From:	Kellner, Robert
To:	<u>"Terri S Cuthriell"</u>
Cc:	"Barry Garber"; Bonser, Brian; Loo, Wade
Subject:	November 2017 NRC Radiation Safety Inspection at Surry Power Station
Date:	Friday, October 13, 2017 1:21:00 PM
Attachments:	Surry-2017004 Eff & REMP Document Request.pdf

Terri,

Per our previous emails, and my discussion with Barry Garber, you will be the licensing point of contact for the upcoming NRC Radiation Safety Inspection scheduled for the week of November 27 – December 1, 2017 at Surry Power Station. Attached is the Initial Information Request and a Document Request List.

The NRC inspectors who will that will be on-site during the inspection are, myself and Wade Loo. Both of us should be up to date on our Dominion training.

Please let me know that you received this request, and provide me a direct phone number for me to contact you at in the future, if needed. If there are any questions about this inspection, or the material requested, please contact me via email, or at the phone number or address included below.

Regards,

Bob

## Robert Kellner

Senior Health Physicist USNRC/Region II/DRS/PSB1 Marquis One Tower Suite 1200 245 Peachtree Center Ave, NE Atlanta, GA 30303-1257 (404) 997-4508 Surry Power Station Radiation Safety Baseline Inspection Initial Information Request Inspection Report: 2017004

During the week of November 27 – December 1, 2017, the NRC will perform a baseline Radiation Safety Inspection at Surry Power Station (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 are requesting in advance documents needed for this activity. It is important that all of these documents are up-to-date, and complete, thereby minimizing 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 November 15, 2017.

If there are any questions about this inspection or the material requested, please contact the lead inspector, Robert Kellner at 404-997-4508, 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, "Public inspections, exemptions, requests for withholding," a copy of this document will be available electronically for public inspection in the NRC Public Document Room, or from the Publicly Available Records component of NRC's Agencywide Documents Access and Management System (ADAMS); accessible from the NRC Web site at <u>http://www.nrc.gov/reading-rm/adams.html</u>.

#### PAPERWORK REDUCTION ACT STATEMENT

This document 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, 3150-0044, and 3150-0135.

#### PUBLIC PROTECTION NOTIFICATION

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.

### **Document Request List**

#### Public Radiation Safety Cornerstone

Licensee:		Surry Power Station		
Docket Number:		05000280, 281		
Inspection Dates:		November 27 – December 1, 2017		
Documents Due to Region II by:		November 15, 2017		
Inspection Procedures:	IP 71124.06 IP 71124.07 IP 71151	I		
Lead Inspector:	Robert Kellner Senior Health Physicist USNRC/Region II/DRS/PSB1 Marquis One Tower, Suite 1200 245 Peachtree Center Ave, NE Atlanta, GA 30303-1257 (404) 997-4508 robert.kellner@nrc.gov			

**Note:** The current version of these documents is expected unless specified otherwise. Electronic media is preferred if readily available. [*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. During the inspection, the inspectors may request additional documents. If there are questions regarding the documents requested, or if the documents cannot be provided by the due date, please do not hesitate to contact the lead inspector.

Documentation for these inspection procedures, are requested from <u>May 1, 2015</u> to the present, unless otherwise noted. This reflects the last time these areas were inspected to present, unless otherwise specified. We would prefer as much of the information as possible in electronic form. An index of the CD contents is also helpful. For those items requesting a <u>list</u> of documents/areas, the inspector will select documents/areas from the list for on-site review.

#### **Miscellaneous**

- <u>List</u> of primary site contact(s) for <u>each</u> inspection area including name(s) and telephone numbers.
- <u>List</u> of radiation protection procedures, including title and number
- Results of the most recent 10 CFR Part 61 analytical results and characterization of major radioactive waste streams (e.g. Dry Active Waste (DAW), filters, primary resin, etc.)
- Corrective Action Program procedures
- Collection schedule for Radiological Environmental Monitoring Program (REMP) samples during the week of inspection.

# 71124.06 - Radioactive Gaseous and Liquid Effluent Treatment

(Last Inspected May 2015)

- 1. Site and corporate procedures associated with implementing the effluent monitoring and controls program. Procedures should include those that address:
  - a. Sample collection and analysis
  - b. Radiation monitor alarm and release set-point determinations
  - c. Release permit preparation
  - d. On and off-site dose evaluations and dose calculations
  - e. Calibration and quality control (QC) activities for sample counting instruments.
- Offsite Dose Calculation Manual (ODCM) and a <u>list</u> of changes included in the last revision.
- 3. Methodology/procedure used for determining effluent stack/vent flow rates
- List of liquid and gaseous effluent monitors listed as out-of-service (OOS) for > 1 day since May 1, 2015, including any special reports submitted to the NRC as a result of effluent monitor operability.
- List of all unmonitored spills, leaks, or unexpected liquid/gaseous discharges since May 1, 2015. If applicable, provide the Licensee Event Report (LER), event report, and/or special report.
- 6. <u>List</u> of non-radioactive systems that have become contaminated and any 10 CFR 50.59 evaluations performed, since May 1, 2015.
- 7. <u>List</u> of any changes to the effluent release points or effluent treatment systems, and associated 10 CFR 50.59 documentation since May 1, 2015.
- 8. Material condition surveillance records for liquid and gaseous effluent treatment system components not readily accessible, including those inaccessible due to radiological conditions.
- 9. Effluent release permits for continuous gaseous, batch gaseous, continuous liquid, and/or batch liquid releases. Only provide permits for the latest release within each category.
- 10. Results of on-site counting lab inter-laboratory comparison program since May 1, 2015.
- 11. Results of the last two surveillances/tests of the auxiliary building and control room ventilation systems, including system flow monitoring instrumentation calibration, HEPA filter testing, and charcoal filter tests.
- 12. The last two calibration records for the following effluent monitors:
  - 1-VG-RM-104 Ventilation Vent 1 Gaseous
  - 1-GW-RM-130A & B Process Vent (Particulate/Normal range gaseous)
  - 1-VG-RM-131B Ventilation Vent No. 2 (Normal range gaseous)
  - 1-RRM-RE-131 Liquid waste disposal
  - 2-SV-RM-211 Condenser air ejector
- 13. The last two calibration records for the following Post Accident/high range effluent monitors:
  - 1-GW-RM-130C Process Vent (High range gaseous)
  - 1-VG-RM-131C Ventilation Vent No. 2 (High range gaseous)
  - 2-RM-RMS-227 & 228 Containment high range radiation monitors
- 14. Calibration source certifications for sources used to calibrate the monitors in items 12 and 13 above, including traceability to NIST and to the primary calibration.
- 15. Audit and self-assessment documents generated since May 1, 2015, related to liquid and gaseous effluent treatment and monitoring, unmonitored spills, leaks, or effluent discharges, or the groundwater monitoring program.

16. <u>List</u> of Corrective Action Program (CAP) documents (CRs, NCRs, PIPs, etc.) generated since May 1, 2015, related to liquid and gaseous effluent treatment and monitoring, unmonitored spills, leaks, or effluent discharges, or the groundwater monitoring program. *This should be a list of corrective action documents containing a CR number and brief description, not full CRs.* 

<u>71124.07 - Radiological Environmental Monitoring Program</u> (Last Inspected May 2015)

- 1. Site and corporate procedures associated with radiological environmental monitoring, including:
  - a. Collection, preparation, and analysis of environmental samples including air, Thermoluminescent Dosimeter (TLD) stations, ground and surface water, sediment, vegetation, milk, fish, etc.
  - b. Calibration and maintenance of air and water sampling equipment.
  - c. Land use census
  - d. Calibration and quality control (QC) activities for sample counting instruments.
  - e. Calibration, operation, maintenance, and routine surveillances of meteorological monitoring instruments (wind speed & direction, air temperature, etc.).
- 2. Site and corporate procedures associated with implementing the ground water monitoring program and the voluntary ground water protection initiative. Procedures should include those that address:
  - a. Groundwater monitoring and reporting of spills/leaks
  - b. Buried piping
  - c. Sampling and monitoring program to detect leaks from contaminated, or potentially contaminated, systems, structures, or components (SSCs).
- 3. <u>List</u> of SSCs that contain, or could contain, licensed material for which there is a credible mechanism for the radioactive material (RAM) to reach ground water (e.g. SSC risk ranking matrix).
- 4. Summary of any leaks and/or spills that have occurred since May 1, 2015, (i.e. additions to the 10 CFR 50.75(g) file).
- 5. <u>List</u> of changes to the REMP (sample locations, sample frequency, type of samples, etc.) since May 1, 2015.
- 6. Calibration and maintenance records for REMP air and composite water samplers since May 1, 2015.
- 7. Inter-laboratory comparison program results since May 1, 2015 (in-house and vendor laboratory).
- 8. Last two calibration/surveillance/maintenance records for the meteorological monitoring instruments (wind speed, wind direction, and air temperature).
- 9. Data recovery report for meteorological monitoring instruments since May 1, 2015.
- 10. Groundwater monitoring results since May 1, 2015.
- 11. Results of environmental TLD monitoring since May 1, 2015.
- 12. <u>List</u> of changes to the written groundwater monitoring program for identifying/controlling contaminated spills/leaks since May 1, 2015.
- 13. <u>List</u> of onsite surface water bodies (e.g., ponds, retention basins, lakes) that contain or potentially contain radioactivity.
- 14. Audit and self-assessment documents generated since May 1, 2015, related to REMP. The data should include any reviews conducted of vendor activities and their facilities (e.g., environmental lab).
- 15. <u>List</u> of CAP documents (CRs, NCRs, PIPs, etc.) generated since May 1, 2015, related to REMP. The data should include any reviews conducted of vendor activities and their

facilities (e.g., environmental lab, out of service air sampler, missing environmental TLD, etc.). *This should be a list of corrective action documents containing a CR number and brief description, not full CRs.* 

71151 – Performance Indicator Verification

(Last inspected November 2016)

- 1. Procedures for gathering and reporting NRC Performance Indicator (PI) data, including any applicable "desktop guides".
- Monthly/Quarterly Performance Indicator (PI) reports and copies of associated CAP documents, for Occupational Exposure Control Effectiveness and Radiological Effluent Technical Specifications/ Offsite Dose Calculation Manual (RETS/ODCM) Radiological Effluent Occurrences since November 1, 2016.
- Most recent gaseous effluent release permits and liquid effluent release permits, which specify the quarterly and annual curies released by isotope, and the associated public dose assessment.
- 4. <u>List</u> of all electronic dosimeter (ED) dose rate alarms and all ED dose alarms since November 1, 2016.
- 5. <u>List</u> of all CAP documents (CRs, NCRs, PIPs, etc.) since November 1, 2016 using keywords such as high radiation area (HRA), locked high radiation area (LHRA), very high radiation area (VHRA), unintended dose, unlocked LHRA door, etc.
- 6. Audit and self-assessment documents generated since November 1, 2016, related to Performance Indicators.
- 7. <u>List</u> of CAP documents (CRs, NCRs, PIPs, etc.) since November 1, 2016, using keywords such as abnormal, unmonitored, unplanned effluent release, etc. *This should be a list of corrective action documents containing a CR number and brief description, not full CRs.*

# Assistance Requested During On-Site Inspection

• Notification of any routine or special effluent sampling activities to be completed during the inspection.

Atlanta, GA 30303

- Ride along on the weekly REMP sample run.
- Health physics assistance coordinating walkdowns of the meteorological tower, ventilation systems, and waste processing systems.

Inspector Contact Information:	Mailing Address:
Robert Kellner Sr. Health Physicist (404) 997-4508 <u>robert.kellner@nrc.gov</u>	U.S. Nuclear Regulatory Commission US NRC Region II ATTN: Mr. Robert Kellner 245 Peachtree Center Ave., N.E Suite 1200