PSEG

Public Service Electric and Gas Company P.O. Box 236 Hancocks Bridge, New Jersey 08038-0236

Nuclear Business Unit

AUG 2 3 1999

LR-N990363
LCR S95-44

United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Gentlemen:

**SUPPLEMENTAL INFORMATION FOR
REQUEST FOR LICENSE AMENDMENT
AUXILIARY BUILDING VENTILATION
SALEM GENERATING STATION UNITS 1 AND 2
FACILITY OPERATING LICENSE NOS. DPR-70 AND DPR-75
DOCKET NOS. 50-272 AND 50-311**

By letter dated October 24, 1997, (Ref: LR-N97488) Public Service Electric and Gas Company (PSE&G) requested an amendment to modify Technical Specification 3/4 7.7 "Auxiliary Building Exhaust Air Filtration System." (TAC Nos. M99875 and M99876).

LR-N97488 intended to:

1. Require both Auxiliary Building Ventilation System (ABVS) supply fans to be operable;
2. Require all three ABVS exhaust fans to be operable;
3. Align ABVS TS to be consistent with current TS Bases and recently revised UFSAR system description;
4. Assure that negative pressure is maintained in the Auxiliary Building under all postulated single-active failures;
5. Clarify required Engineered Safeguard Feature (ESF) filter testing;
6. Provide consistency between Unit 1 and Unit 2 TS.

PSE&G supplemented this request on January 8, September 21, December 22, 1998, and January 7, February 17, and June 21, 1999. These supplements provided additional information obtained by PSE&G or were the result of the NRC Staff's request for additional information. The NRC Staff's requests for additional information has focused on issues relative to ESF filter testing. This information exchange has delayed the amendment approval.

A001

On June 3, 1999, the Staff issued Generic Letter (GL) 99-02 "Laboratory Testing of Nuclear Grade Activated Charcoal." In light of the GL requirements and the need to perform the required preventive maintenance on these fans, PSE&G withdraws from its request all proposed changes associated with filter testing. The proposed ESF filter testing enhancement, as well as resolution of the NRC's comments will be incorporated in the PSE&G response to GL 99-02.

Similarly, Insert J (Technical Specification basis change) is also modified. Attachment I contains the new Technical Specifications marked-up pages. Attachment II contains the no safety hazards evaluation submitted in support of our original submittal (LR-N97488), which PSE&G has reviewed and determined to remain valid.

Should there be any additional questions or comments on this transmittal, please do not hesitate to contact us.

Sincerely,

Mark B. Bezilla
Vice President –
Operations

Attachment (2)
Affidavit

C Mr. H. J. Miller, Administrator - Region I
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King of Prussia, PA 19406

Mr. P. Milano, Licensing Project Manager - Salem
U. S. Nuclear Regulatory Commission
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Mail Stop 14E21
Rockville, MD 20852

Mr. S. Morris
USNRC Senior Resident Inspector (X24)

Mr. K. Tosch, Manager IV
Bureau of Nuclear Engineering
33 Arctic Parkway
CN 415
Trenton, NJ 08625

REF: LR-N990363

LCR S95-44

STATE OF NEW JERSEY)
) SS.
COUNTY OF SALEM)

Mark. B. Bezilla, being duly sworn according to law deposes and says:

I am Vice President - Operations of Public Service Electric and Gas Company, and as such, I find the matters set forth in the above referenced letter, concerning Salem Generating Station, Units 1 and 2, are true to the best of my knowledge, information and belief.

Mark B Bezilla

Subscribed and Sworn to before me
this 23rd day of August, 1999

Kimberly Jo Brown
Notary Public of New Jersey

My Commission expires on June 16/2003

ATTACHMENT I
LR-N990363
SALEM GENERATING STATION UNITS 1 AND 2
FACILITY OPERATING LICENSE NOS. DPR-70 AND DPR-75
DOCKET NOS. 50-272 AND 50-311
AUXILIARY BUILDING VENTILATION SYSTEM (ABVS)

TECHNICAL SPECIFICATION PAGES WITH PROPOSED CHANGES

The following Technical Specifications for Facility Operating License Nos. DPR-70 and DPR-75 are affected by this change request:

Unit 1 Technical Specification	Pages
3/4.7.7	3/4 7-22
B3/4 7.7	B 3/4 7-5c

Unit 2 Technical Specification	Pages
3/4.7.7	3/4 7-18
B3/4.7.7	B 3/4 7-5c

ATTACHMENT I
LR-N990363
SALEM GENERATING STATION UNITS 1 AND 2
FACILITY OPERATING LICENSE NOS. DPR-70 AND DPR-75
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AUXILIARY BUILDING VENTILATION SYSTEM (ABVS)

INSERT A

At least one Auxiliary Building exhaust air HEPA filter train, associated with the one charcoal adsorber bank, two supply fans, and three exhaust fans shall be OPERABLE (*)

INSERT B

c. With one supply fan or one exhaust fan inoperable, restore the fan to OPERABLE status within 14 days or be in HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

d. With less than two exhaust fans operable restore one exhaust fan to operable status within 24 hours or be in HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

e. With no supply fans operable, be in HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

INSERT C

(*) One of the supply fans may be considered OPERABLE with its auto start circuit administratively controlled (removed form service) to prevent more than one supply fan from operating at any time.

INSERT J

The Auxiliary Building Ventilation System (ABVS) consists of two major subsystems. They are designed to control Auxiliary Building temperature during normal and emergency modes of operation, and to contain Auxiliary Building airborne contamination during Loss of Coolant Accidents (LOCA). The two subsystems are:

1. A once through filtration exhaust system, designed to contain particulate and gaseous contamination and prevent it from being released from the building in accordance with 10CFR20, and

2. A once through air supply system designed to deliver outside air into the building to maintain building temperatures within acceptable limits. For the purposes of satisfying the Technical Specification LCO, one supply fan must be administratively removed from service such that the fan will not auto-start on an actuation signal; however, the supply fan must be OPERABLE with the exception of this administrative control.

AUXILIARY BUILDING VENTILATION SYSTEM (ABVS)

These systems operate during normal and emergency plant modes. Additionally, the system provides a flow path for containment purge supply and exhaust during Modes 5 and 6.

The exhaust system consists of three 50% capacity fans that are powered from vital buses. These fans exhaust from a common plenum downstream from three High Efficiency Particulate Air (HEPA) filter banks, two of which, 11/21 & 12/22 can be interchangeably aligned to discharge to a single carbon adsorber bed. Filter unit 11/21 is limited in capacity and can only be aligned to the ECCS areas of the Auxiliary Building for HEPA only or HEPA + Carbon modes of filtration. Filter unit 12/22 can be used to ventilate the normal areas of the Auxiliary Building in HEPA only, or when used in conjunction with 13/23, may be used to ventilate the ECCS areas of the Auxiliary Building in HEPA + Carbon. Filter unit 13/23 does not communicate with the carbon adsorber housing and is used for exhausting air from the normal areas of the Auxiliary Building during any plant Mode or purging the Containment Building during Modes 5&6. The fans are designed for continuous operation, to control the Auxiliary Building pressure at -0.10" Water Gauge with respect to atmosphere.

The supply system consists of two 100% capacity fans that are powered from vital buses, and distribute outdoor air to the general areas and corridors of the building through associated ductwork.

AUXILIARY BUILDING VENTILATION ALIGNMENT MATRIX

NORMAL VENTILATION (Normal plant operations)*

Unit 11(21) from ECCS HEPA only, with
Unit 12(22) from Aux. Normal HEPA only; or

Unit 11(21) from ECCS HEPA only, with
Unit 13(23) from Aux. Normal HEPA only; or

Unit 12(22) from ECCS HEPA only, with
Unit 13(23) from Aux. Normal HEPA only; and

Any two of the three exhaust fans; and

Either of the two supply fans.

* The normal alignment is two exhaust fans and one supply fan. During cooler seasons, and with the absence of the system heating coils, it may be required to limit the amount of colder outside air entering the building. In this case, it is acceptable to secure both supply fans from operation and reduce the number of operating exhaust fans to one. There is sufficient capacity with the single exhaust fan to maintain the negative pressure within the auxiliary building boundary.

EMERGENCY VENTILATION (Emergency plant operations)

Unit 11(21) from ECCS HEPA + Unit 14(24), with
Unit 12(22) from Aux. Normal HEPA only; or

Unit 11(21) from ECCS HEPA + Unit 14(24), with
Unit 13(23) from Aux. Normal HEPA only; or

Unit 12(22) from ECCS HEPA + Unit 14(24), with
Unit 13(23) from Aux. Normal HEPA only; and

At least two of the three exhaust fans; and

Either one of the two supply fans.

Note: During a Safety Injection (SI) all three exhaust fans and one of the supply fans will start (if not already running). This is acceptable and will maintain the boundary pressure while supplying the required cooling to the building. Should access/egress become difficult with the three exhaust fans running, then one of the exhaust fans should be secured.

OPERABILITY of the Auxiliary Building exhaust air filtration system ensures that air, which may contain radioactive materials leaked from ECCS equipment following a LOCA, is filtered and monitored prior to release from the plant. Operation of this system and the resultant effect on off site dosage calculations was assumed in the accident analyses. ABVS is discussed in Updated Final Safety Analysis Report (UFSAR) Section 9.4.2.