NRC Form 366 (9-83)  LICENSEE EVENT REPORT (LER)										NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES. 8/31/65					
FACILITY NAME	0000 C	C	70V	INIT O			. 66				DOCKET NUMBER		PAGE (3)		
TITLE (4)				UNIT 2 OF BODY-TO	D-BONNET	STUD	S ON	RTD M	MNIFO	OLD ISOLA	TION VALV	10 3   1 6 E	[1 OF 0]		
EVENT DAT	EVENT DATE (8)			LER NUMBER	REPORT DATE (7)				OTHER	THER PACILITIES INVOLVED (8)					
MONTH DAY	DATH DAY YEAR		YEAR SEQUENTIAL RENUMBER NO		L REVISION NUMBER	MONTH DAY YEAR			FACILITY NAMES			0   5   0   0   0   1			
1 2 2 6	8	4	8 4	0 3	5 0 0	0 1	2 4	8 5				0  5   0   0	10111		
OPERATING MODE (9)		7	-	-			TO THE REQUIREMENTS OF 10 CFR &: /Chec				of the following) (1				
POWER LEVEL	POWER LEVEL		20.402(b) 20.406(a)(1)(i) 20.406(a)(1)(ii) 20.406(a)(1)(iii) 20.406(a)(1)(iv) 20.406(a)(1)(v)			20.405(e) 50.36(e)(1) 50.36(e)(2) 50.73(e)(2)(i) 50.73(e)(2)(ii) 50.73(e)(2)(iii)				80.73(a)(2)(iv) 80.73(a)(2)(v) 80.73(a)(2)(vii) 80.73(a)(2)(viii) 80.73(a)(2)(viii) 80.73(a)(2)(vii)		73.71(a) 73.71(c) OTHER (Specify in Abstract below and in Text, NRC Form 366A) VOLUNTARY			
					L	ICENSEE	CONTACT	FOR THIS	LER (12)						
N. C.	WIL	LI	AM3	- MAINTEN		-		-	-	ENT	CAPTURE TO STATE OF THE PARTY O	4 6 5 -			
CAUSE SYSTEM	COMP				REPORTABLE TO NPRDS			CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPROS			
	1	-							-						

DURING NORMAL STARTUP OPERATIONS ON 12/24/84, WITH UNIT 2 REACTOR COOLANT SYSTEM IN MODE 3 (HOT STANDBY), A CONTAINMENT INSPECTION REVEALED THAT VALVE 2-RC-107 LOOP 4 HAD A BODY-TO-BONNET LEAK. 2-RC-107 IS A 3 INCH VELAN GATE VALVE AND IS THE DOWNSTREAM ISOLATION FOR THE REACTOR COOLANT LOOP 4 RESISTANCE TEMPERATURE DETECTOR MANIFOLD. THE UNIT WAS RETURNED TO MODE 5 (COLD SHUTDOWN) AND THE VALVE DISASSEMBLED FOR INSPECTION AND REPAIR. DURING DISASSEMBLY IT WAS DISCOVERED THAT THE CARBON STEEL BODY-TO-BONNET STUDS WERE SEVERELY WASTED DUE TO CORROSIVE EROSION. A NEW BONNET GASKET AND NEW CARBON STEEL STUDS WERE INSTALLED. THREE SIMILAR VALVES WERE INSPECTED AN NO DEFICIENCIES WERE NOTED.

MONTH

DATE (15)

DAY

YEAR

SUPPLEMENTAL REPORT EXPECTED (14)

THE CARBON STEEL STUDS AND NUTS ON 2-RC-107 IN LOOPS ONE THROUGH FOUR WILL BE REPLACED WITH STAINLESS STEEL STUDS AND NUTS UNDER DESIGN CHANGE 12-2718 DURING THE NEXT REFUELING OUTAGE.

THIS LER IS BEING SUBMITTED DUE TO THE SIMILARITY BETWEEN THIS EVENT AND THOSE DESCRIBED ON IE BULLETIN 82-02.

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YES (If yes, complete EXPECTED SUBMISSION DATE)

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (18)

NRC Ford 368A (9-83)	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION						U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES 8/21.85					
FACILITY NAME (1)		DOCKET NUMBER (2)			ER NUMBER (6	5)		PAGE (3)				
			YEAR		SEQUENTIAL		PEVSION		T			
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ON 12/24/84 AT APPROXIMATELY 1400 HOURS, WITH UNIT 2 REACTOR COOLANT SYSTEM IN MODE 3 (HOT STANDBY), BODY-TO-BONNET LEAKAGE WAS IDENTIFIED ON REACTOR COOLANT SYSTEM (AB) VALVE 2-RC-107 LOOP 4 (ISV). UNIT 2 WAS BEING RETURNED TO SERVICE AFTER A SCHEDULED OUTAGE AND OPERATIONS PERSONNEL WERE CONDUCTING A CONTAINMENT INSPECTION DURING WHICH THE LEAK WAS DISCOVERED. THE UNIT WAS RETURNED TO MODE 5 (COLD SHUTDOWN) AND REPAIRS INITIATED.

VALVE 2-RC-107 LOOP 4 IS A 3 INCH, 1500 P.S.I. GATE VALVE, MODEL B10-3548-13M, MANUFACTURED BY VELAN CORPORATION (VENDOR DWG. 8843-016 REV. A). THIS VALVE IS THE DOWNSTREAM ISOLATION FOR THE LOOP FOUR RESISTANCE TEMPERATURE DETECTOR MANIFOLD. DURING DISASSEMBLY OF THE VALVE IT WAS DISCOVERED THAT ALL 12 CARBON STEEL BODY-TO-BONNET STUDS WERE SEVERELY WASTED DUE TO CORROSIVE EROSION. TWO STUDS BROKE IN HALF DURING REMOVAL. THE CONDITION OF THE STUDS IS ATTRIBUTED TO EXTENDED CONTACT WITH BORATED WATER AND STEAM. ALL 12 STUDS WERE REPLACED WITH NEW CARBON STEEL STUDS AND A NEW BONNET GASKET WAS INSTALLED. THREE SIMILAR VALVES, 2-RC-107 LOOP 1, LOOP 2 AND LOOP 3, WERE INSPECTED AND NO EVIDENCE OF CORROSION OR LEAKAGE WAS FOUND. AT 1215 HOURS ON 12/27/84 UNIT STARTUP WAS REINITIATED AND VALVE 2-RC-107 LOOP 4 WAS INSPECTED AT SYSTEM TEMPERATURE AND PRESSURE. NO INDICATIONS OF LEAKAGE WERE FOUND.

FOUR SIMILAR VALVES IN UNIT 1, 1-RC-107 LOOP 1, LOOP 2, LOOP 3 AND LOOP 4 WERE INSPECTED AND NO INDICATIONS OF LEAKAGE WERE FOUND.

THE CARBON STEEL STUDS AND NUTS OF ALL FOUR 2-RC-107 VALVES WILL BE REPLACED WITH STAINLESS STEEL STUDS AND NUTS THROUGH IMPLEMENTATION OF DESIGN CHANGE RFC 12-2718. THIS WORK IS CURRENTLY PLANNED FOR THE NEXT REFUELING OUTAGE.

THIS LER IS BEING SUBMITTED DUE TO THE SIMILARITY BETWEEN THIS EVENT AND THOSE DESCRIBED ON IE BULLETIN 82-02.

System INDIANA & MICHIGAN ELECTRIC COMPANY

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P.O. Box 458, Bridgman, Michigan 49106

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January 24, 1985

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Operating License DPR-74 Docket No. 50-316

Document Control Manager:

In accordance with the criteria established by 10CFR50.73 entitled <u>Licensee Event Reporting System</u>, the following report/s are being submitted:

RO 84-035-0

Sincerely,

W.G. Smith, Jr.
Plant Manager

/cbm

Attachment

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