

Jose Diaz

From: Jose Diaz
Sent: Thursday, January 26, 2023 1:16 PM
To: Sherrill, Thomas M (Thomas.Sherrill3@duke-energy.com)
Cc: Jonathan Rivera (He/Him/His)
Subject: Document Request Letter for Brunswick Upcoming RP Inspection April 3 - 7, 2023
Attachments: Brunswick 2023002 RP Inspection - Document Request Letter.pdf

Tom,

As indicated in the voice mail I recorded for you today, here is (attached) the Document Request Letter for Brunswick upcoming RP inspection (April 3 - 7, 2023).

Feel free to contact me if there is any question.

Respectfully,

José

José M. Díaz Vélez, Sr. Health Physicist

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Engineering Branch 3

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U. S. Nuclear Regulatory Commission

Region II Office

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Brunswick Steam Electric Plant
Radiation Safety Baseline Inspection
Initial Information Request
Inspection Report: 2023002

During the week of April 3-7, 2023, the U.S. Nuclear Regulatory Commission (NRC) will perform a baseline Radiation Safety Inspection at the Brunswick Steam Electric Plant (NRC Inspection Procedures 71124.04, 71124.05, and 71151).

To minimize the impact to your onsite resources during the inspection and ensure the inspectors have the necessary information to complete the inspection while on site, we have enclosed a request for documents needed for this activity. The NRC requests that these documents be provided to the inspectors no later than March 20, 2023.

If there are any questions about this inspection or the material requested, please contact the lead inspector, José M. Díaz-Vélez at 404-997-4736, 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/readingrm/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
Occupational and Public Radiation Safety Cornerstones

Licensee: Brunswick Power Station Units 1 and 2
Brunswick Licensing Contact: Thomas Sherrill (910) 832-2703
thomas.sherrill3@duke-energy.com
Docket Number: 05000324 and 05000325
Inspection Dates: April 3 - 7, 2023
Documents Due to Region II by: March 20, 2023

NRC Inspection Procedures (IPs):

71124.04 - Occupational Dose Assessment
71124.05 - Radiation Monitoring Instrumentation
71151 - Performance Indicator Verification

Note: Please provide the current version of these documents in an electronic format if possible (The preferred file format is MSWord, or searchable “.pdf” files). To the extent possible, please organize the information in directories as requested below and if possible, use a descriptive name for the files provided. Recent experience has demonstrated the most efficient method to transfer this information to the NRC is via Certrec. If there are questions regarding the documents requested, or method of transfer, please do not hesitate to contact the lead inspector.

Documentation for inspection procedures 71124.04, and 71124.5 should be from April 1, 2021, to present. Documentation for inspection procedures 71151 should be from February 1, 2022 to present. These dates are approximate to the last time these inspections were conducted. Also, provide only a listing and title for NCRs requested for each inspection procedure and inspectors will select a sample from these for in-depth review during the inspection.

If you have any questions, please call José M. Díaz-Vélez at 404-997-4736. Thank you in advance for your effort in putting together this material.

71124.04 - Occupational Dose Assessment
(Last Inspected on April 1, 2021)

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. Documentation of NVLAP dosimetry accreditation(s) active since April 1, 2021 and the current dosimetry used by the 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 April 1, 2021. [Note: only a listing should be provided for use by the inspectors to select a sample of issues for review during the onsite inspection]
4. List of all facial contamination and Level III personnel contamination events identified since April 1, 2021. [Note: only a listing should be provided for use by the inspectors to select a sample of issues for review during the onsite inspection.]

5. Most recent neutron characterization.
6. Most recent alpha characterization
7. Last 18 months of area TLD results for general plant areas (not REMP TLDs)
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 November 2019 for internal or external dosimetry issues/events. This should be a list of corrective action documents containing a CR number and brief description, not full CRs.

71124.05 - Radiation Monitoring Instrumentation

(Last Inspected on April 1, 2021)

1. Radiation Protection and Maintenance procedures/guidance documents, as applicable, for the following:
 - 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, counting room equipment, electronic alarming dosimeters, whole body counting equipment, and continuous air monitors
 - c) Collection and analysis of high-range, post-accident effluent samples
 - d) Determination of set-points for area radiation monitor, CAM, PCM, PM, and SAM equipment used for area and personnel monitoring equipment
 - e) QA program (inter-laboratory comparison program) for count room instruments
2. The last 2 calibration records for each of the following instruments:
 - a) Unit 1 Main Steam Lines Monitors
 - b) Main Control Room Radiation Monitor
 - c) Main Stack Radiation Monitoring System (All ranges low (normal) and mid/high (accident) ranges)
 - d) High Range Drywell Area Radiation Monitors
 - e) Liquid Waste Discharge Radiation Monitor
3. Documentation showing traceability to NIST and/or the primary calibration for the radioactive sources used to calibrate the instruments in item in item 2 above.
4. Chart or procedure listing EALs associated with radiation monitors
5. Emergency plan documents identifying which radiation monitors are used to determine emergency action levels (EALs).
6. Provide a current list of in service (available for use) SAMs, PCMs, PMs, air samplers, continuous air monitors (CAMs), portable radiation detection instruments, counting room (RP and Chemistry), and Whole-Body Counters. [Note: The list will be used to select monitors for evaluation during the onsite inspection.]
7. Most recent test record of the instrument calibrator (e.g. Calibrator validation testing/dose rate curves if instruments are calibrated in-house).
8. Design documents and/or calculations showing how the alarm setpoints for the following instruments are determined:
 - a) PCMs and PMs at the RCA and Protected Area exit points CAMs
9. Results of the Inter-Laboratory Comparison Program from April 1, 2021 to year-to-date.
10. Most recent Radiation Monitoring System engineering performance review/evaluation or system health report, if applicable.
11. 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.
12. List of CAP documents (CR, NRC, AR, etc.) related to portable instruments, area monitors, CAMs, RCA release point monitors, WBCs, and count room instruments generated since

April 1, 2021. This should be a list of corrective action documents containing a CAP document number and a brief description, not complete documents.

71151 – Performance Indicator Verification (Occupational Radiation Safety Cornerstone Only)
(Last Inspected on February 1, 2022)

1. Procedure(s) for gathering and reporting PI data
2. LIST of all CRs related to LHRA/VHRA issues or significant (>100 mrem) unintended doses since February 2022. This should be a list of corrective action documents containing a CR number and brief description, not full CRs.
3. LIST of electronic dosimeter alarms since February 2022 (dose and dose rate).

General and Miscellaneous Information

1. List of primary site contact(s) for each inspection area including name(s), e-mail and telephone numbers.
2. Corrective Action Program procedures.
3. Plant Management, Radiation Protection and Chemistry organizational charts w/ contact numbers.

Inspector Contact Information:

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