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FACIL:50-361 San Onofre Nuclear Station, Unit 2, Southern Californ 05000361
AUTH.NAME AUTHOR AFFILIATION
MORGAN,H.E. Southern California Edison Co.
RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 83-078/03L-1:on 830713,CST 2T-121 water level fell below TS limit twice when water usage by AFW sys exceeded makeup. W/8 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 3
TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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	DEDRO	1	1	NRR/DET/ECMB 9H	1	1
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Southern California Edison Company

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January 12, 1990

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

Subject: Docket No. 50-361
Supplemental Report
Licensee Event Report No. 83-078, Revision 1
San Onofre Nuclear Generating Station, Unit 2

Reference: Letter, H. B. Ray (SCE) to USNRC, Office of Inspection and Enforcement, Region V, dated August 12, 1983.

The referenced letter provided Licensee Event Report (LER) No. 83-078 for an occurrence in which a Limiting Condition for Operation associated with a Condensate Storage Tank was exceeded. This revision modifies the proposed corrective actions to prevent recurrence which were reported in the initial LER to those corrective actions which were implemented. Neither the health and safety of plant personnel or the public was affected by this occurrence.

If you require any additional information, please so advise.

Sincerely,

H E Morgan

Enclosure: LER No. 83-078, Revision 1

cc: C. W. Caldwell (USNRC Senior Resident Inspector, Units 1, 2 and 3)
J. B. Martin (Regional Administrator, USNRC Region V)
Institute of Nuclear Power Operations (INPO)

IE22
1/1

ATTACHMENT TO LER 83-078, REVISION 1
SOUTHERN CALIFORNIA EDISON COMPANY
SAN ONOFRE NUCLEAR GENERATING STATION
UNIT 2, DOCKET NO. 50-361

SUPPLEMENTAL INFORMATION FOR EVENT DESCRIPTION AND PROBABLE CONSEQUENCES:

At 2240 the level was returned to within specified limits and the Action Statement was satisfied. The health and safety of plant personnel and the public were not affected by this incident.

SUPPLEMENTAL INFORMATION FOR CAUSE DESCRIPTION AND CORRECTIVE ACTIONS:

In LER 83-002 we stated that an automatic tank level control system to prevent depletion of the water level of the condensate storage tanks below the Technical Specification required limit, was expected to be implemented in April 1983. This system was installed and has been made operation, and was noted as such, in NRC Inspection Report 50-361/83-24.

Even though the level control system operated as designed, it was not adequate for the water demands placed on 2T-121 in this event. In this case, the extent to which water demand exceeds automatic makeup was decreased due to make-up being aligned to both CST's 2T-121 and 2T-120, thereby reducing the effective make-up water rate to 2T-121.

The main cause of this and other similar events associated with the lowering of water level in CST 2T-121 is due to the difficulty of controlling the makeup to 2T-121 in such a fashion as to maintain the contained water volume within the tight tolerance represented by the overflow level and the Technical Specification limit for minimum level.

To prevent recurrence of this event the following actions were completed:

(a) The event was reviewed with all operations personnel with the objective that, during periods of high water demand from 2T-121, the make-up should be aligned to 2T-121 only. Also, the operating instructions were revised accordingly in September, 1983.

(b) A design review of the automatic level control system was completed which resulted in design changes, implemented in August 1986, which assure that make-up water is not diverted from 2T-121 during periods of high water demand. Additionally, a high flow make-up demineralizer system was added (in-service since September, 1986) which assures that sufficient make-up water is available for Units 1, 2 and 3.

UPDATED REPORT - PREVIOUS REPORT DATED 8/12/89

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)

01	LICENSEE CODE (2)	LICENSE NUMBER (3)	LICENSE TYPE (4)	CAT (5)
	C A S O S 2	0 0 - 0 0 0 0 0 - 0 0	4 1 1 1 1	

CON'T

01	REPORT SOURCE (6)	DOCKET NUMBER (7)	EVENT DATE (8)	REPORT DATE (9)
	L	0 5 0 0 0 3 6 1	0 7 1 3 8 3	0 1 1 2 9 0

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 With Unit 2 in Mode 2, CST 2T-121 water level fell below the Technical
03 Specification limit twice when water usage by the Auxiliary Feedwater System,
04 which draws water from 2T-121, exceeded makeup to 2T-121. The Action Statement
05 associated with LCO 3.7.1.3 was entered at 1839 and satisfied at 1844 by returning
06 the water level to within acceptable limits. The Action Statement was again
07 entered at 2200 when Unit 2 began raising power level and the auxiliary feed rate
08 increased. See LER 83-016 and LER 83-002. (See Attachment).

09	SYSTEM CODE (11)	CAUSE CODE (12)	CAUSE SUBCODE (13)	COMPONENT CODE (14)	COMP. SUBCODE (15)	VALVE SUBCODE (16)
	W F	X	Z	A C C U M U	Z	Z

(17) LER/RO REPORT NUMBER

EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
8 3	—	0 7 8	/	0 3	L	—	1

ACTION TAKEN (18)	FUTURE ACTION (19)	EFFECT ON PLANT (20)	SHUTDOWN METHOD (21)	HOURS (22)	ATTACHMENT SUBMITTED (23)	NPRD-4 FORM SUB. (24)	PRIME COMP. SUPPLIER (25)	COMPONENT MANUFACTURER (26)
X	X	Z	Z	0 0 0 0	Y	N	A	Z 9 9 9

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 This event was caused primarily by water demand higher than the make-up to Tank
11 T-121. (See Attachment).
12
13
14

15	FACILITY STATUS (28)	% POWER (29)	OTHER STATUS (30)	METHOD OF DISCOVERY (31)	DISCOVERY DESCRIPTION (32)
	B	0 0 5	NA	A	Operator Observation

16	ACTIVITY RELEASED (33)	CONTENT OF RELEASE (34)	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
	Z	Z	NA	NA

PERSONNEL EXPOSURES

17	NUMBER (37)	TYPE (38)	DESCRIPTION (39)
	0 0 0	Z	NA

PERSONNEL INJURIES

18	NUMBER (40)	DESCRIPTION (41)
	0 0 0	NA

LOSS OF OR DAMAGE TO FACILITY

19	TYPE (42)	DESCRIPTION (43)
	Z	NA

PUBLICITY

20	ISSUED (44)	DESCRIPTION (45)	NRC USE ONLY
	N	NA	

NAME OF PREPARER H. E. MORGAN PHONE (714) 368-6241