NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)
0 1 M I P A L 1 2 0 0 1 - 0 0 0 0 - 0 0 3 4 1 1 1 1 1 0 57 CAT 58
CON'T REPORT LIGO 50 d 0 2 5 5 0 1 0 1 7 8 2 8 1 1 1 6 8 2 9 EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
During plant startup, PCS sample revealed dose equivalent
oldine 131 to be 2.21 microcuries per gram, which exceeds the
1.0 microcurie per gram limit of TS 3.1.4. Out of specification
[0]5 condition lasted approximately 37 hours. No threat to public
health or safety. Condition reportable per TS 6.9.2.b(2).
07
7 8 9
SYSTEM CODE CODE SUBCODE COMPONENT CODE SUBCODE SUBCOD
LERIRO EVENT YEAR SEQUENTIAL OCCURRENCE REPORT TYPE NO. CODE TYPE NO. 17 REPORT NUMBER 21 22 23 24 26 27 28 29 30 31 32
ACTION FUTURE EFFECT SHUTDOWN HOURS 22 ATTACHMENT FORM SUB- SUPPLIER MANUFACTURER X 18 Z 19 Z 20 Z 21 1 0 0 0 Y 23 N 24 Z 25 Z 19 19 19 CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27
Normal iodine level increase following plant trip on 10-16-82 was aggravated
by purification demineralizers being secured. Demineralizers secured on
10-14 due to boron equalization problems. Purification flow restored on
10-17 with iodine cleanup complete on 10-18. Need for preventive measures
following plant trips reviewed with appropriate supervisors.
FACILITY STATUS OTHER STATUS
ACTIVITY CONTENT 12 13 44 45 46 LOCATION OF RELEASE 36 NA
PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION 39 1 7 0 0 37 Z 38 NA
PERSONNEL INJURIES NUMBER DESCRIPTION 41
7 8 9 11 12 8211300315 934444
TYPE DESCRIPTION NA PDR ADOCK 05000255 PDR ADOCK 05000255
PUBLICITY NAC USE ONLY ISSUED DESCRIPTION 45 NA NAC USE ONLY 15 10 10 10 10 10 10 10 10 10 10 10 10 10

Attachment to Licensee Event Report 82-37 Consumers Power Chapany Palisades Plant Docket 50-255

On October 14, 1982, with the reactor at 99.8% power, a Primary Coolant System (PCS) sample showed a lithium concentration of 1.9 ppm. To avoid exceeding the administrative limit of 2.0 ppm, the lithiating demineralizer, T-51B, was removed from service and an attempt was made to place the delithiating demineralizer, T-51A, in service. The T-51A effluent and PCS boron concentrations failed to equalize and T-51A was removed from service. Another attempt to place T-51A in service on October 14 was unsuccessful.

On October 16, at 0325, the plant tripped due to a low steam generator level. A dose equivalent iodine level of 0.71 uCi/gm was measured at 0708. The plant was taken critical and brought on line at 0550 on October 17. At 0918 during power escalation a dose equivalent iodine sample showed 2.2 uCi/gm. Iodine dose analyses were commenced at four hour intervals as required by Table 4.2.1 of Technical Specifications. At 1430 the lithiating demineralizer, T-51B, was placed in service with an 80 gpm flow rate. At 0124 on October 18, dose equivalent iodine level was below the Technical Specification limit of 1.0 uCi/gm.

During a review of the event, a data entry error was found in a rejected iodine analysis performed at 1300 on October 16. When the error was corrected, the analysis showed a dose equivalent iodine level of 1.2 uCi/gm. Consequently, the dose equivalent iodine level exceeded the Technical Specification limit of 1.0 uCi/gm for approximately 37 hours.

With purification demineralizers in service, it is normal to experience a small increase in the dree equivalent iodine level after a plant shutdown. As a result of securing the deminaralizers, however, a much larger iodine level increase occurred. To prevent recurrence, the event will be reviewed with the chemistry and operations personnel.

The following data is provided in accordance with Technical Specification 3.1.4.e.

1. Sample Results

Date/T	ime	Activity (uci/gm)				
10/16	0708	0.71				
10/16	1300	1.2				
10/17	0918	2.2				
10/17	1320	2.1				
10/17	1720	1.7				
10/17	2120	1.25				
10/18	0124	0.94				

Attachment to Licensee Event Report 82-37 Consumers Power Company Palisades Plant Docket 50-255

2. Power History

From		To		Power Level
10/14	1300	10/16	0324	99.8%
10/16	0324	10/17	0550	0.0%
10/17	0550	10/17	0635	0 - 25% (power escalation)
10/17	0635	10/17	0918	25%

3. Fuel Burnup by Core Region

See attached report

4. Cleanup Flow History

Prem			0	Flow (gem)		
		10/14	0815	40		
10/14	0815	10/17	0918	0		

5. Degassing Operation History

No degassing was performed during the 48 hours prior to the event.

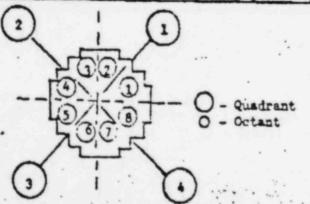
6. Duration

The specific activity of the primary coolant exceeded 1.0 uCi/gm dose equivalent iodine 131 for approximately 37 hours.

CACTE A

Month Through 1048/82

OCTANT NUMBER								CCTANT	OCTANT	OH
1	2	3	4	5	6	7	8	CAND(1)	ASS'Y.	LINE
H-27	BRU	H-24		H-46		H-47		17807.6	1	Yes
H-36	H-23	H-19	H-29	H-37	H-50	H-51	H-45	16546.5	2	
H~15	H-12	E-11	H-15	H-48	H-53	H-54	H-76	15600.2	3	
G-33	G-11	0-09	0-32	G-34	G-65	G-67	G-35	25229.8	4	
H-18	E-09	H-08	H-17	R-40	H-56	H-57	H-41	15131.6	5	
H-25	H-05	H-02	H-22	H-33	H-60	H-67	H~35	14257.4	6	
G-23	G-20	G-17	G-22	G-43	G-18	G-50	G-44	24815.1	7 .	
1-28	1-27	I-26	I-25	1-24	1-53	1-22	1-21	3258.2	8	
G-36		G-30		G-55	1.	G-56		. 27657.4	9	Yes
G-24	G-16	G-13	G-21	G-42	G-57	G-63	G-45	22572.3	10	
1-20	I-19	.I-18	I-17	1-16	1-15	I-14	I-13 .	4417:50-	11.00	
0-27	G-15	G-14	G-25	G-40	G-58	G-60	G-41	24936.6	12	
G-49	G-26	G-19	G-47	G-51	G-61	G-62	5-52	21666.9	13	
H-16	H-10	E-07	H-13	H-frp .	E-55	H-58	R-52	11593.2	14	
1-36	1-35	I-34	I-33	I-32	1-31	I-30	1-29	3383.1	15	
ODH-62		CDH-61		GDH-63		GDH-97		1675/1.2	16	Yes
G-31	G-12	G-04	G-28	G-37	G-64	G-68	5-39	22801.7	17 -	
H-21	H-06	H-01	H-20	H-38	H-59	H-68	H-39	12342.6	18	
G-05	G-02	G-01	G-03	G-06	5-08	G-10	G-07	25954.1	19	
ODI-12	CDI-13	GDI-10	GDI-09	GDI-08	DDI-07	GDI-06	DI-05	3941.3	50	
1-44	I-43	I-42	1-1-1	I-40	1-39	I-38	I-37	2616.5	21	
H-34		H-30	1.75 1	E-15		H-43		16974.3	22	Yes
G-46	G-29	G-54			G-53	G-66	G-18	26889.0	23	
E-28	H-04	H-03	H-56	E-31	H65	H-66	H-32	1/1319.1	24	
1-68	1-67	1-66	1-65	I-64	T-63	1-62	1-61	3631.6	25	
GDI-04		CDI-03	441	GDT-02		GDI-OI		4001.0	26	Yes
1-52	I-51	I-50	I-49	148	147	I-46	1-45	3721.0	27	
1-60	1-59	I-58	I-57	I-56	1-55	I-54	1-53	2360.0	28	
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OCTABT 1 26 27 28

22 23 24 25

16 17 18 19 20 21

9-10 11 -12 -13 14 -15

1 2 3 4 5 6 7 8