



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

December 8, 1978

Docket Nos. 50-325
and 50-324

MEMORANDUM FOR: Thomas A. Ippolito, Chief, ORB #3, DOR
FROM: John N. Hannon, Project Manager, ORB #3, DOR
Subject: MEETING SUMMARY

A meeting was held with representatives from CP&L, and their consultants on December 6, 1978. The purpose of the meeting was to (1) review the data associated with the NDE results from inspections performed on the Brunswick Steam Electric Plant (BSEP) Unit 1 recirculation pump riser safe-ends, and (2) discuss the alternatives available for follow-up action to assure continued safe operation of the facility. A list of meeting attendees is attached as Enclosure 1.

After evaluating the data presented by the licensee, the staff was unable to conclude that sufficient evidence had been presented to demonstrate whether or not the UT indications in the BSEP Unit 1 safe-ends were caused by stress corrosion cracking. The general consensus was that the UT indications in the BSEP safe-ends did not represent an immediate threat to the health and safety of the public, even assuming the indications were cracks. The licensee was requested to submit information documenting the basis for continued plant operation for the duration of the current cycle to January 13, 1979 for Unit 1 (cycle 1) under a working assumption that the indications are cracks.

The staff requested that this submittal include, as a minimum, the following information:

1. A summary of the UT results including the basis for the licensee's conclusion that the indications do not represent cracks in the pressure boundary and an estimate of the maximum crack sizes assuming that the indications are pressure boundary cracks.
2. An analysis of the crevice region for all recirculation inlet safe ends showing the calculation of the General Electric Stress Rule Index for stress corrosion cracking. (The analysis should include an evaluation of all terms in the General Electric Stress Rule as well as the results.)

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3. For a representative safe-end for which the ultrasonic examinations have shown positive indications, an analysis demonstrating the capability of this safe end to withstand the loads associated with normal operations and accident conditions, including a safe shutdown earthquake assuming the largest crack that could be postulated from the observed indications.
4. A copy of the code stress analysis for the recirculation pump riser nozzle safe-ends.

In addition, the licensee was requested to submit a program well in advance of the January refueling date which would provide substantially higher confidence as to whether or not the UT indications represent cracks in the pressure boundary. The licensee was requested to provide an evaluation of the effectiveness and impact of a number of alternative programs to accomplish this.

Specific alternatives which the staff requested be discussed in the submittal were (1) removal and destructive examination of the safe-end with the most significant indications, (2) additional NDT (both UT and RT) with water removed from the safe-ends, (3) additional NDT with insertion into one or more pipes of a radiography source, and (4) additional frequent NDT with water in the pipes. The staff requested a target date for the first submittal of December 11, 1978 with the second submittal within about 20 days (January 1, 1979).

The licensee indicated plans to reinspect the Unit 1 safe-ends at this refueling outage but indicated that if no changes in the indications were observed, they would likely propose no additional inspection until the next refueling outage.

B. Grimes indicated that high priority would be given the review of the submittals so that a timely decision could be made on any required actions that may impact the refueling outage.

John N. Hannon

John N. Hannon, Project Manager
Operating Reactors Branch #3
Division of Operating Reactors

Enclosure: Attendees

ENCLOSURE 1

Attendance List

CP&L

D. L. Bensinger
S. P. Grant
E. L. Betz
H. R. Banks
E. A. Bishop
C. R. Osman

NUTECH

P. A. Riccardella

IOWA ELECTRIC

P. D. Ward

LMT INC.

T. Lambert

G.E.

A. R. McIlree
H. T. Watawabe
K. A. Hill

NRC

B. K. Grimes *
J. M. Hannon
R. W. Klecker
W. S. Hazelton
T. A. Ippolito
J. R. Fair
K. R. Wichman
R. Johnson
V. S. Noonan
D. H. Danielson
T. E. Conlon
C. Y. Cheng
J. J. Blake
C. C. Williams
W. J. Collins

*Part time



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Local PDR
NRR Rdg
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H. Denton
D. Eisenhut
A. Schwencer
D. Ziemann
T. Ippolito
R. Reid
J. Miller

V. Noonan
P. Check
G. Lainas
B. Grimes
D. Davis
Project Manager
OELD
OI&E (3)
S. Sheppard
NRC Participants
ACRS (16)
TERA
J. R. Buchanan