

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION II SAM NUNN ATLANTA FEDERAL CENTER 61 FORSYTH STREET, SW, SUITE 23T85 ATLANTA, GEORGIA 30303-8931

July 18, 2006

Southern Nuclear Operating Company, Inc. ATTN: Mr. D. E. Grissette, Vice President

P. O. Box 1295

Birmingham, AL 35201-1295

VOGTLE NUCLEAR PLANT, UNIT 1 - NOTIFICATION OF INSPECTION AND SUBJECT:

REQUEST FOR INFORMATION

Dear Mr. Grissette:

From September 25 to October 13, 2006, the NRC will perform the baseline inservice inspection (ISI) at the Vogtle Nuclear Plant, Unit 1 (NRC Inspection Procedure 71111.08 and Temporary Instruction 2515/150, "Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles"). 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 Mukut Sharma 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 Joel Rivera-Ortiz at (404) 562-4825 (jer6@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/ Mark S. Lesser, Chief Engineering Branch 3 **Division of Reactor Safety**

Docket No. 50-424 License No. NPF-68

Enclosure: See next page

SNC 2

Enclosure: INSERVICE INSPECTION DOCUMENT REQUEST

cc w/encl: J. T. Gasser

Executive Vice President

Southern Nuclear Operating Company, Inc.

Electronic Mail Distribution

T. E. Tynan

General Manager, Plant Vogtle

Southern Nuclear Operating Company, Inc.

Electronic Mail Distribution

N. J. Stringfellow

Manager-Licensing

Southern Nuclear Operating Company, Inc.

Electronic Mail Distribution

Bentina C. Terry

Southern Nuclear Operating Company, Inc.

Bin B-022

P. O. Box 1295

Birmingham, AL 35201-1295

Director, Consumers' Utility Counsel

Division

Governor's Office of Consumer Affairs

2 M. L. King, Jr. Drive

Plaza Level East; Suite 356

Atlanta, GA 30334-4600

Office of the County Commissioner

Burke County Commission

Waynesboro, GA 30830

Director, Department of Natural Resources

205 Butler Street, SE, Suite 1252

Atlanta, GA 30334

Manager, Radioactive Materials Program

Department of Natural Resources

Electronic Mail Distribution

Attorney General

Law Department

132 Judicial Building

Atlanta, GA 30334

Laurence Bergen

Oglethorpe Power Corporation

Electronic Mail Distribution

Resident Manager

Oglethorpe Power Corporation

Alvin W. Vogtle Nuclear Plant

Electronic Mail Distribution

Arthur H. Domby, Esq.

Troutman Sanders

Electronic Mail Distributioin

Senior Engineer - Power Supply

Municipal Electric Authority

of Georgia

Electronic Mail Distribution

Reece McAlister

Executive Secretary

Georgia Public Service Commission

244 Washington Street, SW

Atlanta, GA 30334

Southern Nuclear Operating Company, Inc. ATTN: Mr. D. E. Grissette, Vice President

P. O. Box 1295

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Sincerely,
/RA/
Mark S. Lesser, Chief
Engineering Branch 3
Division of Reactor Safety

Docket No. 50-424 License No. NPF-68

Enclosure: See next page

Distribution w/encl:
C. Gratton, NRR/DORL
G McCoy, RII/DRP
MBSHARMA@southernco.com

C. Evans (Part 72 Only) L. Slack, RII EICS RIDSNRRDIPMLIPB

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DATE	7/ 13 /06	7/ 13 /06	7/ 17/06	7/ 18 /06	7/ 14 /06		
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

INSERVICE INSPECTION DOCUMENT REQUEST

Inspection Dates: September 25 - October 13, 2006

Inspection Procedures: IP 7111108 "Inservice Inspection (ISI) Activities"

TI 2515/150 "Reactor Pressure Vessel Head and Vessel Head

Penetration Nozzles"

Inspectors: Joel Rivera-Ortiz, Reactor Inspector (Lead Inspector - ISI)

Rich Chou, Reactor Inspector (Lead Inspector - SG ISI)
Barry Miller, Reactor Inspector (Lead Inspector - TI 2515/150)

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 Joel Rivera-Ortiz by September 11, 2006, 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(s), 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 <u>ISI / Welding Programs and Schedule Information</u>

- 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) Reactor pressure vessel head (RPVH) examinations planned for the upcoming outage.
- iii) Examinations planned for Alloy 82/182/600 components that are not included in the Section XI scope. (If applicable)

- iv) Examinations planned as part of your Boric Acid Corrosion Control Program (Mode 3 walkdowns, bolted connection walkdowns, etc.)
- v) 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.
- c) A list of NDE reports (ultrasonic, radiography, magnetic particle, dye penetrant, visual VT-1, VT-2, and VT-3) which have identified <u>recordable</u> indications (geometric or flaw) on Code Class 1 & 2 systems since the beginning of the last refueling outage. Also, include in the list the NDE reports with recorded indications in the RPVH penetration nozzles which have been accepted for continued service. The list of NDE reports should include a brief description of the SSC where the recordable indication was identified.
- 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 and 2 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.
- 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) Please provide copies of the most recent self assessments for the ISI, Welding, and Alloy 600 Programs.

A.2 Reactor Pressure Vessel Head (RPVH)

- a) Provide the detailed scope of the planned NDE of the reactor vessel head which identifies the types of NDE methods to be used on each specific part of the vessel head to fulfill NRC commitments made in response to NRC Bulletin 2002-02 and NRC Order EA-03-009. Also, include examination scope expansion criteria and planned expansion sample sizes if relevant indications are identified. (If applicable)
- b) A list of the standards and/or requirements that will be used to evaluate indications identified during NDE of the reactor vessel head (e.g. the specific

industry or procedural standards which will be used to evaluate potential leakage and/or flaw indications).

A.3 Boric Acid Corrosion Control Program (BACCP)

- a) Copy of the procedures that govern the scope, equipment and implementation of the inspections required to identify boric acid leakage and the procedures for boric acid leakage/corrosion evaluation.
- b) Please provide a list of leaks (including code class of the components) that have been identified since the last refueling outage and associated corrective action documentation. If during the last cycle, the Unit was shutdown, please provide documentation of containment walk-down inspections performed as part of the BACCP.
- c) Please provide a copy of the most recent self-assessment performed for the BACCP.

A.4 Information related to Steam Generator (SG) inspections

- a) A detailed schedule of:
 - i) SG tube inspection, data analyses, and repair activities for the upcoming outage. (If occurring)
 - ii) SG secondary side inspection activities for the upcoming outage. (If occurring)
- b) Please provide a copy of your SG ISI Inspection Program and Plan. Please include a copy of the Operational Assessment from last outage, and a copy of the following documents as they become available:
 - i) Degradation Assessment
 - ii) Condition Monitoring Assessment
- c) If you are planning on modifying your Technical Specifications such that they are consistent with TSTF-449, please provide copies of your correspondence with the NRC regarding deviations from the STS.
- d) Copy of SG history documentation given to vendors performing eddy current (ET) testing of the SGs during the upcoming outage.
- e) Copy of SG Eddy Current Data Analyst Guidelines, and Site Validated Eddy Current Technique. Additionally, please provide a copy of EPRI Appendix H Eddy Current Technique Qualification Records.

- f) Identify and quantify any SG tube leakage experienced during the previous operating cycle. Also provide documentation identifying which SG was leaking and corrective actions completed or planned for this condition. (If applicable)
- g) Provide past history of the condition and issues pertaining to the secondary side of the steam generators (including items such as loose parts, fouling, top of tube sheet condition, crud removal amounts, etc.)
- h) Please provide copies of your most recent self assessments of the SG monitoring, loose parts monitoring, and secondary side water chemistry control programs.
- i) Please also indicate that where the primary, secondary, and resolution analyses are scheduled to take place.
- j) Please provide a summary of the scope of the SG ISI examinations, including examination methods such as Bobbin or Plus Points, and the percentage of tubes to be examined. *Do not provide these documents separately if already included in other information requested.

A.5 Additional information related to all ISI activities

- a) A list with a brief description of ISI, BACCP, and SG ISI related issues (e.g., condition reports) entered into your corrective action program since the beginning of the last refueling outage (for Units 1 and 2). For example, a list based upon data base searches using key words related to piping or SG tube degradation such as: ISI, ASME Code, Section XI, NDE, cracks, wear, thinning, leakage, rust, corrosion, boric acid or errors in piping/SG tube examinations.
- b) Please provide names and phone numbers for the following program leads:

ISI contacts (Examination, planning)
Containment Exams
RPVH Exams
Snubbers and Supports
Repair and Replacement program manager
Licensing Contact
Site Welding Engineer
Boric Acid Corrosion Control Program
SG Inspection Activities (site lead, and vendor contact)

B. Information to be provided on-site to the inspector at the entrance meeting (September 25, 2006):

B.1 ISI / Welding Programs and Schedule Information

a) Updated schedules for ISI / NDE activities, including SG ISI, planned welding activities, and schedule showing contingency repair plans, if available.

- b) For ASME Class 1 and 2 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 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) 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.

B.2 Reactor Pressure Vessel Head (RPVH)

a) Provide the NDE personnel qualification records for the examiners who will perform examinations of the RPVH.

- b) Provide drawings showing the following: (If a visual examination is planned for the upcoming refueling outage)
 - i) RPVH and CRDM nozzle configurations
 - ii) RPVH insulation configuration

The drawings listed above should include fabrication drawings for the nozzle attachment welds as applicable.

- c) Copy of NDE reports from the last RPVH examination.
- d) Copy of evaluation or calculation demonstrating that the scope of the visual examination of the upper head will meet the 95% minimum coverage required by NRC Order EA-03-009 (If a visual examination is planned for the upcoming refueling outage).
- e) Provide a copy of the procedures that will be used to identify the source of any boric acid deposits identified on the RPVH. If no explicit procedures exist which govern this activity, provide a description of the process to be followed including personnel responsibilities and expectations.
- f) Provide a copy of the updated calculation of effective degradation years (EDY) for the RPVH susceptibility ranking.
- g) Provide copy of the vendor qualification report(s) that demonstrates the detection capability of the NDE equipment used for the RPVH examinations. Also, identify any changes in equipment configurations used for the RPVH examinations which differ from that used for in the vendor qualification report(s).

B.3 Boric Acid Corrosion Control Program (BACCP)

- a) Please provide boric acid walk down inspection results, an updated list of boric acid leaks identified so far this outage, associated corrective action documentation, and overall status of planned boric acid inspections.
- b) Please provide any engineering evaluations completed for boric acid leaks identified since the end of the last refueling outage. Please include a status of corrective actions to repair and/or clean these boric acid leaks. Please specifically which known leaks, if any, have remained in service or will remain in service as active leaks.
- c) In accordance with NRC inspection procedure 71111.08, the inspector(s) would like to conduct an independent boric acid walk down of the Reactor Building early in the inspection week. Please have knowledgeable BACCP staff available to accompany the inspector during the walk down.

B.4 <u>Information related to Steam Generator (SG) inspections</u>

- a) Copy of the Technique Specification Sheets (ETSS), and associated justification for any revisions.
- b) Copy of the guidance to be followed if a loose part or foreign material is identified in the SGs.
- c) Please provide a copy of the ET procedures used to perform the SG ISI (specifically calibration and flaw characterization/sizing procedures, etc.). Also include documentation for the specific equipment to be used.
- d) Please provide copies of your responses to NRC and industry operating experience communications such as Generic Letters, Information Notices, etc.
 (As applicable to SG inspections) *Do not provide these documents separately if already included in other information requested such as the degradation assessment.
- e) List of corrective action documents generated by the vendor and/or site with respect to SG inspection activities.

B.5 Codes and Standards

- a) 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.
 - ii) EPRI and industry standards referenced in the procedures used to perform the SG tube eddy current examination.

<u>Inspectors Contact Information:</u>

Joel Rivera-OrtizRich ChouBarry MillerReactor InspectorReactor InspectorReactor Inspector404-562-4825404-562-4670404-562-4632jer6@nrc.govrcc2@nrc.govbwm1@nrc.gov

Mailing Address
US NRC Region 2
Attn: Joel Rivera-Ortiz
61 Forsyth Street, SW Suite 23T85
Atlanta, GA 30303