PSNH

Public Service of New Hampshire

SEABROOK STATION
Engineering Office:
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(617) - 872 - 8100

June 15, 1983
SBN- 519
T.F. B7.1.2

United States Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. George W. Knighton, Chief
Licensing Branch No. 3
Division of Licensing

References: (a) Construction Permits CPPR-135 and CPPR-136, Docket Nos. 50-443 and 50-444
(b) PSNH Letter, dated March 10, 1983, "Open Item Response (SRP 11.5; RAI 460.35; Meteorological and Effluent Treatment Systems Branch)," J. DeVincentis to G. W. Knighton

Subject: Supplemental Open Item Response (SER Section 11.5.2; Meteorological and Effluent Treatment Systems Branch)

Dear Sir:

In Reference (b), we informed you that, "It is impractical at the existing stage of construction to direct the turbine gland steam condenser exhaust to the plant vent." Also included in Reference (b) was our technical justification for not monitoring this exhaust.

The enclosed response supplements Reference (b) and addresses the concerns expressed by Meteorological and Effluent Treatment Systems Branch representatives (Hayes, Gammill) at a meeting with Seabrook representatives (Anderson, Legendre, Maidrand, Panzarino) on May 18, 1983. The enclosed response will be incorporated in OL Application Amendment 50 (RAI 460.35(D) and appropriate FSAR Section).

Please notify me if additional information is required to resolve this Open Item.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY

David A. Maidrand for

J. DeVincentis
Project Manager

ALL/pf
Enclosure
cc: Atomic Safety and Licensing Board Service List

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During normal systems operations, the Condenser Air Evacuation System and the Turbine Gland Seal/Gland Exhaust System are both in operation. The steam supply for the gland sealing steam is basically main steam from either the main steam/auxiliary steam reducing station or excess steam leakage into the Gland Sealing Steam System from the HP turbine glands. Radioactive contamination in the discharge of the gland exhaust fans, due to a postulated primary-to-secondary steam generator tube leak, would also be present and detected by the radiation monitor located in the discharge of the condenser air evacuation mechanical vacuum pumps. Therefore, during normal operations, when both systems are in operation, this monitor provides the detection capability for both potential release points.

During various phases of plant operations there are two short intervals of time during which the Turbine Gland Seal and Gland Exhaust Systems are in operation, but the Condenser Air Evacuation System is not. This occurs just prior to establishing condenser vacuum, and just after securing the Condenser Air Evacuation System mechanical vacuum pumps when breaking condenser vacuum. During these two occasions, main steam from the steam generators is secured at the Main Steam Isolation Valves (MSIVs). Under these conditions, auxiliary steam for the Turbine Gland Sealing System is provided by the Auxiliary Boilers. In order for main steam to be the source of auxiliary steam for the Turbine Gland Sealing System, steam must be admitted downstream of the MSIVs. However, if steam is downstream of the MSIVs, condenser vacuum must have previously been established to allow the main steam high pressure drains to discharge into the condenser. Therefore, there are no occasions when the Turbine Gland Seal and Gland Exhaust Systems are in operation, with gland sealing steam originating from the steam generators, and the Condenser Air Evacuation System mechanical vacuum pumps are not in operation.

The air evacuation monitor will be used to record trends in activity released through the gland steam condenser vent. During operation with a primary-to-secondary leak, the condenser off-gas will be sampled at least once per day and the noble gases activity released through the gland steam condenser vent calculated.

The gland steam condenser vent shall be provided with an iodine and particulate sampler (filter, pump and cartridge). This sampler will run continuously and the cartridge analyzed in accordance with Technical Specification requirements.

Noble gas, particulate and iodine releases through the gland steam condenser vent shall be accounted for as part of the station's total effluent releases.

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