

NRC FORM 366 (12-81) 10 CFR 50		U.S. NUCLEAR REGULATORY COMMISSION LICENSEE EVENT REPORT		APPROVED BY OMB 3150-0011							
CONTROL BLOCK: 1		(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)									
7 8 9 0 1 C A S 0 S 2 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5		14 15 25 26 30 37 CAT 38									
CONT		REPORT SOURCE L 6 0 5 0 0 0 3 6 1 7 0 3 1 6 8 2 8 1 2 0 2 8 3 9				60 61 68 69 74 75 80					
EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10		0 2 With the plant in Mode 6, Refueling Water Storage Tank, T006, was found									
0 3 to have a stratified boron concentration which resulted in actual average											
0 4 tank concentration being lower than tank samples indicated.											
0 5											
0 6											
0 7											
0 8											
SYSTEM CODE S F 11		CAUSE CODE B 12		CAUSE SUBCODE A 13		COMPONENT CODE A C C U M U 14		COMP SUBCODE Z 15		VALVE SUBCODE Z 16	
7 8 9		10 11		12 13		14 15 16 17		18 19		20 21	
17 LER/RO REPORT NUMBER 8 2		EVENT YEAR 8 2		SEQUENTIAL REPORT NO. 0 0 6		OCCURRENCE CODE 9 9		REPORT TYPE X		REVISION NO. 2	
21 22		23 24		25 26		27 28		29 30		31 32	
ACTION TAKEN F 18		FUTURE ACTION Z 19		EFFECT ON PLANT Z 20		SHUTDOWN METHOD Z 21		HOURS 0 0 0 0 0 0 22		ATTACHMENT SUBMITTED N 23	
33 34		35 36		37 38		39 40		41 42		43 44	
NPRD-4 FORM SUB. N 24		PRIME COMP. SUPPLIER A 25		COMPONENT MANUFACTURER Z 9 9 9 26							
45 46		47 48		49 50		51 52		53 54		55 56	
CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27		1 0 The RWST was not provided with a means to circulate its contents from									
1 1 top to bottom allowing boron stratification to develop as it was filled.											
1 2 A temporary line was installed to allow recirculation.											
1 3											
1 4											
FACILITY STATUS B 28		% POWER 0 0 0 29		OTHER STATUS NA 30		METHOD OF DISCOVERY C 31		DISCOVERY DESCRIPTION Thief Samples from RWST 32			
7 8 9		10 11		12 13		14 15		16 17		18 19	
ACTIVITY CONTENT RELEASED OF RELEASE Z 33		AMOUNT OF ACTIVITY Z 34		NA 35		NA 36		LOCATION OF RELEASE NA 37			
7 8 9		10 11		12 13		14 15		16 17		18 19	
PERSONNEL EXPOSURES NUMBER 0 0 0 37		TYPE Z 38		DESCRIPTION NA 39							
7 8 9		10 11		12 13		14 15		16 17		18 19	
PERSONNEL INJURIES NUMBER 0 0 0 40		TYPE NA 41		DESCRIPTION NA 42							
7 8 9		10 11		12 13		14 15		16 17		18 19	
LOSS OF OR DAMAGE TO FACILITY TYPE Z 42		DESCRIPTION NA 43									
7 8 9		10 11		12 13		14 15		16 17		18 19	
SUBJECTIVITY ISSUED DESCRIPTION N 44				NA 45							
7 8 9		10 11		12 13		14 15		16 17		18 19	
NAME OF PREPARER J. G. HAYNES											
7 8 9		10 11		12 13		14 15		16 17		18 19	
PDR ADOCK 05000361											
PDR											
NRC USE ONLY											
7 8 9		10 11		12 13		14 15		16 17		18 19	
PHONE 714/492-7700											
7 8 9		10 11		12 13		14 15		16 17		18 19	

Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION

P.O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES
STATION MANAGER

December 2, 1983

REGIONAL

1983 DEC -5 PM 2:01

RECEIVED
NRC
TELEPHONE
(714) 492-7700

U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region V
1450 Maria Lane, Suite 210
Walnut Creek, California 94596-5368

Attention: Mr. J. B. Martin, Regional Administrator

Dear Sir:

Subject: Docket No. 50-361
Revised 30-Day Report
Licensee Event Report No. 82-006
San Onofre Nuclear Generating Station, Unit 2

Reference: Letter, H. B. Ray (SCE) to J. B. Martin (NRC),
Licensee Event Reports, dated May 23, 1983

Our letter to you dated April 16, 1982, forwarded Licensee Event Report (LER) No. 82-006, Revision 0, for San Onofre Nuclear Generating Station Unit 2 and described the circumstances resulting in Refueling Water Storage Tank (RWST) samples not being indicative of actual tank boron concentration. The report also indicated in closing, that permanent modifications to ensure adequate RWST mixing were scheduled for completion before December 31, 1982.

Subsequently, as the proposed modifications and alternatives were evaluated by SCE engineering, the benefits of installing a permanent recirculation pump, piping system and valves, all seismically qualified, were questioned. The temporary RWST recirculation system utilized to resolve the initial problem on Unit 2 was used again only during the initial boration of the Unit 3 RWST and has been found to be unnecessary since that time. Several attempts to obtain evidence of continued stratification in these tanks have indicated that once the tank has been thoroughly mixed, stratification does not occur. Therefore, we have concluded that the installation of a permanent recirculation system is unwarranted.

11
IE-22

Mr. J. B. Martin

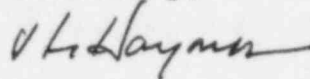
-2-

December 2, 1983

Enclosed is Revision 2 of LER 82-006 which correctly indicates the cause of the original event and corrective action to prevent recurrence. Revision 1 of this LER was submitted as an attachment to the Reference in order to correct minor computer code entry discrepancies.

If there are any questions, please contact me.

Sincerely,



Enclosure: LER No. 82-006, Revision 2

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

U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement

U. S. Nuclear Regulatory Commission
Division of Technical Information and Document Control

Institute of Nuclear Power Operations (INPO)