



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

February 7, 2013

Mr. Joseph W. Shea  
Vice President, Nuclear Licensing  
Tennessee Valley Authority  
1101 Market Street, LP 3D-C  
Chattanooga, TN 37402-2801

**SUBJECT: BROWNS FERRY, UNIT 2 - NOTIFICATION OF INSPECTION AND REQUEST FOR INFORMATION**

Dear Mr. Shea:

From March 25 to March 29, 2013, the U.S. Nuclear Regulatory Commission (NRC) will perform the baseline inservice inspection (ISI) at the Browns Ferry Nuclear Plant, Unit 2 (NRC Inspection Procedure 71111.08). Experience has shown that this inspection is resource intensive for both 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 onsite 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 Eric Bates 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, Cecil Fletcher, at 404-997-4402 ([cecil.fletcher@nrc.gov](mailto:cecil.fletcher@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.: 50-260  
License No.: DPR-52

Enclosure:  
Inservice Inspection Document Request

cc: (See page 3)

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.: 50-260  
License No.: DPR-52

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					
SIGNATURE	RA	RA					
NAME	C. FLETCHER	S. VIAS					
DATE	2/ 7 /2013	2/ 7 /2013					
E-MAIL COPY	<b>YES</b> NO	<b>YES</b> NO					

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

cc:

K. J. Polson  
Site Vice President  
Browns Ferry Nuclear Plant  
Tennessee Valley Authority  
Electronic Mail Distribution

S. M. Bono  
Plant Manager  
Browns Ferry Nuclear Plant  
Tennessee Valley Authority  
Electronic Mail Distribution

James E. Emens  
Manager, Licensing  
Browns Ferry Nuclear Plant  
Tennessee Valley Authority  
Electronic Mail Distribution

E. W. Cobey  
Manager, Corporate Licensing  
Browns Ferry Nuclear Plant  
Tennessee Valley Authority  
Electronic Mail Distribution

T. A. Hess  
Program Manager  
Corporate Licensing  
Tennessee Valley Authority  
Electronic Mail Distribution

Edward J. Viglucci  
Associate General Counsel, Nuclear  
Tennessee Valley Authority  
Electronic Mail Distribution

Chairman  
Limestone County Commission  
310 West Washington Street  
Athens, AL 35611

State Health Officer  
Alabama Dept. of Public Health  
P.O. Box 303017  
Montgomery, AL 36130-3017

Senior Resident Inspector  
U.S. Nuclear Regulatory Commission  
Browns Ferry Nuclear Plant  
10833 Shaw Road  
Athens, AL 35611-6970

Letter to Joseph W. Shea from Steven J. Vias dated February 7, 2013.

Distribution:

RIDSNRRDIRS

PUBLIC

RidsNrrPMBrownsFerry Resource

## INSERVICE INSPECTION DOCUMENT REQUEST

Inspection Dates: March 25 – March 29, 2013  
Inspection Procedures: IP 71111.08 "Inservice Inspection (ISI) Activities"  
Inspectors: Cecil Fletcher, Senior Reactor 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 site upload preferred), in care of Cecil Fletcher by March 4, 2013, to facilitate the selection of specific items that will be reviewed during the onsite inspection week. The inspector will select specific items from the information requested below and then request from your staff additional documents needed during the onsite 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 inspector, and provide subject documentation during the first day of the onsite 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 & 2 systems and containment, performed as part of your ASME Section XI, Risk Informed (if applicable), and augmented ISI Programs during the upcoming outage.  
  
Provide a status summary of the NDE inspection activities vs. the required inspection period percentages for this Interval by category per ASME Section XI, IWX-2400. (Do not provide separately if other documentation requested contains this information.)
  - ii) Examinations planned for Alloy 82/182/600 welds/components that are not included in the Section XI scope, if applicable.
  - iii) Welding activities that are scheduled to be completed during the upcoming outage (e.g., 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 that were analytically evaluated, and accepted for continued service on Code Class 1, 2, & 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 which have been fabricated due to component repair/replacement activities since the beginning of the last refueling outage, or are planned to be fabricated this refueling outage. Also, please indicate which of those welds are risk significant.
- e) If reactor vessel 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) 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 and Welding programs.
- i) 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 example, a list based upon data base searches using key words such as: ISI, ASME Code, Section XI, NDE, welding, cracks, wear, thinning, leakage, rust, corrosion, or errors in piping examinations.
- j) Please provide names and phone numbers for the following program leads:
  - i) ISI contacts (Examination, planning)
  - ii) Containment Exams
  - iii) Pressure Testing
  - iv) BWRVIP
  - v) Snubbers and Supports
  - vi) Repair and Replacement Program Manager
  - vii) Licensing Contact
  - viii) Site Welding Engineer

**B. Information to be provided onsite to the inspector at the entrance meeting (March 25, 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, provide a copy of the corrective actions and supporting documentation.
- d) For the NDE reports with recordable indications on Code Class 1, 2 and 3 systems selected by the inspector from Section A above, provide a copy of the examination records, examiner qualification records, and associated corrective action documents.



- e) A copy of (or ready access to) the 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, provide 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, provide documentation supporting the procedure qualification (e.g., the EPRI performance demonstration qualification summary sheets). Also, include documentation of the specific equipment to be used (e.g., ultrasonic unit, cables, and transducers including serial numbers), and NDE personnel qualification records.
- g) Ready access to (i.e., copies provided to the inspector for use during the onsite inspection, or room number and location where available), applicable editions of the ASME Code (Sections V, IX, and XI) for the inservice inspection, repair/replacement programs, and BWRVIP documents.

Inspector Contact Information:

Cecil Fletcher  
Senior Reactor Inspector  
404-997-4671  
[cecil.fletcher@nrc.gov](mailto:cecil.fletcher@nrc.gov)

Mailing Address:

US NRC Region 2  
Attn: Cecil Fletcher  
245 Peachtree Center Ave, NE  
Suite 1200, Atlanta, GA 30303