

From: [Kellner, Robert](#)
To: [Collins, Carl James](#)
Cc: [Pursley, William](#); [Bonser, Brian](#)
Subject: Hatch RP Inspection Document Request - May 2018
Date: Tuesday, March 27, 2018 7:03:00 AM
Attachments: [Hatch 2018002 Eff & REMP Information and Document Request.pdf](#)

Jimmy,

Unless there has been a change since we were on-site in February, I presume you will be the licensing point of contact for the upcoming NRC Radiation Safety Inspection scheduled for the week of May 21 - 25, 2018 at the Hatch Nuclear Plant. Attached is the Initial Information Request and a Document Request List.

The NRC inspectors who will be on-site during the inspection are myself, and William Pursley. Both of us should still be up to date on our Southern Company site access training.

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 number, or at the address included below.

Regards,

Bob

Robert Kellner

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Hatch Nuclear Plant
Radiation Safety Baseline Inspection
Initial Information Request
Inspection Report: 2018002

During the week of May 21 - 25, 2018, the NRC will perform a baseline Radiation Safety Inspection at Hatch Nuclear Plant (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 May 11, 2018.

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 <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

Occupational and Public Radiation Safety Cornerstone

Licensee: Hatch Nuclear Plant

Docket Number: 50-321 and 50-366

Inspection Dates: **May 21 - 25, 2018**

Documents Due to Region II by: **May 11, 2018**

Inspection Procedures: IP 71124.06 Radioactive Gaseous and Liquid Effluent Treatment
 IP 71124.07 Radiological Environmental Monitoring Program
 IP 71151 Performance Indicator Verification

Lead Inspector: Robert Kellner
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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. 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 June 1, 2016 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 list of documents/areas, 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).
5. 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.)

71124.06 - Radioactive Gaseous and Liquid Effluent Treatment
(Last Inspected June 2016)

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
 - f. Countroom High Purity Germanium Detector calibration and QC checks
2. Offsite Dose Calculation Manual (ODCM) and a list of changes included in the last revision.
3. List of permitted effluent release points, including release points from on-site surface water bodies (as applicable)
4. Methodology/procedure used for determining effluent stack/vent flow rates
5. List of liquid and gaseous effluent monitors listed as out-of-service (OOS) for > 24 hours since June 1, 2016, including any special reports submitted to the NRC as a result of effluent monitor operability.
6. List of all unmonitored spills, leaks, or unexpected liquid/gaseous discharges since June 1, 2016. If applicable, provide the Licensee Event Report (LER), event report, and/or special report.
7. List of non-radioactive systems that have become contaminated and any 10 CFR 50.59 evaluations performed, since June 1, 2016.
8. List of any changes to the effluent release points or effluent treatment systems, and associated 10 CFR 50.59 documentation, since June 1, 2016.
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. Only provide permits for the latest release within each category.
11. Results of on-site counting lab inter-laboratory comparison program since June 1, 2016.
12. 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.
13. System health reports for radiological effluent/process monitoring systems since June 1, 2016.
14. The last two calibration records for the following effluent monitors:
 - Reactor Building Vent Stack (Normal range particulate and gaseous)
 - Main Stack (Off-Gas Vent Pipe) Radiation Monitor (Normal range)
 - Liquid radwaste effluent radiation monitor
 - Standby gas treatment system (SGTS) radiation monitors (Unit 2)
15. The last two calibration records for the following Post Accident/high range effluent monitors:
 - Reactor Building Vent Stack (Accident range particulate and gaseous)
 - Main Stack (Off-Gas Vent Pipe) Radiation Monitor (Accident range)
 - Primary Containment Post-Accident radiation monitors (Unit 1 and Unit 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 June 1, 2016, related to liquid and gaseous effluent treatment and monitoring, unmonitored spills, leaks, or effluent discharges, or the groundwater monitoring program.
18. List of Corrective Action Program (CAP) documents (CRs, NCRs, PIPs, etc.) generated since June 1, 2016, 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 June 2016)

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. List 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 June 1, 2016, (i.e. additions to the 10 CFR 50.75(g) file).
5. List of changes to the REMP (sample locations, sample frequency, type of samples, etc.) since June 1, 2016.
6. Calibration and maintenance records for REMP air and composite water samplers since June 1, 2016.
7. Inter-laboratory comparison program results since June 1, 2016 (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 June 1, 2016.
10. Groundwater monitoring results since June 1, 2016.
11. Results of environmental TLD monitoring since June 1, 2016.
12. List of changes to the written groundwater monitoring program for identifying/controlling contaminated spills/leaks since June 1, 2016.
13. List 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 June 1, 2016, 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 June 1, 2016, 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 March 2017)

1. Procedures for gathering and reporting NRC Performance Indicator (PI) data, including any applicable “desktop guides”.
2. 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 March 1, 2017.
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. List of all electronic dosimeter (ED) dose rate alarms and all ED dose alarms since March 1, 2017.
5. List of all CAP documents (CRs, NCRs, PIPs, etc.) since March 1, 2017 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 March 1, 2017, related to Performance Indicators.
7. List of CAP documents (CRs, NCRs, PIPs, etc.) since March 1, 2017, 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 week.
- Accompany sampling technician on the weekly REMP sample run.
- Licensing or Health Physics assistance coordinating walkdowns of the meteorological tower, ventilation systems, and waste processing systems.

Inspector Contact Information:

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