



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

January 24, 2013

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

**SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT UNIT 2 – NOTIFICATION OF
INSPECTION AND REQUEST FOR INFORMATION**

Dear Annacone:

From March 11 – March 15, 2013, the Nuclear Regulatory Commission (NRC) will perform the baseline inservice inspection (ISI) at the Brunswick Electric Generating Plant , Unit 2, in accordance with NRC Inspection Procedure 71111.08. 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 ensure a productive inspection, we have enclosed a request for documents needed for this inspection. These documents have been divided into two groups. The first group (Section A of the enclosure) identifies information to be provided prior to the inspection to ensure that the inspectors are adequately prepared. The second group (Section B of the enclosure) identifies the information the inspectors will need upon arrival at the site. 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 on-site portions of the 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. Bill Murray of your organization. Our inspection dates are subject to change based on your updated schedule of outage activities. If there are any questions about this inspection or the material requested, please contact the lead inspector, Abhijit Sengupta at (404) 997-4430 (Abhijit.Sengupta@nrc.gov).

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

Sincerely,

/RA/

Steven J. Vias, Chief
Engineering Branch 3
Division of Reactor Safety

Docket No.: 50-324
License No.: DPR-52

Enclosure:
Inservice Inspection Document Request

cc: (See page 3)

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

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Enclosure:
Inservice Inspection Document Request

cc: (See page 3)

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
ADAMS: Yes ACCESSION NUMBER: _____ SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRS	RII:DRS	RII:DRS	RII:DRS			
SIGNATURE	RA	RA	RA				
NAME	SENGUPTA	LAKE	VIAS				
DATE	1/ 24/2013	1/ 24 /2013	1/24/2013		1/ /2013	1/ /2013	1/ /2013
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRS\ENG BRANCH 3\INSPECTIONS\WORKING DOCUMENTS\SI REQUEST FOR INFORMATION LETTERS\2013\BRUNSWICK U2 ISI RFI 2013002 AS.DOCX

cc:
Plant General Manager
Brunswick Steam Electric Plant
Progress Energy
Electronic Mail Distribution

Edward L. Wills, Jr.
Director Site Operations
Brunswick Steam Electric Plant
Electronic Mail Distribution

J. W. (Bill) Pitesa
Senior Vice President
Nuclear Operations
Duke Energy Corporation
Electronic Mail Distribution

John A. Krakuszeski
Plant Manager
Brunswick Steam Electric Plant
Electronic Mail Distribution

Lara S. Nichols
Deputy General Counsel
Duke Energy Corporation
Electronic Mail Distribution

M. Christopher Nolan
Director - Regulatory Affairs
General Office
Duke Energy Corporation
Electronic Mail Distribution

Michael J. Annacone
Vice President
Brunswick Steam Electric Plant
Electronic Mail Distribution

Annette H. Pope
Manager-Organizational Effectiveness
Brunswick Steam Electric Plant
Electronic Mail Distribution

Lee Grzeck
Regulatory Affairs Manager
Brunswick Steam Electric Plant
Progress Energy Carolinas, Inc.
Electronic Mail Distribution

Randy C. Ivey
Manager, Nuclear Oversight
Brunswick Steam Electric Plant
Progress Energy Carolinas, Inc.
Electronic Mail Distribution

Paul E. Dubrouillet
Manager, Training
Brunswick Steam Electric Plant
Electronic Mail Distribution

Joseph W. Donahue
Vice President
Nuclear Oversight
Progress Energy
Electronic Mail Distribution

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Brunswick Steam Electric Plant
8470 River Road, SE
Southport, NC 28461

John H. O'Neill, Jr.
Shaw, Pittman, Potts & Trowbridge
2300 N. Street, NW
Washington, DC 20037-1128

Peggy Force
Assistant Attorney General
State of North Carolina
P.O. Box 629
Raleigh, NC 27602

Chairman
North Carolina Utilities Commission
Electronic Mail Distribution

Robert P. Gruber
Executive Director
Public Staff - NCUC
4326 Mail Service Center
Raleigh, NC 27699-4326

Anthony Marzano
Director
Brunswick County Emergency Services
Electronic Mail Distribution

(cc cont'd – See page 4)

(cc cont'd)

Public Service Commission
State of South Carolina
P.O. Box 11649
Columbia, SC 29211

W. Lee Cox, III
Section Chief
Radiation Protection Section
N.C. Department of Environmental
Commerce & Natural Resources
Electronic Mail Distribution

Warren Lee
Emergency Management Director
New Hanover County Department of
Emergency Management
230 Government Center Drive
Suite 115
Wilmington, NC 28403

Letter to Michael J. Annacone from Steven J. Vias dated January 24, 2013

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT UNIT 2 – NOTIFICATION OF
INSPECTION AND REQUEST FOR INFORMATION

Distribution:

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INSERVICE INSPECTION DOCUMENT REQUEST

Inspection Dates: March 11 – March 15, 2013

Inspection Procedures: IP 71111.08, "Inservice Inspection (ISI) Activities"

Inspectors: Abhijit Sengupta, Reactor Inspector (ISI, Lead Inspector)

A. Information Requested for the In-Office Preparation Week

The following information should be sent to the Region II office in hard copy or electronic format (CD or SharePoint preferred), in care of Abhijit Sengupta by February 22, 2013, to facilitate the selection of specific items that will be reviewed during the on-site inspection weeks. The inspector will select specific items from the information requested below and then request, from your staff, additional documents needed during the on-site inspection week (Section B of this Enclosure). We ask that the specific items selected from the lists be available, and ready for review, on the first day of inspection. *Please provide requested documentation electronically if possible. If requested documents are large and only hard copy formats are available, please inform the inspectors, and provide subject documentation during the first day of the on-site inspection. If you have any questions regarding this information request, please call the inspector as soon as possible.

A.1 ISI / Welding Programs and Schedule Information

a) A detailed schedule (including preliminary dates) of:

- i) Nondestructive examinations (NDEs) planned for Class 1 and 2 systems and containment, performed as part of your ASME Section XI, Risk-Informed (if applicable), and augmented ISI Programs during the upcoming outage.

Please include a status summary of the NDE inspection activities versus the required inspection period percentages for this Interval by category per American Society for Mechanical Engineers (ASME) Section XI, IWX-2400. (Do not provide separately if other documentation requested contains this information.)

- ii) Reactor pressure vessel head (RPVH) examinations planned for the upcoming outage.
- iii) Examinations planned for BWR VIP program.
- iv) Welding activities to be completed during the upcoming outage for ASME Class 1, 2, or 3 structures, systems, or components (SSCs).

- b) A copy of ASME Section XI Code Relief Requests and associated NRC Safety Evaluations applicable to the examinations identified above.
- c) A list of NDE reports, (ultrasonic, radiography, magnetic particle, and dye penetrant) that have identified surface or volumetric indications, which were analytically evaluated and accepted for continued service on Code Class 1, 2, and 3 systems since the beginning of the last refueling outage. This should include the previous Section XI pressure test(s) conducted during start up, and any evaluations associated with the results of the pressure tests.
- d) A list, with a brief description (e.g., system, material, pipe size, weld number, and NDE performed), of the welds in Code Class 1, 2, and 3 systems that have been fabricated due to component repair/replacement activities since the beginning of the last refueling outage, or are planned to be fabricated during this refueling outage. Also, please indicate which of those welds are risk-significant.
- e) If reactor vessel shell weld examinations required by the ASME Code are scheduled to occur during the upcoming outage, provide a detailed description of the welds to be examined, and the extent of the planned examination. Please also provide reference numbers for applicable procedures that will be used to conduct these examinations.
- f) A copy of any 10 CFR Part 21 reports applicable to your SSCs, within the scope of Section XI of the ASME Code, that have been identified since the beginning of the last refueling outage.
- g) A list of any temporary non-code repairs in service (e.g., pinhole leaks).
- h) Copies of the most recent self assessments for the ISI, Welding, and Alloy 600 Programs.

A.5 Additional information related to all ISI activities

- a) Please provide a list with a brief description of ISI- related issues (e.g., condition reports) entered into your corrective action program since the beginning of the last refueling outage (for Unit 2). For example, a list based upon data base searches using key words related to piping degradation such as: ISI, ASME Code, Section XI, NDE, cracks, wear, thinning, leakage, rust, corrosion, boric acid, or errors in piping examinations.
- b) Please provide names and phone numbers for the following program leads:
 - ISI (Examination, planning)
 - Containment Exams
 - BWR VIP
 - RPVH Exams
 - Snubbers and Supports
 - Repair and Replacement Program
 - Licensing
 - Site Welding

B. Information to be provided on-site to the inspector at the entrance meeting (March 11, 2013):

B.1 ISI / Welding Programs and Schedule Information

- a) Updated schedules for ISI/NDE activities, planned welding activities, and schedule showing contingency repair plans, if available.
- b) For ASME Class 1, 2, and 3 welds selected by the inspector from the lists provided from Section A of this Enclosure, please provide copies of the following documentation for each subject weld:
 - i) Weld data sheet (traveler)
 - ii) Weld configuration and system location
 - iii) Applicable Code Edition and Addenda for weldment
 - iv) Applicable Code Edition and Addenda for Welding Procedures
 - v) Applicable Weld Procedures (WPS) used to fabricate the welds
 - vi) Copies of procedure qualification records (PQRs) supporting the WPS from B.1.b.v
 - vii) Copies of mechanical test reports identified in the PQRs above
 - viii) Copies of the nonconformance reports for the selected welds (If Applicable)
 - ix) Radiographs of the selected welds and access to equipment to allow viewing radiographs (If RT was performed)
 - x) Copies of the preservice examination records for the selected welds
 - xi) Copies of welder performance qualifications records applicable to WPS, including documentation that welder maintained proficiency in the applicable welding processes specified in the WPS (At least six months prior to date subject work)
 - xii) Copies of NDE personnel qualifications (VT, PT, UT, RT) (As applicable)
- c) For the ISI related corrective action issues selected by the inspector from Section A of this Enclosure, please provide a copy of the corrective actions and supporting documentation.
- d) For the NDE reports with relevant indications on Code Class 1, 2, and 3 systems selected by the inspector from Section A above, please provide a copy of the examination records, examiner qualification records, and associated corrective action documents.
- e) Please provide a copy of (or ready access to) most current revision of the ISI Program Manual and Plan for the current Interval.
- f) For the NDEs selected by the inspector from section A of this Enclosure, please provide a copy of the NDE procedures used to perform the examinations (including calibration and flaw characterization/sizing procedures). For ultrasonic examination procedures qualified in accordance with ASME Code, Section XI,

Appendix VIII, please provide documentation supporting the procedure qualification (e.g., the EPRI performance demonstration qualification summary sheets). Also, please include documentation of the specific equipment to be used (e.g., ultrasonic unit, cables, and transducers including serial numbers) and NDE personnel qualification records.

B.5 Codes and Standards

- a) Please provide ready access to: (i.e., copies provided to the inspector to use for the duration of the inspection at the on-site inspection location, or room number and location where available)
 - i) Applicable editions of the ASME Code (Sections V, IX, and XI) for the inservice inspection program and the repair/replacement program.

Inspector Contact Information:

Mailing Address:

US NRC Region 2
ATTN: Abhijit Sengupta
245 Peachtree Center Avenue, Suite 1200
Atlanta, GA 30303
Abhijit.Sengupta@nrc.gov