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Public Service Electric and Gas Company 80 Park Place Newark, N.J. 07101 Phone 201/430-7000

November 10, 1979

Mr. Boyce H. Grier
Director of USNRC
Office of Inspection and Enforcement
Region 1
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Mr. Grier:

LICENSE NO. DPR-70
DOCKET NO. 50-272
REPORTABLE OCCURRENCE 79-41/01T
SUPPLEMENTAL REPORT

Pursuant to the requirements of Salem Generating Station Unit No. 1 Technical Specifications, Section 6.9.1, we are submitting supplemental Licensee Event Report 79-41/01X-1.

Sincerely yours,

F. P. Librizzi
General Manager -
Electric Production

CC: Director, Office of Inspection
and Enforcement (30 copies)
Director, Office of Management
Information and Program Control
(3 copies)

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1903-1978 75 YEARS OF SERVICE

7912030 190

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Report Number: 79-41/01X-1

Report Date: 11/10/79

Occurrence Date: 4/25/79

Facility: Salem Generating Station
Public Service Electric & Gas Company
Hancocks Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Loss of Eddy Current Template Plug Assembly Inside the Reactor Coolant System

CONDITIONS PRIOR TO OCCURRENCE:

Shutdown Mode 5

DESCRIPTION OF OCCURRENCE:

While Unit No. 1 was shutdown for a refueling outage, eddy current testing was contracted to be performed on No. 12 and No. 14 steam generator tubes as required by the Salem Inservice Inspection Program. This evolution involved using our maintenance contractor to conduct the opening and closeout of the steam generators, hydro lancing of the hot and cold leg steam generator tube sheets and waterboxes by a cleaning contractor and eddy current testing by an NDE contractor. The maintenance work package contained all necessary requirements including tool and material control for working inside the steam generator. The NDE contractor utilized eight templates per steam generator fastened to the hot leg steam generator tube sheet with easily installed plug assemblies, two plug assemblies per template. These templates reduce operator radiation exposure by guiding the test device into the proper tube. After eddy current testing was completed on both steam generators and during the closeout of No. 12 steam generator, the inspector found five plug assemblies in the water on the bottom head adjacent to the hot leg pipe. It was found that 34 plug assemblies had been brought on site and with the five found in the bottom of No. 12 steam generator hot leg side, 30 complete assemblies were accounted for. Reinspection of No. 12 and 14 steam generators hot and cold leg turned up three more complete plug assemblies in the hot leg piping of No. 12 steam generator. The three assemblies were removed and the trash from the areas around the steam generators was thoroughly searched and inventoried to locate any other plug assemblies. No more plug assemblies were found and the search was concluded with 33 of the 34 plug assemblies accounted for. It can only be assumed that since tests showed that the plug assemblies will not float and the location in which the eight assemblies were found inside No. 12 steam generator, the missing plug is probably lost inside the primary coolant system.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

The cause of this occurrence was personnel error in that the maintenance contractor supervisor failed to exercise the tool and material control procedure. The job procedure required the use of the procedure but verbal changes requested by Health Physics created confusion and led the subcontractor to erroneously believe Health Physics would administer the tool and material control procedure.

ANALYSIS OF OCCURRENCE:

Westinghouse's response to a request for their evaluation of the presence of one Zetec Plug located at any point in the primary loops of the Reactor Coolant System indicated that the plug is of insignificant mass and physical size to cause any effect upon the plant safety analysis or operation and that the chemical analysis found that the residue left by a plug heated to Reactor Coolant System operating temperatures would not be detrimental to the integrity of the system operations or equipment.

Based on the results of this analysis, no further action is required.

CORRECTIVE ACTION:

Our maintenance contractor has identified deficiencies in their operation and have initiated the following corrective action:

1. No work will be done without a change to the work package to cover that work and to institute proper work step requirements.

2. Responsibilities under a work package will not be relinquished unless the work package is changed to specifically delineate who has the responsibility.

3. When additional work is requested orally, it will be passed on to Engineering for inclusion in the work package. Engineering will independently verify the oral direction.

The corrective action has been verified by station Quality Assurance to have been transmitted to all members of the maintenance contractors supervision staff on the Salem site by 6/20/79.

Prepared By A. W. Kapple

SORC Meeting 82-79

F. J. Miksis
Manager - Salem Generating Station