



Carolina Power & Light Company
PO Box 10429
Southport NC 28461

JAN 26 1994

Roy A. Anderson
Vice President
Brunswick Nuclear Plant
919 457-2496

SERIAL: BSEP 94-0018

U. S. Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 & 50-324/LICENSE NOS. DPR-71 & DPR-62
COMPLETION OF REQUESTED ACTIONS - NRC BULLETIN 93-03

Gentlemen:

This letter satisfies Reporting Requirement 3 of NRC Bulletin 93-03 "Resolution of Issues Related to Reactor Vessel Water Level Instrumentation in BWRs" for the Brunswick Steam Electric Plant, Unit Nos. 1 and 2 (BSEP). That requirement requested licensees to submit to NRC "within 30 days of completion of the requested hardware modifications, a report confirming completion and describing the modification implemented." On July 21, 1993, Carolina Power & Light Company (CP&L) submitted a response to NRC Bulletin 93-03 (Serial No. BSEP 93-0099) which satisfied Reporting Requirements 1 and 2 of the Bulletin for BSEP.

Enclosure 1 provides a description of CP&L's hardware modification designed to satisfy the requested actions of the Bulletin. The modification is functionally the same for both BSEP Unit 1 and Unit 2, although minor variations may exist between the modification for each unit with respect to piping lengths, valve numbers, etc. Installation was completed for Unit 1 during the current refueling outage, with testing remaining to be completed during power ascension of Unit 1. Installation will be completed for Unit 2 during the upcoming Unit 2 outage (B211R1) scheduled to begin in March, 1994.

Due to the similarity of the modifications for both units, submittal of this information completes the requested actions and satisfies the reporting requirements of NRC Bulletin 93-03 for BSEP.

In addition, CP&L reviewed NRC Information Notice 93-89 "Potential Problems with BWR Level Instrumentation Backfill Modifications" which alerted addressees to potential problems involving hardware modification to the reactor vessel water level instrumentation system. The engineering review found that the design problems raised in the Notice do not apply to the backfill modification for the BSEP units.

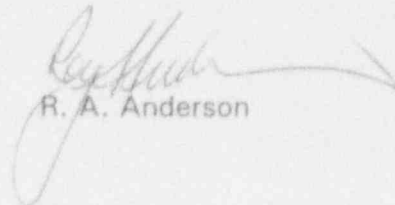
010093

9402030233 940126
PDR ADOCK 05000324
Q PDR

JEH

Please refer any questions regarding this submittal to Mr. W. Levis at (910) 457-2404.

Very truly yours,

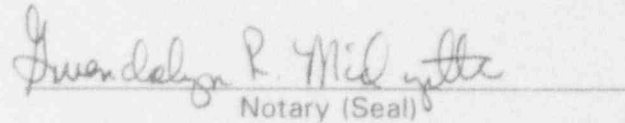


R. A. Anderson

JCP/jcp (BNP94018.wpf)

Enclosures

Roy A. Anderson, having been first duly sworn, did depose and say that the information contained herein is true and correct to the best of his information, knowledge and belief; and the sources of his information are officers, employees, contractors, and agents of Carolina Power & Light Company.



Notary (Seal)

My commission expires: August 12, 1996

- cc: Mr. S. D. Ebnetter, Regional Administrator, Region II
- Mr. P. D. Milano, NRR Project Manager - Brunswick Units 1 and 2
- Mr. R. L. Prevatte, Brunswick NRC Senior Resident Inspector

Enclosure 1

Brunswick Steam Electric Plant
Unit Nos. 1 and 2

Description of Hardware Modification
Per NRC Bulletin 93-03 Requested Actions

Continuous Backfill Installation to Cold Reference Legs
Reactor Vessel Water Level Instrumentation

The scope of this project is to provide a continuous backfill installation to the cold reference legs of the Reactor Vessel Water Level instrumentation. The modification connects a common supply of water from the CRD Hydraulic System charging water header to the cold reference legs at each of seven reference legs. The high pressure of the charging water header provides a driving force for water to flow into the reference legs and maintain a purging flow to prevent the migration of noncondensable gases from the condensing pots down into the reference legs.

The metering station for each of the reference legs consists of various isolation valves, a turbine flow meter, a needle control valve, and double check valves.

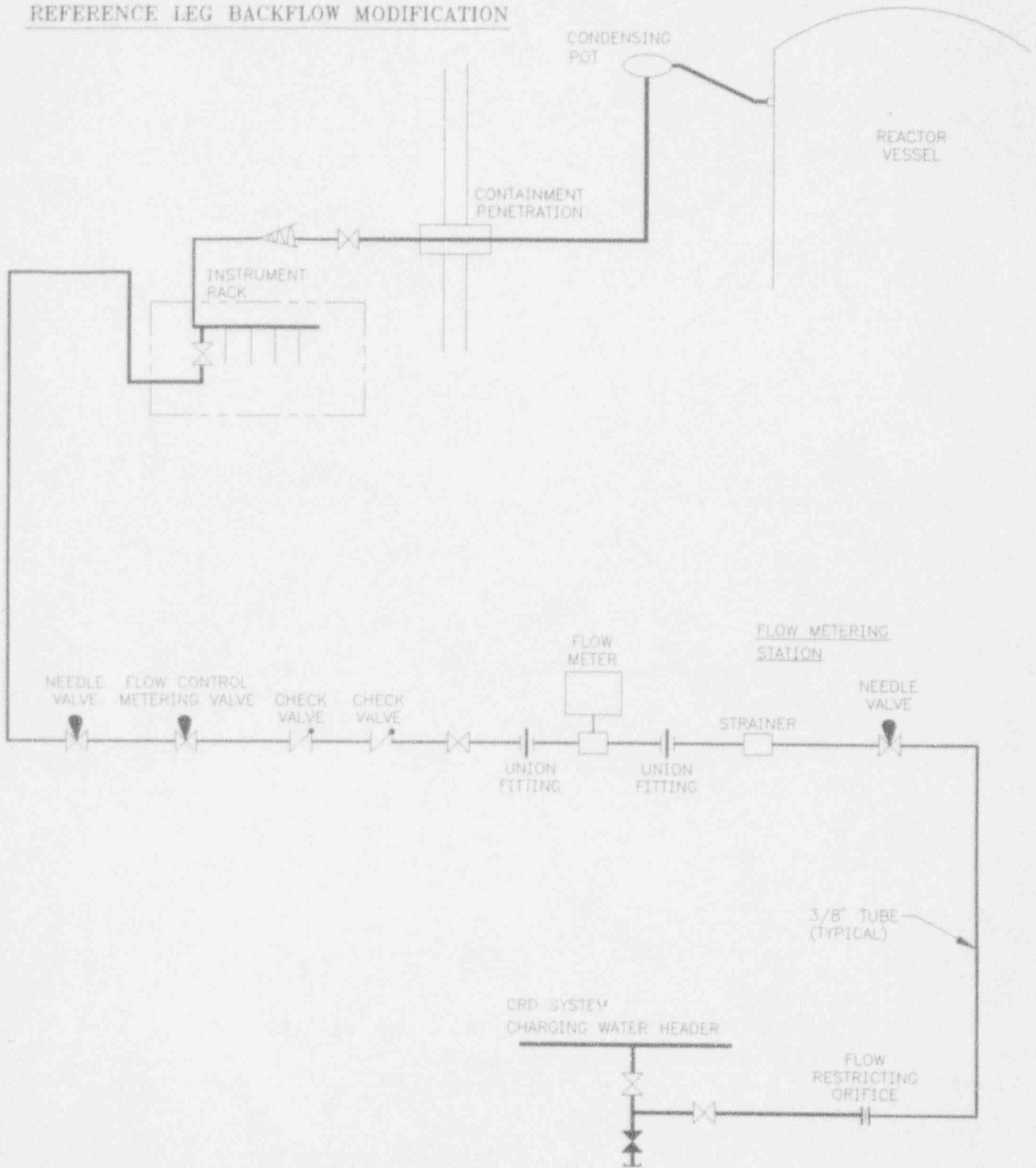
The ranges and functions of the cold reference leg condensing pots are as follows:

Instrument #	Range	Function
D002	Reactor Shutdown Range + 150 / + 550 psig	Reference Leg Condensing Pot
D004A/B	Narrow Range + 150 / + 210 psig	Feedwater Control and RHR containment spray interlocks
D004C/D	Narrow Range + 150 / + 210 psig	Analog Trip System
DU001/2	Wide Range 0 / + 210 psig	Post Accident Monitoring

In addition, attached is a simplified diagram depicting the system configuration.

RX VESSEL WATER LEVEL INSTRUMENTATION

REFERENCE LEG BACKFLOW MODIFICATION



Enclosure 2
List of Regulatory Commitments

The following table identifies those actions committed to by Carolina Power & Light Company in this document. Any other actions discussed in the submittal represent intended or planned actions by Carolina Power & Light Company. They are described to the NRC for the NRC's information and are not regulatory commitments. Please notify the Manager-Regulatory Affairs at the Brunswick Nuclear Plant of any questions regarding this document or any associated regulatory commitments.

Commitment	Committed date or outage
1. Installation was completed for Unit 1 during the current refueling outage, with testing remaining to be completed during power ascension of Unit 1.	02/15/94
2. Installation will be completed for Unit 2 during the upcoming Unit 2 outage (B211R1) scheduled to begin in March, 1994.	B211R1



COPY

Carolina Power & Light Company
PO Box 10429
Southport NC 28461

JAN 26 1994

Roy A. Anderson
Vice President
Brunswick Nuclear Plant
919 457-2496

SERIAL: BSEP 94-0018

U. S. Nuclear Regulatory Commission
ATTENTION: Licensee Control Desk
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 & 50-324/LICENSE NOS. DPR-71 & DPR-62
COMPLETION OF REQUESTED ACTIONS - NRC BULLETIN 93-03

Gentlemen:

This letter satisfies Reporting Requirement 3 of NRC Bulletin 93-03 "Resolution of Issues Related to Reactor Vessel Water Level Instrumentation in BWRs" for the Brunswick Steam Electric Plant, Unit Nos. 1 and 2 (BSEP). That requirement requested licensees to submit to NRC "within 30 days of completion of the requested hardware modifications, a report confirming completion and describing the modification implemented." On July 21, 1993, Carolina Power & Light Company (CP&L) submitted a response to NRC Bulletin 93-03 (Serial No. BSEP 93-0099) which satisfied Reporting Requirements 1 and 2 of the Bulletin for BSEP.

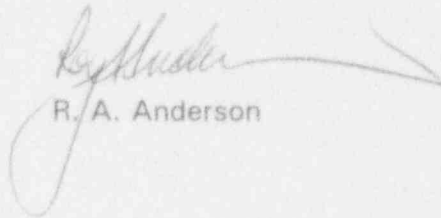
Enclosure 1 provides a description of CP&L's hardware modification designed to satisfy the requested actions of the Bulletin. The modification is functionally the same for both BSEP Unit 1 and Unit 2, although minor variations may exist between the modification for each unit with respect to piping lengths, valve numbers, etc. Installation was completed for Unit 1 during the current refueling outage, with testing remaining to be completed during power ascension of Unit 1. Installation will be completed for Unit 2 during the upcoming Unit 2 outage (B211R1) scheduled to begin in March, 1994.

Due to the similarity of the modifications for both units, submittal of this information completes the requested actions and satisfies the reporting requirements of NRC Bulletin 93-03 for BSEP.

In addition, CP&L reviewed NRC Information Notice 93-89 "Potential Problems with BWR Level Instrumentation Backfill Modifications" which alerted addressees to potential problems involving hardware modification to the reactor vessel water level instrumentation system. The engineering review found that the design problems raised in the Notice do not apply to the backfill modification for the BSEP units.

Please refer any questions regarding this submittal to Mr. W. Levis at (910) 457-2404.

Very truly yours,

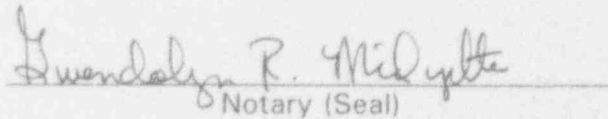


R. A. Anderson

JCP/jcp (BNP94018.wpf)

Enclosures

Roy A. Anderson, having been first duly sworn, did depose and say that the information contained herein is true and correct to the best of his information, knowledge and belief; and the sources of his information are officers, employees, contractors, and agents of Carolina Power & Light Company.



Notary (Seal)

My commission expires: August 12, 1996

cc: Mr. S. D. Ebnetter, Regional Administrator, Region II
Mr. P. D. Milano, NRR Project Manager - Brunswick Units 1 and 2
Mr. R. L. Prevatte, Brunswick NRC Senior Resident Inspector

bcc: Mr. T. A. Baxter
SHEEC Training Reference
INPO Records Receipt