

**ENVIRONMENTAL PROTECTION INSPECTION  
RADIATION PROTECTION  
TRANSPORTATION  
DOCUMENT REQUEST**

**SITE:** BWXT NOG

**INSPECTION REPORT NUMBER:** 2019-004

**PRE-INSPECTION VISIT:** July 16-17, 2019

**INSPECTION DATES:** July 22 - 26, 2019

**NRC INSPECTORS:** Lead Richard Gibson, [Richard.Gibson@nrc.gov](mailto:Richard.Gibson@nrc.gov)  
Gregory Goff, [Gregory.Goff@nrc.gov](mailto:Gregory.Goff@nrc.gov)  
Paul Startz, [Paul.Startz@nrc.gov](mailto:Paul.Startz@nrc.gov)

**ACCOMPANYING PERSONNEL:**

None.

**IDENTIFIED LICENSEE CONTACTS:**

Unit Manager, Licensing and Safety Analysis: Chris Terry, [cterry@bwxt.com](mailto:cterry@bwxt.com)  
Licensing and Safety Engineer: Stephen Subosits, [sgsubosits@bwxt.com](mailto:sgsubosits@bwxt.com)  
Licensing and Safety Engineer: Robert Johnson, [rjohnson2@bwxt.com](mailto:rjohnson2@bwxt.com)

**ASSOCIATED PROCEDURES:**

88030 – Radiation Protection  
86740 – Transportation  
88045 – Environmental Protection

**Note:** This is a broad list of the documents the NRC inspectors will be interested in obtaining and reviewing prior to the on-site inspection visit. The current version of these documents is expected unless specified otherwise. The lead inspector can answer questions regarding questions on specific information needs with licensee staff and may request additional documents.

**DOCUMENTATION REQUESTED**

**1. Information Requested for In-Office Preparation**

Site preparation visit scheduled for July 23<sup>rd</sup> to 24<sup>th</sup>

Radiation Protection Appendix B (88030): G. Goff

- a. Organization chart for program areas to be inspected along with names and contact information of key licensee personnel needed during the onsite inspection. Please note any personnel changes within the last 12 months.
- b. Simple list of condition reports for the last 12 months (or since the last inspection).
- c. Copy of independent audits, self-assessments, or QA surveillance performed since the last inspection pertaining to the specific inspection module(s).
  - i. Associated procedure for conducting audits (if applicable)
- d. ALARA Program including program results, future planning, and ALARA Committee or plant safety committee meeting records/minutes.
  - i. ALARA Program (for compliance with 10 CFR 20.1101(b).
  - ii. Samples of original support documentation, and conformation of plant management review.
- e. Procedures related to the Respiratory Protection Program (for compliance with 10 CFR 20.1703).
- f. Procedures related to the Radiological posting and access controls for airborne areas.
- g. Procedures related to the Airborne Radioactivity Monitoring (for compliance with 10 CFR 20.1701 and 1702).
- h. Dose Limits and Administrative Control Levels (workers, minors, public, and declared pregnant workers).
- i. Dosimetry program for compliance with 10 CFR 20.1502(a) and 10 CFR 20.1501(c).
- j. Personnel TLD Monitoring Program.
- k. Radiological Dose Reports.
- l. Records for dose results for workers, minors, and the public (TEDE, LDE, and SDE) as per 10 CFR 20.1201, 1207, 2104, and 10 CFR 20.2103(b)(3).
- m. Records for internal dose results as per 10 CFR 20.1204 and 10 CFR 20.1502(b).
- n. Records for bioassay program (for compliance with 10 CFR 20.2103(b)(3).
- o. Records of any significant radiological events within the last 12 months.
- p. Simple list of training and qualification/OJT requirements for personnel performing RP related activities. Provide about two samples of the most recent training exams for RADCON personnel.
- q. Simple list of all corrective action items related to RP for the previous 12 months.
- r. Radiation Safety Committee meeting minutes for the previous 12 months.

## **2. Information to be provided onsite at the Entrance Meeting (July 22, 2019)**

### **Environmental (88045) – R. Gibson**

- a. Organization chart for program areas to be inspected along with names and contact information of key licensee personnel needed during the onsite inspection
- b. List of condition reports for last 12 months (or since the last inspection) pertaining to the specific inspection module(s)
- c. Copy of independent audits, self-assessments, or QA surveillances performed since the last inspection pertaining to the specific inspection module(s)
- d. Procedures relating to calibration and set point verification for liquid and gaseous effluent monitors
- e. Last two semiannual effluent reports

- f. Sampling of calibration records for analytical equipment used for analysis of samples that provide data input to effluent releases
- g. Sampling of data sheets relating to daily functional checks/control charts for analytical equipment
- h. Most recent calibration package for stack monitor(s) and/or liquid effluent monitors as applicable
- i. Maintenance history for effluent monitoring equipment
- j. Details/summary of effluent or environmental sample results that exceeded administrative limits and/or control values
- k. Provide your procedure regarding criteria for changes to your Environmental report

### **3. Information to be provided onsite at the Entrance Meeting (July 22, 2019)**

#### **Radiation Protection (88030): G. Goff**

- a. Air Sampling (for compliance with 20.1902(d))
  - i. Adequacy of fixed air samplers,
  - ii. Records for air sampling (for compliance with 10 CFR 20.2103(b).
- b. Ventilation program, as applicable
  - i. Facility ventilation hoods, hoses, work spaces, evaluation of adequate air flow,
  - ii. Laboratory processes requiring ventilation hoods, evaluation of adequate air flow.
- c. Respirator Fit Testing.
- d. During the inspection, request opportunities to observe any scheduled maintenance activities involving RP job coverage.
- e. Personnel to assist the NRC inspector(s) during an initial walk-through inspection of the facility, focusing on radiological equipment, radiological areas in the laboratories, new radiological areas decontamination areas.
- f. Provide about 4 each of the most recent examples of training/qualifications records for rad techs and qualifications records for the instructors.
- g. NVLAP accreditation/processing of primary dosimeters.
- h. During the inspection, please provide about 2 examples of respirator fit tests/medical certifications, for operations and RP personnel.
- i. During the inspection, request opportunities to observe any scheduled maintenance activities involving RP job coverage.

### **4. Information to be provided onsite at the Entrance Meeting (July 22, 2019)**

#### **Transportation (86740): P. Startz**

- a. Organization chart for the transportation department
- b. Listing the type(s) of package(s) used by the licensee
- c. Inspection, operation, and maintenance implementing procedures applicable to the preparation and packaging for the type(s) of package(s)
- d. Registration for the type(s) of package(s)
- e. Safety Evaluation Report(s) for the type(s) of package(s)
- f. Drawings for the packages the licensee uses
- g. Manifests and records for last "shipments and the type of package used for each shipment
- h. Training records for individuals responsible for RAM shipping and transportation
- i. List of condition reports for last 12 months (or since last inspection) pertaining to RAM shipment and transportation activities

- j. Any independent audits or assessments of the RAM transportation program (most recent report or QA surveillance)
- k. Inspection checklist for the last outgoing RAM shipments include contents of the package, to include weight, isotope, and physical form.
- l. Radiological survey records for the packages for the last shipments as well as the survey records for the delivery vehicle
- m. Receipt inspections/surveys for the packages for the last shipments and the delivery vehicle
- n. Ask if there are any 71.95 reports in progress or planned for the near future (the next 90 days)?

***This letter contains mandatory information collections that are subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). The Office of Management and Budget (OMB) approved these information collections (approval number 3150-0009). Send comments regarding this information collection to the Information Services Branch, Office of the Chief Information Officer, Mail Stop: O-1F13, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [Infocollects.Resource@nrc.gov](mailto:Infocollects.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0009) Office of Management and Budget, Washington, DC 20503.***