

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3										DOCKET NUMBER (2) 0 5 0 0 0 3 6 2				PAGE (3) 1 OF 0 6				
TITLE (4) DOSE EQUIVALENT IODINE LIMITS EXCEEDED																		
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 (8)					
0 8	2 3	8 4	8 4	0 3 7	0 0	0 9	1 8	8 4					0 5 0 0 0					
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																
3		20.402(b)				20.405(c)				50.73(a)(2)(iv)				73.71(b)				
POWER LEVEL (10)		0 0 0				20.405(a)(1)(i)				50.36(c)(1)				73.71(c)				
		20.405(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vii)				<input checked="" type="checkbox"/> 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 J. G. HAYNES, STATION MANAGER										TELEPHONE NUMBER AREA CODE 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 NRC		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC								
SUPPLEMENTAL REPORT EXPECTED (14)												MONTH	DAY	YEAR				
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO		EXPECTED SUBMISSION DATE (15)				

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

Pursuant to Limiting Condition for Operation (LCO) 3.4.7, Action Statement 'd' of Appendix A, Technical Specifications to Facility Operating License NPF-15 for San Onofre Unit 3, this submittal provides the required 30-day written Licensee Event Report (LER) for an occurrence involving the Reactor Coolant System specific activity.

On August 23, 1984, at 1035, Unit 3 was shut down due to high chloride conductivity in the hot wells and condensate system. Following the shutdown, at 1400, analysis of a Reactor Coolant System (RCS) sample indicated that RCS specific activity exceeded 1.0 microcurie/gram Dose Equivalent (DE) I-131. RCS specific activity was reduced to less than 1.0 microcurie/gram DE I-131 by purification flow at 1100 on August 25, 1984.

The event was an indication of iodine spiking. We will continue to monitor and evaluate primary coolant activity. No further corrective action is planned.

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PDR ADDCK 05000362
S PDR

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LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

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 3 7	- 0 0	0 2	OF 0 6

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

Pursuant to Limiting Condition for Operation (LCO) 3.4.7, Action Statement 'd' of Appendix A, Technical Specifications to Facility Operating License NPF-15 for San Onofre Unit 3, this submittal provides the required 30-day written Licensee Event Report (LER) for an occurrence involving the Reactor Coolant System (RCS) specific activity.

On August 23, 1984, at 1035, Unit 3 was shut down due to high chloride conductivity in the hot wells and condensate system. Following the shutdown, at 1400, RCS sample analysis indicated that RCS specific activity exceeded 1.0 microcurie/gram Dose Equivalent (DE) I-131. RCS specific activity was reduced to less than 1.0 microcurie/gram DE I-131 by purification flow at 1100 on August 25, 1984.

The event was an indication of iodine spiking. Similar occurrences were previously reported in LER 83-111, LER 84-005, LER 84-013, LER 84-015, and LER 84-023. We will continue to monitor and evaluate primary coolant activity. No further corrective action is planned. Neither the health and safety of plant personnel nor the public were affected by this event.

Additional information, required by LCO 3.4.7, Action Statement 'd', is provided on the following pages. Although the unit has a degasification path which operates continuously and takes pressurizer steam, condenses it and directs it to Liquid Radwaste, degassing operation history is not applicable, because this system reduces the noble gas content of the RCS but has no effect on iodine.

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U.S. NUCLEAR REGULATORY COMMISSION

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FACILITY NAME (1)

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SAN ONOFRE NUCLEAR GENERATING STATION,
UNIT 3

0 5 0 0 0 3 6 2

YEAR

SEQ. NUMBER

REV. NUMBER

8 4

-

0 3 7

-

0 0

0 3

OF

0 6

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

CLEANUP FLOW HISTORYPERIODAVERAGE CLEANUP
FLOW (GPM)

8/21/84, 1400 to 8/23/84, 1400
8/23/84, 1400 to 8/24/84, 1700
8/24/84, 1700 to 8/24/84, 2100
8/24/84, 2100 to 8/24/84, 2400
8/24/84, 2400 to 8/25/84, 0400
8/25/84, 0400 to 8/25/84, 1100

80.0
85.4
85.0 *
88.6
85.0 *
83.7

* Hourly cleanup flow data not available. Figure used is taken
from average flow with two charging pumps in operation.

REACTOR POWER HISTORYPERIODREACTOR POWER

8/21/84, 1400 to 8/23/84, 0935
8/23/84, 0935 to 8/23/84, 1035
8/23/84, 1035 to 8/23/84, 1045
8/23/84, 1045 to 8/24/84, 0601
8/24/84, 0501 to 8/24/84, 1400
8/24/84, 1400 to 8/25/85, 1104

100% Rated Power
100% to 10%
10% to 0%
0%
0% to 10%
10% to 18%

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FACILITY NAME (1)

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LER NUMBER (6)

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SAN ONOFRE NUCLEAR GENERATING STATION,
UNIT 3

0 5 0 0 0 3 6 2 8 4 - 0 3 7 - 0 0 0 4 OF 0 6

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

REACTOR COOLANT SYSTEM SPECIFIC ACTIVITY ANALYSIS

<u>DATE</u>	<u>TIME</u>	<u>DE I-131 MICROCURIES/GRAM</u>
8/23/84	1400	3.63
8/23/84	1800	3.85
8/23/84	2200	3.09
8/24/84	0200	2.29
8/24/84	0600	1.84
8/24/84	0750	1.81
8/24/84	1150	1.51
8/24/84	1545	3.03
8/24/84	1755	2.51
8/25/84	2155	1.92
8/25/84	0200	1.52
8/25/84	0600	1.14
8/25/84	0850	1.05
8/25/84	1100	0.94

The total time with the DE I-131 above 1.0 microcuries/gram for this event was 45.0 hours.

CECOR2.0 M2 1200

93C1F010

EDIT= 23 00/23/84 17:46:15 PAGE = 57

AXIALLY INTEGRATED AND PEAK OUTPUT ASSEMBLY EXPOSURE EDITS
FORMAT OF ASSEMBLY IN CORE MAP
ASSEMBLY NAME - BATCH NUMBER
INTEGRATED BOX EXPOSURE IN 10**002MM/T
MAXIMUM BOX EXPOSURE IN 10**002MM/T
LOCATION OF MAX. ASS. EXP. IN O/O HEIGHT

1-05	2-05	3-05	4-05
31.055	40.619	40.567	30.930
40.315	52.536	57.396	40.003
36.000	36.000	36.000	34.000
5-05	6-05	7-07	8-07
30.323	40.702	47.524	55.307
39.001	52.945	62.258	72.518
36.000	36.000	34.000	36.000
9-04	10-07	11-07	12-05
48.545	55.220	47.145	40.175
63.721	72.070	61.345	51.685
36.000	36.000	34.000	36.000
14-05	15-06	16-04	17-02
32.998	48.781	48.869	50.580
42.676	63.685	63.748	65.656
36.000	36.000	36.000	36.000
18-04	19-02	20-04	21-02
53.936	52.090	53.833	50.302
70.372	67.632	70.090	65.075
36.000	36.000	36.000	36.000
22-04	23-06	24-05	
48.396	48.050	32.551	
62.613	61.991	41.666	
36.000	36.000	36.000	36.000
25-05	26-02	27-04	28-02
33.696	41.904	49.081	51.033
43.822	54.280	64.053	66.028
36.000	36.000	36.000	36.000
29-04	30-02	31-04	32-02
55.139	54.145	56.471	54.122
71.334	69.930	73.155	69.876
36.000	36.000	36.000	36.000
33-04	34-02	35-04	36-02
55.238	50.674	48.430	41.371
71.343	65.195	62.519	53.103
36.000	36.000	36.000	36.000
37-05			
42.874			
36.000	36.000	36.000	34.000
38-05	39-06	40-04	41-02
29.175	48.573	49.661	51.217
37.430	62.815	64.335	66.035
36.000	36.000	36.000	36.000
42-04	43-02	44-04	45-02
56.116	55.152	58.503	55.696
72.508	70.256	75.675	72.205
36.000	36.000	36.000	36.000
46-04	47-02	48-04	49-02
58.407	54.939	55.650	50.539
75.506	70.532	71.689	64.872
36.000	36.000	36.000	36.000
50-04	51-06	52-05	
48.008	47.938	28.701	
64.671	61.070	50.901	
36.000	36.000	36.000	36.000
53-05	54-04	55-02	56-04
40.502	48.055	51.127	56.054
51.900	61.907	65.744	72.069
36.000	36.000	36.000	36.000
57-02	58-03	59-01	60-03
55.565	59.093	57.258	59.818
75.729	73.460	77.318	73.261
36.000	36.000	36.000	36.000
61-01	62-03	63-02	64-04
61.045	57.556	59.203	54.899
61.045	57.556	59.203	54.899
36.000	36.000	36.000	36.000
65-02	66-04	67-05	
55.042	55.011	50.409	47.386
70.440	70.838	64.671	61.070
36.000	36.000	36.000	36.000
68-07	69-02	70-04	71-02
49.076	50.895	55.838	55.381
63.528	65.543	72.142	71.210
36.000	36.000	36.000	36.000
72-03	73-01	74-03	75-01
57.526	61.051	58.465	61.045
73.809	70.464	74.654	70.194
36.000	36.000	36.000	36.000
76-03	77-01	78-03	79-02
57.556	59.203	54.899	55.134
73.397	75.905	70.352	70.453
36.000	36.000	36.000	36.000
80-04	81-02	82-07	
55.134	50.266	48.312	
69.195	61.705		
36.000	36.000	36.000	84-05
83-05	84-05		
34.000	36.000	36.000	32.047
85-07	86-04	87-02	88-04
42.157	57.427	53.769	54.454
58.470	57.237	60.319	58.663
36.000	36.000	36.000	36.000
89-01	90-03	91-01	92-03
58.663	61.468	58.805	60.892
75.019	78.287	74.742	77.540
36.000	36.000	36.000	36.000
93-01	94-03	95-01	96-04
60.892	57.273	58.345	54.832
74.513	77.221	71.586	73.154
36.000	36.000	36.000	36.000
97-02	98-04	99-07	
53.164	56.594	36.000	
67.844	72.353		
36.000	36.000	36.000	101-05
100-05	101-05		
34.000	36.000	36.000	41.891
102-04	103-02	104-04	105-02
54.742	102.04	103.02	104.04
51.628	52.957	57.273	55.643
67.278	68.560	74.305	72.168
36.000	36.000	36.000	36.000
106-03	107-01	108-03	109-01
60.121	58.335	61.868	59.174
75.019	79.356	75.235	79.073
36.000	36.000	36.000	36.000
110-03	111-01	112-03	113-02
61.868	59.174	61.900	60.091
74.513	77.221	71.586	73.154
36.000	36.000	36.000	36.000
114-04	115-02	116-04	117-05
54.832	52.277	50.792	36.000
68.017	68.667	73.277	
36.000	36.000	36.000	118-05
117-05	118-05		
34.000	36.000	36.000	41.973
119-07	120-04	121-02	122-04
55.040	57.721	54.183	54.262
57.456	57.173	60.935	56.923
36.000	36.000	36.000	36.000
123-01	124-03	125-01	126-03
60.935	61.695	50.877	60.675
75.270	78.551	74.055	70.193
36.000	36.000	36.000	36.000
127-01	128-03	129-01	130-04
50.877	60.675	57.012	57.612
74.055	70.193	72.467	73.914
36.000	36.000	36.000	36.000
131-02	132-04	133-07	134-05
53.116	50.695	34.000	
68.017	68.667	73.277	
36.000	36.000	36.000	135-05
133-05	134-05		
33.055			32.353
43.105	136-07	137-02	138-04
	139-02	140-03	141-01
	142-03	143-01	144-03
	145-01	146-03	147-02
	148-04	149-02	150-07
			41.865

SAN ONDRE NUCLEAR GENERATING STATION,
UNIT 3

0 5 0 0 0 3 6 2 8 4 - 0 3 7 - 0 0 0 15 0 16

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

N. S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20545
FORM NRC-100 (Rev. 1-78)

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)

DOCKET NUMBER (2)

LER NUMBER (3)

PAGE (4)

SAN ONOFRE NUCLEAR GENERATING STATION,
UNIT 3

0 1 0 0 0 3 6 2 8 4 - 0 3 7 - 0 0 0 6 UP 0 6

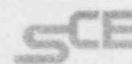
TEXT OF EVENT REPORT IS REQUIRED, AND CONTAINS NRC Form 8904 (11/77)

34.000 49.240 58.000 55.630 55.030 59.307 57.796 61.323 58.738 61.139 57.462 59.040 54.720 55.192 50.378 48.556 34.000
64.209 65.947 72.031 70.700 76.527 74.104 76.563 74.633 76.220 73.495 75.719 74.802 76.870 64.703 62.603
34.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000
151-05 152-04 153-02 154-04 155-02 156-03 157-01 158-03 159-01 160-03 161-02 162-04 163-02 164-04 165-05
40.612 47.690 50.803 55.076 55.505 59.189 57.525 60.391 57.268 58.551 54.997 55.140 50.513 47.739 40.122
52.259 62.304 63.719 71.998 71.216 76.189 73.420 76.722 73.868 75.389 70.207 70.236 64.528 61.513 51.307
36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000
166-05 167-06 168-04 169-02 170-04 171-02 172-04 173-02 174-04 175-02 176-04 177-02 178-04 179-06 180-05
29.004 48.379 49.430 51.000 56.040 55.269 50.699 55.927 58.432 54.760 55.555 50.563 48.929 47.790 58.002
37.528 62.748 64.814 65.502 72.225 70.070 75.576 71.996 75.199 70.174 71.341 66.611 62.772 61.247 36.744
36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000
181-05 182-02 183-04 184-02 185-04 186-02 187-04 188-02 189-04 190-02 191-04 192-02 193-05
33.725 41.699 48.659 50.803 55.348 54.280 56.670 54.031 54.668 50.570 40.506 41.163 32.574
43.440 53.621 62.831 65.425 71.345 69.791 73.226 69.464 70.471 64.809 62.635 52.504 41.107
36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000
194-05 195-06 196-04 197-02 198-04 199-02 200-04 201-02 202-04 203-06 204-05
32.782 48.374 48.565 50.429 53.902 52.146 53.795 50.232 48.346 48.104 32.494
41.872 62.336 62.722 64.912 69.780 67.250 69.672 64.605 62.365 61.056 41.434
36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000
205-05 206-05 207-07 208-07 209-04 210-07 211-07 212-05 213-05
29.912 40.312 46.977 55.217 48.675 55.262 47.166 40.239 29.714
38.437 51.700 60.740 71.504 63.070 71.630 61.176 51.605 38.092
36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000
214-05 215-05 216-05 217-05
30.097 40.579 40.590 30.954
39.602 51.931 51.977 39.708
36.000 36.000 36.000 36.000

MAXIMUM INTEGRATED ASSEMBLY EXPOSURE IS 0.618960+04 RAD/T IN ASSEMBLY 110
MAXIMUM PEAK AXIAL EXPOSURE IS 0.793860+04 RAD/T, OCCURRING AT 38.00 0.0 OF THE CORE HEIGHT IN ASSEMBLY 100
CORE AVERAGE EXPOSURE IS 0.504620+04 RAD/T
Equal to 133.47 EFPD

BATCH AVERAGE EXPOSURES		
BATCH NUMBER	BATCH NAME	AVERAGE EXPOSURE (RAD/T)
1	A1	5.793
2	A2	5.204
3	B1	6.031
4	B2	5.334
5	C	3.616
6	C	4.625
7	C	5.210

Southern California Edison Company



SAN ONOFRE NUCLEAR GENERATING STATION

P.O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES
STATION MANAGER

TELEPHONE
(714) 492-7700

September 18, 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. 84-037
San Onofre Nuclear Generating Station, Unit 3

Pursuant to Limiting Condition for Operation (LCO) 3.4.7, Action Statement 'd' of Appendix A, Technical Specifications to Facility Operating License NPF-15 for San Onofre Unit 3, this submittal provides the required 30-day written Licensee Event Report (LER) for an occurrence involving the Reactor Coolant System specific activity. 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,

Enclosures: LER No. 84-037

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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