



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

April 12, 2007

South Carolina Electric & Gas Company
ATTN: Mr. Jeffrey B. Archie
Vice President, Nuclear Operations
Virgil C. Summer Nuclear Station
P. O. Box 88
Jenkinsville, SC 29065

SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION, NOTIFICATION OF INSPECTION
AND REQUEST FOR INFORMATION

Dear Mr. Archie:

On June 4-8, 2007, the NRC will perform a baseline radiation safety inspection at V.C. Summer using NRC Inspection Procedures 71121.01, 71122.02, select portions of 71122.01, and the radiation safety portions of 71151. 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. The lead inspector has scheduled a pre-inspection visit with your staff for June 15-17, 2007. The material requested will be reviewed and collected at that time.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Ms. Susan Reese of your organization. If there are any questions about this inspection or the material requested, please contact the lead inspector, Heather Gepford, at (404) 562-4659.

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: Heather Gepford for/

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

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

Enclosure: Radiation Protection Inspection Document Request

cc w/encl:
R. J. White
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S.C. Public Service Authority
Virgil C. Summer Nuclear Station
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Electronic Mail Distribution

(cc w/encl cont'd - See page 3)

(cc w/encl cont'd)

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Distribution w/encl:

R. Martin, NRR
RIDSNNRRDIRS
PUBLIC

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(cc w/encl cont'd - See page 3)

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE

ADAMS: Yes ACCESSION NUMBER: _____

OFFICE	RII:DRS	RII:DRP					
SIGNATURE	RA	RA					
NAME	HGEPFORD	GUTHRIE					
DATE	4/12/2007	4/12/2007	4/ /2007	4/ /2007	4/ /2007	4/ /2007	4/ /2007
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

Pre-Inspection Document Request
Occupational Radiation Safety Cornerstone

Licensee: Summer Nuclear Power Station
Docket Number(s): 50-395
Inspection Dates: June 4-8, 2007

Inspection Procedures to be performed:

71121.01 Access Controls to Radiologically Significant Areas
71122.02 Radioactive Material Processing and Transportation
71122.01 Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems
(select samples related to groundwater monitoring)
71151 Performance Indicator Verification (occupational/public radiation safety PIs)

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 inspectors will select documents/areas from the list for on-site review.

If you have any questions, please call Heather Gepford at 404-562-4659. Thank you in advance for all your effort in putting together this material.

Assistance Requested During On-Site Inspection

1. Identification of work activities during the inspection for inspector observations, including notification of pre-job briefings, notification of diving activities, and audio/visual surveillance for remote job coverage.
2. Health physics assistance in plant walk-downs assessing access controls, e.g. verifying the posting and locking of entrances to HDR-HRA and VHRA, and spent fuel pool controls.
3. Assistance in plant walk-downs of the solid and liquid radwaste processing systems.
4. Schedule of radioactive material shipments during the inspection and notification of opportunities for observations of shipment preparation/receipt; discussions with appropriate individuals regarding the transportation program.
5. Assistance with walk-downs of groundwater monitoring wells and systems, structures, and components with the potential to spill/leak radioactive liquids, e.g., tanks, storage pools, and underground pipes.

Enclosure

General Information Request

- Telephone numbers of contacts
- Plant, Radiation Protection, and Chemistry organizational charts, including personnel involved in solid radwaste processing, transportation of radwaste/radioactive materials, and the groundwater monitoring program.
- List of radiation protection procedures
- Corrective Action Program procedure(s)
- Latest revision of the Offsite Dose Calculation Manual (ODCM)
- 2006 Annual Radioactive Effluents Release Report
- Audits and self-assessments performed since the last inspection that encompass the areas of (1) radiation protection, (2) access controls, (3) liquid and solid radwaste processing, (4) transportation of radioactive material/radwaste, and (5) groundwater monitoring/contamination.

71121.01 Access Controls to Radiologically Significant Areas

- 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
 - ▶ Dosimetry monitoring (electronic dosimeters, multi-badging, etc.)
 - ▶ Calculations of internal exposures
- 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 HRAs, LHRAs, HDR-HRAs (>25 rem in one hour @ 30 cm), and VHRAs. Include areas with the potential to become a HRA during routine operations or outages.
- List of active radiation work permits with their administrative limits, electronic dosimeter dose rate limit, and dose limit.
- Internal and skin dose assessments, including calculations, for any internal exposures greater than 50 mrem CEDE or skin doses greater than 500 mrem since July 2006.
- List of corrective action reports generated since July 2006 related to access controls, including the following:

Enclosure

- ▶ 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
 - ▶ RWPs for airborne activity areas.

71122.02 Radioactive Material Processing and Transportation

- 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 radio-chemical sample analysis results (i.e., "10 CFR Part 61" analysis) for each of the radioactive waste streams (e.g., dry active waste, 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 May 2005, including 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 May 2005 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 and operation agree with 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 on 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.

71122.01 Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems
(select samples related to groundwater monitoring)

- Procedures addressing monitoring, tracking, documenting, and communicating the results of both routine and abnormal liquid releases to the onsite and offsite surface and groundwater environs were reviewed.
- Summary of spill, leak, and unexpected liquid discharge data documented in the site's 10 CFR 50.75(g) files. Note: Only provide a summary; select 50.75(g) file details will be reviewed during onsite inspection.
- List of corrective action reports generated since January 2006 for (1) system, structure, and component liquid leaks and (2) tritium or other radionuclides identified in ground and/or surface runoff water samples.

71151 PI Verification (Public and Occupational Radiation Safety Cornerstones)

- Procedure(s) for identifying, notification, tracking, and correcting performance indicator (PI) occurrences.
- Monthly PI reports since July 2006, including copies of associated corrective action reports, for Occupational Exposure Control Effectiveness and RETS/ODCM Radiological Effluent Occurrences
- List of all corrective action program documents generated since July 2006 including keywords such as: HRA, LHRA, VHRA, unintended dose, unlocked door, offsite dose, ODCM, etc.
- List of all dose rate alarms >1 R/hr since July 2006.
- List of all dose alarms since July 2006.
- All final release point effluent monitor out-of-service dates since July 2006.
- Most recent gaseous and liquid effluent release permits showing cumulative doses for calendar year (CY) 2007 to date.
- Final release permits for December 2006 showing cumulative doses for CY 2006.

Lead Inspector Contact Information:

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Enclosure