



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

January 3, 2014

Mr. George T. Hamrick  
Site Vice President  
Brunswick Steam Electric Plant  
8470 River Road SE  
Southport, NC 28461-0429

**SUBJECT: BRUNSWICK NUCLEAR PLANT - NOTIFICATION OF INSPECTION AND  
REQUEST FOR INFORMATION**

Dear Mr. Hamrick:

During the weeks of February 10 - 14, 2014, and March 10 - 14, 2014, the U.S. Nuclear Regulatory Commission (NRC) will perform a baseline Radiation Safety Inspection at the Brunswick Nuclear Plant (Inspection Procedures 71124.01, 71124.06, 71124.07, 71124.08, and Radiation Safety sections of 71151). In order to minimize the impact to your onsite resources and to ensure a productive inspection, we have enclosed a request for documents needed for this activity. The NRC requests that these documents be provided to the inspectors no later than February 3, 2014.

We have discussed the schedule for these inspection activities with your staff, and understand that our regulatory contact for this inspection will be Lee Grzeck. If there are any questions about this inspection or the material requested, please contact the lead inspector, Adam Nielsen at 404-997-4660, or the Plant Support Branch 1 Chief, Brian Bonser at 404-997-4653.

In accordance with Title 10 of the *Code of Federal Regulations* (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 component of NRC's Agency Wide Documents Access and Management System (ADAMS), accessible from the NRC web site at <http://www.nrc.gov/reading-rm/adams.html>.

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget under control numbers 3150-0008, 3150-0011, 3150-0014, 3150-0044, and 3150-0135. The NRC may not conduct or

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Sincerely,

***/RA by Ruben Hamilton Acting For/***

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

Docket Nos. 50-324 and 50325  
License Nos. DPR-62 and DPR-71

Enclosure:  
Document Request List

cc: Distribution via Listserv

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SIGNATURE	ADN	RKH1 for BRB1					
NAME	A. Nielsen	B. Bonser					
DATE	1/ 3 /2014	1/ 3 /2014					
E-MAIL COPY	<b>YES</b> NO	<b>YES</b> NO					

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## Document Request List

Inspection Dates: February 10-14, 2014, and March 10-14, 2014

Documents Due to Region II by: February 3, 2014

Inspection Procedures:	IP 71124.01	Radiological Hazard Assessment and Exposure Controls
	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment
	IP 71124.07	Radiological Environmental Monitoring Program
	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation
	IP 71151	Performance Indicator Verification

Lead Inspector: Adam Nielsen  
Sr. Health Physicist  
US NRC Region II  
(404) 997-4660  
Adam.Nielsen@nrc.gov

**Note:** The current version of these documents is expected unless specified otherwise. Electronic media is preferred if readily available. *Note that the inspectors cannot accept data provided on USB or "flash" drives due to NRC IT security policies.* Please organize the information as it is arranged below to the extent possible. Experience has shown that a poorly organized CD leads to a less efficient inspection and places additional burden on licensee staff. Pay particular attention to the date ranges for the items requested as they may change from item to item. If there are questions regarding the documents requested, or if the documents cannot be provided by the due date, please do not hesitate to contact the lead inspector.

### Miscellaneous

1. List of primary contacts for each inspection area w/phone numbers.
2. Corrective action program procedure.

### 71124.01 - Radiological Hazard Assessment and Exposure Controls

1. List of outage RWPs.
2. Timeline of major outage activities (e.g., Gantt chart or similar list).
3. Procedures related to HP controls (e.g., Posting, labeling, surveys, RWPs, contamination control, HRA/LHRA/VHRA control, key control, control of divers, special controls during fuel offload, hot spots, etc.).
4. Procedures related to release of personnel and materials (e.g., release surveys, decontamination, guidance for alarm follow-up, etc.).
5. List of Nationally Tracked Sources and any change-of-ownership transactions.

Enclosure

6. Most recent sealed source inventory record.
7. List of all non-fuel items stored in spent fuel pool.
8. Most recent self-assessment or audit covering HP controls.
9. List of NCRs related to HP controls (e.g., radworker error, HP technician error, posting issues, HRA/LHRA/VHRA issues, survey problems, etc.) issued since March 1, 2013. *This should be a list of corrective action documents containing an AR number and brief description, not full NCRs.*

#### 71124.06 - Radioactive Gaseous and Liquid Effluent Treatment

1. Offsite Dose Calculation Manual (ODCM) and a list of changes made in the last revision.
2. List of permitted effluent release points, including any release points from onsite surface water bodies (as applicable).
3. Procedures for:
  - a) collection, analysis, release and dose evaluations for gaseous and liquid effluents
  - b) groundwater monitoring program
4. List of changes made to radioactive effluent processing/discharge systems since March 1, 2012.
5. List of any non-radioactive systems that have become contaminated since March 1, 2012.
6. List of any unmonitored, unplanned, or otherwise abnormal gaseous or liquid releases since March 1, 2012. Include copies of any reports to the NRC (via 10 CFR 50.72 or other reporting requirements) regarding abnormal onsite spills/leaks of radioactive material.
7. List of 10 CFR 50.75(g) entries made since March 1, 2012.
8. List of liquid and gaseous effluent monitors listed as out-of-service (OOS) for > 1 day since March 1, 2012, including any special reports submitted to the NRC as a result of effluent monitor operability.
9. Inter-laboratory comparison program results (for onsite count lab) since March 1, 2012.
10. Results of the last two surveillance tests performed on the HEPA/Charcoal filter train components of the Standby Gas Treatment System.
11. The last two gaseous effluent release permits and the last two liquid effluent release permits.
12. End-of-year public dose summary for 2013 (if 2013 Effluent Report is unavailable).
13. Recent results of the groundwater monitoring program (can be included as part of conference call presentation package).
14. Most recent audit, self-assessment, and/or review of the radioactive effluent monitoring program.
15. List of NCRs generated since March 1, 2012, as a result of gaseous and liquid effluent processing and/or ODCM related activities. Include all NCRs related to voluntary reporting of onsite spills/leaks of radioactive material. *This should be a list of corrective action documents containing an AR number and brief description, not full NCRs.*

#### 71124.07 - Radiological Environmental Monitoring Program

1. Collection schedule for Radiological Environmental Monitoring Program (REMP) samples during the week of inspection and contact numbers for collection staff.
2. Procedures for:
  - a) collection and analysis of environmental samples
  - b) calibration and maintenance of REMF air and/or water samplers
  - c) calibration of meteorological monitoring instruments (wind speed & direction, air temperature, etc.)
  - d) periodic meteorological instrumentation surveillance requirements

3. The last two calibration records for REMP air and water sampling equipment (as applicable).
4. The last two calibration records for each meteorological monitoring instrument on the primary tower (wind speed, wind direction, and air temperature).
5. Inter-laboratory comparison program results (environmental lab) since March 1, 2012.
6. List of systems, structures, or components (SSCs), identified as credible mechanisms for the potential release of licensed material to the groundwater.
7. List of changes to the REMP (sample locations, sample frequency, type of samples, etc.) since March 1, 2012.
8. Most recent audit, self-assessment, and/or review of REMP activities.
9. Most recent audit of vendor lab used to process REMP samples.
10. List of NCRs generated as a result of REMP activities since March 1, 2012. *This should be a list of corrective action documents containing an AR number and brief description, not full NCRs.*

71124.08 - Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation

1. All procedures related to transportation of radioactive material/waste, radwaste characterization, solid radwaste processing, and storage of radioactive material (RAM) and radwaste.
2. Process Control Program.
3. Liquid and solid radwaste system diagrams and detailed system descriptions (e.g., information that might be contained in curricula for training new system engineers).
4. List of all shipments made since March 1, 2012 (i.e., shipping logs).
5. List of all changes made to solid and liquid radwaste processing systems since March 1, 2012.
6. List of all abandoned solid and liquid radwaste processing equipment.
7. Last two 10 CFR Part 61 analyses for each waste stream, including QA data (e.g., in-house vs. vendor lab comparisons, current results vs. database, etc.).
8. Most recent self-assessment or audit of Shipping/radwaste processing and RAM storage programs.
9. List of NCRs related to shipping, radwaste processing, or RAM storage since March 1, 2012. *This should be a list of corrective action documents containing an AR number and brief description, not full NCRs.*
10. Training records for all individuals qualified to ship radioactive material/waste demonstrating the requirements of 49 CFR 172 Subpart H, HAZMAT training, have been met. *This information can be reviewed onsite rather than included with the submittal because it may contain Personally Identifiable Information.*

71151 – Performance Indicator Verification (Occupational and Public Cornerstones)

1. Procedure for gathering and reporting NRC PI data.
2. List of ED alarms (dose and dose rate) since March 1, 2013.
3. All NCRs associated with PI hits since March 1, 2013.