

DEC 16 1991

ENCLOSURE 2

MEMORANDUM FOR: Elinor G. Adensam, Project Director  
 Project Directorate II-1  
 Division of Reactor Projects II

FROM: C. Y. Cheng, Chief  
 Materials and Chemical Engineering Branch  
 Division of Engineering Technology

SUBJECT: INTRUSION OF BORON INTO REACTOR COOLANT SYSTEMS

Plant Name: Brunswick Steam Electric Plant, Units 1 and 2  
 Utility: Caroline Power and Light Company  
 Docket Nos: 50-324 and 50-325  
 TAC Nos: M81949 and M81950  
 Licensing Status: Operating  
 Responsible PD: PD II-1  
 Review Branch: Materials and Chemical Engineering Branch  
 Review Status: Complete

By letter dated October 23, 1991 Region II of the NRC requested us to evaluate licensee's Engineering Evaluation Report on boron intrusion into the plants coolant systems at the Brunswick plant. Of a special interest is whether there are unreviewed safety questions and if the corrective actions taken by the licensee are adequate. We have reviewed chemical engineering aspects of the report, which were principally focused on a potential corrosive action of the intruding chemicals, and find that they would not degrade safety of the plant. The effect of boron on reactivity control of the reactors was not addressed in our review. This aspect is reviewed by another NRR branch. Our evaluation is enclosed as Enclosure 1 and our input to SALP as Enclosure 2. We consider our efforts on these TACs to be complete.

*CS*  
 C. Y. Cheng, Chief  
 Materials and Chemical Engineering Branch  
 Division of Engineering Technology

Enclosures:  
 As stated

cc: J. Richardson  
 B. D. Liaw  
 N. Le

DISTRIBUTION:  
 Central Files  
 EMCB RF/PF  
 KParczewski  
 RHermann  
 CYCheng

\*SEE PREVIOUS CONCURRENCE

DET:EMCB

DET:EMCB

DET:EMCB

\*KParczewski:

\*RHermann

CYCheng *cyc*

12/11/91

12/13/91

12/13/91

*9112270324* *YA*

5520 DOCUMENT NAME: BRUNSWICK  
 OFFICIAL RECORD COPY