



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

November 6, 2013

Mr. Dennis R. Madison  
Vice President  
Southern Nuclear Operating Company, Inc.  
Edwin I. Hatch Nuclear Plant  
11028 Hatch Parkway North  
Baxley, GA 31513

**SUBJECT: HATCH NUCLEAR PLANT – NOTIFICATION OF INSPECTION AND REQUEST  
FOR INFORMATION**

Dear Mr. Madison:

During the weeks of January 13 to January 17, 2014 and February 10 to February 14, 2014, the U.S. Nuclear Regulatory Commission (NRC) will perform a baseline Occupational and Public Radiation Safety inspection at the Hatch Nuclear Plant, (NRC Inspection Procedures 71124.01, 71124.06, 71124.07, 71124.08, and Radiation Safety sections of 71151). In order to minimize the impact to your onsite resources and to ensure a productive inspection, we have enclosed a request for documents needed for this inspection. It is important that all of these documents are up to date and complete in order to minimize 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 December 20, 2013.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Mr. Steve Tipps of your organization. Our inspection dates are subject to change based on your schedule of outage activities. If there are any questions about this inspection or the material requested, please contact the lead inspector Ruben Hamilton at 404-997-4672 ([ruben.hamilton@nrc.gov](mailto:ruben.hamilton@nrc.gov)).

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter, and its Enclosure, will be available electronically for public inspection in the NRC Public Document Room, or from the Publicly Available Records (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS), which is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

This letter 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

3150-0044, 3150-0014, 3150-0011, and 3150-0008. 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.

Sincerely,

*/RA/*

Brian Bonser, Chief  
Plant Support Branch 1  
Division of Reactor Safety

Docket Nos. 50-321 and 50-366  
License Nos. DPR-57 and NPF-5

Enclosure:  
Pre-Inspection Document Request

cc: Distribution via Listserv

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DISTRIBUTION:

C. Evans, RII, EICS  
L. Douglas, RII, EICS  
RIDSNRRDIRS  
PUBLIC  
RidsNrrPMHatch Resource

PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE       NON-SENSITIVE

ADAMS:  Yes    ACCESSION NUMBER: ML13310A676     SUNSI REVIEW COMPLETE  FORM 665 ATTACHED

OFFICE	RII:DRS/PSB1	RII:DRS/PSB1					
SIGNATURE	RKH1 via e-mail	BRB1					
NAME	R. Hamilton	B. Bonser					
DATE	11/ 4 /2013	11/ 6 /2013					
E-MAIL COPY	<b>YES</b> NO	<b>YES</b> NO					

## Pre-Inspection Document Request

Occupational and Public Radiation Safety Cornerstones

Licensee: Hatch Nuclear Plant  
Docket Numbers: 50-321 and 50-366

Inspection Dates: January 6 – 10, 2014 and February 10 – 14, 2014

Procedure:

Week of January 6-10, 2014:

71124.06 Radioactive Gaseous and Liquid Effluent Treatment  
71124.07 Radiological Environmental Monitoring Program  
71151 Performance Indicator Verification (Public Cornerstone)

Week of February 10-14, 2014:

71124.01 Radiological Hazard Assessment and Exposure Controls  
71124.08 Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation  
71151 Performance Indicator Verification (Occupational Cornerstone)

Note: The current version of these documents is expected unless otherwise specified. Electronic media is preferred if readily available (The preferred file format is Word, WordPerfect, or searchable “.pdf” files on CDROM). 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. Experience has shown that a well organized CD leads to a more efficient inspection and lessens additional burden on licensee staff. During the inspection, the inspectors may request additional documents. If the licensee wishes to use an electronic document service such as CERTRAC, or a Shareware portal, the inspectors will try to accommodate for the documentation requested onsite. The initial documents should not require an internet connection to be reviewed.

Documents requested are referenced to last inspection date for that particular module.

If you have any questions, please call Ruben Hamilton at 404-997-4672. Thank you in advance for your efforts in putting together this material.

### **General Information Needed**

- Contact Phone Numbers for:
  - Radiation Protection contacts
  - Chemistry contacts
- Procedure for issuing Nuclear Condition Reports (CR) and assessing issues for risk significance and follow-up actions.

Enclosure

- Updated Final Safety Analysis Report Chapters 11 Effluents/Radwaste, and Chapter 12 Radiation Protection.
- Current version/revision of the Offsite Dose Calculation Manual (ODCM).
- Annual Radiological Environmental Operating Report (AREOR) for Calendar Year (CY) 2011, and CY 2012.
- Annual Radiological Effluent Release Report (ARERR) documents for CY 2011 and CY 2012.
- Current Part 61 Analysis Results for Dry Active Waste (DAW).
- Plant Management, Radiation Protection, and Chemistry organizational charts with contact numbers.
- Corrective action program procedure.
- Outage schedule of major activities (Gantt chart if available).
- Audits and self-assessments performed since the last inspection that encompasses the areas of (1) radiation protection, (2) access controls, (3) radiological effluents, (4) radiological environmental monitoring to include meteorological tower, (5) solid radioactive waste processing, and (6) shipping and transportation of radioactive material.

#### **71124.01 - Radiological Hazard Assessment and Exposure Controls**

(Last Inspected 3/01/13)

- List of outage RWPs.
- Plant maps of all Locked HRAs and VHRA. Include areas with the potential to become a LHRA during routine operations or outages.
- Procedures related to HP 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, etc.).
- List of the 10 most exposure significant work areas within radiation areas, high radiation areas (<1R/hr), or airborne radioactivity areas in the plant. This may include areas with low dose rates but high collective dose. Identify any high radiation areas with significant dose gradients (factor of five or more), including underwater diving activities.
- Procedures related to release of personnel and materials (e.g., release surveys, decontamination, guidance for alarm follow up, etc.).
- List of Nationally Tracked Sources and any change-of-ownership transactions.
- List of all non-fuel items stored in spent fuel pool.
- All self-assessments or audits covering HP controls since March 1, 2013, (if none, then provide the most recent) LIST of CRs related to HP controls where the cause was listed as human performance (radworker error) or human performance (HP technician error) issued since March 1, 2013. This should be a list of corrective action documents containing a CR number and brief description, not full CRs.
- All CRs related to Nationally Tracked Sources since March 1, 2013.

#### **71124.06 - Radioactive Gaseous and Liquid Effluent Treatment**

(Last Inspected 7/20/12)

- Provide Procedures/Guidance Documents for:
  - collection, analysis, release and dose evaluations for gaseous and/or liquid effluents  
Include guidance for both batch and continuous modes
  - determination of set-points for main plant gaseous and liquid effluent discharge pathways

- Provide a list of any significant changes to the ODCM since July 20, 2012.
- Provide a list of significant changes to the radioactive effluent processing systems since July 20, 2012.
- Provide a list of any non-radioactive systems that have become contaminated since July 20, 2012.
- Provide a list of any abnormal gaseous or liquid releases identified since July 20, 2012.
- Provide last two gaseous effluent permits and last two liquid effluent permits.
- Provide a list of 10 CFR 50.75(g) entries made since July 20, 2012.
- Provide system health reports for radiological effluent/process monitoring systems since July 20, 2012.
- Provide a list of the main liquid and gaseous effluent pathway process monitors listed as out-of-service (OOS) since July 20, 2012. *[Note do not include monitors listed as OOS for less than 24 hours.]*
- List of significant changes to the effluent monitoring program since July 20, 2012, as documented within the ODCM.
- Provide groundwater monitoring results since July 20, 2012.
- Inter-laboratory comparison program results (onsite count room) since July 20, 2012.
- Last 2 surveillance test results for Aux Building Ventilation and both upper and lower Containment Purge Ventilation systems on Unit 1. If advanced source term has not been adopted include last set of charcoal surveillances.
- Copies of all audits, self-assessments, and/or reviews of liquid and gaseous effluent monitoring program activities since July 20, 2012. The data should include any reviews conducted of vendor activities and their facilities.
- List of Nuclear Condition Report documents (SR and CR) generated since July 20, 2012, as a result of gaseous and liquid effluent processing and/or release activities including Engineered Safety Feature ventilation systems. *[Note: Only titles/summary statement should be provided for use by the inspectors to select a sample of issues for in-depth review.]*

#### **71124.07 - Radiological Environmental Monitoring Program (REMP)**

(Last Inspected 7/20/12)

##### Prior to the Onsite Inspection

- Provide Procedures/Guidance Documents for:
  - collection and analysis of environmental samples
  - calibration and maintenance of REMP air and/or water samplers
  - calibration of meteorological monitoring instrument loop (wind speed & direction, air temperature sensors currently in use)
  - monthly/quarterly meteorological instrumentation surveillance requirements (control room and local tower activities)
- Records since July 20, 2012, for:
  - calibrations of REMP air and water sampling equipment (as applicable)
  - meteorological monitoring instrument calibrations (wind speed & direction, air temperature)
  - detailed inter-laboratory comparison program results (environmental lab)
- Copies of all audits, self-assessments, and/or reviews of REMP activities. The data should include any reviews conducted of vendor activities and their facilities.

- List of systems, structures, or components (SSCs), identified as credible mechanism(s) having the potential for release of licensed material to the groundwater environs.
- List of significant REMP changes documented within the ODCM since July 20, 2012.
- List of Nuclear Condition Reports (SR and CR) generated as a result of REMP activities since July 20, 2012. [Note: Only titles/summary statement should be provided for use by the inspectors to select a sample of issues for in-depth review.]

#### **71124.08 - Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation**

(Last Inspected 7/20/12)

- Site and corporate procedures associated with radioactive waste processing and handling, storage, and transportation of radioactive material (RAM), including:
  - Storage and handling of RAM including non-RCA and satellite RCA locations
  - Waste stream mixing, sampling, concentration averaging, and use of scaling factors
  - Monitoring impact of long-term storage (e.g., build up of gases produced by waste decomposition, chemical reactions, container deformation, loss of container integrity, re-release of free-flowing water)
  - Transferring of resin and/or sludge into shipping/disposal containers; dewatering and waste stabilization
  - Preparing packages and documentation for shipping radioactive materials
  - List of RAM storage areas, including satellite RCAs
  - Process Control Program
- List of characterized waste streams. (resins, filters, etc.)
- List of changes to the radioactive waste processing systems since July 20, 2012, and copies of the associated 50.59 screening documentation.
- Log of radioactive material shipments (LSA I, II, III; SCO I, II, Type A, or Type B) since July 20, 2012. (The inspectors will select 3-5 packages to review in detail.)
- List of condition reports (SR and CR) generated since July 20, 2012, related to radioactive solid waste processing and packaging, handling, storage, and shipping of radioactive materials.

#### **71151 - Performance Indicator Verification**

(Last Inspected 3/1/13)

- Monthly PI reports since March 1, 2013, and copies of associated condition reports for any RETS/ODCM Radiological Effluent occurrences.
- Liquid and gaseous effluent release permits, which specify the monthly, quarterly, and annual curies, released by isotope and associated public dose assessments since March 1, 2013.