



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

August 3, 2010

Mr. Thomas Joyce  
President and Chief Nuclear Officer  
PSEG Nuclear, LLC  
P.O. Box 236  
Hancocks Bridge, NJ 08038

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR SALEM NUCLEAR  
GENERATING STATION, UNITS 1 AND 2, LICENSE RENEWAL APPLICATION  
REGARDING BOLTING INTEGRITY (TAC NOS. ME1834 AND ME1836)

Dear Mr. Joyce:

By letter dated August 18, 2009, Public Service Enterprise Group Nuclear, LLC, submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54 for renewal of Operating License Nos. DPR-70 and DPR-75 for Salem Nuclear Generating Station, Units 1 and 2, respectively. The staff of the U.S. Nuclear Regulatory Commission (NRC or the staff) is reviewing this application in accordance with the guidance in NUREG-1800, "Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants." During its review, the staff has identified areas where additional information is needed to complete the review. The staff's request for additional information is included in the Enclosure. Further requests for additional information may be issued in the future.

Items in the enclosure were provided to Mr. John Hufnagel and other members of your staff, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me by telephone at 301-415-2981 or by e-mail at [bennett.brady@nrc.gov](mailto:bennett.brady@nrc.gov).

Sincerely,

A handwritten signature in cursive script that reads "Bennett M. Brady".

Bennett M. Brady, Project Manager  
Projects Branch 1  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket Nos. 50-272 and 50-311

Enclosure:  
As stated

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION FOR SALEM NUCLEAR GENERATING  
STATION, UNITS 1 AND 2, LICENSE RENEWAL APPLICATION  
REGARDING BOLTING INTEGRITY (TAC NOS. ME1834 AND ME1836)

**RAI B.2.1.9-02**

Background:

The GALL Report AMP XI.M18, "detection of aging effects" states that for both ASME code class bolting and for other pressure retaining bolting, visual detection of leakage before the leakage becomes excessive is one acceptable way to inspect for loss of preload in bolting.

License renewal application Section B.2.1.9, Bolting Integrity, states that the program provides for managing cracking, loss of material, and loss of preload by performing visual inspections for pressure retaining bolted joint leakage in the following environments: air indoor and outdoor, raw water, and soil.

Issue:

It is not clear to the staff how visual inspection of bolting in a raw water environment would be capable of detecting loss or reduction of bolting preload since the environment would preclude capability to detect seepage or minor indications of leakage at bolted joints.

Requests:

- a) Clarify what pressure joint bolting within the scope of the Bolting Integrity Program is exposed to an environment of raw water or treated borated water; and
- b) Explain how and on what frequency visual inspections are performed for submerged bolted joints and how those inspections would detect loss of preload in the bolting.

ENCLOSURE

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/RA/

Bennett M. Brady, Project Manager  
Projects Branch 1  
Division of License Renewal  
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NAME	B. Brady	IKing	B. Pham	B. Brady
DATE	07/24/10	07/22/10	07/26/10	08/03/10

OFFICIAL RECORD COPY

Letter to T. Joyce from B. Brady dated August 3, 2010

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