

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

April 1, 1981

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



SUBJECT: REPORTABLE OCCURRENCE - PROMPT NOTIFICATION

Confirming R. S. Fleischmann's conversation with Mr. C. Cowgill, Region I
 Nuclear Regulatory Commission, Office of Inspection and Enforcement
 on March 31, 1981.

Reference: Docket No. 50-277
 Peach Bottom Unit 2
 Technical Specification Reference: 3.8.B.4

Report No. 2-81-22/1P
 Occurrence Date: 3/31/81

Identification of Occurrence:

Unmonitored radioactive release.

Conditions Prior to Occurrence:

Unit 2 operating at 100% power.

Apparent Cause of Occurrence:

During a "feed and bleed" operation on the drywell chilled water closed cooling system to reduce the radioactive inventory, the system was inadvertently drained to a normal waste drain system which discharges to the discharge canal via the storm drain system.

Analysis of Occurrence:

Initiation of the "feed and bleed" began at about 6:00 PM on 3/30/81. At approximately 11:00 AM on 3/31/81, it was discovered that the system was being drained to normal waste. Draining was immediately terminated. Appropriate sampling and investigation of the occurrence was initiated. Later in the day, a small leak from a chemical addition tank in the system was found also going to the normal waste drain system. This too was terminated. Based on samples of the drywell chilled water system both before and during the "feed and bleed" operation, it was estimated that approximately 200 uCi were released. The major isotopes released were Na-24 and Cr-51 with traces of I-133. The average concentrati.

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During the release is estimated to be approximately 2.5 times mg/l. Total estimated release is 625 gallons over a period of 17 hours. This release was diluted in the discharge canal by a circulating water flow of one million gallons per minute resulting in a dilution factor in excess of one million.

Samples taken in the storm drain system following termination revealed no activity. Due to the very high dilution factor, the environmental significance is minimal.

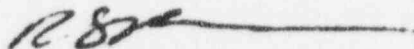
Corrective Action:

The release was terminated upon discovery. "Feed and bleed" operations will not be conducted in the future without clear procedural control. Further investigation of the normal waste drain system is planned.

Previous Occurrence:

Report No. 2-80-10/1P.

Very truly yours,



W. T. Ullrich
Station Super'intendent

WTU/RSF:llh