



50-324

UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

January 3, 1995

Mr. R. A. Anderson, Vice President
Carolina Power & Light Company
Brunswick Steam Electric Plant
Post Office Box 10429
Southport, North Carolina 28461

SUBJECT: GENERIC LETTER 94-03, "INTERGRANULAR STRESS CORROSION CRACKING OF
CORE SHROUDS IN BOILING WATER REACTORS," BRUNSWICK STEAM ELECTRIC
PLANT, UNITS 1 AND 2 (TAC NOS. M90084 AND M90085)

Dear Mr. Anderson:

By letter dated August 24, 1994, the Carolina Power & Light Company (CP&L) provided its response to Generic Letter (GL) 94-03, "Intergranular Stress Corrosion Cracking of Core Shrouds in Boiling Water Reactors," for the Brunswick Steam Electric Plant (BSEP), Units 1 and 2. The NRC staff had requested in this GL that licensees take the following actions with respect to their core shrouds: (1) inspect the core shrouds in their boiling water reactor (BWR) plants no later than the next refueling outage, (2) perform material-related and plant specific consequence safety analyses with respect to the core shrouds, (3) develop core shroud inspection plans which address inspection of all core shroud welds and which takes into account the latest available inspection technology, (4) develop plans for evaluation and/or repair of the core shrouds, and (5) work closely with the BWR Owners Group with respect to addressing intergranular stress corrosion cracking of BWR internals.

The NRC staff required that licensees submit the following information in response to GL 94-03: (1) a schedule for inspection of the core shrouds, (2) a safety analysis, including a plant specific safety analysis as appropriate, which supports continued operation of the facility until inspections are conducted, (3) a drawing(s) of the core shroud configurations, and (4) a history of shroud inspections completed to date. The NRC staff also required that the licensees submit, no later than 3 months prior to performing their core shroud inspections, their scope for inspection of the core shrouds and their plans for evaluation and/or repairing the shrouds based on their inspection results. The NRC staff further required the licensees to submit their core shroud inspection results within 30 days of completing their shroud examinations.

The NRC staff has completed its review of your response, dated August 24, 1994. Based on the CP&L response to GL 94-03, the NRC staff has determined that CP&L has provided the operational, fabrication and material-related information requested relative to BSEP Units 1 and 2. The NRC staff has noted that CP&L has previously inspected and evaluated the core shrouds at

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BSEP, Units 1 and 2, and has implemented modifications for these shrouds in the locations around the H2 and H3 welds.

The NRC staff concludes that CP&L's previous inspections, assessments and modifications to the BSEP core shrouds will assure that sufficient structural integrity remains in the shrouds for the remainder of the current operating cycles for BSEP, Units 1 and 2. The NRC staff, therefore, concludes that the licensee's modifications and materials-based safety assessments of the BSEP shrouds are sufficient to justify continued safe operation for the remainder of the BSEP, Units 1 and 2, operating cycles without necessitating detailed consequences analyses. However, per the reporting requirements of GL 94-03, the NRC staff will require CP&L to submit its inspection scope for re-inspection of the BSEP, Units 1 and 2, core shrouds 90 days prior to the start of each respective refueling outage (B110R1 for Unit 1 and B212R1 for Unit 2). The details of the NRC staff's review is provided in enclosed Safety Evaluations (Enclosures 1 and 2).

Sincerely,

(Original Signed By)

Patrick D. Milano, Sr. Project Manager
Project Directorate II-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-325 and 50-324

Enclosures:

1. Safety Evaluation for Unit 1
2. Safety Evaluation for Unit 2

cc w/enclosures:
See next page

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Brunswick Steam Electric Plant
Units 1 and 2

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