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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104

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ACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMMER (6) PAGE (3)
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Initial Conditions:

IRC Form 366A

Operational Condition: 4 (Cold Shutdown) Reactor Power: 0% Reactor Pressure: 0 psig Reactor Temperature: approximately 105 degrees Fahrenheit

Description of Event:

Periodic leak rate testing of primary containment isolation valves (ISV) was completed as required by Technical Specification Surveillance Requirement 4.6.1.2, during the Local Leak Rate Testing (LLRT) Outage. The primary containment isolation valves were subjected to tests as specified by 10 CFR 50 App. J. The Technical Specification leakage limit of 178 Standard Cubic Feet per Hour (SCFH) for Type B and C tests and the leakage limit for Main Steam Isolation Valves (MSIV) of 100 SCFH were exceeded. In all. a total of forty-four of the 237 valves tested significantly contributed to total combined leakage for the primary containment boundary. After the completion of testing, the determination was made that the combined leakage limits as specified in Technical Specification Limiting Condition for Operation (LCO) 3.6.1.2 b, c, d and e were exceeded.

The forty-four primary containment isolation values were cleaned, reworked, refurbished and successfully retested to bring the total allowable leakage into compliance with Technical Specification 4.6.1.2.

Cause of the Event:

The basis of the surveillance requirement is to allow for the early detection of valve leakage due to normal wear and degradation during a specified time interval. The valve leakage was caused by normal degradation of valve components and/or contaminants on the valve seats.

Analysis of Event:

LLRT is performed to detect degradation in the leakage characteristics of containment penetrations. Any degradation found is corrected so that the total leakage of all containment penetrations is within Technical Specification Limits. The frequency of the testing is such that gross degradation of the containment penetration barriers does not occur between testing periods.

NRC Form 366A 19-23	LICENSEE EVENT REPORT	(LER) TEXT CON	TINUATION	U.S. NUCLEAR REG APPROVED OF EXPIRES 8/31	ULATORY COMMISSION WB NO: 3150-0104 88
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In the case of isolation in the Main Steam System (SB) following a postulated loss of coolant accident, both air operated sets of MSIVs, the turbine stop valves (FCV), the control valves (FCV) and the bypass valves (V) would close in order to seal the main steam lines. If required, the control room operators would initiate the Main Steam Isolation Valve Leakage Control System (MSIVLC) Isolation Valves and manually close a third set of motor operated MSIVs. The MSIVLC is a safety grade system designed to prevent leakage through the MSIVs by maintaining the volume between the MSIVs at a pressure greater than the containment pressure. Then any leakage through the MSIVs would be into the containment.

For all LLRT, penetration leakages measured during testing are determined using a maximum pathway method. That is, the maximum possible penetration leakage is used in determining Technical Specification acceptance. In reality, minimum path way leakages would occur and any leakage would be contained within process piping. Since no valves were found inoperable during this period, this assumption is reasonable. In addition, some of the systems would be in operation during accident conditions and therefore their corresponding penetrations would be in use. Thus, failure of the individual valves to meet LLRT requirements does not automatically mean a loss of primary containment integrity.

Corrective Actions:

Forty-four values were cleaned, reworked and/or refurbished. The values were then retested and leakage certified to be in compliance with Technical Specification Surveillance Requirement 4.6.1.2. The following table summarizes the present condition and test results of the primary containment isolation values and penetrations.

Type of Test	As Left Condition	Technicel Specification Limit
Type B and C *	88.25 SCFH	178 SCFH
MSIV	7.93 SCFH	100 SCFH
Hydrostatic	1.51 GPM	5 GPM

NRC Form 366A 9 331	LICENSEE EVEN	T REPORT (LER) TEXT CONTIN	UATION	U.S. NUCLEAR REI APPROVED C EXPIRES 8/3	GULATORY COMMISSION DMB NO 3150-0104 1/88	
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In Licensee Event Report 86-011, excessive leakage from the main steam isolation valves during local leak rate testing was reported.

William S. Orser Vice President Nuclear Operations

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Fermi 2 6400 North Dixle Highway Newport, Michigan, 48166 (313) 686-5300 SP

Nuclear

Operations

May 27. 1988 NRC-88-0127

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

Reference:

(1) Fermi 2 NRC Docket No. 50-341 Facility Operating License No. NPF-43

(2) Transmittal of Licensee Event Report 88-008-00 dated March 30, 1988, NRC-88-0087

Subject: Licensee Event Report (LER) No. 88-008-01

Please find enclosed LER No. 88-008-01, dated May 27, 1988, for a reportable event that occurred on February 29, 1988. This LER is being revised to describe the final findings of Local Leak Rate Testing conducted during outage 88-01. A copy of this LER is also being sent to the Regional Administrator, USNRC Region III.

If you have any questions, please contact Joseph Pendergast at (313) 586-1682.

Sincerely Welling

Enclosure: NRC Forms 366, 366A

- cc: A. B. Devis
 - J. R. Eckert
 - R. C. Knop
 - T. R. Quay
 - W. G. Rogers

Wayne County Emergency Management Division

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