



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

April 2, 2015

Mr. David A. Heacock
President & Chief Nuclear Officer
Virginia Electric and Power Company
Surry Power Station, Units 1 & 2
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060

**SUBJECT: SURRY POWER STATION - NOTIFICATION OF INSPECTION AND
REQUEST FOR INFORMATION 05000280 AND 05000281**

Dear Mr. Heacock:

From May 18 – 22, 2015, the U.S. Nuclear Regulatory Commission (NRC) will perform the baseline public Radiation Safety Inspection at the Surry Power Station, for NRC Inspection Procedures 71124.06, 71124.07, and 71151. 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 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 the requested documents be provided to the inspectors, in CD format, on or before May 1, 2015.

We have discussed the schedule for these inspection activities with your staff, and understand that our regulatory contact for this inspection will be Barry Garber (757-365-2725) of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector, Carmen Dykes at 404-997-4401.

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 3150-0008, 3150-0011, 3150-0014, and 3150-0044. 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 by Ruben Hamilton Acting for/

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

Docket Nos. 50-280 and 50-281
License Nos. DPR-32 and DPR-37

Enclosure:
Pre-Inspection Document List

cc: Distribution via Listserv

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PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE

ADAMS: Yes ACCESSION NUMBER: ML15092A806 SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRS/PSB1	RII:DRS/PSB1					
SIGNATURE	CMD4	RKH1 for BRB1					
NAME	C. Dykes	B. Bonser					
DATE	4/ 2 /2015	4/ 2 /2015					
E-MAIL COPY	YES NO	YES NO					

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**PRE-INSPECTION DOCUMENT LIST
PUBLIC RADIATION PROTECTION INSPECTION**

Public Radiation Safety Cornerstone

Licensee: Surry Power Station
Docket Numbers: 05000280 and 05000281
Inspection Dates: May 18 – 22, 2015

Inspection Procedures to be performed:

71124.06 Radioactive Gaseous and Liquid Effluent Treatment
71124.07 Radiological Environmental Monitoring Program
71151 Performance Indicator Verification (Radiation Safety Cornerstones)

Documentation is requested from June 1, 2013, to present. However, information for Inspection Procedure (IP) 71151 is requested from May 1, 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 Carmen Dykes at 404-997-4401. 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 (RP) organizational chart.
- Electronic copy of applicable chapters of Updated Final Safety Analysis Report (UFSAR) (e.g., RP program, liquid and solid radioactive waste program)
- Corrective Action Program (CAP) procedures.
- Audits and self-assessments performed since June 1, 2013, that encompass the areas of (1) liquid and solid radwaste processing; and (2) REMP program.
- List of RP procedures.
- Procedure(s) for identifying, notification, tracking, and correcting performance indicator (PI) occurrences.
- List of all PIs, and copies of associated corrective action reports for Occupational Exposure Control Effectiveness and Radiological Effluent Technical Specifications/Offsite Dose Calculation Manual (RETS/ODCM) Radiological Effluent Occurrences.
- 10 CFR 61.55 waste streams characterizations, including Dry Active Waste (DAW), resin(s), filters, etc.

Enclosure

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 setpoint 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 2013 and 2014.
- Current ODCM and a list of changes made in the last revision.
- List of all unmonitored spills, leaks, or unexpected liquid/gaseous discharges since May 1, 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 May 1, 2013).
- List of any changes to the effluent release points or effluent treatment systems and associated 10 CFR 50.59 documentation (data since May 1, 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 the most recent release, within each category.
- Results of inter-laboratory comparison program for count lab from May 2013 to May 2015 YTD.
- The results of the last two surveillances (e.g., work order package including system flow, HEPA, and charcoal filter testing) of Engineered Safety Feature (ESF) required ventilation systems (e.g., auxiliary building, containment, and control room ventilation systems).
- Groundwater monitoring results since May 1, 2013.
- List of changes to written groundwater monitoring program for identifying/controlling contaminated spills/leaks since May 1, 2013.
- List of liquid and gaseous effluent monitors listed as out-of-service (OOS) for > 1 day since February 1, 2013, including any special reports submitted to the NRC as a result of effluent monitor operability.
- List of onsite surface water bodies (e.g., ponds, retention basins, lakes) that contain, or potentially contain, radioactivity.
- List of CAP condition reports (CRs) and audit documents generated since May 1, 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

- Provide Site and corporate procedures associated with radiological environmental monitoring, including:

- Collection, preparation, and analysis of environmental samples including air samples, Thermoluminescent Dosimeter (TLD)/Optically Stimulated Luminescence Dosimeter (OSLD) 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 Report (AREORs) CYs 2013 and 2014
 - List of structures, systems, and components (SSCs) that contain, or could contain, licensed material for which there is a credible mechanism for the radioactive material (RAM) to reach groundwater.
 - Summary of leaks and/or spills since May 1, 2013, (i.e., additions to the 10 CFR 50.75(g) file).
 - Calibration and maintenance records for REMP air and composite water samplers since May 1, 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 May 1, 2013.
 - List of CRs and audit documents generated since May 1, 2013, related to environmental monitoring activities.

IP 71151 Performance Indicator Verification

- Monthly/Quarterly Performance Indicator (PI) reports since May 1, 2014, and copies of associated CR Report documents for any Occupational Exposure or RETS/ODCM Radiological Effluent PI events occurrences.
- Liquid and gaseous effluent release permits or quarterly summary data which specify the quarterly and annual curies released by isotope, and associated public dose assessments for CYs 2013 and 2014.
- List of all CRs document since May 1, 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 CRs documents since May 1, 2014, using keywords abnormal/unmonitored effluent release, etc.
- List of all electronic dosimeter (ED) dose rate alarms, and all ED dose alarms since May 1, 2014.

LIST OF ACRONYMS

AREORs	Annual Radiological Environmental Operating Reports
ARERRs	Annual Radiological Effluent Release Reports
CAP	Corrective Action Program
CRs	Condition Reports
DAW	Dry Active Waste
ED	Electronic Dosimeter
ESF	Engineered Safety Feature
HRA	High Radiation Area
IP	Inspection Procedure
LER	Licensee Event Report
LHRA	Locked High Radiation Area
ODCM	Offsite Dose Calculation Manual
OOS	Out-of-Service
OSLD	Optically Stimulated Luminescence Dosimeter
PIs	Performance Indicators
QC	Quality Control
RAM	Radioactive Material
REMP	Radiological Environmental Monitor Programs
RETS/ODCM	Radiological Effluent Technical Specifications/Offsite Dose Calculation Manual
RP	Radiation Protection
SSCs	Systems, Structures, or Components
TLD	Thermoluminescent Dosimeter
UFSAR	Updated Final safety Analysis Report
VHRA	Very High Radiation Area