



SERIAL: LAP-83-554

Director of Nuclear Reactor Regulation  
Attention: Mr. D. B. Vassallo, Chief  
Operating Reactors Branch No. 2  
Division of Licensing  
United States Nuclear Regulatory Commission  
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET NO. 50-324  
LICENSE NO. AND DPR-62  
INSPECTION OF STAINLESS STEEL PIPING

Dear Mr. Vassallo:

As requested by members of your staff, Carolina Power & Light Company (CP&L) submits the enclosed information (Table 1) concerning the shrinkage residual stress effects from the weld overlays recently completed on Brunswick Unit 2. The stresses involved are extremely low and consequently do not invalidate the previous flawed piping analysis results.

Additionally, CP&L hereby commits to submit to the NRC plans for inspections, corrective actions and/or modifications (including the potential replacement of recirculation and/or primary coolant pressure boundary piping) intended to be performed during the refueling outage scheduled to begin about April 30, 1984, at least 30 days prior to the start of that outage. Justification for continued operation of Brunswick Unit 2 will be submitted to the NRC for review and approval at least 30 days prior to startup from the next refueling outage.

Should you have any questions concerning this information, please contact our Licensing Staff.

Yours very truly,

P. W. Howe

P. W. Howe  
Vice President  
Brunswick Nuclear Project

JSD/ccc (8614JSD)

cc: Mr. D. O. Myers (NRC-BSEP)  
Mr. J. P. O'Reilly (NRC-RIL)  
Mr. M. Grotenhuis (NRC)

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Table 1

WELD OVERLAY RESIDUAL STRESS  
EFFECTS ON OTHER WELDS WITHIN  
THE BRUNSWICK UNIT 2 RECIRCULATION  
PIPING SYSTEM

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<u>Weld No.</u>	<u>Increased Stress Level</u>
2-B32-28"-A-14	23.5 psi
2-B32-28"-A-8	20.0
2-E11-20"-A-2	44.0
2-B32-28"-A-4	44.0
2-B32-28"-B-4	562.0
2-B32-28"-B-5	391.0
2-B32-28"-B-3	664.0
2-B32-22-AM-5	251.0
2-B32-22-BM-1	0
2-B32-28"-A1 3	13.5
2-B32-28"-B9	386.0