



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

January 28, 2014

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

**SUBJECT: BROWNS FERRY NUCLEAR PLANT – NOTIFICATION OF INSPECTION AND
REQUEST FOR INFORMATION**

Dear Mr. Shea:

From February 24 – 28, 2014, the U.S. Nuclear Regulatory Commission (NRC) will perform a baseline Occupational and Public Radiation Safety inspection at the Browns Ferry Nuclear Plant, (NRC Inspection Procedure (IP) 71124.01, Radiological Hazard Assessment and Exposure Controls; IP 71124.08, Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation; and IP 71151 Performance Indicator Verification (Occupational Radiation Safety Cornerstone)). In order to minimize the impact to your onsite resources and to ensure a productive inspection, we have enclosed a request for documents needed for this inspection. 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. The NRC requests that these documents be provided to the inspectors no later than February 18, 2014.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Steve Austin at 256-729-2070. 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 Ruben Hamilton at 404-997-4672 (ruben.hamilton@nrc.gov), or the Plant Support Branch 1 Chief, Brian Bonser at (404) 997-4653.

In accordance with Title 10 of the *Code of Federal Regulations* (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 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).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, under control number 3150-0044, 3150-0014, 3150-0011, and 3150-0008. The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement, unless the requesting document displays a currently valid Office of Management and Budget control number.

Sincerely,

/RA/

Brian Bonser, Chief
Plant Support Branch 1
Division of Reactor Safety

Docket Nos. 50-259, 50-260, and 50-296
License Nos. DPR-33, DPR-52, and DPR-68

Enclosure:
Pre-Inspection Document Request

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Pre-Inspection Document Request

Licensee: Browns Ferry Nuclear Plant

Inspection Dates: February 24 – 28, 2014

Documents Due to Region by: February 18, 2014

Inspection Procedures:

71124.01	Radiological Hazard Assessment and Exposure Controls
71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation
71151	Performance Indicator Verification

Lead Inspector: Ruben Hamilton
Senior Health Physicist
US NRC Region II
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Note: Unless specified otherwise, the current version of these documents is expected. Electronic media is preferred if readily available. (The preferred file format is MSWord, or searchable “.pdf” files on CDROM). *[Note that the inspectors cannot accept data provided on USB or “flash” drives due to NRC IT security policies.]* To the extent possible, please organize the information in the order shown below. Experience has shown that a poorly organized CD leads to a less efficient inspection, and places additional burden on licensee staff. If there are questions regarding the documents requested, please do not hesitate to contact the lead inspector. During the inspection, the inspectors may request additional documents. If the licensee wishes to use an electronic document service, such as CERTRAC or a SharePoint portal, the inspectors will try to accommodate for the documentation requested onsite. The initial documents should not require an internet connection to be reviewed.

We would prefer as much of the information as possible in electronic form. An index to the CD contents is also helpful. For those items requesting a list of documents/areas, the inspectors will select documents/areas from the list for onsite review. If any of the requested information is too burdensome to provide electronically or as hard copies, simply indicate that the requested material is available for onsite review by the inspectors.

If you have any questions, please call Ruben Hamilton at 404-997-4672. Thank you in advance for your efforts in putting this material together.

Enclosure

Assistance Requested During Onsite Inspection

1. Identification of work activities during the inspection for inspector observations, including notification of pre-job briefings.
2. Health physics assistance in plant walkdowns assessing radiological hazards and exposure controls (e.g., verifying the posting and locking of entrances to locked-high radiation areas and very high radiation areas, spent fuel pool controls, and radioactive material storage areas).
3. An onsite discussion with Chemistry and RadCon about the controls implemented to control work and effluent / environmental releases associated with the recent rad waste system failures.
4. Health physics and system engineer assistance in plant walkdowns and discussion of large and/or installed radiation monitors and systems.

General Information Needed

1. Plant Management, Radiation Protection, and Chemistry organizational charts with contact numbers.
2. Electronic copy of the Updated Final Safety Analysis Report (UFSAR) Chapters 11 and 12 (radwaste and radiation protection).
3. Corrective action program procedure.
4. Outage schedule of major activities (Gantt chart if available).
5. Audits and self-assessments performed since the last inspection that encompasses the areas of (1) radiation protection, (2) access controls, and (3) Rad Waste/ Shipping.
6. List of radiation protection procedures, including title and number.

71124.01: Radiological Hazard Assessment and Exposure Controls

1. List of active radiation work permits, including those specific to outage activities, with their administrative limits, electronic dosimeter dose rate limit, and dose limit.
2. Procedures related to HP controls (e.g., Posting, labeling, surveys, RWPs, contamination control, HRA/LHRA/VHRA control, key control, control of divers, special controls during fuel offload, hot spots, etc.).
3. Procedures related to release of personnel and materials (e.g., release surveys, decontamination, guidance for alarm follow-up, etc.).
4. List of Nationally Tracked Sources and any change-of-ownership transactions.
5. Inventory list of all sealed sources stored onsite.
6. List of all non-fuel items stored in spent fuel pool.
7. The HP plan for monitoring and controlling hazards associated with potential fuel leakers during the upcoming outage.
8. Most recent self-assessment or audit covering hazard assessment and exposure controls.
9. List of NCRs related to HP controls (e.g., radworker error, HP technician error, posting issues, HRA/LHRA/VHRA issues, survey problems, etc.) issued since April 12, 2013.
[This should be a list of corrective action documents containing an AR number and brief description, not full NCRs.]

71124.08: Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation

1. Site and corporate procedures associated with radioactive waste processing and handling, storage, and transportation of radioactive material (RAM), including:
 - a. Storage and handling of RAM including non-RCA and satellite RCA locations.
 - b. Waste stream mixing, sampling, concentration averaging, and use of scaling factors.
 - c. Monitoring impact of long-term storage (e.g., buildup of gases produced by waste decomposition, chemical reactions, container deformation, loss of container integrity, re-release of free-flowing water).
 - d. Transferring of resin and/or sludge into shipping/disposal containers; dewatering and waste stabilization.
 - e. Preparing packages and documentation for shipping radioactive materials.
2. List of RAM storage areas, including satellite RCAs.
3. Process Control Program.
4. List of changes to the radioactive waste processing systems since June 22, 2012, and copies of the associated 50.59 screening documentation.
5. Log of radioactive material shipments (LSA I, II, III; SCO I, II, Type A, or Type B) since June 22, 2012. The inspectors will select three to five packages to review in detail.
6. List of NCRs generated since June 22, 2012, related to radioactive solid waste processing and packaging, handling, storage, and shipping of radioactive materials.

71151: Performance Indicator Verification (Occupational Radiation Safety Cornerstone)

1. Procedure for gathering and reporting performance indicator (PI) data.
2. List of all NCRs related to LHRA/VHRA issues or significant (>100 mrem) unintended doses since April 12, 2013. *[This should be a list of corrective action documents containing an AR number and brief description, not full CRs.]*
3. List of electronic dosimeter alarms since April 12, 2013 (dose and dose rate).

Inspector Contact Information

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Mailing Address

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