PSE&G

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

Salem Generating Station

November 24, 1982

Mr. R. C. Haynes
Regional Administrator
USNRC
Region 1
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Mr. Haynes:

LICENSE NO. DPR-70
DOCKET NO. 50-272
REPORTABLE OCCURRENCE 82-087/03L

Pursuant to the requirements of Salem Generating Station Unit No. 1, Technical Specifications, Section 6.9.1.9.b, we are submitting Licensee Event Report for Reportable Occurrence 82-087/03L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,

H. J. Midura
General Manager -
Salem Operations

RF:ks

CC: Distribution

IE22

Report Number: 82-087/03L

Report Date: 11-24-82

Occurrence Date: 11-09-82

Facility: Salem Generating Station Unit 1
Public Service Electric & Gas Company
Hancock's Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Fuel Handling Building Ventilation System - Inoperable.

This report was initiated by Incident Report 82-419.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 6 - RX Power 0 % - Unit Load 0 MWe.

DESCRIPTION OF OCCURRENCE:

At approximately 1100 hours, November 9, 1982, during routine refueling operations, the Control Room Operator observed alarms indicating that several of the Fire Protection Deluge Systems had been actuated. Shortly thereafter, the actuation signals cleared without operator action. The Fuel Handling Building, Auxiliary Building and Control Room ventilation systems were affected. Investigation revealed that filters in all of the systems were sprayed with water. Since Valve 1FP147 was closed, no water was sprayed in the Containment Building.

Due to the resulting decrease in charcoal filter efficiency, the systems involved were declared inoperable. Only the Fuel Handling Building Ventilation System is required to be operable in Mode 6; Technical Specification Action Statement 3.9.12 was entered and applied from the time of the actuation. There was no movement of fuel within the storage pool or crane operation with loads over the pool during the occurrence.

APPARENT CAUSE OF OCCURRENCE:

Investigation of the occurrence revealed no apparent cause for the actuation of the deluge systems. The systems tested satisfactorily following the event, and no further problems have been noted. Problems associated with testing of the fire detection instrumentation later that day (See LER 82-088/03L) were apparently not related to the deluge system actuations.

Due to the refueling outage, considerable work was in progress, some of which involved testing and modification of related fire protection control systems. It is possible that, during performance of the work, leads were inadvertently shorted or grounded resulting in the deluge actuations. The evidence did not confirm this possibility, however.

ANALYSIS OF OCCURRENCE:

The limitations on the Fuel Handling Building Ventilation System ensure that all radioactive material released from an irradiated fuel assembly will be filtered through the HEPA filters and charcoal adsorber prior to discharge to the atmosphere. Operability of the system and the resulting iodine removal capacity are consistent with assumptions of the accident analyses.

Action Statement 3.9.12 requires:

> With no Fuel Handling Building Ventilation System operable, suspend all operation involving movement of fuel within the storage pool or crane operation with loads over the pool until the ventilation system is restored to operable status.

Compliance with the limitations of the action statement significantly reduces the likelihood of releasing radioactive material from expended fuel. As noted, the requirements were fulfilled and therefore no risk to the health or safety of the public was involved. The occurrence constituted operation in a degraded mode permitted by a limiting condition for operation and is reportable in accordance with Technical Specification 6.9.1.9b.

CORRECTIVE ACTION:

The charcoal filters were replaced, and the ventilation systems involved were satisfactorily tested. At 0230 hours, November 12, 1982, the Fuel Handling Building Ventilation System was declared operable, and Action Statement 3.9.12 was terminated.

FAILURE DATA:

Not Applicable

Prepared By R. Frahm

General Manager -
Salem Operations

SORC Meeting No. 82-106