



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

February 2, 2009

Mr. Benjamin C. Waldrep
Vice President
Carolina Power and Light Company
Brunswick Steam Electric Plant
P.O. Box 10429
Southport, NC 28461

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT - NOTIFICATION OF INSPECTION
AND REQUEST FOR INFORMATION

Dear Mr. Waldrep:

During the periods of March 9 – 13, 2009, and March 20 – 24, 2009, the NRC will conduct baseline radiation safety inspection activities at the Brunswick Steam Electric Plant. The inspection will focus on the Occupational Radiation Safety Inspection cornerstone using NRC Inspection Procedures (IPs) 71121.01, and 71121.02. In addition, solid radioactive waste processing and transportation activities which are part of the Public Radiation Safety Inspection cornerstone will be inspected using IP 71122.02. Finally, the inspection will review Performance Indicator data for both Occupational and Public Radiation Safety cornerstones using the applicable sections of IP 711551.

Experience has shown that this inspection is resource intensive both for the NRC inspectors and your staff. In order to minimize the impact to your on-site resources and to conduct a productive inspection, we have enclosed a request for documents needed for this inspection. It is important that all of these documents are up to date and complete, in order to minimize the number of additional documents requested during the preparation and/or the onsite portions of the inspection. The lead inspector has requested that the subject informational material be made available to the NRC staff by February 17, 2009, to allow preparation for the upcoming inspection.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Mr. L. Grzeck of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector, George B. Kuzo at (404) 562-4658.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS).

CP&L

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ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

Brian Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

Dockets Nos. 50-325, 50-324
License Nos. DPR-71 and DPR-62

Enclosure: Occupational Radiation Protection Inspection Document Request

cc w/encl.: (See page 3

CP&L

cc w/encl:

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(cc w/enc. Continued on Page 4)

(cc w/enc. Continued from Page 3)

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**OCCUPATIONAL RADIATION SAFETY CORNERSTONE INSPECTION
INFORMATION REQUEST**

SITE: Brunswick Steam Electric Plant (BSEP) Rpt. 05000325,324/2009002

PRE-INSPECTION VISIT: Not Applicable

INSPECTION DATES: March 9-13, 2009, and March 20-24, 2009

NRC INSPECTORS: George B. Kuzo, George.Kuzo@NRC.GOV
Adam Nielsen, Adam.Nielsen@NRC.GOV
Donald Forbes Donald.Forbes@NRC.GOV

ACCOMPANYING PERSONNEL Jennifer Foster Jennifer.Foster@NRC.GOV

IDENTIFIED LICENSEE CONTACTS: Access Controls - Jerry Johnson, Environmental Radiation and Chemistry Superintendent [910 457-2264]/John Vincelli, RPM [2608]; ALARA – Steve Blitchington, [2991]; Transportation and Radioactive Waste, Scott Taylor, [2125]; Effluent Pls – John Piepmeyer, 2776; and Licensing, L. Grzeck, 2487

Inspection Procedures:	IP 71121.01	Access Control To Radiologically Significant Areas
	IP 71121.02	ALARA
	IP 71122.02	Radioactive Material Processing and Transportation
	IP 71151	Performance Indicator Verification for Occupational and Public Radiation Safety Cornerstones

Note: This is a broad list of the documents the NRC inspectors will be interested in obtaining and reviewing prior to the on-site inspection visit. The current version of these documents is expected unless specified otherwise. Electronic media is preferred, if readily available. (The preferred file format is Word or searchable “pdf” files on CDROM or USB drive. Please provide two copies of each electronic media device submitted.) Information in the “document lists” should contain enough information to be easily understood by someone who has a knowledge of the subject. The lead inspector can answer questions regarding questions on specific information needs with licensee staff and may request additional documents.

ACCESS CONTROLS TO RADIOLOGICALLY SIGNIFICANT AREAS [7112101]

Prior to the Onsite Inspection

- Provide List/Maps of:
 - Current HRAs, Locked HRAs, VHRAs, and airborne radioactivity areas - Note - only provide general area maps showing rooms w/ HRA/LHRA/VHRA conditions.
Detailed maps of specific rooms/areas not needed
- Provide Procedure/Guidance documents for:
 - administrative and physical access controls including posting, labeling, survey frequency, dosimetry, multi-badging, LHRA key control, control of divers, controls for non-fuel highly activated materials stored in SPF, direct alarming dosimetry (DAD) use, RWP development.

Enclosure

- Provide Corrective Action Program (CAP) documents including:
 - listing of NCRs issued/documented since January 2008 for radiation protection program activities including access control/personnel contamination events, and intakes
 - Audit and self assessments conducted/issued since January 2008 for radiation protection program activities
- Provide list of scheduled work in HRAs, LHRA, VHRA, airborne radioactivity areas tentatively scheduled for the weeks of the onsite inspection (03/9–13/09; & 03/20-24/09)
- Identify list of infrequently performed outage tasks or tasks potentially involving LHRA/VHRA conditions
- Provide the Following Records/Evaluations
 - List 10 maximum personnel exposures for Calendar Year (CY) 2008 and Year-to-Date (YTD) 2009
 - List of internal dose assessments (with assigned dose) for intakes since Jan 2008
 - List of Personnel Contamination Assessments since January 2008 - general list, not details

ALARA [7112102]

Prior to the Onsite Inspection

- Provide Copy of all procedures related to:
 - HP/ALARA not listed above (e.g. declared pregnant worker, shielding, etc.).
 - HP/CHEM/OPs procedures related to crudburst & cleanup.
 - ALARA manual (or equivalent high-level procedure).
 - crudburst & cleanup trending point data from previous outage (e.g. dose rates and cobalt concentration). Data should be from the same unit as the current outage.
 - source term reduction program guidance including cobalt reduction (might be part of ALARA manual).
 - flood-up and drain-down
 - List of Corrective Action Program documents related to ALARA or crudburst activities since January 1, 2007. Note: Not Necessary to duplicate CAP documents that overlap those with access controls.
 - Any self-assessments or audits of ALARA program since January 1, 2007
- Provide details regarding:
 - Highest five person-rem exposure tasks (projected) for current refueling outage and associated ALARA planning packages, if available

RADIOACTIVE MATERIAL PROCESSING AND TRANSPORTATION [7112202]

Prior to the Onsite Inspection

- Provide Copy of Current Process Control Program (PCP)
- Radioactive waste (Radwaste) Information Input Into the Annual Effluent Monitoring Reports for CYs 07 & 08
- Procedures/Guidance/Data Related to:
 - transportation of radioactive material/radwaste.
 - radwaste processing analysis, resin sluicing, and HIC dewatering.
 - Part 61 Sampling and Analysis;
 - Development/Evaluation of Scaling Factors and Application to Hard to Detect Radionuclides
 - Procedures for evaluation of RCS/radioactive waste chemistry to verify stability of waste stream radionuclide composition.

- Provide the following
 - list of shipments made since January 1, 2007. Highlight 5 “hottest” shipments and any Type A container shipments made since January 1, 2007
 - list of changes made to solid radwaste processing systems since January 2007.
 - list all permanently abandoned radwaste processing equipment or systems.
 - the last two most recent 10 CFR Part 61 analyses for all waste streams. Note: only need to provide appropriate onsite contact or location were Part 61 waste stream analysis data are maintained
 - any data on indication of failed-fuel since January 1, 2007
 - list of CAP documents related to shipping or radwaste since January 1, 2007 (titles/ summaries)
 - any self-assessments/audits of shipping/radwaste processing program since January 1, 2007
- Transport Cask CoC’s and associated documents for frequently used transport casks
 - Copies not required prior to onsite inspection but listing of responsible staff/on-site document location and availability requested.
 - Licensee procedures for cask loading and/or closure

PI VERIFICATION [71151]

- Procedure/Guidance for collection and reporting of PI data.
- Records:
 - CAP NCRs related to occupational and public radiation safety PI occurrences issued since April 1, 2008
 - PI reports since April 1, 2008
 - Electronic Dosimetry Alarm Logs Since April 1, 2008
 - List of Out of Service (OOS) Effluent Monitors and Length of Inoperability since April 1, 2008. Note, only Include monitors declared OOS for periods exceeding 24 hours

GENERAL INFORMATION NEEDED

- Organization Charts and Contact Phone Numbers for:
 - Radiation Protection
 - Chemistry
 - Operations
 - Maintenance and I&C
- Procedure for issuing NCRs and assessing issues for risk significance.
- Updated Final Safety Analysis Report Chapters 11 (Effluents/Radwaste) and 12 Radiation Protection

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Sincerely,

/RA/

Brian Bonser, Chief
 Plant Support Branch 1
 Division of Reactor Safety

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Enclosure: Occupational Radiation Protection Inspection Document Request

cc w/encl.: (See page 3)

Distribution w/encl:

- C. Evans, RII EICS (Part 72 Only)
- L. Slack, RII EICS (Linda Slack)
- OE Mail (email address if applicable)
- RIDSNRRDIRS
- PUBLIC
- Farideh E. Saba, NRR (PM: BR, CR3,)
- R. Pascarelli, NRR ((Regulatory Conferences Only))

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 ADAMS: Yes ACCESSION NUMBER: _____ X SUNSI REVIEW COMPLETE

OFFICE	RII:DRS	RII:DRS	RII:DRP				
SIGNATURE	/RA/	/RA/	/RA/				
NAME	B. Bonser	G. Kuzo	R. Musser				
DATE	2/2/2009	2/2/2009	2/2/2009	2/ /2009	2/ /2009	2/ /2009	2/ /2009
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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