-F720A was opened and flow was heard through the valve. The PPO opened downstream sample collection isolation valve 1P45-F723A and vented a steady flow of air for approximately five minutes. The ESW A loop was then filled and vented in accordance with System Operating Instruction (SOI) P45/P49, Emergency Service Water and Screen Wash Systems (Unit 1).

Concurrent with these activities, the Control Room declared ESW A loop inoperable and took the appropriate actions required by applicable Technical Specifications sections. The Control Complex Chilled Water System loop A (P42) and Control Room HVAC/Emergency Recirculation System (M25/M26) train A were made inoperable as a result of the ESW A loop inoperability. Train B of M25/M26 was out of service due to a scheduled catage. The inoperability of both trains of M25/M26 required entry into the Technical Specification 3.0.3 action statement.

At 2330 hours on December 4, 1991, a four-hour notification was made to the NRC pursuant to the requirements of 10CFR50.72(b)(2)(iii)(D). This event is additionally being reported under the corollary reporting requirements of 10CFR50.73(a)(2)(v)(D) and 10CFR50.73(a)(2)(i)(B). The ESW A loop operability was restored when the fill and vent operation was completed.

III. Cause Analysis

The mispositioning of valve 1P45-F720A, which resulted in the ESW A loop inoperability was attributed to personnel error. The last authorized repositioning of the ESW keepfill isolation valve was performed on November 21, 1991, during a quarterly surveillance test. Interviews with personnel who performed work in or near the area of the valve did not reveal the source of the apparent error. It was therefore assumed that the valve mispositioning was an unintentional error by an unidentified person. The last weekly check of the ESW

NRC FORM 366A

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APPROVED DMB NO 3150-0104 5xPIRES 4/30/92

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO DOMPLY WITH THIS INFORMATION COLLECTION REQUEST 500 HRS FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (FS3D). US NUCLEAR REGULATORY COMMISSION WASHINGTON DC 20556, AND TO THE PARENWORK REQUETION PROJECT (3156-0104). OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
Perry Nuclear Power Plant, Unit 1		YEAR SECUENTIAL REVISION NUMBER		
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ker; "11 system pressure was performed on November 27, 1991, with satisfactory results

All manipulations of valve 1P45-F720A require completion of a Verification Checklist with the exception of repositionings covered by test procedures. Valve repositioning for 1P45-F720A for the above referenced testing required independent verification of the valve's position for restoration. No other documentary evidence could be found to justify repositioning the subject valve after the testing completed on November 21, 1991.

After that date, the ESW A loop was operated on the following dates:

- 11/28/91 to support a storage tank discharge
- 11/29/91 to support a Division 1 Diesel run
- 12/01/91 to support a storage tank discharge
- 12/03/91 to support a storage tank discharge

Valve 1P45-F720A was not required to be operated for any of the above activities.

IV. Safety Analysis

The primary function of the ESW keepfill system is to prevent water hammer during ESW system startup from a standby or secured status. The ESW system is comprised of three independent loops. The system is designed such that the occurrence of any single active or passive failure will not reduce the safety-related functional performance of the Emergency Core Cooling System (ECCS). The ESW system is capable of supplying cooling water to the equipment on two of the three ESW loops following a single failure. The ESW A loop supplies the following loads:

- RHR Heat Exchanger A
- Division 1 Diesel Generator Heat Exchanger
- Emergency Closed Cooling Heat Exchanger A
- Unit 2 Fuel Pool Cooling and Cleanup Heat Exchanger A (normally isolated)

An automatic start signal for the ESW A loop in the configuration which existed at the time of discovery on December 4, 1991, could have resulted in damage to the A loop due to water hammer. The ESW system safety function would not have been compromised in the event that the ESW A loop was lost if damage had occurred. This event is therefore considered not to be safety significant.

V. Similar Events

Several occurrences of mispositioned valves have been documented over the last two years in LEAs 89-24, 90-34, 90-38, and 90-41. The latter three LERs involved mispositionings attributed to unintentional personnel errors. None of these events resulted in the inoperability of the ESW system.

NRC FORM 366A

U.S. NUCLEAR REQULATORY COMMISSION

APPROVED OME NO 3160-0104 EXPIRES 4/30/82

TEXT CONTINUATION

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VI. Corrective Actions

The required position for the ESW keepfill isolation valves 1P45-F720A(B) have been changed from normally open to locked open to prevent future occurrences of this event. Additionally, all licensed and non-licensed plant operators will receive training on this event as part of requalification training.

Energy Industry Identification System Codes are identified in the text as [XX].