

From: [Nielsen, Adam](#)
To: [Fox, Daniel K](#)
Cc: [Diaz, Jose](#); [Pursley, William](#)
Subject: Document request for upcoming RP inspection at Watts Bar
Date: Thursday, September 23, 2021 11:11:00 AM
Attachments: [WB 2021-04 RP doc request.pdf](#)

Our document request is attached. Please distribute it to the appropriate site people.

We would like the documents available to us by October 25th if possible. Please don't hesitate to call/email me if you have any questions.

Thanks,
Adam Nielsen
Sr. Health Physicist
US NRC Region II
(404) 997-4660

Watts Bar Nuclear Plant
Radiation Safety Baseline Inspection
Initial Information Request
Inspection Report: 2021004

During the weeks of November 1 – 5, and November 15 – 19, 2021, the NRC will perform a baseline Radiation Safety Inspection at the Watts Bar Nuclear Plant (NRC Inspection Procedures 71124.01, 71124.02, 71124.03, 71124.04, 71124.05, 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 October 25, 2021.

If there are any questions about this inspection or the material requested, please contact the lead inspector, Adam Nielsen at 404-997-4660, or the Engineering Branch 3 Chief, Binoy Desai at 404-997-4519.

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

Inspection Dates: November 1 – 5, and November 15 – 19, 2021

Documents Due to Region II: October 25, 2021

Inspection Procedures:

IP 71124.01	Radiological Hazard Assessment and Exposure Controls
IP 71124.02	Occupational ALARA Planning and Controls
IP 71124.03	In-plant Airborne Radioactivity Control and Mitigation
IP 71124.04	Occupational Dose Assessment
IP 71124.05	Radiation Monitoring Instrumentation
IP 71151	Performance Indicator Verification (Occupational and Public Cornerstones)

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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. Pay particular attention to the date ranges for the items requested as they may change from item to item. 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.

Miscellaneous

1. List of primary contacts for each inspection area w/phone numbers
2. Corrective action program procedure(s)
3. Timeline of major outage activities (e.g. Gantt chart or similar list)
4. Offsite Dose Calculation Manual (ODCM)

71124.01 - Radiological Hazard Assessment and Exposure Controls

1. Procedures related to RP controls (e.g. Posting, labeling, surveys, RWPs, contamination control, HRA/LHRA/VHRA control, key control, control of divers, special controls during fuel offload, hot spots, ISFSI Controls, etc.)
2. Procedures related to release of personnel and materials (e.g. release surveys, decontamination, guidance for alarm followup, etc.)
3. List of outage RWPs
4. List of all non-fuel items stored in spent fuel pool
5. Most recent self-assessment or audit covering RP controls
6. List of CRs related to RP controls (e.g. radworker error, RP technician error, posting issues, HRA/LHRA/VHRA issues, survey problems, etc.) issued since November 7, 2020.

71124.02 - Occupational ALARA Planning and Controls

1. All procedures related to ALARA (e.g. temporary shielding, ALARA planning, source term reduction, etc.)

2. ALARA planning packages for the top 5 dose jobs for the upcoming refueling outage (including dose estimates, work hour estimates, special RP controls, and dose reduction initiatives)
3. ALARA trending point data for last two outages (last two for both units)
4. Source term reduction strategic plan, if available
5. Minutes from the last 4 Plant ALARA Committee Meetings
6. Most recent self-assessment or audit of ALARA program.
7. List of CRs related to ALARA since May 11, 2019.

71124.03 - In-Plant Airborne Radioactivity Control and Mitigation

1. Procedures related to airborne monitoring and control (e.g. use of purge systems, use of portable HEPA/charcoal units, temporary ventilation enclosures, use of CAMs, air sampling guidance, Alpha air sampling, etc.), as applicable
2. Procedures related to the use of respiratory protection devices, (e.g. SCBA, TEDE-ALARA guidance, PAPRs, storage, maintenance, training, QA, fit-testing, etc.)
3. The last 2 grade D air testing certificates for each supplied air system and SCBA filling station
4. SCBA qualification records
 - a) List of all licensed operators qualified to use SCBA
 - b) List of all RP personnel qualified to use SCBA
5. Documentation for last 2 surveillances performed on SCBA stored for emergency use
6. Most recent audit or self-assessment covering airborne controls and respiratory protection
7. List of CRs related to airborne monitoring and respiratory protection since May 11, 2019.

71124.04 – Occupational Dose Assessment

1. Procedures related to occupational dose assessment (e.g. dosimetry issuance and use, unusual dosimetry occurrences, multi-badging/extremity dosimetry/badge relocation, Effective Dose Equivalent, personnel contamination events, storage/care of personal dosimeters, *in-vivo* and *in-vitro* internal dose assessment, skin dose assessment, QC for whole body counter, use of passive monitoring if applicable, declared pregnant workers)
2. Current NVLAP accreditation documentation for dosimetry used by site
3. List of all positive whole body counts, in vitro, or air sampling analyses which resulted in a CEDE equal to or exceeding 10 millirem since May 11, 2019.
4. List of all Level III personnel contamination events identified since May 11, 2019.
5. Most recent neutron source term characterization
6. Most recent alpha source term characterization
7. Area TLD results for general plant areas (not REMP TLDs), going back two years.
8. Copies of current WBC libraries (e.g. routine, medical, investigative, etc.)
9. Most recent audit or self-assessment of the dosimetry program and/or the most recent audit of the lab that processes site dosimetry
10. List of CRs generated since May 11, 2019, for internal or external dosimetry issues/events.

71124.05 - Radiation Monitoring Instrumentation

1. Site procedures for:
 - a) calibration and functional test/source checks of portable radiation detection instruments
 - b) calibration and functional tests of small article monitor, personnel contamination monitor, portal monitor, whole body counting equipment, and continuous air monitors
 - c) collection and analysis of high-range, post-accident effluent samples
 - d) QA program for count room instruments

2. The last 2 calibration records for each of the following instruments:
 - a) Unit 1 Upper Containment High Range Radiation Monitor (1-RE-90-271)
 - b) Unit 1 Lower Containment High Range Radiation Monitor (1-RE-90-273)
 - c) Main Control Room Area Radiation Monitor (0-RE-90-135)
 - d) Liquid Radwaste Discharge Effluent Monitor (0-RE-90-122)
 - e) Unit 1 Shield Building Vent Radiation Monitor (1-RE-90-400)
3. Radioactive source paperwork for the sources used to calibrate the instruments in item 2 above.
4. The last two calibrations of the Unit 2 Shield Building flow monitoring instrumentation
5. Most recent surveillance (in-place filter testing & charcoal testing) performed on the Aux Building Gas Treatment System (ABGTS)
6. Chart or procedure listing EALs associated with radiation monitors
7. The last 2 calibration records for each of the following instruments:
 - a) All Portal Monitors located at RCA exit
 - b) All Small Article Monitors located at RCA exit
 - c) All Whole body contamination monitors (ARGOS or equivalent) at RCA exit
 - d) Whole Body Counter in dosimetry
8. Most recent test record of the instrument calibrator (Shepherd validation testing/dose rate curves)
9. Interlaboratory comparison results for the onsite count room, going back two years.
10. Most recent audit or self-assessment covering RP instruments (portables, RCA exit point, WBC, count room). Include any reviews conducted of vendor facilities, as applicable.
11. LIST of CRs generated since May 11, 2019 related to portable instruments, area monitors, effluent monitors, CAMs, RCA release point monitors, WBCs, and count room instruments.

71151 – Performance Indicator Verification (Occupational and Public Cornerstones)

1. Procedures for gathering and reporting NRC Performance Indicator (PI) data, including any applicable “desktop guides”.
2. List of electronic dosimeter alarms since November 7, 2020 (dose and dose rate)
3. List of CRs generated since August 15, 2020, as a result of gaseous and liquid effluent processing and/or ODCM related activities.
4. Documents showing year-to-date doses to the public for the gaseous and liquid pathways.