

LICENSEE EVENT REPORT

EXHIBIT A

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

01 F L Q R P 3 000-000000-00 41111 4-5

01 REPORT SOURCE L 050-0302 105779 102979

02 At 0001 during routine power operation, Chem/Rad sampling revealed that the

03 Reactor Coolant System Dose Equivalent I-131 exceeded 1.0 microcuries per gram.

04 This created an event contrary to Technical Specification 3.4.8. No effect

05 upon the plant or general public as RCS purification reduced DEI-131 to less

06 than 1.0 microcuries per gram at 2000. This is the first occurrence of this

07 type reported.

08

09 SYSTEM CODE C G 11 CAUSE CODE E 12 CAUSE SUBCODE E 13 COMPONENT CODE I N S T R U 14 COMP SUBCODE X 15 VALVE SUBCODE Z 16

17 LER NO REPORT NUMBER 79 097 03 L 0

ACTION TAKEN X 18 Z 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0000 22 ATTACHMENT SUBMITTED Y 23 APPROX APPROVAL N 24 PRIME COMP SUPPLIER Z 25 COMPONENT MANUFACTURER P I 6 5 2

10 CAUSE DESCRIPTION AND CORRECTIVE ACTIONS

11 Failure of a laboratory instrument prevented Li-7 analyses and required

12 removal of the Makeup and Purification Demineralizers from service. This

13 caused DEI-131 to increase exceeding Technical Specification limits. DEI-131

14 was reduced to within specification upon repair of the instrument and subse-

15 quent return of the demineralizers to service.

16

17 FACILITY STATUS E 18 POWER 100 19 OTHER STATUS NA 20 METHOD OF DISCOVERY B 21 DISCOVERY DESCRIPTION Chem/Rad analysis

18 ACTIVITY CONTENT RELEASED 4 22 Z 23 AMOUNT OF ACTIVITY NA 24 LOCATION OF RELEASE NA

19 PERSONNEL EXPOSURES NUMBER 0 25 TYPE Z 26 DESCRIPTION NA

20 PERSONNEL INJURIES NUMBER 0 27 DESCRIPTION NA

21 LOSS OF OR DAMAGE TO FACILITY TYPE Z 22 DESCRIPTION NA

23 PLANT STATUS N 24 DESCRIPTION NA

25

NAME OF PREPARED J. Cooper PHONE (904) 795-6486

(SEE ATTACHED SUPPLEMENTARY INFORMATION SHEET)

1273-130

7911060

367

SUPPLEMENTARY INFORMATION

Report No.: 50-302/79-097/03L-0
Facility: Crystal River Unit #3
Report Date: 29 October 1979
Occurrence Date: 5 October 1979
Identification of Occurrence:

Dose Equivalent I-131 greater than 1.0 microcuries per gram of primary coolant contrary to Technical Specification 3.4.8.

Conditions Prior to Occurrence:

Mode 1 power operation (100%).

Description of Occurrence:

At 0001, it was discovered that the DEI-131 was 1.01 microcuries per gram of primary coolant. The four (4) hour sampling frequency was initiated. Further investigation revealed that an atomic absorption spectrometer failed on 26 September 1979. Failure of this instrument prevented lithium analyses and led to a loss of accurate primary system pH control. As a result, both makeup and purification demineralizers which also provide the function of I-131 removal, were removed from service to stabilize primary system pH. Without the use of the Makeup and Purification Demineralizers, DEI-131 increased and exceeded the Technical Specification limit. Maintenance restored operability to the spectrometer and "B" Makeup and Purification Demineralizer was placed in service at 1325 on 5 October 1979. DEI-131 was reduced to .825 microcuries per gram at 2000 on 5 October 1979.

Designation of Apparent Cause:

The cause of this event is attributed to a failed atomic absorption spectrometer.

Analysis of Occurrence:

No effect upon plant or general public.

Corrective Action:

The atomic absorption spectrometer was repaired and returned to service. "B" Makeup and Purification Demineralizer was placed in service which reduced DEI-131 to within acceptable limits. No additional corrective action required.

Failure Data:

This is the first occurrence of this type reported.

/rc

1273 131

Reactor Power History of Prior

Forty-eight Hours

Item I

Event Date: 5 October 1979

1273 132

DATE

1, 79

SEATTLE BUSINESS FORUM, INC., TALLPA BAY

1	2	3	4	5	6	7	8
	HOUR	GMWE	TURB G	MWTH	NI	RATIO	RATIO
		(E710)	(T856)	(P753)	(P723)	NI/MT	ME/MT
		%FP	BTU/KWH	%FP	%FP	%FP	%FP
6	1	95.23	10098	98.45	100.00	1.016	.967
7	2	95.20	10010	98.49	100.00	1.015	.967
8	3	95.20	10050	98.49	99.90	1.014	.967
9	4	95.20	10150	98.45	99.90	1.015	.967
10	5	95.20	10100	98.45	99.90	1.015	.965
11	6	95.20	10010	98.45	99.90	1.014	.967
12	7	95.20	10100	98.45	99.90	1.014	.967
13	8	95.20	10050	98.49	99.90	1.014	.967
14	9	95.20	10050	98.49	99.90	1.014	.967
15	10	95.20	10050	98.69	100.10	1.014	.965
16	11	95.25	10086	98.37	100.20	1.019	.968
17	12	95.20	10100	98.69	100.10	1.014	.965
18	13	95.24	9999	98.49	100.20	1.017	.967
19	14	95.45	10100	98.67	100.20	1.015	.967
20	15	95.60	10100	98.78	100.40	1.016	.968
21	16	96.15	10084	99.31	99.30	1.000	.968
22	17	96.36	10106	99.71	98.70	.990	.966
23	18	96.36	10108	99.76	99.40	.996	.966
24	19	96.54	10091	99.76	99.70	.999	.968
25	20	96.77	10079	99.92	100.00	1.001	.969
26	21	96.11	10074	99.39	99.90	1.005	.967
27	22	95.93	10072	98.98	99.70	1.007	.969
28	23	95.91	10100	98.74	99.50	1.008	.971
29	24	95.91	10067	98.86	99.40	1.005	.970

33	AVERAGE DAILY GENERATOR GROSS	817.56 MWH(E)
34	AVERAGE DAILY THERMAL POWER	2424.00 MWH(T)
35	AVERAGE DAILY TURBINE GROSS HEAT RATE	10076 BTU/KWH
36	AVERAGE DAILY MWTH POWER	93.858 %FP
37	AVERAGE DAILY NUCLEAR INST. POWER	99.832 %FP

RATIO OF NI TO MWTH = 1.010

2	HOUR	GMUE (5710)	TURB G (T806)	MWTH (P703)	NI (P723)	RATIO NI/MT	
3		%FP	BTU/KWH	%FP	%FP	%FP	
4	1	95.91	10100	98.57	99.30	1.007	.973
5	2	95.91	10100	98.57	99.30	1.007	.973
6	3	95.91	10100	98.57	99.30	1.007	.973
7	4	95.91	10100	98.57	99.30	1.007	.973
8	5	95.91	10100	98.57	99.30	1.007	.973
9	6	95.98	10031	98.57	99.30	1.007	.974
10	7	95.91	10100	98.57	99.30	1.007	.973
11	8	95.96	10037	98.61	99.40	1.008	.973
12	9	95.96	10037	98.61	99.30	1.007	.973
13	10	95.93	10031	98.53	100.60	1.021	.974
14	11	95.94	10027	98.49	100.40	1.019	.974
15	12	95.96	9982	98.08	102.30	1.043	.973
16	13	96.06	9976	98.12	99.40	1.013	.979
17	14	96.25	9969	98.25	101.10	1.029	.980
18	15	96.26	9970	98.33	99.60	1.013	.979
19	16	96.27	9976	98.37	99.70	1.014	.979
20	17	95.75	9986	97.92	99.30	1.014	.978
21	18	95.57	9990	97.76	99.10	1.014	.978
22	19	95.52	9991	97.72	99.10	1.014	.978
23	20	95.57	9985	97.72	99.00	1.013	.978
24	21	95.64	9976	97.72	99.00	1.013	.979
25	22	95.53	9979	97.63	99.20	1.016	.978
26	23	95.60	9975	97.63	99.20	1.016	.979
27	24	95.52	9978	97.59	99.20	1.016	.979
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29							
30							
31							
32		AVERAGE DAILY GENERATOR GROSS				819.63 MWH(E)	
33		AVERAGE DAILY THERMAL POWER				2408.17 MWH(T)	
34		AVERAGE DAILY TURBINE GROSS HEAT RATE				10021 BTU/KWH	
35		AVERAGE DAILY MWTH POWER				98.212 %FP	
36		AVERAGE DAILY NUCLEAR INST. POWER				99.583 %FP	
37							
38							
39		RATIO OF NI TO MWTH = 1.014					
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Fuel Burnup by Core Region

Item 2

Event Date: 5 October 1979

1273 135

Item 2

The burnup was calculated at 29.9 EFPD for the three (3) enrichment regions.

<u>REGION</u>	<u>NUMBER of FA</u>	<u>BURNUP</u>
B	61	16,096 MWD/MTU
C	60	11,147 MWD/MTU
D	56	762 MWD/MTU
Ave.		9567 MWD/MTU

1273 136

CLEANUP FLOW HISTORY

ITEM 3

EVENT DATE: 5 October 1979

1273 137

ITEM 3

Cleanup flow history forty-eight (48) hours prior to the first sample in which the limit was exceeded indicated a letdown flowrate of forty-five (45) gpm. Neither Makeup and Purification Demineralizer was in service due to a loss of accurate primary system ph control.

1273 138

Degas Operations

Item 4

Event Date: 5 October 1979

0210 PZR 10/4/79

0236 PZR 10/3/79

0146 PZR 10/2/79

1273 139

Time Duration When DEI-131 Exceeded 1.0

μ Ci/gram and I-131 Analysis Results

Item 5

Event Date: 5 October 1979

1273 140

ITEM 5

As per Technical Specification 3.4.8, the four (4) hour sampling frequency as depicted on the table below was initiated at 0001 on 5 October 1979 and the Dose Equivalent I-131 was 1.010 microcuries per gram. The four hour sampling frequency was terminated at 0800 on 6 October 1979 when the DEI-131 was determined to be .608 microcuries per gram. The time duration when the specific activity of primary coolant exceeded 1.0 microcuries per gram Dose Equivalent is twenty (20) hours.

DATE	TIME	DEI-131 (μ Ci/gram)
10/5/79	0001	1.01
10/5/79	0400	.991
10/5/79	0810	1.15
10/5/79	1200	1.18
10/5/79	1600	1.11
10/5/79	2000	.825
10/6/79	0000	.63
10/6/79	0400	.854
10/6/79	0800	.608
10/6/79	1650	.557