

LICENSEE EVENT REPORT

CONTROL BLOCK:

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(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	N	J	S	G	S	2	2	0	0	-	0	0	0	0	0	-	0	0	3	4	1	1	1	1	4			5																				
7	8	9						14						15						25						26						30						57						58					
		LICENSEE CODE												LICENSE NUMBER												LICENSE TYPE																							

CON'T

REPORT SOURCE 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9

DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

On June 7, 1983, during the 18 month surveillance of the Auxiliary Building Ventilation System, it was discovered that the system charcoal absorber failed the freon test. Initial investigation suggested absorber degradation occurred subsequent to previous unit power operation. No releases of radioactivity to the Auxiliary Building atmosphere occurred during the period of previous operation in elevated modes. The event involves potential operation in a degraded mode in accordance with Technical Specification 6.9.1.9b.

08		SYSTEM CODE AA		11	CAUSE CODE X		12	CAUSE SUBCODE Z		13	COMPONENT CODE FILTER				14	COMP. SUBCODE Z		15	VALVE SUBCODE Z		16
7	8	9	10		11		12		13					14		15		16			
17		EVENT YEAR 83		21	SEQUENTIAL REPORT NO. 028		24	OCCURRENCE CODE 03		28	REPORT TYPE L		30	REVISION NO. 0		32					
17		18		21	22		24	25		28	29		30	31		32					
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER					
A		1E		X		Z		0000		Y		Y		A		M335					
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Postulated causes of the absorber degradation included refrigeration coolant leaks,
1 1 painting and leakage from a portable freon decontamination unit. A sample of the
1 2 absorbers was sent for laboratory analysis; appropriate corrective action will be
1 3 taken when the specific contaminants are identified.

1	4																	80																																																							
7	8	9																																																																							
FACILITY STATUS			% POWER			OTHER STATUS (30)			METHOD OF DISCOVERY			DISCOVERY DESCRIPTION (32)																																																													
1	5	G	28	0	0	0	29	NA	B	31	Surveillance Testing																																																														
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	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	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
ACTIVITY CONTENT			RELEASED OF RELEASE			AMOUNT OF ACTIVITY (35)						LOCATION OF RELEASE (36)																																																													
1	6	Z	33	Z	34	NA																																																																			
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	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	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

PERSONNEL EXPOSURES		NUMBER		TYPE		DESCRIPTION (39)	
1	7	0	0	0	(37)	2	(38) NA

PERSONNEL INJURIES	
NUMBER	DESCRIPTION
41	

[illegible]

1 9 2 42 NA 8207140184 820422

PUBLICITY		8307140196 830822		NRC USE ONLY	
ISSUED	DESCRIPTION	PDR ADDCK 05000311			
2 0	N	S PDR			

NAME OF PREPARER

R. Frahm

PHONE

(609) 935-6000 Ext. 4309

017-0220



PSEG

Public Service Electric and Gas Company P.O. Box E Hancocks Bridge, New Jersey 08038

Salem Generating Station

June 28, 1983

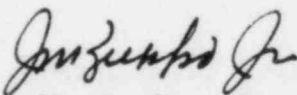
Mr. J. Allan
Acting Regional Administrator
USNRC
Region 1
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Mr. Allan

LICENSE NO. DPR-75
DOCKET NO. 50-311
REPORTABLE OCCURRENCE 83-028/03L

Pursuant to the requirements of Salem Generating Station Unit No. 2, Technical Specifications, Section 6.9.1.9.b, we are submitting Licensee Event Report for Reportable Occurrence 83-028/03L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,


J. M. Zupko, Jr.
General Manager -
Salem Operations

RF:klb

CC: Distribution

Report Number: 83-028/03L
Report Date: 06-22-83
Occurrence Date: 06-07-83
Facility: Salem Generating Station Unit 2
Public Service Electric & Gas Company
Hancock's Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Plant Systems - Auxiliary Building Exhaust Air Filtration System - Inoperable.

This report was initiated by Incident Report 83-109.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 5 - Rx Power 0 % - Unit Load 0 MWe.

DESCRIPTION OF OCCURRENCE:

On June 7, 1983, during the 18 month surveillance of the Auxiliary Building Ventilation System, it was discovered that the system charcoal absorber failed the freon test. Initial investigation of the problem revealed that significant organic contaminants existed in the absorber effluent air at the time of the testing, and that the only period of extended operation of the system was an approximately 17 hour run at that time. It was therefore tentatively concluded that the absorber degradation occurred subsequent to previous unit power operation and shutdown for refueling.

The system is only required to be operable in Modes 1-4, and hence no action requirements applied at the time of the occurrence. No releases of radioactivity to the Auxiliary Building atmosphere occurred during the period of previous operation in elevated modes.

APPARENT CAUSE OF OCCURRENCE:

On June 6, 1983, at the commencement of the testing, significant organic contamination of the absorber effluent had been observed. The system had then been run for approximately 17 hours (using the charcoal absorber) to ventilate the Auxiliary Building and eliminate the free contaminants prior to recommencing testing. A review of the system operating history confirmed that, prior to the testing, the absorber had previously been utilized only during monthly surveillance (less than one hour per test). Limited leakage through the absorber when it is not in operation is possible and may have resulted in degradation when contaminants passed through the normal ventilation exhaust.

Possible sources of organic contaminants during the refueling outage which were identified included refrigerant released from a leak in a cooling unit in the Drumming and Baling Area. Painting in the

APPARENT CAUSE OF OCCURRENCE: (cont'd)

Auxiliary Building had been performed throughout the unit operation, and was somewhat more extensive during the shutdown period (including painting of the Drumming and Baling Area). Previous operation of a freon decontamination unit in the Drumming and Baling Area may have contributed to the absorber degradation but did not coincide with the period of extended ventilation system operation. Degradation of the absorber by ammonia from agents used in the general decontamination of Auxiliary Building spaces was also postulated. A sample of the absorber has been sent for laboratory analysis to identify the contaminant(s) involved.

ANALYSIS OF OCCURRENCE:

The operability of the Auxiliary Building Exhaust Air Filtration System ensures that radioactive materials leaking from Emergency Core Cooling System equipment following a LOCA are filtered prior to reaching the environment. The operation of this system and its resultant effect on offsite dosage calculations are assumed in the accident analyses.

As noted, it was initially assumed that the degradation of the charcoal absorber beyond Technical Specification limits occurred subsequent to plant operation at power. This together with the absence of any significant releases of radioactivity indicate that no significant risk to the health and safety of the public was involved. As indicated by the plant vent monitor channels, no Environmental Technical Specification limits were exceeded, and hence no adverse impact on the environment occurred. The event involves the potential for operation in a degrade mode permitted by a limiting condition for operation, and is therefore reportable in accordance with Technical Specification 6.9.1.9b.

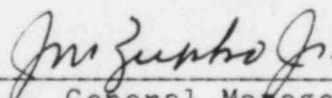
CORRECTIVE ACTION:

The charcoal absorber elements have been replaced and the operation of the absorber satisfactorily tested. Testing of the charcoal absorber completed the required system surveillance testing. As noted, further investigation of the nature of the absorber degradation is being conducted, and a Supplemental Report will be submitted upon final resolution of the problem.

FAILURE DATA:

Mine Safety Appliances, Inc.
1" Activated Charcoal Absorber Element
P/N BSK1743-2002-63

Prepared By R. Frahm



General Manager -
Salem Operations

SORC Meeting No. 83-083