



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

September 4, 2012

Mr. Michael J. Annacone
Vice President
Brunswick Steam Electric Plant
P.O. Box 10429
Southport, NC 28461-0429

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR BRUNSWICK STEAM ELECTRIC
PLANT, UNITS 1 AND 2 (NRC INSPECTION REPORT 05000325/2012006 AND
05000324/2012006)**

Dear Mr. Annacone:

On August 15, 2012, the NRC staff completed its mid-cycle performance review of the Brunswick Steam Electric Plant, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2011, through June 30, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined the performance at Brunswick Steam Electric Plant Units 1 and 2 during the most recent quarter was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix based on one inspection finding classified as low to moderate safety significance (White) in the Mitigating Systems Cornerstone and all PIs indicated that your performance was within the nominal, expected range (i.e., green). The White finding was related to the failure to identify and correct a condition adverse to quality associated with the entrance enclosures for the Emergency Diesel Generator (EDG) fuel oil tank rooms. This finding was identified on November 29, 2011. On June 21, 2012, the U.S. Nuclear Regulatory Commission (NRC) completed a supplemental inspection pursuant to Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area", at Brunswick Unit 1 and 2 facilities. As a result, the NRC determined that the inspection objectives were met. This finding will be closed in inspection report 05000325/2012004 and 05000324/2012004.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-188 "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides

the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

We also plan on conducting several infrequently performed inspections which include: Licensed Operator Requalification, Operator Licensing Exams; and TI 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks."

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact Randy Musser at 404-997-4603 with any questions you may have regarding this letter.

Sincerely,

/RA/

Richard P. Croteau, Director
Division of Reactor Projects

Docket Nos. 50-325, 50-324
License Nos. DPR-71, DPR-62

Enclosure: Brunswick Inspection/Activity Plan (09/01/2012 – 12/31/2013)

cc w/Encl: (See page 3)

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cc w/Encl: (See page 3)

☒ PUBLICLY AVAILABLE

☐ NON-PUBLICLY AVAILABLE

☐ SENSITIVE

☒ NON-SENSITIVE

ADAMS: X Yes

ACCESSION NUMBER: _____

X SUNSI REVIEW COMPLETE X FORM 665 ATTACHED

| | | | | | | | |
|--------------|-----------|------------|------------|--------|--------|--------|--------|
| OFFICE | RII:DRP | RII:DRP | RII:DRP | | | | |
| SIGNATURE | | JSD /RA/ | RAM /RA/ | | | | |
| NAME | JWorosilo | JDodson | RMusser | | | | |
| DATE | | 08/27/2012 | 08/27/2012 | | | | |
| E-MAIL COPY? | YES NO | YES NO | YES NO | YES NO | YES NO | YES NO | YES NO |

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRP\PERIODIC ASSESSMENTS & REPORTS\EOC & MID-CYCLE\2012\MID-CYCLE\INPUT\RPB4\BRUNSWICK\BRU 2012 MC LETTER.DOCX

M. Annacone

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cc w/encl:
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(cc w/Encl continued next page)

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(cc w/Encl continued)

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Letter to Michael J. Annacone from Richard P. Croteau dated September 4, 2012

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR BRUNSWICK STEAM ELECTRIC
PLANT, UNITS 1 AND 2 (NRC INSPECTION REPORT 05000325/2012006 AND
05000324/2012006)

Distribution w/encl:

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L. Douglas, RII

OE Mail

RIDSNNRRDIRS

PUBLIC

R. Pascarelli, NRR

RidsNrrPMBrunswick Resource

INPO

ROP Reports

Brunswick

Inspection / Activity Plan

09/01/2012 - 12/31/2013

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|--|--|----------------------|
| | Start | End | | | |
| 1 | 11/12/2012 | 11/16/2012 | OL EXAM - INITIAL EXAM PREP V23376 | BRUNSWICK / DECEMBER 2012 EXAM AT POWER FACILITIES | 3 |
| 1, 2 | 11/26/2012 | 11/30/2012 | OL RQ - REQUAL INSPECTION IP 7111111B | Licensed Operator Requalification Program | 2 |
| 1 | 12/03/2012 | 12/07/2012 | OL EXAM - INITIAL EXAM - WEEK 1 V23376 | BRUNSWICK / DECEMBER 2012 EXAM AT POWER FACILITIES | 3 |
| 1 | 12/10/2012 | 12/14/2012 | OL EXAM - INITIAL EXAM - WEEK 2 V23376 | BRUNSWICK / DECEMBER 2012 EXAM AT POWER FACILITIES | 2 |
| 2 | 03/11/2013 | 03/15/2013 | ISI - UNIT 2 INSERVICE INSPECTION IP 71111108G | Inservice Inspection Activities - BWR | 1 |
| 1, 2 | 03/11/2013 | 03/15/2013 | PSB1-RP - RP OCCUPATIONAL BASELINE IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | 3 |
| 1, 2 | 03/11/2013 | 03/15/2013 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1, 2 | 03/11/2013 | 03/15/2013 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1, 2 | 03/11/2013 | 03/15/2013 | IP 71124.04 | Occupational Dose Assessment | |
| 1, 2 | 03/11/2013 | 03/15/2013 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| 1, 2 | 03/11/2013 | 03/15/2013 | IP 71151 | Performance Indicator Verification | |
| 2 | 03/18/2013 | 03/22/2013 | LR71003 - UNIT 2 POST APPROVAL LR PHASE 1 IP 71003 | Post-Approval Site Inspection for License Renewal | 2 |
| 1, 2 | 03/25/2013 | 03/29/2013 | PSB1-RP - RP OCCUPATIONAL BASELINE WEEK2 IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | 4 |
| 1, 2 | 03/25/2013 | 03/29/2013 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1, 2 | 03/25/2013 | 03/29/2013 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1, 2 | 03/25/2013 | 03/29/2013 | IP 71124.04 | Occupational Dose Assessment | |
| 1, 2 | 03/25/2013 | 03/29/2013 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| 1, 2 | 03/25/2013 | 03/29/2013 | IP 71151 | Performance Indicator Verification | |
| 1, 2 | 04/29/2013 | 05/03/2013 | PI&R - PROBLEM IDENTIFICATION AND RESOLUTION IP 71152B | Problem Identification and Resolution | 5 |
| 1, 2 | 05/13/2013 | 05/17/2013 | IP 71152B | Problem Identification and Resolution | |
| 1, 2 | 08/19/2013 | 08/23/2013 | EP - EMERGENCY PREPAREDNESS INSPECTION IP 7111402 | Alert and Notification System Testing | 1 |
| 1, 2 | 08/19/2013 | 08/23/2013 | IP 7111403 | Emergency Preparedness Organization Staffing and Augmentation System | |
| 1, 2 | 08/19/2013 | 08/23/2013 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | |
| 1, 2 | 08/19/2013 | 08/23/2013 | IP 71151 | Performance Indicator Verification | |

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

Enclosure

Brunswick
Inspection / Activity Plan
09/01/2012 - 12/31/2013

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|--|---------------|------------|---------------------|-----------------------------------|----------------------|
| | Start | End | | | |
| CDBI - COMPONENT DESIGN BASIS INSPECTION | | | | | |
| 1, 2 | 08/19/2013 | 08/23/2013 | IP 7111121 | Component Design Bases Inspection | 10 |
| 1, 2 | 09/09/2013 | 09/13/2013 | IP 7111121 | Component Design Bases Inspection | |
| 1, 2 | 09/23/2013 | 09/27/2013 | IP 7111121 | Component Design Bases Inspection | |
| 1, 2 | 10/07/2013 | 10/11/2013 | IP 7111121 | Component Design Bases Inspection | |
| Comments: | | | | | |

Comments: