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Pacific National Laboratory	Plant System
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APPENDIX D: REFERENCES

This appendix contains a listing of references used in the preparation of the Safety Evaluation Report prepared during the review of the license renewal application for Brunswick Steam Electric Plant, Units 1 and 2, Docket Numbers 50-325 and 50-324, respectively.

- (1) NUREG-1800, "Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants," April 2001
- (2) NEI 95-10, "Industry Guideline for Implementing the Requirements of 10 CFR Part 54 - The License Renewal Rule, Revision 3," August 2001
- (3) NUREG-1801, "Generic Aging Lessons Learned Report (GALL)," April 2001
- (4) Letter From NRC to Carolina Power and Light Company, "Request For Additional Information (RAI) Regarding The License Renewal Application For The Brunswick Steam Electric Plant, Units 1 and 2"
- (5) BNP-LR-606, "License Renewal Aging Management Program Description of the ASME, Section XI, Subsections IWB, IWC, and IWD, Inservice Inspection (ISI) Program," Rev. 1
- (6) BNP-LR-011, "Operating Experience (OE) Review of Materials and Programs For License Renewal," Rev.0
- (7) NRC Letter to Mr. C.J. Gannon from Victor M. McCree "Brunswick Steam Electric Plant-NRC Integrated Inspection Report Nos. 05000325/2004002 and 05000324/2004002; Preliminary White Finding," April 19, 2004
- (8) BNP-LR-600, "License Renewal Aging Management Program Description of the Water Chemistry Program," Rev. 1
- (9) BNP-LR-306, "LR AMR Reactor Vessel and Internals System," Rev. 2
- (10) NUREG-1544, "Status Report: Intergranular SCC of BWR Core Shroud and Other Internal Components," March 1996
- (11) NRC Regulatory Guide 1.65, "Materials and Inspections for Reactor Vessel Closure Studs," October 1973
- (12) NEDC-31735P, "BWR Operator's Manual for Materials and Processes," (pg. 2.01-55), September 1990
- (13) BNP-LR-654, "License Renewal Aging Management Program Description of the BWR Stress Corrosion Cracking Program," Rev. 1

(14) OENP-16.2, "Administrative Control of ASME Section XI Non-destructive Examination Program," Rev. 16

(15) CPL-53Q-301, "Risk Informed ISI Code Case -578: Application to BSEP Units 1 and 2: Degradation Mechanisms Evaluation of Brunswick Units 1 and 2," Rev. 2

BIBLIOGRAPHIC DATA SHEET

(See instructions on the reverse)

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U.S. Nuclear Regulatory Commission
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11. ABSTRACT (200 words or less)

This safety evaluation report (SER) documents the technical review of the Brunswick Steam Electric Plant (BSEP), Units 1 and 2, license renewal application (LRA) by the staff of the U.S. Nuclear Regulatory Commission (NRC) (the staff). By letter dated October 18, 2004, Carolina Power & Light Company (CP&L or the applicant) submitted the LRA for BSEP in accordance with Title 10, Part 54, of the Code of Federal Regulations (10CFR Part 54). CP&L is requesting renewal of the operating licenses for BSEP Units 1 and 2, (Facility Operating License Numbers DPR-71 and DPR-62, respectively) for a period of 20 years beyond the current expiration dates of midnight September 8, 2016, for Unit 1 and midnight December 27, 2014, for Unit 2.

The BSEP units are located south of Wilmington, NC, at the mouth of the Cape Fear River in Brunswick County, NC, and two miles north of Southport, NC. The NRC issued the construction permits for Units 1 and 2 on February 7, 1970. The NRC issued the operating licenses for Unit 1 on November 12, 1976; and for Unit 2 on December 27, 1974. Units 1 and 2 are boiling water reactors (BWRs) with primary containments of the BWR Mark I design.

This SER presents the status of the staff's review of information submitted to the NRC through December 6, 2005, the cutoff date for consideration in the SER. The staff will present its final conclusion on the review of the BSEP application in its update to this SER.

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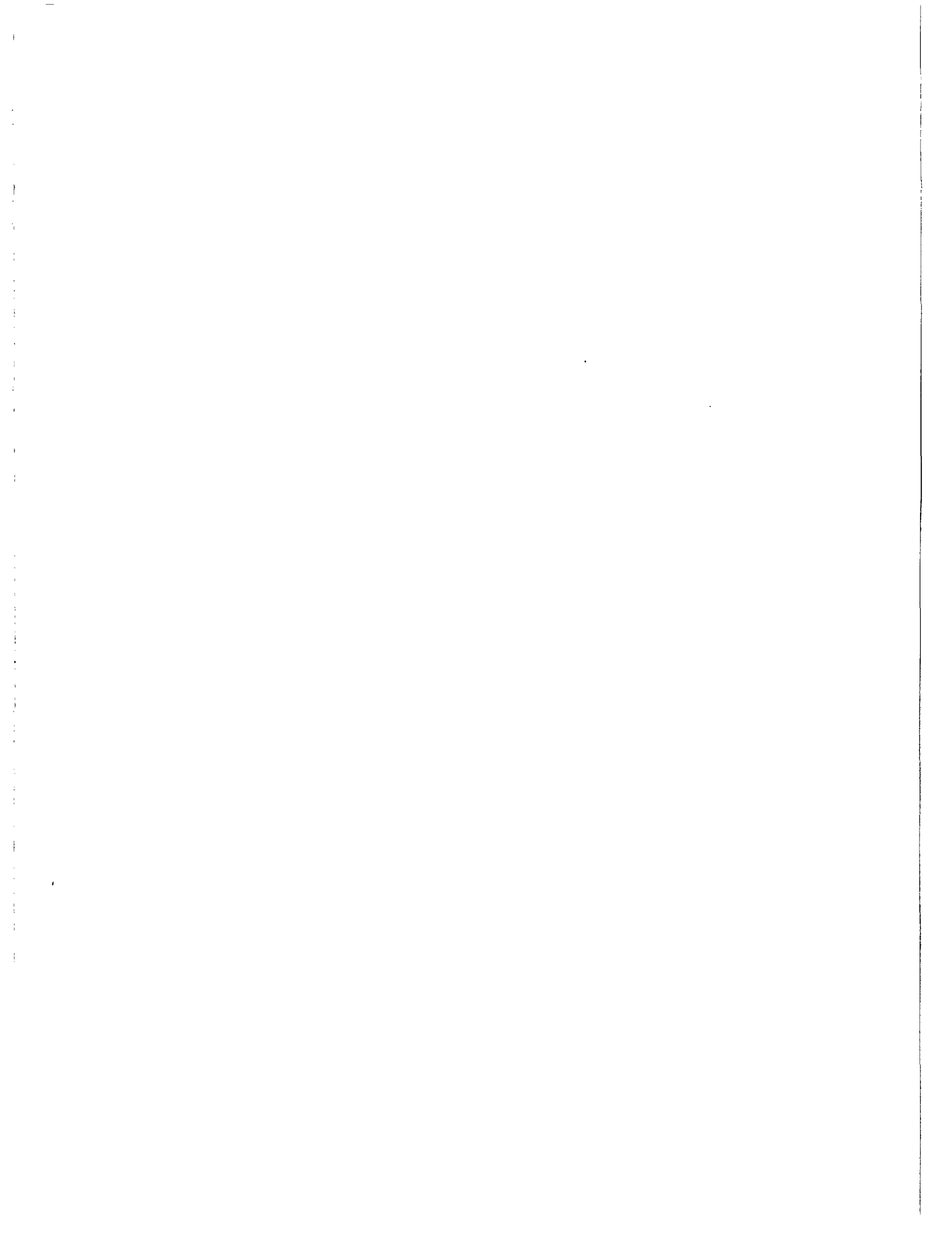
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