



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

July 2, 2012

Mr. Thomas D. Gatlin
Vice President - Nuclear Operations
South Carolina Electric & Gas Company
Virgil C. Summer Nuclear Station
P.O. Box 88
Jenkinsville, SC 29065

**SUBJECT: NOTIFICATION OF INSPECTION AND REQUEST FOR INFORMATION - V.C.
SUMMER NUCLEAR STATION**

Dear Mr. Gatlin:

During the period of August 27-31, 2012, the NRC will conduct a baseline radiation safety inspection at the V.C. Summer Nuclear Station. The inspection will evaluate activities in the Public Radiation Safety cornerstones using NRC Inspection Procedures (IP) 71124.06, 71124.07, 71124.08, 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 on-site resources and to ensure a productive inspection, we have enclosed a request for 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 inspector has requested that the subject informational material be provided in CD format on or before August 8, 2012.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Susan Reese of your organization. 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 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 document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm.html> (the Public Electronic Reading Room).

T. Gatlin

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Sincerely,

/RA/

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

Docket No.: 50-395
License No.: NPF-12

Enclosure
Pre-Inspection Document Request

cc w/encl.: (See page 3)

T. Gatlin

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cc w/encl.: (See page 3)

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SIGNATURE	RA/RK	RA/BB			
NAME	R. KELLNER	B. BONSER			
DATE	07/02/2012	07/02/2012			
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO

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cc w/encl:

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**Pre-Inspection Document Request
Public Radiation Safety Cornerstone**

Licensee: V.C. Summer Nuclear Station

Docket Number(s): 05000395

Inspection Dates: August 27 - 31, 2012

Procedures:

- 71124.06 - Radioactive Gaseous and Liquid Effluent Treatment
- 71124.07 - Radiological Environmental Monitoring Program (REMP)
- 71124.08 - Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation
- 71151 - Performance Indicator Verification

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. Electronic media is preferred, if readily available. (The preferred file format is Word or searchable "pdf" files on CDROM. Please provide three copies of each electronic media device submitted.) Information in the "document lists" should contain enough information to be easily understood by someone who has knowledge of the subject. The lead inspector can answer questions regarding questions on specific information needs with licensee staff and may request additional documents.

Documentation is requested from August 26, 2010, to the present, unless otherwise noted, for the inspection procedures. We would prefer as much of the information as possible in electronic form. An index to 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.

If you have any questions, please call Robert Kellner at (404) 997-4508. Thank you in advance for all of your effort in putting together this material.

General Information Needed

- Telephone numbers of contacts for the identified inspection areas.
- Plant, Chemistry, and Radiation Protection organizational charts, including personnel involved in effluent sampling and reporting, REMF sampling and reporting, and solid radwaste processing and transportation of radwaste/radioactive materials.
- List of radiation protection procedures.
- List of effluent sampling and reporting procedures.
- List of REMF sampling and reporting procedures.
- Current Part 61 Analysis Results for Dry Active Waste (DAW).
- Procedures for issuing and assessing issues for risk significance and follow-up actions (i.e. Corrective Action Program procedures).
- Procedure(s) for identifying, notification, tracking, and correcting PI occurrences.
- Updated Final Safety Analysis Report Chapter 9, Auxiliary Systems, Chapter 11, Radioactive Waste Management, and Chapter 12, Radiation Protection.

Enclosure

- Current version/revision of the Offsite Dose Calculation Manual (ODCM). Annual Radiological Environmental Operating Report (AREOR) for Calendar Year (CY) 2010, and CY 2011.
- Annual Radiological Effluent Release Report (ARERR) documents for CY 2010, and CY 2011.
- List of all Performance Indicators (PIs) and copies of associated corrective action reports for Occupational Exposure Control Effectiveness and RETS/ODCM Radiological Effluent Occurrences.
- Audits and self-assessments performed since August 26, 2010, that encompass the areas of (1) effluent monitoring program and implementation; (2) REMP monitoring program and implementation; (3) liquid and solid radwaste processing; and (4) transportation of radioactive material/radwaste.

71124.06 - Radioactive Gaseous and Liquid Effluent Treatment

- Provide Procedures/Guidance Documents for:
 - collection, analysis, release and dose evaluations for gaseous and/or liquid effluents including guidance for both batch and continuous modes.
 - determination of set-points for main plant gaseous and liquid effluent discharge pathways.
 - groundwater monitoring program.
- Provide a list of any significant changes to the ODCM since August 26, 2010.
- Provide a list of significant changes to the radioactive effluent processing systems since August 26, 2010.
- Provide a list of any non-radioactive systems that have become contaminated since January 1, 2010.
- Provide a list of any unmonitored, unplanned, or otherwise abnormal gaseous or liquid releases identified since August 26, 2010.
- Provide last two gaseous effluent permits and last two liquid effluent permits.
- Provide a list of 10 CFR 50.75(g) entries made since August 26, 2010.
- Provide system health reports for radiological effluent/process monitoring systems since August 26, 2010.
- Provide a list of the main liquid and gaseous effluent pathway process monitors listed as out-of-service (OOS) since August 26, 2010. [*Note do not include monitors listed as OOS for less than 24 hours*]
- List of significant changes to the effluent monitoring program since August 26, 2010, as documented within the ODCM.
- Provide groundwater monitoring results since August 26, 2010.
- Inter-laboratory comparison program results (onsite count room) since August 26, 2010.
- Results of last 2 filtration system (HEPA/Charcoal) surveillances for gaseous effluent pathways.
- Copies of all audits, self-assessments, and/or reviews of liquid and gaseous effluent monitoring program activities since August 26, 2010. The data should include any reviews conducted of vendor activities and their facilities.
- List of CRs generated since August 2010, because of gaseous and liquid effluent processing and/or ODCM related activities. This should be a list of corrective action documents containing a CR number and brief description, not full CRs. [*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)

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 for the last 2 calibrations of the following:
 - REMP air and water sampling equipment (as applicable).
 - meteorological monitoring instruments (wind speed & direction, air temperature).
- Detailed inter-laboratory comparison program results (environmental lab) since August 2010.
- 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 (e.g. environmental lab).
- 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 (sample locations, sample frequency, type of samples, etc.) documented within the ODCM since August 2010.
- List of Condition Reports (CRs) generated as a result of REMP activities since August 26, 2010. [*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

- Provide Procedures/Guidance Documents describing licensee compliance with 10 CFR Parts 20, 61, and 71, and 49 CFR Parts 170-189. Procedures/manuals should include:
 - Solid and liquid radwaste processing procedures.
 - Procedure(s) for transferring radioactive waste resin and sludge discharges into shipping/disposal containers.
 - Waste stream mixing and/or sampling procedures, including: (1) waste concentration averaging; (2) use of scaling factors and calculations used to account for difficult-to-measure radionuclides; and (3) ensuring waste stream composition data accounts for changing operational parameters.
 - Shipping/transportation procedures.
 - Cask loading and closure procedures (licensee and vendor) applicable to last three cask transports.
 - List of RAM storage areas, including satellite RCAs.
 - Monitoring impact of long-term storage (e.g. build up of gases produced by waste decomposition, chemical reactions, container deformation, loss of container integrity, rerelease of free-flowing water).
 - Process Control Program (PCP).

- Most recent radio-chemical sample analysis results (i.e., "10 CFR Part 61" analysis) for each of the radioactive waste streams (e.g., dry active waste (DAW), ion exchange resins, mechanical filters, and sludges and activated materials, etc.).
- List and documentation of any changes made to the radioactive waste processing systems (liquid and solid) and/or the PCP since the last inspection and associated 10 CFR Part 50.59 documentation, as appropriate.
- Copies of applicable transport cask Certificate of Compliance for the last three transport cask shipments.
- Training and qualification records for personnel responsible for radioactive waste processing and radioactive material shipment preparation activities.
- Log of radioactive material shipments (LSA I, II, III; SCO I, II, Type A, or Type B) since August 26, 2010. (The inspectors will select 3-5 packages to review in detail.)
- List of corrective action reports generated since August 2010, involving radioactive waste and radioactive material/waste transportation.
- Available for onsite review during the inspection:
 - Site drawing(s) showing the location of all stored radioactive materials and all stored radioactive waste.
 - Plant drawings sufficient to permit the inspector to walk-down the liquid and solid radioactive waste processing systems to verify current system configuration/operation agree with the descriptions contained in the UFSAR and in the PCP.
 - Documentation describing the status of any radioactive waste process equipment that is not operational and/or is abandoned in place.
 - Information concerning the site's waste disposal volume and waste reduction program.
 - Training curriculum and primary lesson plans for qualifying persons, including vendors, for radwaste processing, packaging, and making shipments of radioactive materials and radioactive waste as specified by 49 CFR 172.

71151 - Performance Indicator (PI) Verification

- Monthly PI reports since July 1, 2011, 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 July 1, 2011.
- List of all corrective action documents since July 1, 2011, using keywords such as: HRA, LHRA, VHRA, unintended dose, unlocked door, etc.
- List of all electronic dosimeter (ED) dose rate alarms > 1 R/hr and all ED dose alarms since July 2011.

Assistance Requested During On-Site Inspection

- An inspector will need to accompany the weekly environmental sample collection run.
- An inspector will need to tour the Meteorological Tower and will need to be able to discuss reliability and data recovery issues.
- An inspector will need to observe effluent sample collection and walk-down and discuss effluent monitors and processing.

- An inspector will need to walk-down and discuss liquid and solid waste processing systems, including out of service and equipment abandoned in place or no longer used.
- An inspector will need to observe any shipments or receipts of radioactive material.

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