NRC Form 366
(9/83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3	0 5 0 0 0 3 6 2	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(S)
										0 5 0 0 0
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)	3	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
POWER LEVEL (10)	0 0 0	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)
		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	TELEPHONE NUMBER	
	AREA CODE	
J. G. HAYNES, STATION MANAGER	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 NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

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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NRC Form 366
(9-83)

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.

CLEANUP FLOW HISTORY

PERIOD	AVERAGE CLEANUP FLOW (GPM)
8/21/84, 1400 to 8/23/84, 1400	80.0
8/23/84, 1400 to 8/24/84, 1700	85.4
8/24/84, 1700 to 8/24/84, 2100	85.0 *
8/24/84, 2100 to 8/24/84, 2400	88.6
8/24/84, 2400 to 8/25/84, 0400	85.0 *
8/25/84, 0400 to 8/25/84, 1100	83.7

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

REACTOR POWER HISTORY

PERIOD	REACTOR POWER
8/21/84, 1400 to 8/23/84, 0935	100% Rated Power
8/23/84, 0935 to 8/23/84, 1035	100% to 10%
8/23/84, 1035 to 8/23/84, 1045	10% to 0%
8/23/84, 1045 to 8/24/84, 0601	0%
8/24/84, 0501 to 8/24/84, 1400	0% to 10%
8/24/84, 1400 to 8/25/85, 1104	10% to 18%

REACTOR COOLANT SYSTEM SPECIFIC ACTIVITY ANALYSIS

DATE	TIME	DE I-131 MICROCURIES/GRAM
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.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME: SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3

DOCKET NUMBER: 0 5 0 0 0 3 6 2 | LER NUMBER: 8 4 — 0 3 7 — 0 0 | PAGE: 0 5 OF 0 6

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CECOR2.0 M2 1280          93C1F018                                   EDIT=  23  08/23/84  17:46:15  PAGE =  57

                          AXIALLY  INTEGRATED  AND  PEAK  OUTPUT ASSEMBLY EXPOSURE EDITS
      FORMAT OF ASSEMBLY IN CORE MAP
      ASSEMBLY NUMBER - BATCH NUMBER
      INTEGRATED BOX EXPOSURE IN  10**002MWD/T
      MAXIMUM  BOX  EXPOSURE  IN  10**002MWD/T
      LOCATION OF MAX. ASS. EXP. IN 0/0 HEIGHT

                                    1-05   2-05   3-05   4-05
                                  31.055 40.619 40.567 30.930
                                  40.315 52.536 52.396 40.003
                                  36.000 36.000 36.000 34.000

                         5-05   6-05   7-07   8-07   9-04  10-07  11-07  12-05  13-05
                       30.323 40.702 47.524 55.307 48.565 55.220 47.145 40.175 29.511
                       39.801 52.945 62.258 72.518 63.721 72.070 61.345 51.689 38.167
                       36.000 36.000 34.000 36.000 36.000 36.000 34.000 36.000 40.000

                  14-05  15-06  16-04  17-02  18-04  19-02  20-04  21-02  22-04  23-06  24-05
                32.998 48.781 48.869 50.588 53.936 52.090 53.833 50.302 48.396 48.050 32.551
                42.676 63.685 63.748 65.656 70.372 67.632 70.090 65.075 62.613 61.991 41.666
                36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000

            25-05  26-02  27-04  28-02  29-04  30-02  31-04  32-02  33-04  34-02  35-04  36-02  37-05
          33.696 41.904 49.081 51.033 55.139 54.145 56.471 54.122 55.238 50.674 48.430 41.371 33.328
          43.822 54.200 64.053 66.028 71.334 69.930 73.155 69.876 71.343 65.195 62.519 53.103 42.874
          36.000 36.000 36.000 36.000 38.000 36.000 36.000 36.000 36.900 36.000 36.000 36.000 34.000

       38-05  39-06  40-04  41-02  42-04  43-02  44-04  45-02  46-04  47-02  48-04  49-02  50-04  51-06  52-05
     29.175 48.573 49.661 51.217 56.126 55.152 58.503 55.696 58.407 54.939 55.650 50.539 48.998 47.938 28.791
     37.430 62.815 64.335 66.035 72.508 70.856 75.675 72.205 75.506 70.532 71.669 64.872 63.128 61.685 36.747
     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

       53-05  54-04  55-02  56-04  57-02  58-03  59-01  60-03  61-01  62-03  63-02  64-04  65-02  66-04  67-05
     40.502 48.055 51.127 56.054 55.565 59.093 57.258 59.818 57.134 58.669 55.042 55.011 50.409 47.386 39.948
     51.900 61.907 65.744 72.069 71.237 75.729 73.460 77.318 73.261 75.353 70.490 70.838 64.671 61.070 50.901
     36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 38.000 38.000 38.000 38.000 38.000 36.000

       68-07  69-02  70-04  71-02  72-03  73-01  74-03  75-01  76-03  77-01  78-03  79-02  80-04  81-02  82-07
     49.076 50.895 55.838 55.381 59.472 57.586 61.051 58.465 61.048 57.556 59.203 54.899 55.234 50.266 48.352
     63.528 65.543 72.142 71.210 76.711 73.889 78.464 74.654 78.194 73.397 75.905 70.352 70.953 64.195 61.775
83-05 34.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 38.000 38.000 38.000 38.000 38.000 36.000 36.000  84-05
32.630                                                                                                        32.047
42.157  85-07  86-04  87-02  88-04  89-01  90-03  91-01  92-03  93-01  94-03  95-01  96-04  97-02  98-04  99-07 40.389
32.000 57.427 53.769 54.454 58.470 57.237 60.319 58.663 61.468 58.805 60.892 57.273 58.345 54.032 53.164 56.554 36.000
       74.630 69.677 70.263 75.829 73.799 78.278 75.019 78.287 74.742 77.548 73.197 75.317 69.138 67.844 72.353
100-05 34.000 36.000 36.000 38.000 36.000 36.000 36.000 38.000 30.000 38.000 38.000 38.000 38.000 36.000 36.090 101-05
42.563                                                                                                        41.891
54.742 102-04 103-02 104-04 105-02 106-03 107-01 108-03 109-01 110-03 111-01 112-03 113-02 114-04 115-02 116-04 53.093
34.000 51.628 52.957 57.273 55.643 60.121 58.335 61.868 59.174 61.900 59.410 60.091 55.533 56.826 52.277 50.792 36.000
       67.278 68.560 74.305 72.168 77.815 75.019 79.386 75.235 79.093 74.513 77.221 71.586 73.154 66.979 65.359
117-05 34.000 34.000 36.000 36.000 36.000 36.000 38.000 39.000 38.000 38.000 30.000 36.000 36.000 36.000 36.000 118-05
42.694                                                                                                        41.973
55.040 119-07 120-04 121-02 122-04 123-01 124-03 125-01 126-03 127-01 128-03 129-01 130-04 131-02 132-04 133-07 53.516
34.000 57.721 54.183 54.262 57.456 57.173 60.935 58.923 61.695 58.827 60.675 57.012 57.612 53.836 53.116 56.698 34.000
       75.322 70.428 69.902 74.026 73.468 78.905 75.270 78.551 74.955 78.193 72.967 73.964 69.017 68.667 73.277
134-05 34.000 34.000 36.000 36.000 38.000 38.000 38.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 34.000 135-05
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
```

34.000	49.248	50.898	55.630	55.830	59.387	57.796	61.323	58.738	61.139	57.462	59.048	54.720	55.192	50.378	48.556	34.000		
	64.289	65.947	72.831	70.700	76.527	74.104	78.563	74.633	78.220	73.495	75.719	69.802	70.870	64.703	62.693			
	34.000	36.000	36.000	36.000	36.000	38.000	36.000	36.000	36.000	36.000	36.000	36.000	36.000	36.000	34.000			
	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			
	40.412	47.690	50.893	55.876	55.505	59.189	57.525	60.391	57.268	58.551	54.997	55.190	50.513	47.739	40.122			
	52.259	62.304	68.719	71.998	71.218	76.169	73.428	76.722	73.066	75.349	70.202	70.238	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			
	29.084	48.379	49.438	51.000	56.040	55.249	58.699	55.927	58.432	54.768	55.555	50.563	48.929	47.790	28.802			
	37.528	62.748	64.814	65.502	72.225	70.878	75.576	71.986	75.199	70.174	71.341	64.611	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	50.893	55.348	54.280	56.670	54.831	54.668	50.520	48.506	41.163	32.574				
		43.440	53.621	62.831	65.425	71.345	69.791	73.228	69.464	70.471	64.869	62.635	52.584	41.387				
		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	48.585	50.429	53.902	52.148	53.795	50.232	48.346	48.184	32.494					
			41.972	62.336	62.722	64.912	69.788	67.258	69.672	64.685	62.365	61.066	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	47.186	40.239	29.714						
				38.437	51.700	60.748	71.504	63.078	71.630	61.176	51.685	38.092						
				36.000	36.000	36.000	36.000	36.000	36.000	36.000	36.000	34.000						
							214-05	215-05	216-05	217-05								
							38.897	40.579	40.598	30.954								
							39.662	51.931	51.977	39.788								
							36.000	36.000	36.000	36.000								

MAXIMUM INTEGRATED ASSEMBLY EXPOSURE IS 0.6186980+04 MWD/T IN ASSEMBLY 110
MAXIMUM PEAK AXIAL EXPOSURE IS 0.7938600+04 MWD/T, OCCURRING AT 38.00 0.0 OF THE CORE HEIGHT IN ASSEMBLY 208
CORE AVERAGE EXPOSURE IS 0.5048620+04 MWD/T
Equal to 133.47 EFPD

---------- BATCH AVERAGE EXPOSURES ----------

BATCH NUMBER	BATCH NAME	AVERAGE EXPOSURE (GWD/T)
1	A1	5.793
2	A2	5.20+
3	B1	6.031
4	B2	5.334
5	C	3.518
6	C.	4.025
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,

J G Haynes

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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