



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

February 15, 2011

Mr. R. M. Krich  
Vice President, Nuclear Licensing  
Tennessee Valley Authority  
3R Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

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

Dear Mr. Krich:

From March 14 to March 18, 2011, the 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 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 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 Jim Davenport 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 Michael S. Coursey at (404) 997-4671 ([michael.coursey@nrc.gov](mailto:michael.coursey@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

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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: Harold Christensen for/***

Mark Franke, Chief  
Engineering Branch 3  
Division of Reactor Safety

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

Enclosure: Inservice Inspection Document Request

(cc: w/encl See page 3)

cc w/encl:  
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Letter to R. M. Krich from M. Franke dated February 15, 2011.

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

Distribution w/encl:

RIDSNRRDIRS

PUBLIC

RidsNrrPMBrownsFerry Resource

PUBLICLY AVAILABLE                       NON-PUBLICLY AVAILABLE                       SENSITIVE                       NON-SENSITIVE

ADAMS:  Yes      ACCESSION NUMBER: ML110460455

SUNSI REVIEW COMPLETE

OFFICE	RII:DRS	RII:DRS							
SIGNATURE	RA	RA:HC							
NAME	MCOURSEY	MFRANKE							
DATE	2/14/2011	2/15/2011							
E-MAIL COPY?	YES      NO	YES      NO	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\2011\BROWNS FERRY U2 ISI RFI MSC.DOCX

## INSERVICE INSPECTION DOCUMENT REQUEST

Inspection Dates: March 14 – March 18, 2011

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

Inspectors: Michael S. Coursey, Reactor Inspector (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 preferred), in care of Michael S. Coursey by March 07, 2011, 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 (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.

Enclosure

- c) A list of NDE reports (ultrasonic, radiography, magnetic particle, and dye penetrant) which 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 (Unit 2). 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:
  - ISI contacts (Examination, planning)
  - Containment Exams
  - Pressure Testing
  - BWRVIP
  - Snubbers and Supports
  - Repair and Replacement Program Manager
  - Licensing Contact
  - Site Welding Engineer

**B. Information to be provided on-site to the inspector at the entrance meeting (March 14, 2011):**

**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 on-site inspection, or room number and location where available): applicable editions of the ASME Code (Sections V, IX and XI) for the inservice inspection and repair/replacement programs and BWRVIP documents.

Inspector Contact Information:

Michael S. Coursey  
Reactor Inspector  
404-997-4671  
[michael.coursey@nrc.gov](mailto:michael.coursey@nrc.gov)

Mailing Address:

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Enclosure