



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

July 9, 2010

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

Dear Mr. Gatlin:

From August 18-22, 2010, the NRC will perform a baseline Occupational and Public Radiation Safety inspection at the V.C. Summer Nuclear Station, (NRC Inspection Procedures 71124.01, Radiation Hazard Assessment; 71124.06, Radioactive Gaseous and Liquid Effluent Treatment; 71124.07, Radiological Environmental Monitoring Program , 71124.08 , Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation, and 71151 Performance Indicator Verification for Occupational and Public Radiation Protection). Experience has shown that this inspection is resource-intensive both for 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 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.

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 (803-345-4591) of your organization. Our inspection dates are subject to change based on your updated 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).

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/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

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

Docket Nos.: 50-395
License Nos.: NPF-12

cc w/Encl: (See page 3)

Enclosure: Pre-Inspection Document Request

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/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

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

Docket Nos.: 50-395
 License Nos.: NPF-12

cc w/Encl: (See page 3)

Enclosure: Pre-Inspection Document Request

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE

ADAMS: Yes ACCESSION NUMBER: _____

SUNSI REVIEW COMPLETE

OFFICE	RII:DRS	RII:DRS					
SIGNATURE	RKH /RA/	BRB /RA/					
NAME	RHamilton	BBonser					
DATE	07/09/2010	07/09/2010					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\DRS\I\PSB1\INFORMATION REQUEST LETTERS\SUMMER\SUMMER PSB1_RP DOCUMENT REQUEST FOR AUGUST 2010.DOCX

cc w/encl:
J. B. Archie
Senior Vice President
Nuclear Operations
South Carolina Electric & Gas Company
Electronic Mail Distribution

Kathryn M. Sutton, Esq.
Morgan, Lewis & Bockius LLP
Electronic Mail Distribution

Susan E. Jenkins
Director, Division of Waste Management
Bureau of Land and Waste Management
S.C. Department of Health and
Environmental Control
Electronic Mail Distribution

Mark Yeager
Division of Radioactive Waste Mgmt.
S.C. Department of Health and
Environmental Control
Electronic Mail Distribution

Andy T. Barbee
Director
Nuclear Training
South Carolina Electric & Gas Company
Electronic Mail Distribution

Bruce L. Thompson
Manager
Nuclear Licensing (Mail Code 830)
South Carolina Electric & Gas Company
Electronic Mail Distribution

Robert M. Fowlkes
General Manager
Engineering Services
South Carolina Electric & Gas Company
Electronic Mail Distribution

David A. Lavigne
General Manager
Operational Readiness
South Carolina Electric & Gas Company
Virgil C. Summer Nuclear Station
P.O. Box 88
Jenkinsville, SC 29065

R. J. White
Nuclear Coordinator
S.C. Public Service Authority Mail Code 802
Electronic Mail Distribution

Robin R. Haselden
General Manager
Organizational Development &
Effectiveness
South Carolina Electric & Gas Company
Electronic Mail Distribution

George A. Lippard, III
General Manager
Nuclear Plant Operations
South Carolina Electric & Gas Company
Electronic Mail Distribution

Robert L. Justice
Manager
Nuclear Operations
South Carolina Electric & Gas Company
Electronic Mail Distribution

SCE&G

4

Letter to Thomas D. Gatlin from Brian Bonser dated July 9, 2010

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

Distribution w/encl:

C. Evans, RII

L. Slack, RII

OE Mail

RIDSNRRDIRS

PUBLIC

RidsNrrPMSummer Resource

Enclosure

Pre-Inspection Document Request

Occupational and Public Radiation Safety Cornerstones

Licensee: V.C. Summer Nuclear Station
Docket Numbers: 50-395

Inspection Dates: August 18-22, 2010

Procedure: IP 71124.01 Radiation Hazard Assessment
IP 71124.06 Radioactive Gaseous and Liquid Effluent Treatment
IP 71124.07 Radiological Environmental Monitoring Program
IP71124.08 Radioactive Solid Waste Processing and Radioactive
Material Handling, Storage, and Transportation
IP 71151 Performance Indicator Verification

Documentation is requested from July 18, 2008, to the present. 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. We request that the documents be provided for review on or before July 30, 2010.

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

Assistance Requested During On-Site Inspection

- Advance notification of any liquid or gaseous effluent releases, including the associated pre-release sampling, analysis, and permit generation.
- Assistance in plant walk-downs of the liquid and gaseous effluent systems and associated radiation monitors.
- Assistance in plant walk-downs of radiation monitors, including ARMs, CAMs, whole body counters, personnel contamination monitors, etc.
- Assistance with walk-down of meteorological equipment.
- Assistance with observations of REMP sample collection and processing.

General Information Request

- Telephone numbers of contacts
- Plant, Radiation Protection, and Chemistry organizational charts
- List of radiation protection and chemistry procedures related to instruments, effluents and environmental monitoring with designation and title
- Electronic copy of UFSAR chapters 2, 11 and 12 (e.g. site description, RP and RW programs)
- Current revision of the Offsite Dose Calculation Manual (ODCM)
- 2008 and 2009 Annual Radiological Effluents Reports
- 2008 and 2009 Annual Environmental Operations Radiological Report

Enclosure

- Most recent DAW 10 CFR Part 61 analytical results.
- Corrective Action Program procedures
- Procedure(s) for identifying, notification, tracking, and correcting PI occurrences
- 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 July 18, 2008 that encompass the areas of (1) effluent treatment and monitoring program (including chemistry and count room), (2) radiological environmental monitoring program, (3) meteorological monitoring program, (4) radiation measurement instrumentation program (fixed and portable).

71124.01: Radiological Hazard Assessment and Exposure Controls

- Site and corporate procedures associated with the access control program. Procedures should include:
 - Radiological surveys, postings, and radiation control barricades
 - Security and control of high radiation sources/objects stored in pools
 - Radiation Work Permits
 - Radiological Job-Coverage
 - Controlling access to High Radiation Areas (HRAs), High Dose Rate High Radiation Areas (HDR-HRAs), and Very High Radiation Areas (VHRAs)
 - Key controls for all high radiation areas
 - Radioactive material control, including contamination and hot particles
- 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.
- List of LHRAs, HDR-HRAs (>25 rem in one hour @ 30 cm), and VHRAs. Include areas with the potential to become a LHRA during routine operations or outages.
- List of corrective action reports generated since the last inspection related to access controls, including the following:
 - Access controls, including high radiation area radiological incidents
 - Radiological events caused by radiation worker errors
 - Radiological events caused by radiation protection technician errors
- Available for onsite review during inspection:
 - Elevation maps with most recent operating and outage radiation survey levels.
 - RWPs for the top five dose rate areas or tasks.

RADIOACTIVE GASEOUS AND LIQUID EFFLUENT TREATMENT [71124.06]

- Copies of the CY 2008 and CY 2009 ARERR documents *[Note: provided as part of the General Information Request and duplication is not required]*
- 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 18, 2008
- Provide a list of significant changes to the radioactive effluent processing systems since July 18, 2008
- Provide a list of any non-radioactive systems that have become contaminated since July 18, 2008.
- Provide a list of any abnormal gaseous or liquid releases identified since July 18, 2008
- Provide a list of 10 CFR 50.75(g) entries made since July 18, 2008
- Provide system health reports for radiological effluent/process monitoring systems since July 18, 2008
- Provide a list of the main liquid and gaseous effluent pathway process monitors listed as out-of-service (OOS) since July 18, 2008. *[Note do not include monitors listed as OOS for less than 24 hours]*
- List of significant changes to the effluent monitoring program since July 18, 2008, as documented within the ODCM
- Provide groundwater monitoring results since July 18, 2008
- Records since July 18, 2008, for:
 - detailed inter-laboratory comparison program results
 - results of Technical Specification HEPA and Charcoal filtration system surveillances
 - list of abnormal liquid and gaseous releases
- Copies of all audits, self-assessments, and/or reviews of liquid and gaseous effluent monitoring program activities since July 18, 2008. The data should include any reviews conducted of vendor activities and their facilities
- List of Condition Report documents generated since July 18, 2008, as a result of gaseous and liquid effluent processing and/or release activities. *[Note: only titles/summary statement should be provide for use by the inspectors to select a sample of issues for in-depth review]*

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP) [71124.07]

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)

Enclosure

- monthly/quarterly meteorological instrumentation surveillance requirements (control room and local tower activities)
- Records since July 18, 2008 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
- 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 18, 2008 List of Condition Reports generated as a result of REMP activities since July 18, 2008. *[Note: only titles/summary statement should be provide for use by the inspectors to select a sample of issues for in-depth review]*
- Copies of the CY 2008 and CY 2009 AREORs [Note: provided as part of the General Information Request and do not need to be duplicated.

RADIOACTIVE SOLID WASTE PROCESSING AND RADIOACTIVE MATERIAL HANDLING, STORAGE, AND TRANSPORTATION [71124.08]

- Site and corporate procedures/manuals 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
 - Process Control Program (PCP).
 - Most recent Annual Radioactive Effluents Release Report.
 - 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 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.

- Copy of the Radioactive Shipping Log for the last 12 months. (The inspector will select transportation shipping packages for review during the inspection.)
- List of corrective action reports generated since the last inspection 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.

Inspector Contact Information:

Ruben Hamilton
(404) 997-4672
ruben.hamilton@NRC.GOV

Mailing Address

U.S. Nuclear Regulatory Commission
Region II
ATTN: Ruben Hamilton
245 Peachtree Center Avenue, NE
Suite 1200
Atlanta, GA 30303-1245

Enclosure