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7	8

REPORT SOURCE

L	6	0	5	0	0	0	2	8	5	7	0	4	3	0	8	1	8	0	5	0	5	8	1	9
60	61									68	69					74	75							80
DOCKET NUMBER										EVENT DATE										REPORT DATE				

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

7 8

SYSTEM CODE		CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE						COMP. SUBCODE	VALVE SUBCODE
S	A	E	B	P	E	N	E	T	R	A	Z
9	10	11	12	13	14	15	16	17	18	19	20

LER/RO REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.	
17		8 1		0 0 4		0 1		T		0	
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED	
D 18 Z 19		Z 20		Z 21		0 0 0 0		Y 23		N 24	
33 34		35 36		37 38		39 40		41 42		43 44	
PRIME COMP. SUPPLIER		NPRD-4 FORM SUB.		COMPONENT MANUFACTURER							
A 25		W 3 0 2 26									
45 46		47 48		49 50		51 52		53 54		55 56	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION				
1	5	C	28	0	3	7	29	NA	B	31	Surveillance Test	32

PERSONNEL EXPOSURES

NUMBER		TYPE	DESCRIPTION
1	7	000	Z NA

TYPE		DESCRIPTION *	
1	9	Z	NA

PUBLICITY  
 ISSUED DESCRIPTION (45) **8105220 266**  
 2 0 [N] 44 NA

NRC USE ONLY

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NAME OF PREPARER W. G. Gates

PHONE: 402-426-4011

LER No. 81-004  
Omaha Public Power District  
Fort Calhoun Station Unit No. 1  
Docket No. 05000285

ATTACHMENT NO. 1

Safety Analysis

The personnel air lock at Fort Calhoun Station is a type B resilient seal.

The definition of containment integrity requires one door of the personnel air lock to be properly sealed. Fort Calhoun Station Technical Specification 3.5(2)a requires a low pressure (5 psig) test of the door seals after each opening or once per day, whichever is less frequent.

A containment entry to obtain chemistry samples had been made on April 30, 1981, and the required surveillance test was being performed. During this surveillance test, both air lock doors showed leakage in excess of 82 bubbles/minute (8.93 scc/min.), the low pressure test acceptance criteria.

The leakage measured at low pressure during the surveillance test indicates a potential problem area.

The leakage found by this test is not indicative of a leak rate in excess of  $.6L_a$  at 60 psig specified in the Fort Calhoun Technical Specifications.

The low pressure test is conservative and initiates corrective actions on a timely basis, since it is measuring leakage between the door seals and an accident pressure would tend to shut both doors. There was no indication that the allowable leakage from the containment, as defined in the Technical Specifications and used in FSAR reviews, was exceeded.

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ATTACHMENT NO. 2

Corrective Action

The operator performing the surveillance test notified the control room of the leakage in excess of the acceptance criteria on the low pressure (5 psig) test.

The Shift Supervisor and Control Room personnel notified the Supervisor-Operations and initiated a maintenance order to dress the seals of the personnel access door. The first door was repaired and tested successfully (18 bubbles/minute or 1.96 scc/minute) in approximately 45 minutes. The proper sealing of one personnel access air lock door re-established containment integrity as defined in the Technical Specifications. The second door was repaired and tested successfully in approximately 1 hour and 20 minutes (54 bubbles/minute or 3.88 scc/minute).

The problem was reported to the NRC by the emergency phone pursuant to 10 CFR Part 50, Section 72, Item (5).

During the period of time when containment integrity was suspect, the Operations personnel implemented the appropriate emergency procedure, EP-25.

Technical Specification 2.01 time limit of six hours to be in hot shutdown was invoked but not required.

*not for  
SCS*

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Omaha Public Power District  
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ATTACHMENT NO. 3

Failure Data

This is the first occurrence of both air lock doors failing to meet the requirements of the surveillance test at Fort Calhoun Station. Individual failures of the door seals have occurred in the past, and the District will provide a summary of the seal failure history by May 28, 1981.