



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

Salem Generating Station

October 14, 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 82-072/03L

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 82-072/03L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,

H. J. Midura  
General Manager -  
Salem Operations

RF:ks *jsf*

CC: Distribution

The Energy People

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PDR ADOCK 05000272  
S PDR

*IEU*  
95-2189 (20M) 11-81

Report Number: 82-072/03L

Report Date: 10-14-82

Occurrence Date: 09-25-82

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

IDENTIFICATION OF OCCURRENCE:

Fuel Handling Area Ventilation Systems - Inoperable.

This report was initiated by Incident Report 82-305.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 100% - Unit Load 1110 MWe.

DESCRIPTION OF OCCURRENCE:

At 1345 hours, September 25, 1982, during routine operations, the Shift Support Supervisor discovered that all drive belts on No. 11 Fuel Handling Area Exhaust Fan were broken. Further investigation revealed that the belts on No. 12 Fan were loose and the fan was operating at less than normal speed. The Fuel Handling Area ventilation system was declared inoperable, and Technical Specification Action Statement 3.9.12 was entered. Fuel movement and crane operation with loads over the storage pool were suspended throughout the occurrence.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

The failure of the drive belts in both cases was attributed to the high ambient temperature in the immediate vicinity of the ventilation fans. The high temperature caused increased embrittlement and subsequent weakening of the belts.

ANALYSIS OF OCCURRENCE:

The limitations on the fuel handling area ventilation systems 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 the assumptions of the accident analyses.

ANALYSIS OF OCCURRENCE: (continued)

Action Statement 3.9.12 requires:

With no Fuel Handling Area ventilation system operable, suspend all operations involving movement of fuel within the storage pool or crane operation with loads over the storage pool until the Fuel Handling Area 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 6.9.1.9.b.

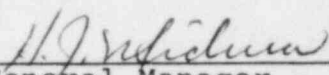
CORRECTIVE ACTION:

The failed belts were replaced and the fans satisfactorily tested. The Fuel Handling Area ventilation system was declared operable at 1453 hours, September 27, 1982, and Action Statement 3.9.12 was terminated. A Design Change Request has been submitted for an improved fan drive. Design Change Request 2EC-0508 has been submitted for installation of air conditioning in the 100' Elevation Mechanical Penetration Area. Finally, a belt suited to higher ambient temperatures has been ordered as a replacement for the type that failed.

FAILURE DATA:

Not Applicable.

Prepared By R. Frahm

  
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General Manager -  
Salem Operations

SORC Meeting No. 82-91