



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30303

JUN 27 1984

Report No.: 50-395/84-16

Licensee: South Carolina Electric and Gas Company
Columbia, SC 29218

Docket No.: 50-395

License No.: NPF-12

Facility Name: Summer

Inspection Dates: June 11-14, 1984

Inspection at Summer site near Jenkinsville, South Carolina

Inspector: G. R. Jenkins
for W. W. Peery

6/27/84
Date Signed

Approved by: G. R. Jenkins
G. R. Jenkins, Section Chief
Division of Radiation Safety and Safeguards

6/27/84
Date Signed

SUMMARY

Areas Inspected

This routine, unannounced inspection involved 24 inspector-hours onsite in the areas of training, organization, external and internal exposures, control of radioactive materials, contamination, surveys, monitoring, pre-planning for the upcoming outage.

Results:

No violations or deviations were identified.

REPORT DETAILS

1. Persons Contacted

- *O. S. Bradham, Director, Nuclear Plant Operations
- *L. A. Blue, Manager, Support Services
- *J. Cox, Associate Manager, Health Physics
- *H. J. Sofick, Associate Manager, Station Security
- *W. F. Bacon, Associate Manager, Chemistry
- *H. I. Donnelly, Senior Licensing Engineer
- *R. Bouknight, Regulatory Compliance
- *J. Proper, QA Supervisor of Operations
- *W. P. Irwin, Licensing Specialist
- *R. M. Campbell, ISEG, Engineer
- *C. J. McKinney, Regulatory Compliance
- *A. J. Cribb, Jr., Plant Chemist
- E. Robinson, Health Physics Supervisor
- A. R. Coon, Associate manager, Regulatory Compliance
- G. McCordy, Health Physics Supervisor (ALARA)
- J. Barker, Health Physicist, Corporate

Other licensee employees contacted included two technicians.

Other Organizations

A. Eidson, NUMANCO

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on June 14, 1984, with those persons indicated in paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

Not Inspected.

4. Training and Organization

Training records were reviewed, particularly as they related to the divers being used to replace the fuel racks in the spent fuel pool. The records revealed that all of the divers received the necessary training in the various phases of the training program and that the instructions were effective as evidenced by the high marks for all on the written examinations. The licensee had devoted four Health Physics technicians and a supervisor to provide full time coverage to the pool work. Observation revealed that adequate Health Physics coverage was being provided for the pool work and all other areas of the plant. The Health Physics organization now has authorization for five additional permanent technicians.

No violations or deviations were identified.

5. External and Internal Exposures

Review of audits of the Health Physics program revealed that the licensee has been responsive to audit findings and prompt to take corrective actions for detected inadequacies. There have been no changes in facilities, equipment, personnel, or procedures that have had an adverse effect on the quality of the external exposure control program. Pre-planning for an upcoming outage was not complete. Licensee representatives stated that as soon as a complete schedule of work to be performed during the outage becomes available, preplanning for the entire outage will be completed to include ALARA considerations in controlling external and internal exposures. The personnel dosimetry provided by the licensee to all employees was observed to be satisfactory and all personnel were observed to be wearing the dosimetry properly as required. The divers have been multi-badged and there have been no significant whole body or extremity exposures. The contamination and radiation levels in the spent fuel pool were relatively low. Sample analysis results for the pool water on June 13, 1984, showed $6.70E-05$ $\mu\text{Ci/ml}$ for all radionuclides other than tritium. Care has been taken to control contamination in the pool work. The divers are thoroughly washed down as they exit the pool and closely monitored there and in a low background area. The diving equipment is monitored by Health Physics personnel and it remains inside the established control point step-off pad area at pool side. The divers are routinely whole body counted and submit samples for urinalysis daily, primarily for tritium. None of the bioassay results have indicated any uptake of radioactivity by the divers. None of the bioassay results for all other radiation works at the plant have indicated any uptake of radioactivity. No violations or deviations were identified.

6. Control of Radioactive Materials and Contamination, Surveys, and Monitoring

The inspector reviewed licensee audits of the Health Physics program and found no particular problem areas identified for the subject areas. Discussions and observations revealed no changes in instrumentation, equipment, and procedures that have had an adverse effect on the program. The inspector observed numerous survey instruments and friskers and found them to be operable and timely calibrated. The portal monitors and hand and foot counters were observed to be used by each individual who exited the radiation control area. During tours of the plant, the inspector observed that controls of radioactive materials and contamination were generally very good; however, the inspector noted that overflow through the floor drain tank vent to a ventilation duct had occurred. This had not resulted in any particular radiological problems; however, a licensee representative assured the inspector that corrective actions will be taken to prevent recurrence. The inspector also noted that an overhead door had been left open near the hot machine shop. The inspector stated that this was poor practice. A licensee representative stated that action will be taken to establish positive controls to assure that the door is kept closed except when in use. Review of survey records revealed that surveys are apparently being made as required in the licensee's program and 10 CFR 20. Independent surveys by the inspector showed acceptable agreement with licensee posted radiation levels. Discussions and record reviews revealed that survey data is timely disseminated for work planning and dose control. Contamination control in

this plant is effective and the majority of areas can be entered without protective clothing. No violations or deviations were identified.