



February 16, 2000

United States Nuclear Regulatory Commission
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Operating License DPR-58
Docket No. 50-315

Document Control Manager:

In accordance with the criteria established by 10 CFR 50.73 entitled Licensee Event Report System, the following report is being submitted:

LER 316/2000-001-00, "THROUGH-LINER HOLE DISCOVERED IN CONTAINMENT LINER"

The following commitments were identified in this submittal:

- Repairs to the containment liner will be completed prior to the restart of Unit 2.

If you have any questions, please contact Mr. Robert C. Godley, Director, Regulatory Affairs, at 616/465-5901, extension 2698.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. W. Rencheck'.

M. W. Rencheck
Vice President – Nuclear Engineering

/mbd
Attachment

c: J. E. Dyer, Region III
R. C. Godley
D. Hahn
W. J. Kropp
R. P. Powers
R. Whale
Records Center, INPO
NRC Resident Inspector

NRC FORM 366 (6-1998) U.S. NUCLEAR REGULATORY COMMISSION LICENSEE EVENT REPORT (LER) (See reverse for required number of digits/characters for each block)	APPROVED BY OMB NO. 3150-0104 EXPIRES 06/30/2001 Estimated burden per response to comply with this mandatory information collection request: 50 hrs. Reported lessons learned are incorporated into the licensing process and fed back to industry. Forward comments regarding burden estimate to the Records Management Branch (T-6 F33), 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. If an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.
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FACILITY NAME (1) Cook Nuclear Plant Unit 2	DOCKET NUMBER (2) 05000-316	PAGE (3) 1 OF 2
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TITLE (4)
THROUGH-LINER HOLE DISCOVERED IN CONTAINMENT LINER

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
01	17	2000	2000	001	00	02	16	2000	FACILITY NAME	DOCKET NUMBER
									FACILITY NAME	DOCKET NUMBER

OPERATING MODE (9)	-	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)								
		20.2201(b)			20.2203(a)(2)(v)			50.73(a)(2)(i)		50.73(a)(2)(viii)
POWER LEVEL (10)	0%	20.2203(a)(1)			20.2203(a)(3)(i)			X 50.73(a)(2)(ii)		50.73(a)(2)(x)
		20.2203(a)(2)(i)			20.2203(a)(3)(ii)			50.73(a)(2)(iii)		73.71
		20.2203(a)(2)(ii)			20.2203(a)(4)			50.73(a)(2)(iv)		OTHER
		20.2203(a)(2)(iii)			50.36(c)(1)			50.73(a)(2)(v)		Specify in Abstract below or in NRC Form 366A
		20.2203(a)(2)(iv)			50.36(c)(2)			50.73(a)(2)(vii)		

LICENSEE CONTACT FOR THIS LER (12)

NAME Mary Beth Depuydt, Regulatory Compliance	TELEPHONE NUMBER (Include Area Code) (616) 465-5901 X 1589
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX

SUPPLEMENTAL REPORT EXPECTED (14)				EXPECTED SUBMISSION			
<input checked="" type="checkbox"/>	YES (If yes, complete EXPECTED SUBMISSION DATE).		NO		MONTH	DAY	YEAR
					05	16	2000

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

In November 1999, during the Coatings Assessment and Inservice Program inspection of the Unit 2 containment liner, an indication was found that appeared to be a weld repair of the liner plate. Surface preparation to allow for further inspection dislodged repair material from what appears to be a previously repaired area, resulting in an approximately 3/16 inch circular through-liner hole. On January 17, 2000, at 1649 hours Eastern Standard Time (EST) an Emergency Notification System (ENS) report was made in accordance with 10 CFR 50.72(b)(2)(i), for a condition which was found while the reactor is shutdown, which would have resulted in the plant, including its principal safety barriers, being seriously degraded or being in an unanalyzed condition that significantly compromises plant safety. This LER is therefore submitted in accordance with 10 CFR 50.73(a)(2)(ii)(A).

The cause of the through-liner hole cannot be positively determined at this time. The damaged area is being removed for metallurgical analysis and to facilitate repair. Inspection of the Unit 2 containment liner has been completed and no similar indications were found. Future inspections per the Containment Inspection and the Safety Related Coatings Programs will ensure the integrity of the liner plate. Containment liner plate repair per the ASME Section XI Repair and Replacement Program, ensures that repairs on ISI Code class components meet the applicable code requirements.

The most recent 10CFR 50 Appendix J Integrated Leakage Rate Testing (ILRT) performed on the Unit 2 containment was conducted in May, 1992. The test results showed as found leakage to be well within the maximum allowable leak rate. Therefore, under test conditions, the discrepant area did not significantly affect the leak tightness of the containment. However, concerns existed that under the thermal stress of a postulated accident condition, the repair material could have dislodged. A supplement to this LER will be submitted upon completion of the root cause investigation.

**LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION**

FACILITY NAME (1)	DOCKET (2) NUMBER (2)	LER NUMBER (6)			PAGE (3)
Cook Nuclear Plant Unit 2	05000-316	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2 OF 2
		2000	001	00	

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

Conditions Prior To Event

Unit 2 was de-fueled

Description Of The Event

In November 1999, during the Coatings Assessment and Inservice Program inspection of the Unit 2 containment liner, an area was found that was missing the required protective coating and rusting slightly. Due to the nature of the indication and the missing coating, it was decided to further investigate the indication to determine actual base metal condition. On January 17, 2000, surface preparation to allow for further inspection dislodged repair material from a previously repaired area on the liner plate resulting in an approximately 3/16 inch circular through-liner hole.

Cause Of The Event

The cause of the through-liner hole cannot be positively determined at this time. The exterior surface hole diameter is smaller than the interior hole diameter, with a smooth interior surface. Therefore, the damage does not appear to be a result of corrosion. The damaged area is being removed for metallurgical analysis to determine the cause of the damage. A search of Unit 2 containment construction records failed to identify a record of any liner plate through-wall repairs.

Analysis Of The Event

On January 17, 2000, at 1649 hours EST an ENS report was made in accordance with 10 CFR 50.72(b)(2)(i), a condition which was found while the reactor is shutdown, which would have resulted in the plant, including its principal safety barriers, being seriously degraded or being in an unanalyzed condition that significantly compromises plant safety. This LER is therefore submitted in accordance with 10 CFR 50.73(a)(2)(ii)(A).

The most recent 10CFR 50 Appendix J Integrated Leakage Rate Testing (ILRT) performed on the Unit 2 containment was conducted in May, 1992. The test results showed as found leakage to be well within the maximum allowable leak rate. Therefore, under test conditions, the discrepant area did not affect the leak tightness of the containment. However, concerns existed that under the thermal stress of a postulated accident condition, the repair material could have dislodged.

Corrective Actions

The liner plate repair along with the necessary examinations, inspections, and testing will be performed in accordance with the ASME Section XI Repair / Replacement Plan. The Containment Inspections Program and the Safety Related Coatings Program will contribute to identification of conditions on the liner plate that are adverse to quality. Inspection of the Unit 2 containment liner coatings and exposed surfaces has been completed. No additional deficiencies challenging the barrier integrity were identified during this visual inspection. Repairs to the containment liner will be completed prior to the restart of Unit 2.

Repairs to the Containment liner plate are required to be performed in accordance with the ASME Section XI Repair and Replacement Program. This program ensures that repairs on ISI Code Class components will meet the applicable code requirements.

Similar Events

None