Kellner, Bob

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Thursday, May 30, 2019 6:33 AM
Bob Page (robert.page@dominionenergy.com)
Bonser, Brian (Brian.Bonser@nrc.gov)
Upcoming North Anna NRC Radiation Safety Inspection - August 2019
NAPS 2019003 RP Inspection Doc Request.pdf

Bob,

I expect little has changed organizationally since I was onsite in March, and that you will be my licensing point of contact for the NRC Rad Safety Inspection at North Anna scheduled for the week of August 4 - 9, 2019. If you are no longer the licensing point of contact, please let me know. Assuming you are still the POC, attached is the Initial Information Request and a Document Request List.

The NRC Health Physics inspectors that will be on-site during the inspection are myself, William (Bill) Pursley, and Jose Diaz. I am relatively sure that Bill and my Dominion site access training is up date, but Jose has not been onsite in many years. However, all of us should on the current 'good guy' letter.

Please let me know that you received this request. If there are any questions about this inspection, or the material requested, please contact me via email, by phone, or at the address included below.

Regards,

Bob

Robert Kellner

Senior Health Physicist USNRC/Region II/DRS/EB3 Marquis One Tower Suite 1200 245 Peachtree Center Ave, NE Atlanta, GA 30303-1257 (404) 997-4508 Robert.Kellner@nrc.gov North Anna Power Station Radiation Safety Baseline Inspection Initial Information Request Inspection Report: 2019003

During the week of August 5-9, 2019, the NRC will perform a baseline Radiation Safety Inspection at North Anna Power Station (NRC Inspection Procedures 71124.06, 71124.07, 71124.08, 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 July 8, 2019.

If there are any questions about this inspection or the material requested, please contact the lead inspector, Robert Kellner (<u>Robert.Kellner@nrc.gov</u>) at 404-997-4508, or the Engineering Branch 3 Chief, Brian Bonser (<u>Brian.Bonser@nrc.gov</u>) 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 http://www.nrc.gov/reading-rm/adams.html

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:	North Anna Power Station
Docket Number:	05000338/339
Inspection Dates:	August 5 - 9, 2019
Documents Due to Region II by:	July 8, 2019
Inspection Procedures:	 IP 71124.06 Radioactive Gaseous and Liquid Effluent Treatment IP 71124.07 Radiological Environmental Monitoring Program IP 71124.08 Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation IP 71151 Performance Indicator Verification
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>July 1, 2017</u> to the present, unless otherwise noted. This reflects the last time these areas were inspected. 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 of documents/areas</u>, the inspector will select documents/areas from the list for on-site review.

Miscellaneous

- 1. Telephone numbers of primary site contact(s) for each inspection area including name(s) and telephone numbers.
- 2. Plant Chemistry, and Radiation Protection organizational charts, including personnel involved in effluent sampling and reporting, Radiological Environmental Monitoring Program (REMP) sampling and reporting.
- 3. Corrective Action Program procedures
- 4. Schedule of routine effluent and REMP sampling activities during the week of inspection (e.g., stacks sampled on Monday, REMP run Tuesday).

71124.06 - Radioactive Gaseous and Liquid Effluent Treatment

(Last Inspected August 2017)

- 1. Site and corporate procedures associated with implementing the effluent monitoring and controls program. Procedures should include those that address:
 - Sample collection and analysis
 - Radiation monitor alarm and release set-point determinations
 - Release permit preparation
 - On and off-site dose evaluations and dose calculations
 - Calibration and quality control (QC) activities for sample counting instruments
 - Countroom High Purity Germanium Detector calibration and QC checks
- 2. Offsite Dose Calculation Manual (ODCM) and a <u>list of changes included in the last revision</u>.
- 3. <u>List of permitted effluent release points, including release points from on-site surface water</u> bodies (as applicable)
- 4. Methodology/procedure used for determining effluent stack/vent flow rates.
- List of liquid and gaseous effluent monitors listed as out-of-service (OOS) for > 24 hours since <u>July 1, 2017</u>, 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 <u>July 1,</u> <u>2017</u>. If applicable, provide the Licensee Event Report (LER), event report, and/or special report.
- 7. <u>List of non-radioactive systems that have become contaminated and any 10 CFR 50.59</u> evaluations performed, since <u>July 1, 2017</u>.
- 8. <u>List of any changes to the effluent release points or effluent treatment systems, and associated 10 CFR 50.59 documentation, since July 1, 2017</u>.
- 9. Material condition surveillance records for liquid and gaseous effluent treatment system components not readily accessible, including those inaccessible due to radiological conditions (e.g. in-service & spent resin tanks, waste evaporator systems, waste gas hold-up tanks, etc.).
- 10. Effluent release permits for continuous gaseous, batch gaseous, continuous liquid, and/or batch liquid releases indicating the current and year to date off-site dose. <u>Only</u> provide permits for the latest release within each category.
- 11. Results of on-site counting lab inter-laboratory comparison program since July 1, 2017.
- 12. Results of the last two surveillances/tests of the Auxiliary Building and Containment Building ventilation exhaust systems, including system flow monitoring instrumentation calibration, HEPA filter testing, and charcoal filter tests.
- 13. System health reports for radiological effluent/process monitoring systems since July 1, 2017.
- 14. The last two calibration records for the following effluent monitors:
 - Process vent Particulate and Gas Radiation Monitor (1-GW-RM-178-1)
 - Unit 1 Containment Particulate and Gas Radiation Monitor (1-RM-RMS-159/160)
 - Liquid Waste Disposal Radiation Monitors (1-LW-RM-110,111)
- 15. The last two calibration records for the following Post Accident/high range effluent monitors:
 - High Range Noble Gas Effluent Monitors (Process Vent (1-GW-RM-178-2)
 - Ventilation Vent A (1-VG-RM-179-2)
 - Ventilation Vent B (1-VG-RM-180-2))
- 16. Calibration source certifications for sources used to calibrate the monitors in items 14 and 15 above, including traceability to NIST to the primary calibration.
- 17. Audit and self-assessment documents generated since <u>July 1, 2017</u>, related to liquid and gaseous effluent treatment and monitoring, unmonitored spills, leaks, or effluent

discharges, or the groundwater monitoring program.

18. <u>List of Corrective Action Program (CAP) documents (CRs, NCRs, PIPs, etc.) generated</u> since <u>July 1, 2017</u>, 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.*

71124.07 - Radiological Environmental Monitoring Program (Last Inspected July 2017)

- 1. Site and corporate procedures associated with radiological environmental monitoring, including:
 - Collection, preparation, and analysis of environmental samples including air, Thermoluminescent Dosimeter (TLD) stations, ground and surface water, sediment, vegetation, milk, fish, etc.
 - Calibration and maintenance of air and water sampling equipment.
 - Land use census
 - Calibration and quality control (QC) activities for sample counting instruments.
 - 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:
 - Groundwater monitoring and reporting of spills/leaks
 - Buried piping
 - Sampling and monitoring program to detect leaks from contaminated, or potentially contaminated, systems, structures, or components (SSCs).
- 3. <u>List of SSCs that contain, or could contain, licensed material for which there is a credible</u> 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 <u>July 1, 2017</u>, (i.e. additions to the 10 CFR 50.75(g) file).
- 5. <u>List of changes to the REMP (sample locations, sample frequency, type of samples, etc.)</u> since <u>July 1, 2017</u>.
- 6. Calibration and maintenance records for REMP air and composite water samplers since July 1, 2017.
- 7. Inter-laboratory comparison program results since <u>July 1, 2017</u> (in-house and vendor laboratory).
- 8. Most recent 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 July 1,2017.
- 10. Groundwater monitoring results since July 1, 2017.
- 11. Results of environmental TLD monitoring since July 1, 2017.
- 12. <u>List of changes to the written groundwater monitoring program for identifying/controlling</u> contaminated spills/leaks since <u>July 1, 2017</u>.
- 13. <u>List of onsite surface water bodies (e.g., ponds, retention basins, lakes) that contain or potentially contain radioactivity.</u>
- 14. Audit and self-assessment documents generated since <u>July 1, 2017</u>, related to REMP. The data should include any reviews conducted of vendor activities and their facilities (e.g., environmental lab).
- 15. List of CAP documents (CRs, NCRs, PIPs, etc.) generated since July 1, 2017, 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.*

<u>71124.08 - Radioactive Solid Waste Processing and Radioactive Material Handling, Storage,</u> <u>and Transportation</u> (Last Inspected September 2017)

- 1. Provide Procedures/Guidance Documents describing licensee compliance with 10 CFR Parts 20, 61, and 71, and 49 CFR Parts 170-189. Procedures/manuals should include:
 - Solid and liquid radwaste processing procedures.
 - Procedure(s) for transferring radioactive waste resin and sludge discharges into shipping/disposal containers.
 - Waste stream mixing and/or sampling procedures, including: (1) waste concentration averaging; (2) use of scaling factors and calculations used to account for difficult-to-measure radionuclides; and (3) ensuring waste stream composition data accounts for changing operational parameters.
 - Shipping/transportation procedures.
 - Cask loading and closure procedures (licensee and vendor) applicable to last three cask transports.
 - List of radioactive material (RAM) storage areas, including satellite radiological controlled areas (RCAs).
 - Monitoring impact of long-term storage (e.g., buildup of gases produced by waste decomposition, chemical reactions, container deformation).
 - Process Control Program (PCP).
- 2. Provide a <u>list</u> of radioactive material (RAM) storage areas, including satellite radiological controlled areas (RCAs)
- 3. Provide liquid and solid radwaste system diagrams and detailed system descriptions (e.g., information that might be contained in curricula for training new system engineers)
- 4. Provide the most recent radio-chemical sample analysis results (i.e., "10 CFR Part 61" analysis) for <u>each</u> of the sites characterized radioactive waste streams (e.g., dry active waste (DAW), ion exchange resins, mechanical filters, sludges, and activated materials).
- 5. <u>List</u> and documentation of any changes made to the radioactive waste processing systems (liquid and solid) and/or the Process Control Program (PCP) since the August 1, 2017, and associated 10 CFR 50.59 documentation, as appropriate.
- 6. Provide a <u>list</u> or log of RAM shipments (LSA I, II, IIII; SCO I, II, Type A, or Type B) since August 1, 2017. (The inspectors will select three to five packages to review in detail.)
- 7. Copies of applicable transport cask Certificates of Compliance for the last three transport cask shipments.
- 8. <u>List</u> of CAP documents (CRs, NCRs, PIPs, etc.) involving radioactive waste and RAM processing and/or transportation (e.g., keyword searches for RAM, shipping, radwaste, 10 Part 61, etc.) generated since August 1, 2017. *This should be a list of corrective action documents containing a (CR, NCR, etc.) number and brief description, not full documents.*
- 9. Available for <u>onsite</u> review during the inspection:
 - Site drawing(s) showing the location of all stored RAM and all stored radioactive waste.
 - Plant drawings sufficient to permit the inspector to walkdown the liquid and solid radioactive waste processing systems, to verify current system configuration/ operation agree with the descriptions contained in the Updated Final Safety Analysis Report and in the PCP.
 - Documentation describing the status of any radioactive waste process equipment that is

not operational and/or is abandoned in place.

- Information concerning the site's waste disposal volume and waste reduction program.
- Training and qualification records for personnel responsible for radioactive waste.
- Training curriculum and primary lesson plans for qualifying persons, including vendors, for radwaste processing, packaging, and making shipments of RAM and radioactive waste as specified by 49 CFR Part 172.

<u>71151 – Performance Indicator Verification</u> (Public Cornerstone Only) (Last inspected September 2017)

- 1. Procedures for gathering and reporting NRC Performance Indicator (PI) data, including any Radiation Protection specific guidance and 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 <u>August 1, 2017</u>.
- 3. 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. Audits and self-assessment documents generated since <u>August 1, 2017</u>, related to Performance Indicators.
- 5. <u>List of CAP documents (CRs, NCRs, PIPs, etc.) since August 1, 2017</u>, 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, or radioactive material shipments/receipts to be completed during the inspection week.
- Coordination with the REMP sampling technician so that an NRC inspector can go along on the weekly sample run.
- Review and discuss 2018 Land Use Census.
- Engineering and/or Health Physics walkdown of the meteorological tower, ventilation systems, and waste processing systems.
- Licensing and Health Physics assistance coordinating plant walk-downs, discussions with appropriate individuals, and observation of sampling activities.

Inspector Contact Information:

Mailing Address:

Robert Kellner Sr. Health Physicist (404) 997-4508 robert.kellner@nrc.gov U.S. Nuclear Regulatory Commission US NRC Region II ATTN: Mr. Robert Kellner 245 Peachtree Center Ave., N.E Suite 1200 Atlanta, GA 30303