



**FEMA**

APR 5 2004

NCH-RP

Eric Weiss, Chief  
Emergency Preparedness and  
Health Physics Section  
Equipment and Human Performance Branch  
Division of Inspection Program Management  
Office of Nuclear Reactor Regulation  
Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr. Weiss:

This is in response to your request for the Federal Emergency Management Agency (FEMA) to address a concern received by the Nuclear Regulatory Commission (NRC) regarding the State and local planning and preparedness in support of the VC Summer Nuclear Station located in Jenkinsville, South Carolina.

I tasked FEMA's Region IV Office in Atlanta, Georgia, to process your request for assistance. In an effort to provide you with more detail on how issues raised by the Concerned Individual have been addressed, I am enclosing a copy of our regional office's response.

Based on a thorough review of the documentation compiled by FEMA Headquarters and FEMA Region IV staff, it is my determination that the VC Summer emergency response plans and procedures continue to provide reasonable assurance that the public health and safety can be protected in the event of an incident at the VC Summer Nuclear Station.

Sincerely,

A handwritten signature in black ink, appearing to read "Vanessa E. Quinn".

Vanessa E. Quinn, Chief  
Radiological Emergency Preparedness Section


Enclosures



**FEMA**

## Interoffice Memorandum

To: Vanessa Quinn, Chief  
Radiological Emergency Preparedness

  
From: Conrad Burnside, Chief  
Technological Services Branch

Date: March 5, 2004

Re: U.S. Nuclear Regulatory Commission (NRC) Request for Assistance Regarding State and Local Planning and Preparedness in Support of the V. C. Summer Nuclear Station

This is in response to your request for review and evaluation of the request for assistance from the NRC. We forwarded the request to review the allegation to the State of South Carolina.

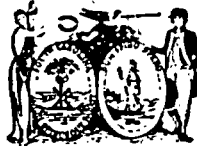
The State points out that they do not have jurisdiction over providing fire fighting assistance on-site. However, they contacted the V. C. Summer Nuclear Station regarding the support they receive, if needed, from off-site volunteer fire departments. The V. C. Summer Nuclear station provided copies of Letters of Agreement from the Jenkinsville, Blair, Greenbrier-Bethel, Feasterville, and Lebanon Volunteer Fire Departments. All the volunteer fire departments have agreed to provide support to the V. C. Summer Nuclear Station in the event of a fire emergency and in accordance with the Fairfield County Emergency Operations Plan. According to the plan these 5 volunteer fire departments have 125 volunteer firefighters.

The Fairfield County Emergency Operations plan is an all hazards plan. The response is not dependent on the initiating event, whether accidental or intentional, but on the conditions. Protective action decisions are made with the State of South Carolina and the other affected counties. The decisions are based on plant conditions and radiological monitoring in the area. The counties also have plans in place to address the special needs population in the Emergency Planning Zone. The State and counties have successfully demonstrated their ability to analyze the situation, make decisions and inform the public of any protective actions required through the biennial exercises evaluated by FEMA. The last FEMA evaluated exercise for the V. C. Summer Nuclear Station was July 23, 2003.

Based on our review of the material provided by the State of South Carolina and a review of the Fairfield County Plan, the Fairfield County's plans and procedures continue to provide a reasonable assurance that the public health and safety can be protected in the event of an incident at the V. C. Summer Nuclear Station.

Attachments

The State of South Carolina  
Military Department



OFFICE OF THE ADJUTANT GENERAL

STANHOPE S. SPEARS  
MAJOR GENERAL  
THE ADJUTANT GENERAL

January 23, 2004

Mr. Eddie Hickman, EMPS  
Federal Emergency Management Agency  
Region IV  
3003 Chamblee Tucker Rd.  
Atlanta, GA. 30341

Dear Mr. Hickman:

This is in response to your letter dated January 2, 2004, regarding the Jenkinsville, SC , Fire Department's ability to respond to an event at the V.C. Summer Nuclear Station (VCSNS).

Although the State has no jurisdiction over on-site operations, we did ask VCSNS management to review the concerns expressed by Councilman Marcharia of Jenkinsville, SC, and to provide us with confirmation that the Jenkinsville Fire Department has adequate trained firefighters and equipment to respond effectively to an emergency at VCSNS. A copy of their response is enclosed.

Should you have additional questions, please contact Mr. Bob Williamson or Mr. Steven Byrne at VCSNS directly, telephone (803) 345-4464.

Sincerely,

A handwritten signature in black ink, appearing to read "Ron Osborne".

Ron Osborne  
Director

RCO/BD

A PLAINTEXT MESSAGE TO THE ADJUTANT GENERAL

Emergency Management Division  
1100 Fish Hatchery Road  
West Columbia, South Carolina 29172  
(803) 737-8500 • Fax: (803)-737-8570

Stephen A. Byrne  
Senior Vice President, Nuclear Operations  
803.345.4622



January 14, 2004  
RC-04-0008

**RECEIVED**

JAN 16 2004  
Emergency Management Division  
Office of the Adjutant General

Mr. R. C. Osborne, Director  
South Carolina Emergency Management Division  
1100 Fish Hatchery Road  
West Columbia, SC 29172

Dear Mr. Osborne:

Subject: VIRGIL C. SUMMER NUCLEAR STATION  
DOCKET NO. 50/395  
OPERATING LICENSE NO. NPF-12  
NRC REQUEST FOR ASSISTANCE IN ADDRESSING QUESTIONS AND  
COMMENTS RECEIVED DURING A PUBLIC MEETING ON THE DRAFT  
ENVIRONMENTAL IMPACT STATEMENT FOR V. C. SUMMER NUCLEAR  
STATION LICENSE RENEWAL

In response to your letter dated January 7, 2004, I have reviewed the concerns expressed by Councilman Marcharia of Jenkinsville, SC related to the public meeting on the Draft Environmental Impact Statement for the V. C. Summer License Renewal.

Councilman Marcharia expressed concern that the Jenkinsville Fire Department does not have adequate personnel and equipment to respond to an event at the V. C. Summer Nuclear Station (VCSNS). On May 10, 2003, the Chief of the Jenkinsville, SC fire department, Leonardo O'Neal, signed an updated letter of agreement with the South Carolina Electric & Gas Company (SCE&G) to support the VCSNS in the event of a fire emergency in accordance with Appendix F of the Fairfield County Emergency Operation Plan. In addition, the Volunteer Fire Departments of Blair, Greenbrier-Bethel, Feasterville and Lebanon have all signed letters of agreement to support the VCSNS in the event of a fire emergency as well. Based on these commitments, I am confident that not only Jenkinsville, but also the four additional volunteer fire departments have adequate personnel and equipment to respond to a fire event at the VCSNS.


VCSNS conducted a training class for the volunteer fire departments on April 12, 2003 with representation from Jenkinsville Volunteer Fire Department, along with members of all other volunteer fire departments (VFDs). On September 13, 2003, a successful on-site fire drill was conducted with members of the Jenkinsville VFD and members of the other VFDs responding to a simulated multiple area fire within the V.C. Summer Protected Area. This drill practiced coordination between the V. C. Summer fire brigade and the five VFDs. This fire drill was observed by a VCSNS NRC Resident Inspector, and was included in the quarterly inspection report for the station (Virgil C. Summer Nuclear Station - NRC Integrated Inspection Report No. 05000395/2003004).

SC Emergency Management Division  
RC-04-0008  
Page 2 of 2

I am enclosing the signed letters of agreement and the pertinent information from the Virgil C. Summer Nuclear Station - NRC Integrated Inspection Report for your review.

Should you have any additional questions, please contact Mr. Bob Williamson or myself at (803) 345-4464.

Very truly yours,



Stephen A. Byrne

REW/SAB/dr  
Enclosures

1. Letter of Agreement - Jenkinsville Volunteer Fire Department
2. Letter of Agreement - Blair Volunteer Fire Department
3. Letter of Agreement - Greenbrier-Bethel Volunteer Fire Department
4. Letter of Agreement - Feasterville Volunteer Fire Department
5. Letter of Agreement - Lebanon Volunteer Fire Department
6. Virgil C. Summer Nuclear Station - NRC Integrated Inspection Report No. 05000395/2003004, Section 1R05.2

c: R. J. White           M/C 802  
R. E. Williamson    M/C 507  
E. W. Weiss         USNRC  
E. Hickman         FEMA  
NSRC  
File (821.00)  
DMS (RC-04-0008)

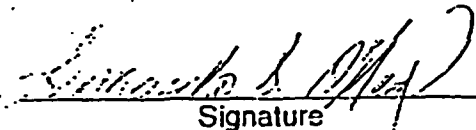
April 23, 2003

South Carolina Electric and Gas Company  
V.C. Summer Nuclear Station  
P.O. Box 88  
Jenkinsville, S.C. 29065

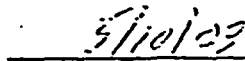
Dear Mr. Byrne:

**SUBJECT: UPDATED LETTER OF AGREEMENT**

This letter is to affirm the fact that the Jenkinsville Volunteer Fire Department is willing to cooperate with South Carolina Electric and Gas Company in providing support to V.C. Summer Nuclear Station in the event of a fire emergency. Details are in Annex F of the Fairfield County Emergency Operation Plan.

  
Signature

  
Title

  
Date

April 23, 2003

South Carolina Electric and Gas Company  
V.C. Summer Nuclear Station  
P.O. Box 88  
Jenkinsville, S.C. 29065

Dear Mr. Byrne:

**SUBJECT: UPDATED LETTER OF AGREEMENT**

This letter is to affirm the fact that the Blair Volunteer Fire Department is willing to cooperate with South Carolina Electric and Gas Company in providing support to V.C. Summer Nuclear Station in the event of a fire emergency. Details are in Annex F of the Fairfield County Emergency Operation Plan.

Larry Robinson  
Signature

Chief  
Title

6-18-2003  
Date

April 23, 2003

South Carolina Electric and Gas Company  
V.C. Summer Nuclear Station  
P.O. Box 88  
Jenkinsville, S.C. 29065

Dear Mr. Byrne:

SUBJECT: UPDATED LETTER OF AGREEMENT

This letter is to affirm the fact that the Greenbrier Volunteer Fire Department is willing to cooperate with South Carolina Electric and Gas Company in providing support to V.C. Summer Nuclear Station in the event of a fire emergency. Details are in Annex F of the Fairfield County Emergency Operation Plan.

*[Handwritten Signature]*  
Signature

*Chief*  
Title

6-18-03  
Date



April 23, 2003

South Carolina Electric and Gas Company  
V.C. Summer Nuclear Station  
P.O. Box 88  
Jenkinsville, S.C. 29065

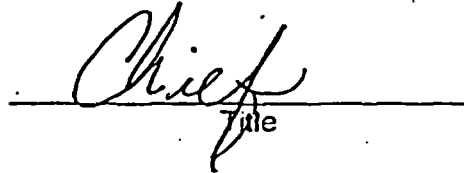
Dear Mr. Byrne:

SUBJECT: UPDATED LETTER OF AGREEMENT

This letter is to affirm the fact that the Feasterville Volunteer Fire Department is willing to cooperate with South Carolina Electric and Gas Company in providing support to V.C. Summer Nuclear Station in the event of a fire emergency. Details are in Annex F of the Fairfield County Emergency Operation Plan.

  
Signature

5-13-03  
Date

  
Title

April 23, 2003


South Carolina Electric and Gas Company  
V.C. Summer Nuclear Station  
P.O. Box 88  
Jenkinsville, S.C. 29065

Dear Mr. Byrne:

**SUBJECT: UPDATED LETTER OF AGREEMENT**

This letter is to affirm the fact that the Lebanon Volunteer Fire Department is willing to cooperate with South Carolina Electric and Gas Company in providing support to V.C. Summer Nuclear Station in the event of a fire emergency. Details are in Annex F of the Fairfield County Emergency Operation Plan.

  
Signature

  
Date

  
Title

- Component cooling water heat exchangers service water booster pumps (fire zones IB-25.1.1, 1.2, 1.3, 1.5);
- Motor generator set / rod control cabinet room 63-02 (fire zone IB-21.1);
- Service water pumphouse (fire zones SWPH 1, 3, 5.1/5.2);
- Turbine driven EFW pump room (fire zone IB-25.2);
- Battery charger rooms and battery charger (fire zones IB-2, 3, 4, 5, 6 and IB-412);
- Turbine building (fire zone TB-1);
- Battery charger XBC1X-2X due to CER 0-C-03-2730, water overflowed and wetted internals (fire zone IB-25.1.2).

b. Findings

Negative corrective action observations regarding CER 0-C-03-2730 are documented in Section 40A2 of this report. No other findings of significance were identified.

2 \* Annual Fire Drill Inspection

a. Inspection Scope

The inspectors observed performance of the licensee's annual fire drill that used offsite assistance on September 13, 2003, to evaluate the coordination efforts between onsite and offsite personnel. The fire drill scenario involved a simulated fire due to small plane crashing into the Auxiliary Transformer and turbine building. This drill met the requirements of Emergency Plan Procedure (EP)-100, "Radiation Emergency Plan," Section 8.1.2.b, Fire Emergency Drill.

The inspectors evaluated the readiness of the licensee's personnel to prevent and fight fires including the following aspects:

- Observe whether protective clothing and self-contained breathing apparatus (SCBA) equipment were properly worn;
- Determine whether fire hose lines were properly laid out and nozzle pattern simulated being tested prior to entering the fire area of concern;
- Verify that the fire area was entered in a controlled manner;
- Review if sufficient firefighting equipment was brought to the scene by the fire brigade to properly perform their firefighting duties;
- Verify that the fire brigade leader's fire fighting directions were thorough, clear and effective, and coordinated with offsite fire team assistance;
- Verify that radio communications with plant operators and between fire brigade members were efficient and effective;
- Confirm that fire brigade members checked for fire victims and fire propagation into other plant areas;
- Observe if effective smoke removal operations were simulated;
- Verify that the fire fighting pre-plans were properly utilized and were effective;
- Verify that the licensee pre-planned drill scenario was followed and the drill objectives met the acceptance criteria, and deficiencies were captured in post drill critiques.

The inspectors attended the drill critique to ensure that the licensee addressed all observed areas for improvement. Items noted following the drill were captured in CER 0-C-03-2996 in accordance with Fire Protection Procedure (FPP)-026, "Fire / Hazmat Response."

Documents used to conduct this inspection included:

- Virgil C. Summer FPP-026, Attachment 1, "Drill Planning Guide," Drill Scenario Number 31;
- Fire Protection Pre-Plan for Transformer Area (fire zone TA, 436' elevation);
- FPP-026, "Fire / Hazmat Response;"
- Virgil C. Summer Nuclear Station Critique for Annual Offsite Drill conducted on September 13, 2003 and CER 0-C-03-2996, Recommendations from Annual Fire Drill with Offsite Assistance;
- CER 0-C-03-2866, two SCE&G fire brigade members exhibited symptoms of heat exhaustion during fire drill conducted 9/13/03;
- NRC Inspection Procedure 71111.05, "Fire Protection."

b. Findings

No findings of significance were identified.

1R06 Flood Protection Measures

a. Inspection Scope

The inspectors reviewed and walked down two areas regarding internal flood protection features and equipment to determine consistency with design requirements, FSAR and flood analysis documents. Walkdowns were conducted of residual heat removal (RHR), reactor building spray rooms, and all three charging pumps (CCP) rooms to evaluate flooding vulnerabilities. The inspectors also reviewed room sump pump calculations, penetrations, internal flooding water barrier requirements and CCP room sump pump capacities to verify compliance with calculated flood platform heights. Specific procedures and documents reviewed are listed in the Attachment to this report.

b. Findings

No findings of significance were identified.

1R07 Heat Sink Performance

Closeout of URI 50-395/03-03-03, "Failure to Confirm Heat Transfer Capabilities of Component Cooling Heat Exchangers (CCHXs)," is documented in Sections 4OA5.2 and 4OA7.1 of this report.