

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 dose equivalent iodine level after a plant shutdown. As a result of securing the demineralizers, 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

<u>Date/Time</u>	<u>Activity (uCi/gm)</u>
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

2. Power History

<u>From</u>	<u>To</u>	<u>Power Level</u>
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

<u>From</u>	<u>To</u>	<u>Flow (gpm)</u>
	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

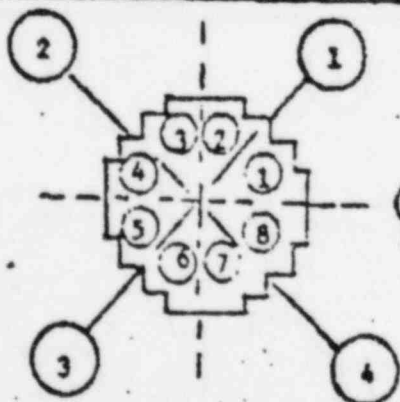
The specific activity of the primary coolant exceeded 1.0 uCi/gm dose equivalent iodine 131 for approximately 37 hours.

FUEL BURNUP BY CORE REGION

CYCLE V

Month _____ Through 10/8/82

OCTANT NUMBER								OCTANT BURNUP (MWD/T)	OCTANT ASS'Y. NO.	ON SYMM. LINE
1	2	3	4	5	6	7	8			
H-27		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	H-11	H-14	H-48	H-53	H-54	H-49	15600.2	3	
G-33	G-11	G-09	G-32	G-34	G-65	G-67	G-35	25229.8	4	
H-18	H-09	H-08	H-17	H-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-48	G-50	G-44	24815.1	7	
I-28	I-27	I-26	I-25	I-24	I-23	I-22	I-21	3258.2	8	
G-36		G-30		G-55		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	
I-20	I-19	I-18	I-17	I-16	I-15	I-14	I-13	4017.5	11	
G-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	G-52	21666.9	13	
H-16	H-10	H-07	H-13	H-44	H-55	H-58	H-52	11593.2	14	
I-36	I-35	I-34	I-33	I-32	I-31	I-30	I-29	3383.1	15	
GDI-62		GDI-61		GDI-63		GDI-64		16754.2	16	Yes
G-31	G-12	G-04	G-28	G-37	G-64	G-68	G-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	G-08	G-10	G-07	25954.1	19	
GDI-12	GDI-11	GDI-10	GDI-09	GDI-08	GDI-07	GDI-06	GDI-05	3941.3	20	
I-44	I-43	I-42	I-41	I-40	I-39	I-38	I-37	2616.5	21	
H-34		H-30		H-42		H-43		16974.3	22	Yes
G-46	G-29	G-54	G-38	G-59	G-53	G-66	G-18	26889.0	23	
H-28	H-04	H-03	H-26	H-31	H-65	H-66	H-32	14319.1	24	
I-68	I-67	I-66	I-65	I-64	I-63	I-62	I-61	3631.6	25	
GDI-04		GDI-03		GDI-02		GDI-01		4001.0	26	Yes
I-52	I-51	I-50	I-49	I-48	I-47	I-46	I-45	3704.0	27	
I-60	I-59	I-58	I-57	I-56	I-55	I-54	I-53	2360.0	28	



○ - Quadrant
○ - Octant

OCTANT 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