NRC Form 366
(9/83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3	0 5 0 0 0 3 6 2	1 OF 0 2

TITLE (4)

MAIN STEAM ISOLATION VALVES INOPERABLE

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQ. NUMBER	REV. NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)
										0 5 0 0 0
0 3	3 0	8 4	8 4	0 1 2	0 0	0 4	3 0	8 4		0 5 0 0 0

OPERATING MODE (9)	3	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)							
POWER LEVEL (10)	0 0 0		20.402(b)		20.405(c)		50.73(a)(2)(iv)		73.71(b)
			20.405(a)(1)(i)		50.36(c)(1)	X	50.73(a)(2)(v)		73.71(c)
			20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)
			20.405(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(viii)(A)		
			20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)		
			20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(x)		

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
	AREA CODE
J. G. HAYNES, STATION MANAGER	7 1 4 — 4 9 2 - 7 7 0 0

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
	YES (If yes, complete EXPECTED SUBMISSION DATE)				
X	NO				

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

On 3/30/84 at 0500, with Unit 3 in Mode 3, Main Steam Isolation Valves (MSIV's) 3HV8204 and 3HV8205 failed to close within five seconds as required by Technical Specification Surveillance Requirement 4.7.1.5. 3HV8204 and 3HV8205 shut in seven (7) and five and one-half (5.5) seconds, respectively. Both valves were maintained closed to fully meet their intended safety function.

Investigation determined that the cylinder nitrogen pressure which provides the closing force for the MSIV's was less than the expected 1120 to 1130 psig with the MSIV's closed. However, the nitrogen pressure was above the minimum specified 2000 psig with the MSIV's open prior to performing the surveillance. We are considering changes to the low pressure alarm setpoint to provide better detection of low dome nitrogen pressure. Additionally, a Technical Specification change will be submitted to increase the MSIV closure time from five (5) to six (6) seconds. The six (6) second closure has been shown to result in consequences conservatively bounded by the existing safety analysis. The cylinders were charged to 1125 psig. 3HV8204 and 3HV8205 stroked satisfactorily on April 1 and April 2, 1984, respectively.

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
		YEAR	SEQ. NUMBER	REV. NUMBER	
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3	0 5 0 0 0 3 6 2	8 4	0 1 2	0 0	0 2 OF 0 2

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

On March 30, 1984, at 0500, with Unit 3 in Mode 3, during routine surveillance testing, Main Steam Isolation Valves (EIIS Component Code ISV) 3HV8204 and 3HV8205 failed to close within five (5) seconds as required by Technical Specification Surveillance Requirement 4.7.1.5. 3HV8204 and 3HV8205 closed in seven (7) and five and one-half (5.5) seconds, respectively. Both valves were maintained in a closed position with their respective power supply deactivated in order to ensure that they were capable of performing their intended safety function. The last successful stroke tests of both valves were completed on February 24, 1984.

Investigation determined that the cylinder dome pressure which provides the closing force for the Main Steam Isolation Valves (MSIV's) was less than the expected 1120 to 1130 pounds per square inch gauge (psig) with the MSIV's closed. However, the nitrogen pressure was above the minimum specified 2000 psig with the MSIV's open prior to performing the surveillance. We are considering changes to the low pressure alarm setpoint to provide better detection of low dome nitrogen pressure. Additionally, a Technical Specification Change will be submitted to increase the MSIV closure time from five (5) to six (6) seconds. The six (6) second closure time has been shown to result in consequences that are conservatively bounded by the existing FSAR analyses. The cylinders were charged to 1125 psig, and 3HV8204 and 3HV8205 were retested satisfactorily on April 1, 1984, and April 2, 1984, respectively.

Since closure of one of the two MSIV's within six (6) seconds following a postulated main steam line break is within existing safety analyses and 3HV8205 was determined to have a five and one-half (5.5) second closure time, this event did not significantly compromise plant safety.

There are no reasonable or credible circumstances under which this event would have been more severe.

Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION
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SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES
STATION MANAGER

TELEPHONE
(714) 492-7700

April 30, 1984

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

Subject: Docket No. 50-362
30-Day Report
Licensee Event Report No. 84-012
San Onofre Nuclear Generating Station, Unit 3

Pursuant to 10 CFR 50.73(a)(2)(v)(D), this submittal provides the required 30-day written Licensee Event Report (LER) for an occurrence involving the Main Steam Isolation Valves. The health and safety of plant personnel or the public were not affected by this event.

If you require any additional information, please so advise.

Sincerely,

J G Haynes / [illegible]

Enclosure: LER 84-012

cc: A. E. Chaffee (USNRC Resident Inspector, Units 1, 2 and 3)
J. P. Stewart (USNRC Resident Inspector, Units 2 and 3)

J. B. Martin (Regional Administrator, NRC Region V)

Institute of Nuclear Power Operations (INPO)

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