

PHILADELPHIA ELECTRIC COMPANY
Peach Bottom Atomic Power Station
Delta, Pennsylvania
17314

November 26, 1980

Mr. Boyce H. Grier
United States Nuclear Regulatory Commission
Region I
Office of Inspection and Enforcement
631 Park Avenue
King of Prussia, PA 19406

SUBJECT: REPORTABLE OCCURRENCE - PROMPT NOTIFICATION

Confirming W. T. Ullrich's conversation with Mr. Cowgill on
November 26, 1980.

Reference: Docket No. 50-277
Peach Bottom Unit 2
Technical Specification Reference: 3.2.D.1(a)
3.8.C.8

Report No. 2-80-31/1P
Occurrence Date: November 23, 1980

Identification of Occurrence:

At approximately 10 PM on 11/22/80, Unit 2 power was reduced to adjust the control rod pattern. As a result of the power reduction, minor pressure variations occurred within the off-gas processing and sampling system. These variations resulted in a gradual flooding of the sample piping leading to the off-gas radiation monitors. Over an eight to ten hour period, sample flow was reduced and radiation readings decreased to background levels. Shift personnel identified the reduction in off-gas radiation levels and investigated this sampling system. In their opinion some sample flow was still reaching the radiation monitors. Shift Supervision, therefore, believed that the off-gas sampling system was operable during the period of time that steps were being taken to increase the sample flow to normal values.

On November 24 & 25, staff investigation of these operations along with some special testing completed on the morning of November 26, provided information which indicates that the off-gas sampling system was inoperable during a period of time on the morning of November 23. This Prompt Notification is, therefore, being submitted at this time.

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Conditions Prior to Occurrence:

Unit 2 power being reduced from approximately 95 percent to 75 percent. Power recovery was begun early on 11/23/80 and full power reached late on 11/24/80.

Apparent Cause of Occurrence:

Due to a power reduction, system dynamics in the off-gas processing and sampling system transferred water from the normal collection system into the sample system resulting in a reduction in off-gas sample flow to the radiation detectors.

Analysis of Occurrence:

Although relatively minor power level changes were in progress during this period of inoperability, off-gas values were similar following return of the system to service and those experienced prior to the power reduction. Other parameters which monitor primary coolant radiation (main steam line monitors) showed no unexpected changes. With the present off-gas system design at Peach Bottom, the off-gas radiation monitors are for operator information only and serve no safety function. Off-gas from the condenser is processed through a recombiner into a five-day holdup pipe prior to release. There was, therefore, ample opportunity to prevent release of high activity gas had significant fuel failures occurred during the period of time that the off-gas sampling system was inoperable. Safety significance is, therefore, minimal.

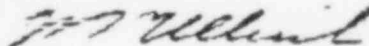
Corrective Action:

On 11/24/80, a temporary off-gas radiation monitoring system was installed. In addition, the off-gas sampling system was removed from service for a short period of time and water purged from the system. The system was then returned to service and has been operating properly. With the temporary radiation monitors installed, the off-gas sampling system was removed from service on 11/25 to perform tests to determine the response of the radiation detectors due to loss of off-gas sample flow. The system was placed back in service and has been operating properly since 8:30 AM, 11/26/80.

Previous Failures:

None similar.

Very truly yours,



M. T. Ullrich
Station Superintendent

WTD:ljm

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CONT

0	1
2	3

REPORT SOURCE

60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80				
	6	0	5	0	0	0	2	7	7	7	1	1	2	3	8	0	8	1	1	2	6	8	0	9

DOCKET NUMBER

EVENT DATE

REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0	2	
0	3	SEE Letter
0	4	
0	5	
0	6	
0	7	
0	8	

SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE				COMP. SUBCODE		VALVE SUBCODE					
0	9																
9	10	11	12	13	14	15	16	17	18	19	20	21	22				
EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.									
8	0	0	3	1													
21	22	23	24	25	26	27	28	29	30	31							
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLAN*		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER	
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1	0	
1	1	
1	2	
1	3	
1	4	

8 9
FACILITY STATUS (28) % POWER (29) OTHER STATUS (30) METHOD OF DISCOVERY (31) DISCOVERY DESCRIPTION (32)

1 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 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

ACTIVITY CONTENT RELEASE (33) OF RELEASE (34) AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)

1 7 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

PERSONNEL EXPOSURES NUMBER (37) TYPE (38) DESCRIPTION (39)

1 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

PERSONNEL INJURIES NUMBER (40) DESCRIPTION (41)

1 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

LOSS OF OR DAMAGE TO FACILITY TYPE (42) DESCRIPTION (43)

1 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

PUBLICITY ISSUED (44) DESCRIPTION (45)

2 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

NRC USE ONLY

NAME OF PREPARER

PHONE