

LICENSEE EVENT REPORT

CONTROL BLOCK:

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1

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	V	A	N	A	S	1	2	0	0	-	0	0	0	0	0	-	0	0	3	4	1	1	1	1	4			5	
7	8	LICENSEE CODE						14	15	LICENSE NUMBER										25	26	LICENSE TYPE					30	57	CAT	58

CON'T

0	1	REPORT SOURCE										DOCKET NUMBER										EVENT DATE										REPORT DATE									
7	8	L	6	0	5	0	0	0	3	3	8	7	0	9	0	6	7	9	8	1	0	0	5	7	9	9															
		60	61	DOCKET NUMBER								68	69	EVENT DATE						74	75	REPORT DATE						80													

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | During a review of Chemistry logs on September 6, 1979, it was discovered that

0 3 | the specific activity of the primary coolant exceeded 1.0 micro ci/gram Dose

0 4 | Equivalent I-131 on 9/23/78. The sample frequency of item 4a of Technical Specifi-

0 5 | cation Table 4.4-4 was met but the special report requirement was overlooked. The

0 6 | health and safety of the general public were not affected by this event. Reportable

0 7 | pursuant to T.S. 6.9.2.f.

0	8		80
7	8	9	

SYSTEM CODE C B 11		CAUSE CODE X 12		CAUSE SUBCODE Z 13		COMPONENT CODE Z Z Z Z Z Z 14						COMP. SUBCODE Z 15		VALVE SUBCODE Z 16															
7 8		9 10		11 12		13 14		15 16		17 18		19 20		21 22															
LER/RO REPORT NUMBER 17		EVENT YEAR 7 9 21 22		SEQUENTIAL REPORT NO. 1 0 9 24 26		OCCURRENCE CODE 0 3 28 29		REPORT TYPE L 30		REVISION NO. 0 32		ACTION TAKEN X 18		FUTURE ACTION F 19		EFFECT ON PLANT Z 20		SHUTDOWN METHOD Z 21		HOURS 0 0 0 0 22 37 40		ATTACHMENT SUBMITTED Y 23 41		NPRD-4 FORM SUB. N 24 42		PRIME COMP. SUPPLIER N 25 43		COMPONENT MANUFACTURER Z 9 9 9 26 44 47	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | A fuel defect which occurred on July 25, 1978 was being investigated and samples of
1 1 | the primary system were taken on an hourly basis to obtain the iodine spike after
1 2 | the shutdown. During this sampling period, the iodine spike exceeded the limit of
1 3 | T.S. 3.4.8.a 9 times. The specific activity eventually returned to acceptable
1 4 | limits.

7	8	9	FACILITY STATUS										METHOD OF DISCOVERY										DISCOVERY DESCRIPTION										80
1	5		G	28	0			0	0	29	NA				30	C	31	Chemistry Analysis of Sample												32	80		
7	8	9																															80

ACTIVITY CONTENT
RELEASED OF RELEASE

1 6 2 33 34 NA

7 8 9 10 11 44

AMOUNT OF ACTIVITY (35)

LOCATION OF RELEASE (36)

45 80

PERSONNEL EXPOSURES									
NUMBER			TYPE	DESCRIPTION					
1	7	0	0	0	(37) Z (38) NA (39)				

PERSONNEL INJURIES		DESCRIPTION	
NUMBER			
1	8	0	0
0	0	0	40
		NA	
		10	
		355	

8 9 11 12
LOSS OF OR DAMAGE TO FACILITY (43)
TYPE DESCRIPTION
1 9 2 (42) NA
2 8 9 10 11 12 13 14 15 16 17 18 19 20

8 9 10
PUBLICITY
ISSUED DESCRIPTION (45)
2 0 N (44) NA
7 8 9 10 68 69 80
1126 183
NRC USE ONLY

NAME OF OPERATOR M R Cartwright

PHONE: (703) 894-5151

PO 917-926

Description of Event

On September 6, 1979, during a review of Chemistry logs, it was discovered that the specific activity of the primary coolant exceeded the limit of T.S. 3.4.8.a on September 23, 1978 while sampling the system to obtain the iodine spike after a shutdown. The sampling and analysis requirements of item 4a of Technical Specification Table 4.4-4 were satisfied but the special report requirement was overlooked.

Probable Consequences of Occurrence

The health and safety of the general public were not affected by this occurrence because the specific activity of the primary coolant was greater than 1.0 uCi/gram Dose Equivalent I-131 for only 9 hours and the unit was in Hot Standby when the event occurred. There are no generic implications associated with this incident.

Cause of Occurrence

A fuel defect became evident on July 25, 1978. During a September 23, 1978 shutdown, further investigation by sampling was being conducted. Samples of the primary coolant system were taken on an hourly basis to obtain the iodine spike after the shutdown and during this sampling the iodine spike exceeded 1.0 uCi/gram Dose Equivalent I-131.

A special report was not submitted when the incident occurred because the requirement was overlooked by the personnel involved.

Immediate Corrective Action

The primary coolant was sampled and analyzed at the frequency required by item a of Technical Specification Table 4.4-4 and it was verified that the specific activity returned to acceptable limits.

Appropriate personnel have been reinstructed on requirements to ensure that discrepancies are properly reported in the future.

Scheduled Corrective Action

No scheduled corrective action required.

Actions Taken to Prevent Recurrence

No further actions are required.

Supplemental Information

The Dose Equivalent I-131 limit of ≤ 1.0 uCi/gram was exceeded on September 23, 1978 as follows:

Virginia Electric and Power Company
North Anna Power Station, Unit #1
Docket No. 50-338
Report No. LER 79-109/03L-0

Attachment: Page 2 of 2

Time	Dose Equivalent I-131 (uCi/gram)
0100	1.18
0200	1.35
0300	1.31
0400	less than limit
0500	1.42
0600	1.38
0700	1.15
0800	1.04
0900	1.07
1000	1.04
1100	less than limit

The following are the answers to the Action Statement of Tech. Spec. 3.4.8.

1. September 21, 1978 - the power history for the day was 99.2% for 24 hours.
September 22, 1978 - 99% until 2100 hours when a 3 hour rampdown to 0% started and finished at 0000, 9/23/78
September 23, 1978 - 0% all day
2. Fuel Burnup Region 1 - 5127 MWD/MTU
 Region 2 - 5123 MWD/MTU
 Region 3 - 3385 MWD/MTU
3. Normal mixed bed demineralizer line up 48 hours prior to exceeding the limit.
4. No degassing operations were performed.
5. The duration of activity exceeding 1.0 uCi/gram Dose Equivalent of I-131 is approximately 10 hours.