SMUD
SACRAMENTO MUNICIPAL UTILITY DISTRICT ☐ 1708 59th Street, Box 15830, Sacramento, California 95813; (916) 452-3211

September 26, 1975

Mr. R. H. Engelken
Director of Regulatory Operations, Region V
NRC Operations Office
1990 N. California Boulevard
Walnut Creek Plaza, Suite 202
Walnut Creek, CA 94596

Re: Operating License DPR-54
Docket No. 50-312
Abnormal Occurrence 75-12

Dear Mr. Engelken:

As defined by Proposed Amendment No. 30 to Technical Specifications for the Rancho Seco Nuclear Generating Station, Section 6.9.1, and Regulatory Guide 1.16, Revision 3, Section C.2.B.2, we are reporting the following Abnormal Occurrence as AO-75-12.

Excessive air leakage of the Reactor Building Purge Outlet Penetration was detected August 27, 1975, while the Surveillance Procedure for local leak rate testing was being performed. The plant was in a cold shutdown condition for maintenance during this period. Initial attempts to pressurize the penetration for measuring the leak rate failed, and leakage was detected through the 66 inch inner butterfly valve.

The valve seats on the inner valve were adjusted, and subsequent testing revealed leakage from the penetration of greater than 300,000 standard cc per minute, with a penetration pressure of 10 psig. Total leakage allowable from all penetrations inspected during a local leak rate test, as stated in Technical Specifications Section 4.4.1.2.3, is .06 percent of the Reactor Building atmosphere every 24 hours. This limit converted to a leakage rate is 106,000 standard cc per minute at the minimum allowable test pressure (52 psig).

Further adjustments were made to the inner valve seats which reduced leakage through that valve essentially to zero, as verified by local bubble testing. The penetration leakage was measured at 33,550 standard cc per minute, which was through the outer penetration valve. Attempts to reduce leakage by adjustment of the valve seats were not successful, so the seats will be replaced and adjusted to give a proper seal. To assure that the leakage through the penetration remains within acceptable limits, the surveillance procedure will be repeated prior to reactor startup which is scheduled for November 7, 1975. A thin film of silicon grease will periodically be applied to the seats to improve the seal.

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The purge valves are 66 inch butterfly valves, Model 60 WR manufactured by Allis Chalmers Company.

There was no plant transient associated with this event.

Respectfully,

J. J. Mattimoe

J. J. Mattimoe
Assistant General Manager
and Chief Engineer

Enclosure
ccs: Director, MIPC(3)
Director, IE(30)

LICENSEE EVENT REPORT

(PLEASE PRINT ALL REQUIRED INFORMATION)

CONTROL BLOCK: [ ] (1–6)

LICENSEE NAME: C A R S S 1 (7–14)

LICENSE NUMBER: 0 0 – 0 0 0 0 0 – 0 0 (15–25)

LICENSE TYPE: 4 1 1 1 1 (26–30)

EVENT TYPE: 0 1 (31–32)

CON'T

CATEGORY: M I (57–58)

REPORT TYPE: L (59)

REPORT SOURCE: L (60)

DOCKET NUMBER: 0 5 0 – 0 3 1 2 (61–68)

EVENT DATE: 0 8 2 7 7 5 (69–74)

REPORT DATE: 0 9 2 5 7 5 (75–80)

EVENT DESCRIPTION

While performing the local leak rate test on the Reactor Building Purge Outlet Valve Penetration, excessive leakage was found through the inner valve. The outer valve was found to have an acceptable leak rate, the inner valve seats were adjusted to correct problem (AO-75-12).

SYSTEM CODE: A A (9–10)

CAUSE CODE: E (11)

COMPONENT CODE: V A L V E X (12–17)

PRIME COMPONENT SUPPLIER: A (43)

COMPONENT MANUFACTURER: A 1 8 0 (44–47)

VIOLATION: N (48)

CAUSE DESCRIPTION

Valve seats on 66 inch valve improperly adjusted. Seats were adjusted to give proper seal. Surveillance will be performed in six months to verify seal integrity.

1 FACILITY STATUS: G (9) — % POWER: 0 0 0 (10–12) — OTHER STATUS: N.A. (13–44) — METHOD OF DISCOVERY: B (45) — DISCOVERY DESCRIPTION: N. A. (46)

2 FORM OF ACTIVITY RELEASED: Z (9) — CONTENT OF RELEASE: Z (10) — AMOUNT OF ACTIVITY: N.A. (11–44) — LOCATION OF RELEASE: N.A. (45)

PERSONNEL EXPOSURES

3 NUMBER: 0 0 0 (11–13) — TYPE: Z (12) — DESCRIPTION: N.A. (13)

PERSONNEL INJURIES

4 NUMBER: 0 0 0 (11–13) — DESCRIPTION: N. A. (13)

OFFSITE CONSEQUENCES

5 N. A.

LOSS OR DAMAGE TO FACILITY

6 TYPE: Z (9–10) — DESCRIPTION: N.A.

PUBLICITY

7 Sacramento Union and Sacramento Bee notified 9/4/75.

ADDITIONAL FACTORS

8

9

NAME: [illegible] Eisenhuth PHONE: (916) 452-3211

GPO 881-66