

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2	DOCKET NUMBER (2) 0 5 0 0 0 3 6 7	PAGE (3) 1 OF 0 2
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TITLE (4)
COMPONENT COOLING WATER TRAINS 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 8	1 5	8 4	8 4	0 4 1 6	0 0	0 9	1 7	8 4	UNIT 3		0 5 0 0 0 3 6 2																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">OPERATING MODE (9) 1</td> <td colspan="11">THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)</td> </tr> <tr> <td rowspan="5">POWER LEVEL (10) 1 0 0</td> <td><input type="checkbox"/> 20.402(b)</td> <td><input type="checkbox"/> 20.405(c)</td> <td><input type="checkbox"/> 50.73(a)(2)(iv)</td> <td><input type="checkbox"/> 73.71(b)</td> </tr> <tr> <td><input type="checkbox"/> 20.405(a)(1)(i)</td> <td><input type="checkbox"/> 50.36(c)(1)</td> <td><input type="checkbox"/> 50.73(a)(2)(v)</td> <td><input type="checkbox"/> 73.71(c)</td> </tr> <tr> <td><input type="checkbox"/> 20.405(a)(1)(ii)</td> <td><input checked="" type="checkbox"/> 50.36(c)(2)</td> <td><input type="checkbox"/> 50.73(a)(2)(vii)</td> <td rowspan="3">OTHER (Specify in Abstract below and in Text, NRC Form 366A)</td> </tr> <tr> <td><input type="checkbox"/> 20.405(a)(1)(iii)</td> <td><input checked="" type="checkbox"/> 50.73(a)(2)(i)</td> <td><input type="checkbox"/> 50.73(a)(2)(viii)(A)</td> </tr> <tr> <td><input type="checkbox"/> 20.405(a)(1)(iv)</td> <td><input type="checkbox"/> 50.73(a)(2)(ii)</td> <td><input type="checkbox"/> 50.73(a)(2)(viii)(B)</td> </tr> <tr> <td><input type="checkbox"/> 20.405(a)(1)(v)</td> <td><input type="checkbox"/> 50.73(a)(2)(iii)</td> <td><input type="checkbox"/> 50.73(a)(2)(x)</td> <td></td> </tr> </table>												OPERATING MODE (9) 1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)											POWER LEVEL (10) 1 0 0	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)	<input type="checkbox"/> 20.405(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)	<input type="checkbox"/> 20.405(a)(1)(ii)	<input checked="" type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)	<input type="checkbox"/> 20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(x)	
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LICENSEE CONTACT FOR THIS LER (12)

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

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

On August 15, 1984, at 1130, with Unit 2 in Mode 1 at 80 percent power and Unit 3 in Mode 1 at 100 percent power, the local readout for saltwater cooling flow to the Train B Component Cooling Water (CCW) Heat Exchanger indicated a fault condition. The Train A CCW Heat Exchanger was out of service for cleaning. Because a high differential pressure existed across the Train B CCW Heat Exchanger, it was conservatively assumed that Train B saltwater cooling flow was less than the flow required for system operability. Train B CCW was declared inoperable, and Limiting Condition for Operation (LCO) 3.0.3 was invoked on Unit 2. Emergency Chiller E-335 was declared inoperable since Train B CCW was supplying its cooling water. Loss of E-335 renders two vital inverters inoperable in each unit, and LCO 3.0.3 was also invoked for Unit 3. Shutdown of both units was initiated. The Train B Saltwater Cooling Pump was stopped and restarted, and the differential pressure across the heat exchanger decreased. At 1230 the saltwater cooling flow indication was restored. Saltwater cooling flow was determined to be above the minimum required flow, and LCO 3.0.3 was exited.

The saltwater cooling flow indication was restored by switching readout channels. It is suspected that the initial fault indication was due to reading an inoperable channel. Saltwater cooling flow indication will be input to the plant computer to provide remote indication and to eliminate the necessity of local readout.

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LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

FACILITY NAME (1) SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2	DOCKET NUMBER (2) 05000361	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQ. NUMBER	REV. NUMBER		
		84	046	00	02	02 OF

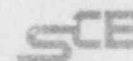
TEXT (If more space is required, use additional NRC Form 366A's) (17)

On August 15, 1984, at 1130, with Unit 2 in Mode 1 at 80 percent power and Unit 3 in Mode 1 at 100 percent power, the readout for saltwater cooling flow to the Train B Component Cooling Water (CCW) Heat Exchanger (EIIS Component Identifier HX) indicated a fault condition. Train A CCW HX was out of service for cleaning. Because a high differential pressure existed across the Train B CCW HX, it was conservatively assumed that Train B saltwater cooling flow was less than the flow required for CCW system (EIIS System Identifier CC) operability. The Train B CCW system was declared inoperable, and Limiting Condition for Operation (LCO) 3.0.3 was invoked on Unit 2 based on failure to meet LCO 3.7.3. Additionally, Emergency Chiller E-335 (EIIS Component Identifier CHU) was declared inoperable since Train B was supplying its cooling water. Loss of E-335 renders two vital inverters inoperable in each unit, and since the Action Statement of the associated LCO (LCO 3.8.3.1) addresses only the loss of one inverter, LCO 3.0.3 was invoked on Unit 3. Shutdown of both Units was initiated. The Train B Saltwater Cooling Pump (EIIS Component Identifier P) was stopped and restarted, and the differential pressure across the Train B HX decreased. At 1230 the saltwater cooling flow indication fault condition cleared. Saltwater cooling flow was verified as greater than the minimum required for CCW operability, and LCO 3.0.3 was exited.

The saltwater cooling flow indication was restored by switching local readout channels. It is suspected that the initial fault indication was due to reading an inoperable channel. Saltwater cooling flow indication will be input to the plant computer to provide remote indication and to eliminate the need to switch channels at the local readout.

There are no reasonable alternative conditions under which this event would have been more severe.

Southern California Edison Company



SAN ONOFRE NUCLEAR GENERATING STATION

P.O. BOX 128

SAN CLEMENTE, CALIFORNIA 92572

J. G. HAYNES
STATION MANAGER

TELEPHONE
(714) 492-7700

September 17, 1984

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

Subject: Docket No. 50-361
30-Day Report
Licensee Event Report No. 84-046
San Onofre Nuclear Generating Station, Units 2 and 3

Pursuant to 10 CFR 50.36(c)(2) and 50.73(a)(2)(i)(B), this submittal provides the required 30-day written Licensee Event Report (LER) for an occurrence involving Limiting Conditions for Operation 3.8.3 i and 3.7.3. Since this occurrence involved a shared system between Units 2 and 3, a single LER for Unit 2 is enclosed per NUREG-1022. This report was delayed in order to provide a complete response. Neither the health and safety of plant personnel nor the public were affected by this event.

If you require any additional information, please so advise.

Sincerely,

Enclosure: LER 84-046

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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