



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

December 12, 2014

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

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

Dear Mr. Shea:

From January 26 – 30, 2015, the U.S. Nuclear Regulatory Commission (NRC) will perform the baseline Public Radiation Safety Inspection at the Sequoyah Nuclear Station for NRC Inspection Procedures (IPs) 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 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.

We have discussed the schedule for these inspection activities with your staff, and understand that our regulatory contact for this inspection will be Rebecca Travis at 423-843-8335 of your organization, and that the material be available for review by January 12, 2015. 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.

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

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

Docket Nos. 50-327 and 50-328
License Nos. DPR-77 and DPR-79

Enclosure:
Pre-Inspection Document Request

cc: Distribution via Listserv

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PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE

ADAMS: Yes ACCESSION NUMBER: ML14346A512 SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRS/PSB1	RII:DRS/PSB1					
SIGNATURE	ADN for RKH1	BRB1					
NAME	R. Hamilton	B. Bonser					
DATE	12/ 12 /2014	12/ 12 /2014					
E-MAIL COPY	YES NO	YES NO					

OFFICIAL RECORD COPY

Pre-Inspection Document Request

Inspection Dates: January 26 – 30, 2015

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. It is preferable that the initial installment of documents not require Internet access to review them.

Documentation is requested from the date of the last time the effluents and environmental programs were inspected, June 7, 2013, to present. However, information for Inspection Procedure (IP) 71151 is requested from June 6, 2014, 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 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 all your effort in putting together this material.

Assistance Requested During Onsite Inspection

- Assistance in plant walkdowns of the solid and liquid radwaste processing systems.
- Schedule of when Radiological Environmental Monitor Programs (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.

Enclosure

- Electronic copy of applicable Chapters of the Updated Final Safety Analysis Report (UFSAR) (e.g., radiation protection program, liquid and solid radioactive waste program, etc.).
- Corrective Action Program (CAP) procedures.
- Audits and self-assessments performed since June 7, 2013, 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 performance indicator (PI) occurrences.
- 10 CFR 61.55 dry active waste (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.
- Annual Radiological Effluent Release Reports (ARERRs) for CYs 2012 and 2013.
- List of all unmonitored spills, leaks, or unexpected liquid/gaseous discharges since June 7, 2013. If applicable, provide the Licensee Event Report (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 June 7, 2013).
- List of any changes to the effluent release points or effluent treatment systems, and associated 50.59 documentation (Data since June 7, 2013).
- 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 2013 to 2014 YTD.
- The last two surveillance results for engineered safety features (ESF) ventilation systems (e.g., system flow, HEPA, and charcoal filter tests).
- Groundwater monitoring results since June 7, 2013.

- List of changes to written ground water monitoring program for identifying/controlling contaminated spills/leaks since June 7, 2013.
- 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 June 7, 2013, 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, Thermoluminescent Dosimeter (TLD) stations, ground and surface water, sediment, vegetation, milk, fish, etc.
 - Calibration and maintenance of air/water sampling equipment.
 - Calibration and quality control (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.
- Annual Radiological Environmental Operating Reports (AREORs) CYs 2012 and 2013.
- List of structures, systems, or components (SSCs) 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 June 7, 2013, (i.e., additions to the 50.75(g) file).
- Calibration and maintenance records for REMP air and composite water samplers since June 7, 2013.
- Inter-laboratory comparison program results for the past 2 years (in-house or vendor laboratory).
- Last two calibration /surveillance/maintenance records for the meteorological monitoring instruments since June 7, 2013.
- List of PERs/SRs and audit documents generated since June 7, 2013, related to environmental monitoring activities.

71151 Performance Indicator Verification

- Monthly/Quarterly PI reports since June 6, 2014, and copies of associated PER/SR documents for any Occupational Exposure or Radiological Effluent Technical Specifications/Offsite Dose Calculation Manual (RETS/ODCM) radiological effluent PI

events occurrences. List of all PER/ SR documents since June 6, 2014, using keywords such as: high radiation area (HRA), locked high radiation area (LHRA), very high radiation area (VHRA), unintended dose, unlocked LHRA door, etc.

- List of all PER/SR documents since June 6, 2014, using keywords abnormal/ unmonitored effluent release, etc.
- List of all electronic dosimeter (ED) dose rate alarms, and all ED dose alarms since June 6, 2014.

Lead Inspector Contact Information

Ruben Hamilton
404-997-4672
Ruben.Hamilton@nrc.gov

Mailing Address

US Nuclear Regulatory Commission,
Region II
ATTN: Ruben Hamilton
245 Peachtree Center Ave., NE
Suite 1200
Atlanta, GA 30303

LIST OF ACRONYMS

AREORs	Annual Radiological Environmental Operating Reports
ARERRs	Annual Radiological Effluent Release Reports
CAP	Corrective Action Program
DAW	Dry Active Waste
ED	Electronic Dosimeter
ESF	Engineered Safety Feature
HRA	High Radiation Area
IPs	Inspection Procedures
LER	Licensee Event Report
LHRA	Locked High Radiation Area
PIs	Performance Indicators
QC	Quality Control
REMP	Radiological Environmental Monitor Programs
RETS/ODCM	Radiological Effluent Technical Specifications/Offsite Dose Calculation manual
SSCs	Systems, Structures, or Components
TLD	Thermoluminescent Dosimeter
UFSAR	Updated Final Safety Analysis Report
VHRA	Very High Radiation Area