

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2	DOCKET NUMBER (2) 050000361	PAGE (3) 1 OF 02
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TITLE (4)
CHARGING PUMP 2P191 CRACKED BLOCK

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)
08	09	84	84	045	00	09	10	84				050000
												050000

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) 100	20.402(b)			20.405(c)			50.73(a)(2)(iv)			73.71(b)		
	20.405(a)(1)(i)			50.36(c)(1)			50.73(a)(2)(v)			73.71(c)		
	20.405(a)(1)(ii)			50.36(c)(2)			50.73(a)(2)(vii)			X OTHER (Specify in Abstract below and in Text, NRC Form 366A) Informational Report		
	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 J. G. HAYNES, STATION MANAGER							TELEPHONE NUMBER 714 492-7700		

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRRDS

SUPPLEMENTAL REPORT EXPECTED (14)							EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO											

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

On August 2, 1984, at 1240, with Unit 2 in Mode 1 at 100 percent power, during a routine control operator tour, leakage was observed past the plunger bore cap of Charging Pump 2P191. Although 2P191 did not fail to operate, the pump was stopped. On August 5, 1984, at 1700, 2P191 was declared inoperable and was removed from service for testing to determine the cause of the leakage. On August 9, 1984, a dye penetrant test (PT) was performed on the cylinder block bores. The PT exposed a crack approximately 3 inches long, running from the suction check valve seat through the plunger removal bore and down the front face. This crack was determined to be the cause of the leakage. The cause of the crack has not been determined. As corrective action, the cracked cylinder block was replaced with a spare. Pump 2P191 was retested and returned to service on August 15, 1984, at 1145. Metallurgical examinations and analyses of the cracked block are being planned to determine the root cause of the crack.

The remaining Units 2 and 3 charging pumps are determined to be operable and capable of performing their safety functions.

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LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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

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

On August 2, 1984, at 1240, with Unit 2 in Mode 1 at 100 percent power, during a routine control operator tour, leakage was observed past the plunger bore cap of Charging Pump 2P191 (Component Function Identifier P) of the Chemical Volume Control System (CVCS) (EIIIS System Identifier CB). These pumps are Model NP-18 three-cylinder positive displacement pumps manufactured by Gaulin Corporation. Although 2P191 did not fail to operate, the pump was stopped. On August 5, 1984, at 1700, 2P191 was declared inoperable and was removed from service for testing to determine the cause of the leakage. On August 9, 1984, a dye penetrant test (PT) was performed on the cylinder block bores. The PT exposed a crack approximately 3 inches long, running from the suction check valve seat through the plunger removal bore and down the front face. This crack was determined to be the cause of the leakage. The cause of the crack has not been determined.

As corrective action, the cracked cylinder block was replaced with a spare. Pump 2P191 was retested and returned to service on August 15, 1984, at 1145. Metallurgical examinations and analyses of the cracked block are being planned to determine the root cause of the crack.

The remaining Units 2 and 3 charging pumps were visually inspected for leakage. No leakage was observed, and the pumps were determined to be operable and capable of performing their safety functions. However, based upon this occurrence, and potentially similar occurrences on the same Model NP-18 pumps at Millstone Nuclear Power Station Unit 2, which resulted in a 10 CFR 21 report to the NRC on May 25, 1984, PT will be performed on these pumps during each unit's first refueling outage.

Neither the health and safety of plant personnel nor the public were affected by this occurrence.

Southern California Edison Company

SCE

SAN ONOFRE NUCLEAR GENERATING STATION

P.O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES
STATION MANAGER

TELEPHONE
(714) 492-7700

September 10, 1984

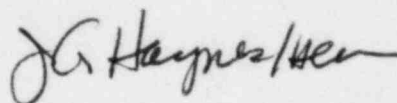
U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Subject: Docket No. 50-361
Informational Report
Licensee Event Report No. 84-045
San Onofre Nuclear Generating Station, Unit 2

This submittal provides an informational Licensee Event Report (LER) concerning the Chemical Volume Control System (CVCS) charging pumps. Neither the health and safety of plant personnel nor the public were affected by this occurrence.

If you require additional information, please so advise.

Sincerely,



Enclosure: LER No. 84-045

cc: A. E. Chaffee (USNRC Senior 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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