

LICENSEE EVENT REPORT

CONTROL BLOCK: ☐ ☐ ☐ ☐ ☐ ☐ (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | F | L | S | L | S | 1 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | 5

7 8 9 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

LICENSEE CODE LICENSE NUMBER LICENSE TYPE JO CAT 38

CON'T

0 1 | R | E | P | O | R | T | S | O | U | R | C | E | L | 0 | 5 | 0 | 0 | 0 | 3 | 3 | 5 | 7 | 1 | 0 | 2 | 3 | 8 | 2 | 3 | 1 | 1 | 2 | 2 | 8 | 2 | 9

7 8 9 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

REPORT SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During recovery from a reactor trip with all three charging pumps operating

0 3 | to recover pressurizer level, all three charging pumps became gas bound.

0 4 | This resulted in less than the required operable charging pumps per Tech

0 5 | Spec 3.1.2.4. See Attachment A. Due to the plant transient, an Iodine

0 6 | buildup (spike) also occurred. See Attachment B. The health and safety of

0 7 | the public were not affected. This is the sixth report involving charging

0 8 | pumps; see 82-36. This is the twelfth Iodine report; see 82-41.

7 8 9 30

0 9 |

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SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP CODE VALVE SUBCODE

P C E X X X X X X Z Z

9 10 11 12 13 14 15 16 17 18 19 20 21 22

LEADING REPORT NUMBER EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.

17 8 2 0 5 0 0 3 L 0

21 22 23 24 25 26 27 28 29 30 31 32

ACTION TAKEN ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NRC FORM 368 PRIME COMP SUPPLIER COMPONENT MANUFACTURER

E Z Z Z 0 0 0 0 Y N Z Z 9 9 9

33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | The charging pumps became gas bound when the volume control tank was pumped

1 1 | dry and hydrogen was admitted to the pump suctions. The VCT level indica-

1 2 | tion was erroneous due to an empty reference leg. The reference leg was

1 3 | refilled and the VCT level instrument calibrated. Proper response of

1 4 | the instrument to level changes was verified.

7 8 9 30

FACILITY STATUS % POWER OTHER STATUS (30) METHOD OF DISCOVERY DISCOVERY DESCRIPTION (32)

1 5 | G 0 0 0 NA A Operator Observation

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

ACTIVITY CONTENT RELEASED OR RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)

1 6 | Z Z NA NA

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION (29)

1 7 | 0 0 0 Z NA

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

PERSONNEL INJURIES NUMBER DESCRIPTION (41)

1 8 | 0 0 0 NA

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION (43)

1 9 | Z NA

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

PUBLICITY ISSUED DESCRIPTION (45)

2 0 | N NA

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

NAME OF PREPARER S. Laur PHONE (305) 465-3550 x426

ATTACHMENT A

LER 335-82-050

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EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (Continued)

A reactor trip/turbine trip occurred on low steam generator water level following loss of feed when one of the condensate pump motors tripped on differential phase current and a feedwater pump tripped on low suction pressure. Pressurizer level had returned to above the heater cutoff and the primary plant had stabilized at no-load T average and 1960 psia when all three charging pumps became gas bound. The pumps were restored to operation one at a time by repeated venting after filling the Volume Control tank high in the operating band. During the period that the charging pumps were inoperable, pressurizer level fluctuated about the heater cutoff setpoint with variations in T average. When the first charging pump was restored, pressurizer level was returned to the no-load set point. Two charging pumps were operating at reduced flow within 15 minutes; all three were restored to operability well within the required time limits. Other LER's concerning charging pumps are numbers 77-11, 77-14, 81-35, 82-12 and 82-36; this is the first failure of this type.

ATTACHMENT B

LER 335-82-050

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As a result of the reactor trip, Dose Equivalent Iodine (DEQ) I-131 exceeded the Tech. Spec. 3.4.8.a limit of 1.0 $\mu\text{Ci/gm}$. The DEQ I-131 was first measured above the limit at 1920 hours on 23 October, 1982, and remained above the limit for a total of 31 hours and 10 minutes. Other LER's involving Iodine spiking are numbers 78-13, 78-24, 78-33, 80-39, 81-41, 81-56, 82-17, 82-20, 82-38, 82-40, and 82-41. The following information is submitted in accordance with Tech. Spec. 3.4.8.d:

1. Reactor Power History Starting 48 Hours Prior to the First Sample in which the Limit was Exceeded

AVERAGE REACTOR POWER

Time	October 21, 1982	October 22, 1982	October 23, 1982
0000		99.44	99.30
0100		99.44	99.28
0200		99.36	99.23
0300		99.30	99.09
0400		99.34	99.15
0500		99.66	99.05
0600		99.57	99.23
0700		<u>99.15</u>	<u>99.23</u>
0800		99.70	99.20
0900		89.05	99.20
1000		82.44	99.20
1100		82.52	99.23
1200		82.75	99.23
1300		82.88	99.20
1400		82.83	99.28
1500		82.78	99.36
1600		82.78	99.23
1700		83.05	79.73
1800		86.91	0
1900	99.28	93.03	0
2000	99.23	94.57	
2100	99.23	95.26	
2200	99.34	98.35	
2300	99.28	99.26	

2. Fuel Burnup By Core Region

Region	Enrichment (w/o)	Number of Assemblies	Exposure (MWD/MTU)
E	3.03	40	31019.1
E*	2.73	25	26775.6
F	3.65	40	21863.0
F*	3.03	48	25448.4
G	3.65	32	8743.3
G*	3.20	24	11221.3
G/	3.65	4	9735.5
GX	3.03	4	11779.7

3. Cleanup Flow History Starting 48 Hours Prior to the First Sample in which the Limit was Exceeded

October 21, 1982	1900, 2000	83 gpm
	2100- 2300	84 gpm
October 22, 1982	0000	84 gpm
	0100	83 gpm
	0200, 0300	84 gpm
	0400	83 gpm
	0500- 0700	84 gpm
	0800	76 gpm
	0900	82 gpm
	1000- 1300	84 gpm
	1400, 1500	33 gpm
	1600- 1800	84 gpm
	1900, 2000	85 gpm
	2100- 2300	84 gpm
October 23, 1982	0000, 0100	84 gpm
	0200	83 gpm
	0300	82 gpm
	0400- 0900	83 gpm
	1000- 1300	82 gpm
	1400- 1600	83 gpm
	1700	32 gpm
	1800	35 gpm
	1900	44 gpm

4. History of Degassing Operation, If Any, Starting 48 Hours Prior to the First Sample in Which the Limit Was Exceeded

There were no degassing operations during the 48 hour period prior to exceeding the DEQ I-131 limit.

5. The Time Duration When the Specific Activity of the Primary Coolant Exceeded 1.0 $\mu\text{Ci/gm}$ DEQ I-131:

The DEQ I-131 exceeded the limit for 31 hours and 10 minutes.

<u>Date</u>	<u>Time</u>	<u>DEQ I-131</u>
October 23, 1982	0230	1.542 E-01 $\mu\text{Ci/gm}$
October 23, 1982	1920	2.601 E00 $\mu\text{Ci/gm}$
October 23, 1982	2320	2.284 E00 $\mu\text{Ci/gm}$
October 24, 1982	0310	1.850 E00 $\mu\text{Ci/gm}$
October 24, 1982	0710	1.531 E00 $\mu\text{Ci/gm}$
October 24, 1982	1100	1.112 E00 $\mu\text{Ci/gm}$
October 24, 1982	1500	9.192 E-01 $\mu\text{Ci/gm}$
October 24, 1982	2230	1.030 E00 $\mu\text{Ci/gm}$
October 25, 1982	0230	8.161 E-01 $\mu\text{Ci/gm}$