



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

May 10, 2013

Mr. Joseph W. Shea  
Manager, Corp. Nuclear Licensing Programs  
Tennessee Valley Authority  
1101 Market Street, LP 4B-C  
Chattanooga, TN 37402-2801

**SUBJECT: SEQUOYAH NUCLEAR STATION, NOTIFICATION OF INSPECTION AND  
REQUEST FOR INFORMATION 05000327 AND 05000328**

Dear Mr. Shea:

From June 3 through June 7, 2013, the U.S. Nuclear Regulatory Commission (NRC) will perform the baseline Public Radiation Safety Inspection at the Sequoyah Nuclear Station for NRC Inspection Procedures 71124.06, 71124.07 and 71151. 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. 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 Jon Johnson at 423-843-8129 of your organization, and that the material be available for review by May 24, 2013. If there are any questions about this inspection or the material requested, please contact the lead inspector, Ruben Hamilton at (404) 997-4672.

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 numbers 3150-0011, 3150-0014, and 3150-0135. 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.

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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](http://www.nrc.gov/reading-rm/adams.html) (the Public Electronic Reading Room).

Sincerely,

**/RA/**

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

Docket No: 50-327, 50-328  
License No: DPR-77, DPR-79

Enclosure:  
Pre-Inspection Document Request

cc: (See page 3)

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Sincerely,

*/RA/*

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

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Enclosure:  
Pre-Inspection Document Request

cc: (See page 3)

Distribution:  
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R. Hamilton  
B. Bonser

**\*See previous concurrence**

X PUBLICLY AVAILABLE      ☐ NON-PUBLICLY AVAILABLE      ☐ SENSITIVE      X NON-SENSITIVE  
ADAMS: X Yes      ACCESSION NUMBER: ML13130A345      X SUNSI REVIEW COMPLETE X FORM 665 ATTACHED

OFFICE	RII: DRS/PSB1	RII: DRS/PSB1				
SIGNATURE	/RA by B. K KELLNER for/	/RA/				
NAME	R.HAMILTON	B. BONSER				
DATE	5/10/2013	5/10/2013				
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\DRS\IN\PSB1\INFORMATION REQUEST LETTERS\SEQUOYAH\SEQUOYAH PSB1 RP 2013 003 DOC REQ LTR.DOCX

cc:

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### **Pre-Inspection Document Request**

**Inspection Dates:** June 3-7, 2013

**Inspection Procedures:**

71124.06	Radioactive Gaseous and Liquid Effluent Treatment
71124.07	Radiological Environmental Monitoring Program
71151	Performance Indicator Verification Occupational and Public Radiation Safety Cornerstones]

**Note:** The current version of these documents is expected unless specified otherwise. Electronic media is preferred if readily available (The preferred file format is Word, 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.* Please organize the information as it is arranged below to the extent possible. 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.

Documentation is requested from the date of the last time the effluents and environmental programs were inspected, September 16, 2011, to present. However, information for IP 71151 is requested from December 3, 2012, to present.

We would prefer as much of the information as possible in electronic form. An index to the contents is also helpful. For those items requesting a list of documents/areas, the inspectors will select documents/areas from the list for on-site 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 all your effort in putting together this material.

### **Assistance Requested During On-Site Inspection**

- Assistance in plant walk-downs of the solid and liquid radwaste processing systems.
- Schedule of when REMP run is done to coordinate when we arrive for inspection of that program area.

### **General Information Request**

- Telephone numbers of contacts.
- Radiation Protection organizational chart.
- Electronic copy of applicable chapters of UFSAR (e.g. radiation protection program, liquid and solid radioactive waste program, etc.)

Enclosure

- Corrective Action Program (CAP) procedures.
- Audits and self-assessments performed since September 16, 2011 that encompasses the areas of (1) liquid and solid radwaste processing; and (2) REMP program.
- List of radiation protection procedures. Procedure(s) for identifying, notification, tracking, and correcting PI occurrences.
- 10 CFR 61.55 DAW and other waste stream analysis results

#### **71124.06: Radioactive Gaseous and Liquid Effluent Treatment**

- Provide site and/or corporate procedures associated with implementing the effluents and the groundwater monitoring program. Procedures should include those that address:
  - Effluent sampling
  - Effluent monitor set-point determinations
  - Dose calculations
  - Groundwater monitoring and reporting of spills/leaks
  - Methodology for determining effluent stack/vent flow rates
- ARERRs for CYs 2011, and 2012
- List of all unmonitored spills, leaks, or unexpected liquid/gaseous discharges since September 16, 2011. If applicable, provide the LER, event report, and/or special report.
- List of non-radioactive systems that have become contaminated and any 10 CFR 50.59 evaluations performed (Data since September 16, 2011)
- List of any changes to the effluent release points or effluent treatment systems and associated 50.59 documentation (Data since September 16, 2011)
- Material condition surveillance records for effluent system components not readily accessible, including those inaccessible due to radiological conditions
- Effluent release permits for continuous gaseous, batch gaseous, continuous liquid, and/or batch liquid releases. Only provide permits for last releases within each category.
- Results of inter-laboratory comparison program for count lab for CY 2011, to 2013 YTD.
- The last two surveillance results for ESF ventilation systems (e.g. system flow, HEPA, and charcoal filter tests)
- Groundwater monitoring results since September 16, 2011
- List of changes to written ground water monitoring program for identifying/controlling contaminated spills/leaks since September 16, 2011

- List of onsite surface water bodies (e.g. ponds, retention basins, lakes) that contain or potentially contain radioactivity
- List of CAP PERs/ SRs and audit documents generated since September 16, 2011, related to liquid and gaseous effluent treatment and monitoring, unmonitored spills, leaks, or effluent discharges, or the groundwater monitoring program.

#### **71124.07: Radiological Environmental Monitoring Program**

- Site and corporate procedures associated with radiological environmental monitoring, including:
  - Collection, preparation, and analysis of environmental samples including air samples, TLD stations, ground and surface water, sediment, vegetation, milk, fish, etc.
  - Calibration and maintenance of air/water sampling equipment.
  - Calibration and QC activities for sample counting instruments.
  - Sampling and monitoring program to detect leaks from contaminated or potentially contaminated systems, structures or components.
  - Meteorological instrument calibration, operation, and routine surveillances.
- AREOR CYs 2011, and 2012
- List of structures, systems, or components that contain or could contain licensed material for which there is a credible mechanism for the radioactive material to reach ground water.
- Summary of leaks and/or spills since September 16, 2011, i.e. additions to the 50.75(g) file.
- Calibration and maintenance records for REMP air and composite water samplers since September 16, 2011
- Inter-laboratory comparison program results for the past two years (in-house or vendor laboratory)
- Last two calibration /surveillance/maintenance records for the meteorological monitoring instruments since September 16, 2011.
- List of PERs/SRs and audit documents generated since September 16, 2011, related to environmental monitoring activities.

**IP 71151: Performance Indicator Verification**

- Monthly/Quarterly PI reports since December 3, 2012, and copies of associated Condition Report documents for any Occupational Exposure or RETS/ODCM Radiological Effluent PI events occurrences.
- Liquid and gaseous effluent release permits which specify the quarterly and annual CYs 2011, and 2012, curies released by isotope and associated public dose assessments.
- List of all PER/ SR documents since December 3, 2012, using keywords such as: HRA, LHRA, VHRA, unintended dose, unlocked LHRA door, etc.
- List of all PER/SR documents since December 3, 2012, using keywords abnormal/ unmonitored effluent release, etc.
- List of all electronic dosimeter (ED) dose rate alarms and all ED dose alarms since December 3, 2012.