

LICENSEE EVENT REPORT

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

0	1	N	E	F	C	S	1	2	0	0	0	0	0	0	0	0	0	0	0	3	4	1	1	1	1	4		5
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

LICENSEE CODE

LICENSE NUMBER

LICENSE TYPE

CAT 58

CON'T

0	1	L	6	0	5	0	0	0	2	8	5	7	0	9	0	8	7	8	8	1	0	0	6	7	8	9	
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

REPORT SOURCE

DOCKET NUMBER

EVENT DATE

REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 Inadvertent radioactive gas release to the atmosphere occurred due to leakage from the

0 3 chemical volume control tank through check valves CH-284 and HG-100 and relief valve

0 4 HG-105. Operations noted gradual decrease in tank pressure and initiated action to

0 5 gag relief valve HG-105 and isolate HG-105 with valve HG-101. Releases were

0 6 within Technical Specification Limits.

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51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The release was caused by leakage past check valve CH-284, HG-100 and relief valve

1 1 HG-105. Relief valve HG-105 was gagged and isolation HG-101 was closed terminating

1 2 the release. The check valves and relief valves will be inspected and replaced or

1 3 repaired during the next refueling outage.

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51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

FACILITY STATUS

% POWER

OTHER STATUS

METHOD OF DISCOVERY

DISCOVERY DESCRIPTION

ACTIVITY CONTENT

AMOUNT OF ACTIVITY

LOCATION OF RELEASE

PERSONNEL EXPOSURES

NUMBER

TYPE

DESCRIPTION

PERSONNEL INJURIES

NUMBER

TYPE

DESCRIPTION

LOSS OF OR DAMAGE TO FACILITY

TYPE

DESCRIPTION

PUBICITY

ISSUED

DESCRIPTION

NRC USE ONLY

LPDR

NAME OF PREPARER: G. Gates

PHONE: 402-426-4011

LER 78-029
Omaha Public Power District
Fort Calhoun Station Unit No. 1
Docket No. 05000285

Attachment No. 1

Analysis of Occurrence/Safety Analysis

During normal steady state power operation the operators noticed a gradual decrease in chemical volume control tank pressure. Investigation by the operators indicated that stack activity monitored by RM-062 also showed a slight increase whenever the tank was pressurized.

Maintenance Order No. 19962 was issued to gag HG-105, the suspected leakage point. The required maintenance was completed on September 8, 1978.

Subsequent review of the stack activity readings indicated that the periodic release of gas due to pressurization of the volume control tank had occurred on each of 3 previous days.

The total amount of activity released has been calculated to be 110.22 curies.

This limit is reported as a 30-day written report since the radioactive gas releases were due to an abnormal degradation other than fuel cladding, reactor coolant pressure boundary or primary containment.

The maximum instantaneous release rate was 1260 $\mu\text{Ci/sec}$ which is less than the Technical Specification limit of 83,000 $\mu\text{Ci/sec}$ release rate of gaseous activity excluding halogens and particulates with half lives greater than 8 days.

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Attachment No. 2

Corrective Action

1. The relief valve HG-105 will be inspected and repaired as necessary during the next refueling outage.
 2. The check valves CH-284 and HG-100 will be inspected as necessary during the next refueling outage.
 3. This event is the second failure occurrence of check valves CH-284 and HG-100. To prevent further reoccurrences, investigation is presently being conducted by the licensee to determine if another type of check valve would be more desirable in this system.
- 1/14/89*

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Attachment No. 3

Failure Data

This is the third event at Fort Calhoun which has resulted in a gas release due to valve leakby.

Refer to LER 50-285/76-15
LER 77-14

