



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

January 20, 2017

Mr. David R. Vineyard  
Vice President  
Southern Nuclear Operating Company, Inc.  
Edwin I. Hatch Nuclear Plant  
11028 Hatch Parkway North  
Baxley, GA 31513

**SUBJECT: EDWIN I. HATCH NUCLEAR PLANT UNIT 2 – NOTIFICATION OF INSPECTION  
AND REQUEST FOR INFORMATION**

Dear Mr. Vineyard:

From February 13 – 17, 2017, the U.S. Nuclear Regulatory Commission (NRC) will perform the baseline in-service inspection (ISI) at the Edwin I. Hatch Nuclear Plant, Unit 2, in accordance with NRC inspection procedure (IP) 71111.08, "Inservice Inspection Activities." 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 onsite resources and to ensure a productive inspection, we have enclosed a request for information. Section A of the Enclosure identifies information to be provided prior to the inspection, to ensure adequate sample selection and preparation. Section B of the Enclosure identifies additional information the inspectors will need upon arrival at the site, to complete the review of inspection samples. The inspection staff will appreciate if all the documents requested 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 this inspection activity with your staff, and understand that our regulatory contact for this inspection will be Jimmy Collins 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 inspector, Robert Carrion at 404-997-4522, or [robert.carrion@nrc.gov](mailto:robert.carrion@nrc.gov).

In accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public inspections, exemptions, requests for withholding," 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 Agencywide

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

Sincerely,

*/RA/*

Shakur A. Walker, Chief  
Engineering Branch 3  
Division of Reactor Safety

Docket No. 50-366  
License No. NPF-5

Enclosure:  
Inservice Inspection Document Request

cc: Distribution via Listserv

D. Vineyard

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Sincerely,

**/RA/**

Shakur A. Walker, Chief  
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OFFICE	RII:DRS/EB3	RII:DRS/EB3				
SIGNATURE	<b>RPC1</b>	<b>SAW4</b>				
NAME	R. Carrion	S. Walker				
DATE	1/ 19/2017	1/20/2017				
E-MAIL COPY	YES <b>NO</b>	<b>YES</b> NO				

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## INSERVICE INSPECTION DOCUMENT REQUEST

Site: Edwin I. Hatch Nuclear Plant Unit 2

Docket No.: 50-366

Inspection Dates: February 13 – 17, 2017

Entrance Meeting: February 13, 2017

Inspection Procedure: Inspection Procedure 71111.08, "Inservice Inspection Activities," dated December 22, 2016

Inspector: Robert Carrion, Senior Reactor Inspector

### A. Information Requested for the In-Office Preparation Week

Please provide the information requested in this section to the NRC Region II Office in care of the lead inspector by February 3, 2017, in order to facilitate the selection of specific items that will be reviewed during the onsite inspection week. The information can be provided in hard copy or electronic format; however, electronic format is preferred, either by digital data storage device (compact disk, flash drive, etc.), or Web-based document management system.

The inspector will select specific samples from the information provided for items A.1 and A.2 below, and then request additional documents needed for the onsite inspection week(s), as described in Section B of this Enclosure. The specific documents selected for Section B should be available and ready for review on the first day of inspection. If requested documents are large and only hard copies are available, please inform the inspector, and provide the subject documentation during the first day of the onsite inspection. All documents requested in this section correspond to the unit scheduled to be in a refueling outage during the onsite inspection week, unless an information request item explicitly states that it applies to all operating units. In addition, some of the information requested may not apply to the site, depending on the scope of refueling outage activities or other plant-specific conditions. If there are any questions regarding this information request, please contact the inspector as soon as possible.

#### A.1 Non-destructive Examination and Welding Activities

- a. A detailed schedule (including preliminary dates) of nondestructive examinations (NDEs) planned for the structures, systems, and components (SSCs) listed below as part of the Inservice Inspection (ISI) Program required by the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (BPVC), Section XI, as incorporated by reference in 10 CFR 50.55a, and other augmented ISI activities:
  - ASME Class 1, 2, and 3 components and supports (including Risk-Informed ISI Program)
  - ASME Class MC and metallic liners of Class CC components (e.g., reactor building containment liner)
  - ASME Class CC components

- ASME Class MC supports
  - Reactor coolant system components as part of the Electric Power Research Institute (EPRI) Boiling Water Reactors Vessel and Internals Project (BWRVIP)
  - other components to be inspected through NDE in accordance with industry initiatives or requirements (e.g., Flow Accelerated Corrosion Program)
- b. A detailed schedule (including preliminary dates) of welding activities to be completed on ASME Code Class 1, 2, or 3 components, and supports during the upcoming refueling outage.
- c. A list of NDE reports (ultrasonic, radiographic, magnetic particle, and liquid penetrant) addressing surface or volumetric indications that were analytically evaluated, and accepted for continued service in ASME Code Class 1, 2, and 3 components, since the beginning of the last refueling outage. This should also include any evaluations for continuous service performed as a result of Section XI pressure tests conducted during startup from the last refueling outage.
- d. A list of the welds in ASME 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. Please include a brief description of the welds such as system, material, pipe size, weld number, and NDEs performed. In addition, please indicate which of those welds are risk-significant.
- e. If NDE of pressure retaining welds in the reactor vessel shell required by the ASME BPVC, Section XI, Subsection IWB (also known as “10-year Reactor Vessel ISI”) 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 include reference numbers for applicable procedures that will be used to conduct these examinations.
- f. A copy of ASME BPVC, Section XI Relief Requests and associated NRC Safety Evaluation Reports applicable to the NDEs scheduled for the upcoming refueling outage.
- g. A list of temporary Code or temporary non-Code repairs installed in ASME Class components (e.g., pinhole leaks or mechanical clamping devices).
- h. A copy of the most recent program self-assessments addressing the ISI Program and welding activities.

#### A.2 Other Information Related to ISI Activities

- a. A list with a brief description of ISI-related issues entered into the corrective action program (CAP) for all operating Units since the beginning of the last Unit 2 refueling outage. For example, provide a list of condition reports (CRs) based on database searches using keywords related to piping, vessels, and supports degradation such as: ISI, ASME Code, Section XI, NDE, welding, reactor vessel, reactor coolant system, crack, wear, thinning, leakage, thru-wall, rust, corrosion, BWRVIP, or errors in piping examinations.

- b. Copy of the site's response to recent NRC generic communications, and other industry operating experience notifications, associated with the ISI and structural integrity of ASME Class components issued since the beginning of the last refueling outage (e.g., Generic Letters, Information Notices, etc.).
- c. Names and contact information for the following program leads:
  - ISI Program (examination, planning)
  - Licensing
  - Reactor Containment Building ISI Program
  - Repair and Replacement Program
  - Site Welding
  - Snubbers and Supports Inspection Program

## **B. Information Requested for the Onsite Inspection Week**

Please provide the information requested below in hard copy or electronic (preferred) format to the lead inspector at the entrance meeting, in order to finalize the planning of inspection activities onsite. Prior to the onsite inspection, the inspector will select part of the inspection samples from the information provided in response to Section A of this Enclosure, and then request additional information needed to complete the review. There is a possibility that some of the inspection samples for which direct observation is desired (e.g., planned NDEs) will not be selected until the inspector arrives onsite, and confirms the current schedule of refueling outage activities for that week. All documents requested in this section correspond to the Unit scheduled to be in a refueling outage during the onsite inspection week, unless an information request item explicitly states that it applies to all operating Units. In addition, some of the information requested may not apply depending on the scope of refueling outage activities or other plant-specific conditions.

### **B.1 Non-destructive Examination Activities, Welding Activities, and Schedule Information**

- a. Updated schedules for the planned NDE and welding activities described in the response to items A.1.a and A.1.b of this Enclosure.
- b. For the NDEs selected by the inspector from item A.1.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). 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.
- c. For the NDE reports with relevant indications on ASME Code Class 1, 2, and 3 components selected by the inspector from item A.1.c of this Enclosure, please provide a copy of the examination records, NDE qualification records, and associated corrective action documents, including technical evaluations supporting the acceptability of the indications for continuous service.

- d. For the ASME Code Class 1, 2, and 3 welds selected by the inspector from item A.1.d of this Enclosure, please provide copies of the following documentation for each subject weld:

- weld data sheet (traveler)
- weld configuration and supporting drawings (e.g., ISI isometric drawings)
- applicable ASME BPVC Edition and Addenda
- Weld Procedure Specification (WPS) used to fabricate the welds
- Procedure Qualification Records (PQRs) supporting the WPS
- mechanical test reports supporting the applicable PQRs
- welder performance qualifications records, including documentation that welder maintained proficiency in the applicable welding processes specified in the WPS
- examination records for the NDEs performed during weld fabrication
- preservice NDE records
- personnel qualification records for both fabrication and preservice NDEs
- nonconformance reports for the selected welds (if applicable)

**B.2 Other Information Related To Inservice Inspection Activities**

- a. For the ISI-related corrective action issues selected by the inspector from item A.2.a of this Enclosure, please provide a copy of the corrective action documents and supporting documentation (e.g., cause evaluations, work orders, corrective action plan, etc.).
- b. An updated list of ISI-related issues entered into the CAP for the current refueling outage.
- c. A copy of or ready access to:
- applicable editions and sections of the ASME BPVC (e.g., Sections II, III, V, IX, and XI) for the ISI and repair/replacement activities selected for review
  - EPRI and other industry standards applicable to the ISI activities selected for review (e.g., BWRVIP documents)
  - a current revision of the ISI Program Manual and Plan for the current interval

**Inspector(s) Contact Information:**

Robert Carrion  
Senior Reactor Inspector  
Engineering Branch 3  
Division of Reactor Safety  
404-997-4522

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Attn: Robert Carrion  
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