



PSE&G

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

Nuclear Business Unit

SEP 13 1999

LR-N990420

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

Gentlemen:

**NOTIFICATION OF INTENT TO UTILIZE ASME CODE CASE N481
SALEM GENERATING STATION, UNITS 1 AND 2
DOCKET NOS. 50-272 AND 50-311**

This letter provides notification of Public Service Electric and Gas Company's (PSE&G's) intent to utilize ASME Code Case N-481 (see attached) during the second inservice inspection interval at the Salem Generating Station, Unit Nos. 1 and 2. ASME Code Case N-481, "Alternative Examination Requirements for Cast Austenitic Pump Casing, Section XI, Division 1" was accepted for use by the NRC in Regulatory Guide 1.147, Revision 12, "Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1."

PSE&G contracted with Westinghouse to provide a plant specific report, "A. Demonstration of Applicability of ASME Code Case N-481 to the Primary Loop Pump Casings of the Salem Generating Station Units 1 and 2", WCAP 14583. This plant specific report, in concert with the Westinghouse Generic Basis contained in WCAP 13045, provides the basis for use of Code Case N-481 at the Salem Generating Station. PSE&G has reviewed and accepted these Westinghouse reports.

In a letter dated April 13, 1993, the NRC specified that, for a plant to implement Code Case N-481, the licensee should inform the NRC of the intent to invoke the code case and retain the analysis required by the code case on site for NRC audit. The Westinghouse reports are available onsite for NRC review and audit.

Should you have any questions regarding this request, please contact Mr. C. E. Manges, Jr. at 856-339-3234.

Sincerely,

G. Salamon
Manager - Licensing

AD471

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Attachment

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PDR ADOCK 05000272
Q PDR

The power is in your hands.

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Attachment

Code Case N481

CASES OF ASME BOILER AND PRESSURE VESSEL CODE

Approval Date: March 5, 1990

See Numerical Index for expiration
and any reaffirmation dates.

Case N-481
Alternative Examination Requirements for Cast
Austenitic Pump Casings
Section XI, Division 1

Inquiry: When conducting examination of cast austenitic pump casings in accordance with Section XI, Division 1, what examinations may be performed in lieu of the volumetric examinations specified in Table IWB-2500-1, Examination Category B-L-1, Item B12.10?

Reply: It is the opinion of the Committee that the following requirements shall be met in lieu of performing the volumetric examination specified in Table IWB-2500-1, Examination Category B-L-1, Item B12.10:

(a) Perform a VT-2 visual examination of the exterior of all pumps during the hydrostatic pressure test required by Table IWB-2500-1, Category B-P.

(b) Perform a VT-1 visual examination of the external surfaces of the weld of one pump casing.

(c) Perform a VT-3 visual examination of the internal surfaces whenever a pump is disassembled for maintenance.

(d) Perform an evaluation to demonstrate the safety and serviceability of the pump casing. The evaluation shall include the following:

(1) evaluating material properties, including fracture toughness values;

(2) performing a stress analysis of the pump casing;

(3) reviewing the operating history of the pump;

(4) selecting locations for postulating flaws;

(5) postulating one-quarter thickness reference flaw with a length six times its depth;

(6) establishing the stability of the selected flaw under the governing stress conditions;

(7) considering thermal aging embrittlement and any other processes that may degrade the properties of the pump casing during service.

(e) A report of this evaluation shall be submitted to the regulatory and enforcement authorities having jurisdiction at the plant site for review.