



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

August 27, 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: VIRGIL C. SUMMER NUCLEAR STATION - NRC EMERGENCY
PREPAREDNESS INSPECTION REPORT 05000395/2010502

Dear Mr. Gatlin:

On July 14, 2010, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Virgil C. Summer Nuclear Station, Unit 1. The enclosed inspection report documents the inspection results, which were discussed on July 14, 2010, with Mr. Zarandi and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no findings were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response, if any, 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 Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

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

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

Enclosure: Inspection Report 05000395/2010-502
w/Attachment: Supplemental Information

cc w/encl.: (See page 2)

August 27, 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: VIRGIL C. SUMMER NUCLEAR STATION - NRC EMERGENCY PREPAREDNESS
INSPECTION REPORT 05000395/2010502

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NAME	LMiller	JBeavers	JDodson	BBonser	GMcCoy	KKennedy	
DATE			08/10/2010	08/27/2010	08/10/2010	08/27/2010	
E-MAIL COPY?	YES N	YES NO	YES N	YES NO	YES N	YES NO	YES NO

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Letter to Thomas D. Gatlin from Brian Bonser dated August 27, 2010

SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION - NRC EMERGENCY
PREPAREDNESS INSPECTION REPORT 05000395/2010502

Distribution w/encl:

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket Nos.: 50-395

License Nos.: NPF-12

Report No.: 05000395/2010502

Licensee: South Carolina Electric & Gas Company

Facility: Virgil C. Summer Nuclear Station, Unit 1

Location: Jenkinsville, SC

Dates: April 19, 2010 through July 14, 2010

Inspectors: L. Miller, Senior Emergency Preparedness Inspector
J. Dodson, Senior Project Engineer
J. Beavers, Emergency Preparedness Inspector

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

Enclosure

SUMMARY OF FINDINGS

IR 05000395/2010-502; 04/19/2010 – 07/14/2010; Virgil C. Summer Nuclear Station, Unit 1; Emergency Preparedness Baseline Inspection.

The report covered an announced inspection by two emergency preparedness inspectors and one senior project engineer. No findings were identified. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4, dated December 2006.

Cornerstone: Emergency Preparedness

No findings were identified.

Licensee-Identified Violations

None

Enclosure

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness (EP)

1EP1 Exercise Evaluation

a. Inspection Scope

Prior to the inspection activity, the inspectors conducted an in-office review of the exercise objectives and scenario submitted to the NRC to determine if the exercise would test major elements of the emergency plan as required by 10 CFR 50.47(b)(14).

The onsite inspection consisted of the following review and assessment:

- The adequacy of the licensee's performance in the biennial exercise, conducted on April 21, 2010, was reviewed and assessed regarding the implementation of the Risk Significant Planning Standards (RSPS) in 10 CFR 50.47 (b)(4), (5), (9), and (10) which address emergency classification, offsite notification, radiological assessment, and protective action recommendations, respectively.
- The overall adequacy of the licensee's emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities and Emergency Plan Commitments". The facilities assessed were the Control Room Simulator, Technical Support Center (TSC), Operations Support Center (OSC) and Emergency Operations Facility (EOF).
- Other performance areas, such as: the emergency response organization's (ERO) recognition of abnormal plant conditions; command and control, intra- and inter-facility communications; prioritization of mitigation activities; utilization of repair and field monitoring teams; interface with offsite agencies; and the overall implementation of the emergency plan and its implementing procedures.
- Past performance issues from NRC inspection reports and Federal Emergency Management Agency (FEMA)/Department of Homeland Security (DHS) exercise reports to determine the effectiveness of corrective actions as demonstrated during this exercise to ensure compliance with 10 CFR 50.47(b)(14).
- The post-exercise critique process and the presentation to the licensee's senior management conducted on April 23, 2010, to evaluate the licensee's self-assessment of its Emergency Response Organization (ERO) performance during the exercise and to ensure compliance with 10 CFR 50, Appendix E, Subsection IV.F.2.g.

Enclosure

The inspector reviewed various documents which are listed in the Attachment. This inspection activity satisfied one inspection sample for the exercise evaluation on a biennial basis.

b. Findings

No findings were identified.

1EP4 Emergency Action Level and Emergency Plan Changes

a. Inspection Scope

Since the last NRC inspection of this program area, no change has been implemented to Revision 58 of the Radiological Emergency Response Plan. The inspectors conducted a sampling review of the implementing procedure changes made between September 30, 2009, and March 31, 2010, to evaluate for potential decreases in effectiveness of the Plan. However, this review was not documented in a Safety Evaluation Report and does not constitute formal NRC approval of the changes. Therefore, these changes remain subject to future NRC inspection in their entirety.

The inspection was conducted in accordance with NRC Inspection Procedure 71114, Attachment 04, "Emergency Action Level and Emergency Plan Changes." The applicable planning standard (PS), 10 CFR 50.47(b)(4) and its related 10 CFR 50, Appendix E requirements were used as reference criteria.

The inspectors reviewed various documents which are listed in the Attachment report. This inspection activity satisfied one inspection sample for the emergency action level and emergency plan changes on an annual basis.

b. Findings

No findings were identified.

4. OTHER ACTIVITIES

4OA1 Performance Indicator Verification

a. Inspection Scope

The inspector sampled licensee submittals relative to the Performance Indicators (PIs) listed below for the period July 1, 2009 through Dec 31, 2009. To verify the accuracy of the PI data reported during that period, PI definitions and guidance contained in NEI 99-02, "Regulatory Assessment Performance Indicator Guideline", Revision 6, were used to confirm the reporting basis for each data element.

Emergency Preparedness Cornerstone

- Emergency Response Organization Drill/Exercise Performance (DEP)
- Emergency Response Organization Readiness (ERO)
- Alert and Notification System Reliability (ANS)

For the specified review period, the inspector examined data reported to the NRC, procedural guidance for reporting PI information, and records used by the licensee to identify potential PI occurrences. The inspector verified the accuracy of the DEP through review of a sample of drill and event records. The inspector reviewed selected training records to verify the accuracy of the ERO PI for personnel assigned to key positions in the ERO. The inspector verified the accuracy of the PI for ANS reliability through review of a sample of the licensee's records of periodic system tests. Licensee procedures, records, and other documents reviewed within this inspection area are listed in the Attachment to this report.

The inspector reviewed various documents which are listed in the Attachment. This inspection activity satisfied one inspection sample for each of the three (3) Emergency Preparedness PIs, i.e., DEP, ERO, and ANS, on an annual basis.

b. Findings

No findings were identified.

4OA6 Meetings, Including Exit

On April 23, 2010, the lead inspector presented the inspection results to Mr. Gatlin and other members of the V. C. Summer staff. The inspector confirmed that proprietary information was not provided during the inspection.

On July 14, 2010, the Chief, Plant Support Branch One (1), conducted a re-exit with Mr. Zarandi and other members of the V. C. Summer staff via teleconference.

ATTACHMENT: SUPPLEMENTAL INFORMATION

Enclosure

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee personnel

J. Archie, Senior Vice President, Nuclear Operations
R. Fowlkes, General Manager Engineering Services
T. Gatlin, Vice President Nuclear Operations
R. Haseldew, General Manager Organizational Effectiveness
G. Lippard, General Manager Nuclear Plant Operations
B. Thompson, Manager Nuclear Licensing
T. McCullough, Supervisor Emergency Services Unit
R. Williamson, Manager Emergency Services
S. Zarandi, General Manager Nuclear Support Services

ITEMS OPENED, CLOSED, AND DISCUSSED

None

LIST OF DOCUMENTS REVIEWED

1EP1 Exercise Evaluation

Procedures

EPP-001.01 Unusual Event, Rev. 8
EPP-001.02 Alert, Rev. 8
EPP-001.03 Site Area Emergency, Rev. 8
EPP-001.04 General Emergency, Rev. 8
EPP-001 Activation and Implementation of Emergency Plan, Rev. 30
EPP-002 Communication and Notification, Rev. 35
EPP-005 Offsite dose Calculation, Rev. 20
EPP-013 Fire Emergency, Rev. 14
EPP-021 Activation of the Early Warning Siren System (EWSS), Rev. 22
EPP-023 Technical Support Center, Rev. 17
EPP-028 Operations Support Center, Rev. 1
EPP-051 Emergency Operations Facility, Rev. 8
EPP-104 Verification of Communications Operability, Rev. 9
EPP-105 Conduct of Drills and Exercises, Rev. 8
EPP-107 Conduct of Fire Brigade Drills, Rev. 0
EPP-108.00 Emergency Action Level Technical Basis Document, Rev. 0
EPP-110.00 Emergency Action Level Reference Manual, Rev. 0
SAP-999, Corrective Action Program, Rev. 4
SAP-0127, Emergency Preparedness, Rev. 1 Change letter B

Records and Data

Control Room, Technical Support Center, Operations Support Center, Joint Information Center - Documentation packages (logs, event notification forms, Protective Action Recommendations, Media releases, and Radiological Dose Assessment

Corrective Action Program

CR-10-01696, Notifications faxed from WebEOC to the Counties not received
CR-10-01698, Control Room simulator incorrectly declared a Site Area Emergency
CR-10-01699, Initial notification of the Site Area Emergency inaccurate
CR-10-01700, Follow-up notification of the Site Area Emergency inaccurate
CR-10-01701, Follow-up notification of the Site Area Emergency inaccurate
CR-10-01702, Follow-up notification of the General Emergency inaccurate
CR-10-01703, Training related items from the NRC Evaluated Exercise on 04/21/2010
CR-10-01704, Procedure related items from the NRC Evaluated Exercise on 04/21/2010
CR-10-01705, Facilities related items from the NRC Evaluated Exercise on 04/21/2010
CR-10-01706, Control Room simulator Emergency Response Data System program failed
CR-10-01710, Failed to activate EOF within 60 minutes of Site Area Emergency declaration
CR-10-01712, NRC identified an "Apparent Violation" of 50.9
CR-10-01719, Simulator Control Room operating Emergency Operating Procedure decision
CR-10-01778, NRC pre-exit meeting with Emergency Planning and Licensing comments
CR-10-01806, Drill Control and Scenario issues identified

Section 1EP4: Emergency Action Level and Emergency Plan Changes

EP-100, Radiation Emergency Plan, Rev. 58

Changes packages

EPP-105, Conduct Of Drills And Exercises, Rev. 8
EPP-106, Emergency Preparedness Performance Indicator Procedure, Rev. 1

Section 4OA1: Performance Indicator Verification

Procedures

EPP-105, Conduct of Drills and Exercises, Rev. 8
EPP-106, Emergency Preparedness Performance Indicator Procedure, Rev. 1
EPP-102, Emergency Plan Training, Rev. 5
EPP-021, Activation of the Early Warning Siren System (EWSS), Rev. 22

Records and Data

DEP opportunities documentation for 3rd and 4th Quarters 2009
Drill and exercise participation records of ERO personnel for 3rd and 4th Quarters 2009
Siren test data for 3rd and 4th Quarters 2009
Various ERO Personnel Qualification and Participation records

LIST OF ACRONYMS

ANS	Alert and Notification System Reliability
DEP	Emergency Response Organization Drill/Exercise Performance
DHS	Department of Homeland Security
EOF	Emergency Operations Facility
ERO	Emergency Response Organization Readiness
FEMA	Federal Emergency Management Agency
OSC	Operations Support Center
PI	Performance Indicator
RSPS	Risk Significant Planning Standards
TSC	Technical Support Center