April 1, 2005

LICENSEE: Carolina Power & Light, Company

FACILITY: Brunswick Steam Electric Plant , Units 1 and 2

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE HELD ON JANUARY 12, 2005, BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND CAROLINA POWER & LIGHT, COMPANY, CONCERNING DRAFT REQUESTS FOR ADDITIONAL INFORMATION PERTAINING TO THE BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2, LICENSE RENEWAL APPLICATION (TAC NOS. MC4641 AND MC4642)

The U.S. Nuclear Regulatory Commission staff (the staff) and representatives of Carolina Power & Light, Company (CP&L) held a telephone conference call on January 12, 2005, to discuss and clarify the staff's draft requests for additional information (D-RAIs) concerning the Brunswick Steam Electric Plant, Units 1 and 2, license renewal application. The conference call was useful in clarifying the intent of the staff's D-RAIs.

Enclosure 1 provides a listing of the meeting participants. Enclosure 2 contains a listing of the D-RAIs discussed with the applicant, including a brief description on the status of the items.

The applicant had an opportunity to comment on this summary.

/RA/

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License Renewal and Environmental Impacts Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Docket Nos.: 50-325 and 50-324

Enclosures: As stated

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April 1, 2005

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TO DISCUSS THE BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2
LICENSE RENEWAL APPLICATION
JANUARY 12, 2005

Participants	Affiliation
Michael Heath	Carolina Power & Light Company (CP&L)
Michael Guthrie	CP&L
Thomas Overton	CP&L
S. K. Mitra	U.S. Nuclear Regulatory Commission (NRC)
Carolyn Lauron	NRC
Hansraj Ashar	NRC
Zhengguang Fu	NRC
Richard Morante	Brookhaven National Lab (BNL)

Enclosure 1

DRAFT REQUESTS FOR ADDITIONAL INFORMATION (D-RAI)
BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2
LICENSE RENEWAL APPLICATION

January 12, 2005

The U.S. Nuclear Regulatory Commission staff (the staff) and representatives of Carolina Power & Light, Company (CP&L) held a telephone conference call on January 12, 2005, to discuss and clarify the staff's draft requests for additional information (D-RAIs) concerning the Brunswick Steam Electric Plant, Units 1 and 2, license renewal application (LRA). The following D-RAIs were discussed during the telephone conference call.

D-RAI 4.7.4-1

The torus liner and the ASME, Section XI, ISI component supports are dispositioned through 10 CFR 54.21(c)(1)(ii). In its description of the analyses, the applicant states:

The corrosion rate in the immersion zone was determined to be 0.00116 inch/year based on plant calculations and measurements. The general corrosion rate for the vapor zone is conservatively assumed to be the same as the immersion zone.

... [For ASME, Section XI, ISI Component Supports], (t)he evaluation of considered the number of sides of the component exposed to the torus environment and the time at which the component had been installed.

The staff requests the applicant to list the ASME, Section XI, ISI components, and for each component, the code inspection requirements and a description of the results from the most recent inspections.

The staff requests the applicant to provide details of the plant calculations and measurements to support the use of the 0.00116 inch/year corrosion rate.

- The additional information should include, at a minimum, the location and frequency of measurements taken, the evaluation assumptions, the basis/references for these assumptions, acceptance criteria, and how the number of sides of the component exposed to the environment and the in-service time of the component are considered in the evaluation.

- If the corrosion rate was based on the assumption of coating integrity, additional information related to the coating inspections performed and the results from these inspections should be included.

The staff requests the technical basis (e.g., industry experience, technical reports) to support the assertion that the corrosion rate for the immersion zone is a conservative assumption for the corrosion rate in the vapor zone. The staff believes that the corrosion rate could be higher in the vapor zone and the highest rate should be in the (water/vapor) transition zone.

Discussion: Based on the discussion with the applicant, the staff indicated and the applicant agreed that this question is revised as follows and will be sent as a formal RAI.

The torus liner and the ASME, Section XI, ISI component supports are dispositioned through 10 CFR 54.21(c)(1)(ii). In its description of the analyses, the applicant states:

> The corrosion rate in the immersion zone was determined to be 0.00116 inch/year based on plant calculations and measurements. The general corrosion rate for the vapor zone is conservatively assumed to be the same as the immersion zone.
>
> ... [For ASME, Section XI, ISI Component Supports], (t)he evaluation considered the number of sides of the component exposed to the torus environment and the time at which the component had been installed.

The staff requests the applicant to describe the most recent significant inspection findings for the selected ASME, Section XI, ISI components, and the code inspection requirements for these components.

The staff requests the applicant to provide details of the plant calculations and measurements to support the use of the 0.00116 inch/year corrosion rate.

The additional information should include a description of the corrosion monitoring program (discussed during the January 12, 2005, teleconference call) from which the 0.00116 inches/year corrosion rate was determined. In addition, the applicant should indicate the number and frequency of coupons removed and tested.

The staff also requests that the applicant discuss the frequency and results of the wall thickness measurements in the vapor zone to support the assertion that the corrosion rate for the immersion zone is a conservative assumption for the corrosion rate in the vapor zone.

D-RAI 4.7.4-2

The non-ASME, Section XI, ISI component supports are dispositioned through 10 CFR 54.21(c)(1)(iii). In its description of the analyses, the applicant states:

> The aging management activities will be predicated on the results of volumetric measurements performed on the components. Therefore, prior to the period of extended operation, the One-Time Inspection Program will be used to perform volumetric measurements to determine the actual rate of corrosion of the Vent Header Lower Column Support in the immersed and vapor space of the Torus, and platform steel and miscellaneous supports in the vapor space of the Torus.

The staff requests the applicant to describe the baseline inspection performed and the results of the inspection for each of the non-ASME, Section XI, ISI components, from which the actual rate of corrosion will be determined.

In addition to the description above, the applicant specifically states that a planned representative ultrasonic examination of the lower column support wall for the vent header will be completed prior to the period of extended operation. However, there are no similar statements of a planned UT for other non-ASME, Section XI, ISI component supports. The applicant later discusses the use of a One-Time Inspection Program to perform volumetric measurements on the lower column support for the vent header and the platform steel and

miscellaneous supports in the vapor space of the torus. The staff requests the applicant to discuss how the OTI Program is defined such that all the non-ASME, Section XI, ISI component supports are included within the scope of the OTI program, ultrasonically inspected, and the inspection results analyzed and evaluated for the period of extended operation.

The staff requests the applicant clarify the following:

Does the description and scope for the non-ASME, Section XI, ISI component supports apply to Unit 1 or Unit 2 or both? In what environments are these components - vapor zone or immersed zone or both?

Discussion: Based on the discussion with the applicant, the staff indicated and the applicant agreed that this question is revised as follows and will be sent as a formal RAI.

The non-ASME, Section XI, ISI component supports are dispositioned through 10 CFR 54.21(c)(1)(iii). In its description of the analyses, the applicant states:

> The aging management activities will be predicated on the results of volumetric measurements performed on the components. Therefore, prior to the period of extended operation, the One-Time Inspection Program will be used to perform volumetric measurements to determine the actual rate of corrosion of the Vent Header Lower Column Support in the immersed and vapor space of the Torus, and platform steel and miscellaneous supports in the vapor space of the Torus.

The staff requests the applicant to describe the baseline inspection performed and the results of the inspection for each of the non-ASME, Section XI, ISI components, from which the actual rate of corrosion will be determined.

The staff requests the applicant to discuss how the One-Time Inspection (OTI) Program is defined such that all the non-ASME, Section XI, ISI component supports are included within the scope of the OTI program, ultrasonically inspected, and the inspection results analyzed and evaluated for the period of extended operation.

The staff requests the applicant clarify that the description and scope for the non-ASME, Section XI, ISI component supports applies to Unit 1 or Unit 2 or both and to list the components and the environments in which these components are found (i.e., vapor zone or immersed zone or both).