

30-424/425

**Southern Nuclear Operating Company, Inc.**

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*Energy to Serve Your World<sup>SM</sup>*

August 10, 2001

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

NOG- 01173

VOGTLE ELECTRIC GENERATING PLANT  
EMERGENCY PLAN IMPLEMENTING PROCEDURE REVISION

Gentlemen:

In accordance with 10 CFR 50.4, as required by 10 CFR 50, Appendix E, Part V, Southern Nuclear hereby submits the following revision(s) to the Vogtle Emergency Plan Implementing Procedure(s):

<u>Procedure</u>	<u>Revision</u>	<u>Effective Date</u>
91601-C	15	07/30/01
91602-C	14	07/30/01
91706-C	10	07/30/01

By copy of this letter, the NRC Region II Administrator and the Site NRC Senior Resident Inspector will receive one copy each of the revision(s).

Please contact Angel Cardona at (706) 826-3114 if you have questions.

Sincerely,

Jeffrey T. Gasser  
General Manager

JTG:AEC:rpb

Enclosure: Emergency Plan Implementing Procedure(s)

A045

U. S. Nuclear Regulatory Commission

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Submittal No. EP-2001-14

The documents described below are being submitted to you for storage. Documents which contain a Safety Evaluation (Part B) are indicated by a mark in the SE column.

[illegible]

Remarks: None


Submitted By:

08/02/2001  
Date

Received By: (Document Control)

Date \_\_\_\_\_

**Figure 2 (Example)**

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Date Approved <b>07/30/2001</b>	<b>EMERGENCY PREPAREDNESS TRAINING</b>	Page Number <b>1 of 12</b>	

## REFERENCE USE PROCEDURE

## PRB REVIEW REQUIRED

### 1.0 PURPOSE

The purpose of this procedure is to specify the training development, training requirements and the periodic retraining of all personnel assigned to the Emergency Response Organization (ERO), including offsite emergency response personnel who may support an emergency at Vogtle Electric Generating Plant (VEGP).

### 2.0 DEFINITIONS

#### 2.1 ANNIVERSARY MONTH

The month one year after an individual completed training or the end of the training period for those individuals who completed ERO training in a continuing training program. Training related qualifications will normally be considered expired the last day of the anniversary month.

#### 2.2 SEMI-ANNUALLY

Semi-annual means once in the first six months and once in the second six months of each calendar year.

#### 2.3 CALENDAR YEAR


Calendar year is January 1<sup>st</sup> through December 31<sup>st</sup>. Training related qualifications will normally be considered expired the last day of December.

#### 2.4 TRIENNIAL ANNIVERSARY MONTH

The month three years after an individual completed training or the end of the training period for those individuals who completed ERO training in a continuing training program. Training related qualifications will normally be considered expired the last day of the triennial anniversary month.

### 3.0 RESPONSIBILITIES

3.1 The Emergency Preparedness Coordinator (EPC) is responsible for ensuring that all emergency preparedness training is conducted and for coordinating training for offsite ERO Agencies (i.e. offsite licensee and offsite support agencies).

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**3.2** The Training and Emergency Preparedness Manager is responsible for the following:

**3.2.1** Developing, scheduling, and conducting training for onsite ERO personnel in accordance with the training matrix presented in Table 1.

**3.2.2** Developing, scheduling, and conducting fire training for onsite fire brigade personnel.

**3.2.3** Developing, scheduling, and conducting specialized emergency preparedness training for selected security officers.

**3.2.4** Conducting Multi-Media First Aid Training, or its equivalent.

**3.2.5** Scheduling and training non-licensed augmentation personnel (e.g. contractors, health physicists, vendors, etc.).

**3.2.6** Extending individuals training related qualifications into a minimal grace period not to exceed 15 months from last training date. This applies to those training requirements listed in Table 1 excluding PASS, First Aid and SAMG retraining.

#### **4.0 PREREQUISITES**

None

#### **5.0 PRECAUTIONS**

**5.1** Lesson plans should be developed in conformance with applicable VEGP training policies and procedures.

#### **6.0 PROCEDURE**

##### **6.1 VEGP GENERAL EMPLOYEE TRAINING (GET)**


**6.1.1** All badged VEGP employees will be required to demonstrate a working knowledge of applicable emergency response procedures. Associated instruction will be provided as a part of implementation of Procedure 00700-C, "General Employee Training (GET)", and will include the following topics:


**6.1.1.1** Emergency classifications.


**6.1.1.2** Emergency warning signals.

**6.1.1.3** Assembly and accountability.

**6.1.1.4** Site evacuation.

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6.1.1.5	Radiation exposure control, monitoring, and decontamination.		
6.1.1.6	Individual response.		
<b>6.2</b>	<b>VEGP EMERGENCY RESPONSE ORGANIZATION TRAINING</b>		
6.2.1	Personnel assigned to the ERO shall receive training specific to their assignments. Training categories required for emergency personnel are detailed in Table 1, while training subjects are described in Table 2.		
6.2.2	Written lesson plans shall be maintained for all courses described in Table 2 except Multimedia First Aid. Written exams and hands-on equipment or procedure demonstrations may be used to establish trainee proficiency. Walk-through drills with on-the-spot correction of erroneous performance will be incorporated when appropriate. When applicable, industry emergency experience (e.g., lessons learned at TMI-2) shall be included in the instructional materials.		
6.2.3	The training shall be provided initially to personnel assigned to the ERO, and no later than the anniversary month thereafter. Anniversary month retraining consists of initial training material reinforcement and appropriate lessons learned from the previous year's operating experience. Lessons learned that are distributed by other methods may not be included in anniversary month retraining. Additionally, the training shall be conducted whenever necessitated by significant revisions to the VEGP Emergency Plan, procedures or emergency equipment. Training will be provided as often as necessary to ensure that an adequate number of qualified personnel are available to staff the ERO at all times.		
6.2.4	The - Nuclear Plant General Manager may receive credit for Management of Radiological Emergencies (MRE) retraining by participating in an integrated drill or exercise.		
6.2.5	Personnel responsible for operating the Post Accident Sampling System (PASS) shall be trained on PASS semi-annually. PASS Supervision will receive anniversary month retraining.		
6.2.6	In addition to that specified in the Emergency Plan training matrix (Table 1), the following training shall be provided:		
6.2.6.1	The Fire Brigade will receive specialized training in accordance with Procedure 00705-C, "Fire Protection Training Program".		
6.2.6.2	The First Aid Team (both members), and Search and Rescue Team (one member) shall receive the Multi-Media First Aid course, or equivalent within their triennial anniversary month.		
6.2.6.3	Selected security officers shall receive specialized emergency preparedness training (e.g., Security Supervisor, Alarm Station Operators).		

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6.2.7	<p>Designees for positions in the Emergency Response Organization will be selected commensurate with normal duty managerial, supervisory and/or technical skills. The EPC will provide the appropriate Training Supervisor with a list of all ERO designees. The appropriate Training Supervisor will schedule such designees for required training in accordance with the Emergency Plan training matrix (Table 1). A list of all onsite ERO qualified personnel is maintained on a Training Qualification Database. This database has the ability to be reviewed by all plant staff. An unqualified ERO report will be published monthly and distributed to plant management.</p>		
6.2.8	<p>Select ERO personnel, (Emergency Director, Technical Support Center (TSC) Manager, TSC Operations Supervisor and TSC Engineering Supervisor), will receive Severe Accident Management Guidelines (SAMGs) training in accordance with procedure 60613-C, "Control and Use of Severe Accident Management Guidelines (SAMG)".</p>		
6.3	<b>OFFSITE EMERGENCY RESPONSE ORGANIZATION TRAINING</b>		
6.3.1	<p>The EPC shall assure that special training is available to members of the Offsite ERO who may enter the site to provide emergency support to VEGP. Training in site emergency response for Offsite ERO personnel shall include the following:</p>		
6.3.1.1	Procedures for notification.		
6.3.1.2	Expected emergency roles.		
6.3.1.3	Basic radiation protection procedures.		
6.3.1.4	Site orientation.		
6.3.1.5	Security procedures.		
6.3.2	<p>The EPC shall offer initial training to offsite ERO agencies (fire/rescue, ambulance, etc.). Retraining shall be offered each calendar year thereafter. This retraining is normally performed prior to the annual exercise. This training will be coordinated through, and presented by, the responsible onsite training agency (HP/Chem Training, Security Training Staff, Fire Training, etc.). When local agencies are a part of a mutual aid pact, the EPC shall offer the training to members of the pact to ensure thorough coverage.</p>		

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6.3.3 Selected state and local emergency response management personnel with offsite emergency response roles will be offered a seminar/training course in specific areas:

- a. The VEGP emergency classification system.
- b. The VEGP protective action recommendation criteria and their relationship to plant conditions.
- c. The VEGP emergency response organization.

6.3.3.1 These offsite management personnel will be offered initial training and retraining each calendar year thereafter. Coordination with offsite authorities during these training sessions will include planning for participation in VEGP emergency exercises.

#### **6.4 MEDIA TRAINING**

Georgia Power Company's Public Information Department is responsible for news media training as described in the Emergency Communication Plan, Appendix 8 to VEGP Emergency Plan.

#### **6.5 QUALIFICATION CRITERIA**

6.5.1 Qualification for members of the ERO shall be based on the completion of all required training in accordance with Table 1.


6.5.2 Instructor qualifications for emergency preparedness training shall be completed according to Procedure 60100-C, "Training Department Training And Qualification Procedure".

6.5.3 Student performance criteria shall be established for emergency preparedness courses, and included in the written lesson plans. Written examinations shall be based on the student performance criteria. In the instance where an individual does not receive a passing grade on a written examination or does not perform adequately during a hands-on, walk-through drill, the student shall receive additional instruction until the student performs satisfactorily, or is relieved of ERO assignments.

#### **6.6 DOCUMENTATION**

6.6.1 All emergency preparedness training shall be documented. The Supervisor of HP/Chem Training shall maintain the training program for the onsite ERO.



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6.6.2 Training records shall include the following:

6.6.2.1 Written lesson plans, including visual aid packages and student handouts.

6.6.2.2 Attendance lists.

6.6.2.3 Examination records and test scores for emergency personnel.

6.6.3 Training records for courses conducted for the offsite ERO shall include:

6.6.3.1 Written lesson plans or course/lesson outlines.

6.6.3.2 Attendance lists.

6.6.4 Training records for onsite ERO members shall be maintained for the life of the plant.  
Training records for offsite ERO members shall be maintained for 5 years.

## 7.0 REFERENCES

7.1 **VEGP EMERGENCY PLAN, Section O and Appendix 8**

## 7.2 **PROCEDURES**

7.2.1 60100-C, "Training Department Training And Qualification Procedures"

7.2.2 00700-C, "General Employee Training"

7.2.3 00705-C, "Fire Protection Training Program"

7.2.4 60613-C, "Control and Use of Severe Accident Management Guidelines (SAMG)".

7.3 NUREG-0654, FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plan and Preparedness in Support of Nuclear Power Plants".

**END OF PROCEDURE TEXT**

TABLE 1  
TRAINING REQUIREMENTS FOR VEGP ERO PERSONNEL

NOTE:

a – General Office Staff excepted

b – Included in General Employee Training (GET)

c – Required by only one team member


	CORE DAMAGE ASSESSMENT	OFFSITE COMMUNICATION	EMERGENCY PLAN OVERVIEW (b)	FIRST AID	MANAGEMENT OF RAD. EMERGENCIES	OFFSITE DOSE ASSESSMENT	PASS	REPAIR AND CORRECTIVE ACTIONS	FIELD MONITORING TEAM	RAD EMERGENCY TEAM IN-PLANT	SECURITY	MEDICAL SUPPORT OF RAD EMERGENCY	SCBA	RECALL AND ACCOUNTABILITY	RESPIRATORY PROTECTION	SAMG IMPLEMENTOR	SAMG EVALUATOR/DECISION MAKER	FIELD MONITORING TEAM COMM.	ENS OFFSITE COMMUNICATION	COMMENTS
Emergency Director			X		X								X <sup>(a)</sup>				X			
EOF Manager			X		X															
EOF Support Coordinator		X	X																	
Dose Assessment Manager			X			X														
Dose Analyst			X			X														
Security Coordinators			X								X									
TSC Manager			X		X												X			
TSC Support Coordinator		X	X																	
Engineering Supervisor	X		X														X			
Reactor Engineers	X		X																	
Maintenance Supervisor			X					X												
Operations Supervisor			X		X												X			
Health Physics Supervisor			X			X				X		X								
Chemistry Supervisor			X				X													
OSC Manager			X		X			X												
ENN Communicators		X	X																	
ENS Communicators			X																X	
TSC Engineering Staff			X																	
Alarm Station Operators			X											X						

TABLE 1 (Cont'd)  
TRAINING REQUIREMENTS FOR VEGP ERO PERSONNEL

NOTE:

- a – General Office Staff excepted
- b – Included in General Employee Training (GET)
- c – Required by only one team member

	CORE DAMAGE ASSESMENT	OFFSITE COMMUNICAITON	EMERGENCY PLAN OVERVIEW (b)	FIRST AID	MANAGEMENT OF RAD. EMERGENCIES	OFFSITE DOSE ASSESMENT	PASS	REPAIR AND CORRECTIVE ACTION	FIELD MONITORING TEAM	RAD EMERGENCY TEAM IN-PLANT	SECURITY	MEDICAL SUPPORT OF RAD EMERGENCY	SCBA	RECALL AND ACCOUNTABILITY	RESPIRATORY PROTECTION	SAMG IMPLEMENTOR	SAMG EVALUATOR/DECISION MAKER	FIELD MONITORING TEAM COMM.	COMMENTS
Clerks/Support Staff			X																
In-Plant Monitoring			X							X			X						
Damage Control/ Assessment			X					X					X						
Repair and Modification			X					X					X						
Search and Rescue (c)			X	X									X						
Fire Brigade			X										X						Training provided per 00705-C
First-Aid			X	X								X	X						
Field Monitoring			X						X						X				
Dosimetry			X																
Health Physics Technicians			X	X						X		X	X						
Field Monitoring Team Comm.			X															X	
Post Accident Sampling			X				X						X						
Other ERO Personnel			X																
Senior Reactor Operators			X		X								X			X			
Reactor Operators			X										X			X			


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**TABLE 2**

**TRAINING COURSE DESCRIPTIONS**

<u><b>Training Course</b></u>	<u><b>Description</b></u>
Core Damage Assessment	This course covers the calculation methodology for assessing core damage and estimating potential source terms. It includes retrieval of pertinent plant parameter data from the control room; core inventory determinations based on reactor power history; estimating cladding and/or fuel damage; and resultant activity released to the containment atmosphere.
Offsite Communications	This course covers operation of communications equipment in the ERFs, communications methods, and procedures for notification of offsite emergency response agencies.
Emergency Plan Overview (a)	The course covers an overview of the Emergency Plan with special attention to emergency planning zones (EPZs); emergency classification system; onsite emergency response organizations; responsibilities of emergency response personnel; and site accountability and evacuation.
First-Aid	This course covers standard Red Cross multi-media first aid, or equivalent.
Management of Radiological Emergencies	This course covers classification of emergencies; emergency notification of onsite and offsite emergency response personnel and agencies; activation and staffing of emergency response facilities; core damage assessment; protective action recommendation decision-making based on EPA PAGs; retrieval of available Integrated Plant computer (IPC) data; re-entry and repair operations; communications and information management; and recovery.


(a) EPO is included in G.E.T. badge training for all unescorted personnel.

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**TABLE 2 (Cont'd.)**

**TRAINING COURSE DESCRIPTIONS**


<b>Training Course</b>	<b>Description</b>
Offsite Dose Assessment	This course covers dose projection methodology including computerized methods; retrieval of IPC data; methods for obtaining meteorological data; operation of the dose assessment computer; and interpretation of offsite dose calculation results.
Post-Accident Sampling	This course covers collection of samples from the RCS and containment atmosphere under emergency conditions; measuring radionuclide and selected chemical concentrations in those samples; operation of the post-accident sampling system (PASS); and interpretation of PASS results. PASS training for the TSC Chemistry Supervisor will address general concepts appropriate to PASS Supervision.
Repair and Corrective Actions	This course covers As Low As Reasonably Achievable (ALARA) principles as they apply to planning and implementing repair and corrective action; emergency exposure guidelines; and communications during repair and corrective actions.
Field Monitoring Team	This course covers field measurement of airborne radioactivity; radiation levels and contamination in the EPZ; collecting environmental samples; map reading; record keeping and radio communications.
Field Monitoring Team Communicator	This course covers the specific procedural requirements for briefing, dispatching, documenting and supervising of field monitoring teams. Training is also provided to insure the FMT communicator employs proper three-way communication with the Dose Assessment Manager and/or the Dose Analyst in reference to the information gathered by the field monitoring teams

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**TABLE 2 (Cont'd.)**

**TRAINING COURSE DESCRIPTIONS**

<b>Training Course</b>	<b>Description</b>
In-Plant Monitoring Team	This course covers methods for performing in-plant radiation, contamination and airborne radioactivity surveys under emergency conditions; search and rescue of missing personnel; managing health physics activities at evacuation assembly areas and relocation centers; and communications for the above activities.
Security	This course covers emergency response activities of the security department including personnel accountability; traffic control; communications; access control to emergency response facilities.
Respiratory Protection	This course covers the hazards of airborne radioactive contamination and the means by which these hazards may be reduced.
Medical Support of Radiation Emergencies	This course covers the responsibilities and methods for handling exposed and/or contaminated injuries. It includes interfacing with onsite and/or offsite ambulance crews; health physics activities for transporting a contaminated injury patient to the hospital; monitoring and decontamination while at the hospital; and final disposition of the ambulance, ambulance crew, hospital staff, and radiation emergency area (REA) at the hospital.
SCBA	This course covers the use of a self-contained breathing apparatus, including equipment description; proper donning and use; and inspection and actions in case of equipment failure.
Recall and Accountability	This course covers the use of the emergency recall system, which includes equipment description, use, and proper conditions for use. Training is also provided on use of the site siren and the methods used to conduct accountability.

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**TABLE 2 (Cont'd.)**

**TRAINING COURSE DESCRIPTIONS**

<b>Training Course</b>	<b>Description</b>
SAMG Decision Maker/Evaluator	This course covers the usage and application of the SAMGs, which includes the philosophy of maintaining a high-level, big picture perspective. Training is also provided on diagnosing conditions that require entry into specific guidelines, evaluating the positive and negative impacts of strategies presented in certain guidelines, responding to severe challenges, interpreting the response of plant parameters following strategy implementation, assessing the effectiveness of implementing strategies and determining whether additional mitigation is needed and using computational aids.
SAMG Implementor	This course covers the usage and application of two SAMGs; Severe Accident Control Room Guidelines-1 & 2. This includes guidelines to mitigate fast acting transients that proceed to core damage.
ENS Offsite Communications	This course covers operation of communication equipment in the ERFs, communications methods, and procedures for notification of the Nuclear Regulatory Commission.

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**Figure 2 (Example)**



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## REFERENCE USE PROCEDURE


## PRB REVIEW REQUIRED

### 1.0 PURPOSE

- 1.1 The purpose of this procedure is to provide guidance and instructions for developing, conducting, evaluating and documenting emergency preparedness drills and exercises.
- 1.2 This procedure includes provisions to exercise both onsite and offsite emergency response personnel, equipment, communications and procedures including the interface with federal, state, and county agencies.
- 1.3 The result of implementing this procedure will be to verify the adequacy of the Vogtle Electric Generating Plant (VEGP) Emergency Plan and Emergency Plan Implementing Procedures and the overall effectiveness of the onsite and offsite Emergency Response Organization (ERO).

### 2.0 RESPONSIBILITIES

- 2.1 The Emergency Preparedness Coordinator (EPC) shall have the following responsibilities:
  - 2.1.1 Coordinating the planning and scheduling of drills and biennial exercises, and ensuring that this will fulfill the requirements of 10CFR50, Appendix E and the Emergency Plan.
  - 2.1.2 With the assistance of state/county emergency planning personnel, developing the objectives to be met for each exercise, including mutually agreeable dates and times.
  - 2.1.3 Developing scenarios for drills and biennial exercises.
  - 2.1.4 Coordinating scenario development with state and local agencies.
  - 2.1.5 Arranging for official observers to observe, evaluate and critique the drills and biennial exercises and for coordinating the critiques.
  - 2.1.6 Ensuring that identified critique items are addressed and corrective actions planned with deadlines for completion.
  - 2.1.7 Monitor the status of completion of corrective actions. Significant problems shall be brought to the attention of appropriate plant management.

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2.1.8 Maintaining records of all drills and exercises.

2.1.9 Submitting scope, objectives and scenario to NRC for biennial exercises.

2.1.10 Conducting periodic drills or tabletop scenarios to exercise the plant staff on Severe Accident Management Guidelines (SAMG).

### 3.0 **PRECAUTIONS**

Drills and exercises shall be conducted in such a manner that the safety of the plant and personnel are not jeopardized.

### 4.0 **PROCEDURE**

#### 4.1 **DRILLS/EXERCISES**

##### 4.1.1 Scheduling

4.1.1.1 Drills/Exercises listed on Checklist 1 will be conducted at the periodicity specified. Additional drills/exercises may be conducted as deemed appropriate by the Training and Emergency Preparedness Manager.

4.1.1.2 NRC and FEMA evaluated emergency exercises that test integrated response capabilities are conducted in accordance with NRC and FEMA directives. Vogtle will conduct an exercise every two calendar years.


4.1.1.3 The scope and objectives of the biennial exercise will be submitted to the NRC (75) days prior to the exercise date.

4.1.1.4 During a six-year period, an exercise shall be conducted which starts between 6:00 P.M. and 4:00 A.M.


4.1.1.5 Some drills/exercises will be unannounced.

##### 4.1.2 Scenarios

4.1.2.1 The EPC is responsible for preparing the scenario for the biennial exercise as directed by the Training and Emergency Preparedness Manager.

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- 4.1.2.2 The scenario for the biennial exercise will be submitted to the NRC (45) days prior to the exercise date.
- 4.1.2.3 Drill/Exercise scenarios should be developed using Checklist 2 as a guide. Many parts of Checklist 2 are inappropriate for small scale drills and may be omitted at the discretion of the EPC.
- 4.1.2.4 The scenario shall be varied from year to year so that all major elements of the response plans and preparedness organizations are tested within a six year period.
- 4.1.2.5 An Exercise Coordinator, with the assistance of representatives of state and county organizations (as appropriate), shall develop the objectives to be met for each drill or exercise.
- 4.1.2.6 The Exercise Coordinator, with the cooperation of the state representatives, shall ensure that the simulated events and site initial conditions are developed in a manner that will adequately test the level of emergency preparedness of the groups participating in the exercise. FEMA will receive a copy of the scenario from the participating states.
- 4.1.2.7 The EPC shall assign controllers/evaluators to areas based on their skills and knowledge.
- 4.1.2.8 The EPC shall ensure that approval has been obtained from the Nuclear Plant General Manager and any other appropriate plant management prior to conducting a drill/exercise (see Data Sheet 2).
- 4.1.2.9 A pre-drill/exercise briefing shall be conducted to inform controllers/evaluators of the scenario, objectives, which portions of the scenario require strong control, and which portions of the scenario permit free play. Appropriate materials to conduct and evaluate the drill shall be distributed during the briefing.
- 4.1.2.10 As drills are a supervised instruction period, controllers/evaluators may assist and correct players during a drill.
- 4.1.2.11 During an exercise, Controllers/Evaluators should not provide guidance regarding the use of emergency procedures and equipment, unless the conduct of the exercise or safe operation of the plant would be jeopardized. Any such guidance will be made a critique item.

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4.1.3 A critique will be conducted following each drill/exercise which includes players and controllers/evaluators. Players and controllers/evaluators are encouraged to identify areas where improvements are required.

4.1.4 The EPC shall submit a written report of drills and exercises to the Nuclear Plant General Manager or Plant Support Assistant General Manager which will include significant critique comments and corrective actions which will be tracked through the condition reporting tracking program. (See Data Sheet 3)

4.1.5 The EPC shall maintain a record of all drills for a period of 2 years and biennial exercises for 5 years.

## 4.2 OFF YEAR DRILLS

4.2.1 Off Year Drills shall be conducted to ensure that adequate response capabilities are maintained in the interval between biennial exercises. At least one of these drills will be conducted during the calendar year when there is no biennial exercise and shall involve a combination of some of the principal functional areas of the onsite emergency response capabilities.

4.2.2 The principal functional areas include the following activities:

4.2.2.1 Command and control of emergency response


4.2.2.2 Accident assessment

4.2.2.3 Protective action decision making

4.2.2.4 Plant system repair and corrective actions


4.2.3 Activation of all onsite emergency response facilities (TSC, OSC, and EOF) are not required.

4.2.4 The States of Georgia and South Carolina including the Counties of Burke, Aiken, Allendale and Barnwell will be permitted to participate in off year drills when requested by the State or County Government.

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### **4.3 COMMUNICATION DRILLS**

- 4.3.1 The EPC should develop, conduct, and document communications drills in accordance with the guidelines in Section 4.1 as appropriate.
- 4.3.2 Communications Drills shall make use of the actual message format.
- 4.3.3 Communication drills among the following shall be conducted every two-calendar years (usually during the biennial exercise):
- a. Control Room (normally conducted from the Simulator)
  - b. Technical Support Center (TSC)
  - c. Operations Support Center (OSC)
  - d. Emergency Operations Facility (EOF)
  - e. Emergency News Center (ENC)
  - f. Corporate Emergency Operations Center (CEOC)
  - g. State of Georgia (Georgia Emergency Management Agency)
  - h. Burke County
  - i. Savannah River Site (SRS)
  - j. VEGP Field Monitoring Teams
  - k. State of South Carolina
  - l. Aiken County
  - m. Barnwell County
  - n. Allendale County
  - o. VEGP Radiological Emergency Teams


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#### **4.4 MEDICAL EMERGENCY DRILLS**

- 4.4.1 The EPC should coordinate with the Safety and Health representative to assure that medical emergency drills are developed, conducted and documented per Section 4.1 as appropriate.
- 4.4.2 A medical emergency drill shall be conducted each calendar year (annually) with one or more of the offsite support organizations listed below:
- a. Burke County Ambulance Service
  - b. Burke County Hospital and/or Doctors Hospital
- 4.4.3 The annual medical emergency drill shall involve treatment of a simulated contaminated person, transport by ambulance or other appropriate means, and arrival and treatment at the hospital, per Procedure 91307-C, "Contaminated Injury".
- 4.4.4 The annual medical drill may be held in conjunction with the biennial exercise.

#### **4.5 RADIOLOGICAL MONITORING/HEALTH PHYSICS (HP) DRILLS**

- 4.5.1 The EPC shall develop, conduct and document radiological monitoring and HP drills in accordance with Section 4.1 as appropriate.
- 4.5.2 Plant environs and radiological monitoring drills shall be conducted for VEGP each calendar year (annually). For these drills, a team is dispatched with a controller to obtain the required measurements or samples. The drill controller will evaluate the proper use of survey instruments, record keeping, communications and the collection of sample media (soil, air, water, and vegetation) as appropriate, per Procedures 91302-C, "In-Plant Sampling And Surveys" and 91303-C, "Field Sampling And Surveys". The use of sample techniques, survey techniques, monitoring methods, decontamination methods, protective clothing, respirators and exposure control considerations will be demonstrated as appropriate. (Field Monitoring teams will not wear protective clothing.) The annual plant environs and radiological monitoring drill may be performed in conjunction with one of the semi-annual Health Physics drills.

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4.5.3 The use of the Post-Accident Sampling System (PASS) under simulated accident conditions will be demonstrated each calendar year. The PASS analysis may be performed using the installed in-line instruments or using laboratory equipment to demonstrate the methods employed under actual accident condition. Messages will be used to simulate high radiation levels.

4.5.4 Semi-annual HP drills shall be conducted to test response to and analysis of simulated airborne and liquid samples and radiation in the environment. The drill may include the actual use of protective equipment. Semi-annual HP drills may be conducted in conjunction with the biennial exercise or radiological monitoring drills.

#### **4.6 ASSEMBLY AND ACCOUNTABILITY DRILLS**

4.6.1 The EPC should develop, conduct and document assembly and accountability drills in accordance with the guidelines in Section 4.1 as appropriate.

4.6.2 An assembly and accountability drill shall be conducted each calendar year (annually) to test the response of plant personnel and to maintain their awareness of their responsibilities. Personnel in the protected area shall actually perform assembly unless otherwise directed by plant management.


4.6.3 The annual assembly and accountability drill may be held in conjunction with the biennial exercise.

#### **4.7 SAMG (TABLETOP) DRILLS**

4.7.1 A SAMG tabletop drill will normally be conducted once each calendar year. The tabletop drill will not normally be a part of or associated with the normal emergency drills or exercises.

4.7.2 A SAMG tabletop drill may be used when a new guideline has been developed or when major revisions have been made to guidelines.


4.7.3 Decision makers and evaluators, per procedure 60613-C, may receive retraining by participating in a SAMG tabletop drill.

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## **5.0 EVALUATION OF THE BIENNIAL EXERCISE**

- 5.1** Following the biennial exercise, critiques shall be conducted by VEGP Controllers/Evaluators as follows:
  - 5.1.1** The lead controller/evaluator of each major facility (EOF, TSC & OSC) will conduct a facility critique with players and controllers/evaluators. Players are encouraged to submit written comments and evaluations in addition to verbal comments. Lead Controllers/evaluators are required to submit written evaluations.
  - 5.1.2** Following the facility critique, controllers/evaluators and key players are invited to an overall exercise critique.
- 5.2** A written report with critique results and action items shall be prepared by the EPC and submitted to the Nuclear Plant General Manager.
  - 5.2.1** Appropriate departments are responsible for implementing corrective actions approved by the Nuclear Plant General Manager.
  - 5.2.2** The EPC is responsible for ensuring that Emergency Plan Implementing Procedures are revised as necessary, as a result of critique items identified by the exercise.
  - 5.2.3** If resulting changes to the procedures warrant retraining of emergency personnel, such training shall be scheduled and conducted, per Procedure 91601-C, "Emergency Preparedness Training".
  - 5.2.4** If changes to the procedures impact the interface with offsite agencies, or result in necessary changes to plans and/or procedures of offsite agencies, those items of impact will be documented and the changes sent to the offsite agencies by the Training and Emergency Preparedness Manager.



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## **6.0      REFERENCES**

### **6.1      VEGP EMERGENCY PLAN**

### **6.2      PROCEDURES**

6.2.1      00051-C,      "Procedures Review And Approval"

6.2.2      00150-C,      "Condition Reporting and Tracking System"

6.2.3      60613-C,      "Control and Use of Severe Accident Management Guidelines (SAMG)"

6.2.4      91302-C,      "In-Plant Sampling And Surveys"

6.2.5      91303-C,      "Field Sampling And Surveys"

6.2.6      91304-C,      "Estimating Offsite Dose"

6.2.7      91307-C,      "Contaminated Injury"

6.2.8      91601-C,      "Emergency Preparedness Training"

6.2.9      91701-C,      "Preparation And Control Of Emergency Planning Documents"

6.2.10      92000-C,      "Fire Protection Program"


**6.3      NUREG-0654, FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants"**

**6.4      10CFR50.48, "Fire Protection"**

**6.5      10CFR50, Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities"**

**6.6      NRC Letter, Docket Nos. 50-424 and 50-425, License Nos. NPF-68 and NPF-61 "Submission of Emergency Preparedness Exercise Scope, Objectives and Scenarios"**

**END OF PROCEDURE TEXT**

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## CHECKLIST 1

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### DRILL/EXERCISE FREQUENCIES

#### 1. SEMI-ANNUALLY


- Health Physics drill.

#### 2. CALENDAR YEAR (ANNUALLY)

- Off year drill (perform during year when there is no biennial exercise).
- Medical emergency drill.
- Radiological monitoring drill.
- Post-accident sampling system drill.
- Assembly and accountability drill.
- SAMG table top drill

#### 3. BIENNIAL (EVERY TWO YEARS)

- Communications between VEGP, federal, state and county Emergency Response Organizations, and emergency teams.
- Emergency exercise.

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## CHECKLIST 2

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### DRILL/EXERCISE SCENARIO FORMAT

1. The following format may be used by the Drill or Exercise Preparer.
2. The first page of the drill/exercise package should be a Title Page containing the following information:

#### VOGTLE ELECTRIC GENERATING PLANT

Emergency Preparedness

Drill/Exercise

(Title)


(Date)

3. Page number 2 of the package should be a "Table of Contents" similar in design to the following outline:

#### Sections:

- I Introduction
- II Objectives and Extent of Play
- III Guidelines
  - A. \*\*Safety Precautions
  - B. \*\*Controller/Evaluator Instruction
  - C. \*\*Performance Evaluation Standards
  - D. Controller Assignments

\*\*Information in Controller Handbook

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## CHECKLIST 2

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### DRILL/EXERCISE SCENARIO FORMAT

#### IV Scenario

##### A. Initial Conditions

1. Plant Status
2. Meteorological Conditions

##### B. Narrative Summary

##### C. Major Sequence of Events

#### V Data

##### A. Messages

##### B. Plant Parameters

##### C. In-plant Chemistry

##### D. In-plant Health Physics


##### E. PERMS

##### F. Meteorological

##### G. Dose Assessment

##### H. Offsite Plume Maps & Data

4. Introduction - This section contains the schedule, a list of participants, controller assignments and the extent of the drill or exercise.


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## CHECKLIST 2

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### DRILL/EXERCISE SCENARIO FORMAT

5. Objectives and Extent of Play - This section shall clearly state, in detail, the objectives that the drill/exercise package was designed to evaluate. In addition, areas of simulation will be defined and the extent to which elements will be demonstrated.
  
6. Guidelines - Includes those items that provide guidance to the participants, Controllers and Evaluators throughout the performance of the drill. This section is broken down into several subsections.
  - a. Safety Precautions - General and detailed precautions necessary to prevent jeopardizing plant and personnel safety.
  
  - b. Controller/Evaluator Instruction - Those information items that the Controllers and Evaluators need to be aware of to perform their function.
  
  - c. Performance Evaluation Standards - To ensure validity of the evaluation, all drill Controllers must utilize the same grading criteria. The following standards should be utilized:
    - (1) Recording Times of Actions
      - (a) An Emergency Response Facility will be deemed to be in service when its personnel accountability check is completed and reported or when the facility manager declares that the facility is functional.
  
      - (b) Controllers shall use the forms provided during the course of the drill to take notes of the time and events. It is intended to be used to complement the Evaluation Forms used to grade the exercise.
  
    - (2) Evaluation Standards
      - (a) Excellent - Personnel and equipment always functioned without error the first time, every time. There were no problems encountered and all personnel and equipment functioned at a level much greater than could reasonably be anticipated.


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## CHECKLIST 2

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### DRILL/EXERCISE SCENARIO FORMAT

- (b) Good - Personnel and equipment generally performed better than expected. Any errors or problems were minor and easily correctable.
- (c) Satisfactory - Personnel and equipment performed according to expectations with few minor exceptions. Any errors noted were not severe and could be corrected without undue labor or expense.
- (d) Poor - Personnel and equipment generally performed below expectations and there were several significant deficiencies noted. The area's ability to carry out its functions was diminished.
- (e) Failure - Personnel and equipment consistently failed to perform as required and there were serious deficiencies noted which severely impaired the ability of the Emergency Response Facility (ERF) to carry out its functions.
- (f) Not Observed - Through no fault of the exercise.
- (3) Categories for Evaluation
  - (a) Activation and Response
  - (b) Communications/Dissemination of Information
  - (c) Procedures
  - (d) Direction and Control
  - (e) Material and Equipment
  - (f) Protective Measures
  - (g) Access Control


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## CHECKLIST 2

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### DRILL/EXERCISE SCENARIO FORMAT

7. Exercise Scenario - An outline of the sequence of drill events.
  - a. Initial Conditions - Those parameters and plant conditions necessary to be established to set the stage to commence the drill or exercise.
  - b. Meteorological Condition - Those meteorological parameters necessary to establish the initial conditions for the drill or exercise radiation release.
  - c. Narrative Summary - A brief narrative description of the drill/exercise sequence of events.
  - d. Major Sequence of Events - A timetable detailing when major drill/exercise events will occur.
8. Data
  - a. Messages Summary (optional) - a multi-column format which provides scenario time, page/message number, a summary of the message, anticipated response of the players and any instructions to the Controller.
  - b. Messages - Document used to transmit parameters and plant conditions to the participants of the drill/exercise. The Message (Data Sheet 1) should be given to the participant. The time block shall be the drill time or condition under which the message should be issued. The message should contain in chronological sequence the events, changes in parameters, indications or actions that the participant shall observe, hear, smell, feel or experience and then respond to.
  - c. Plant Data - This section shall include supportive tables of applicable plant data for various times throughout the drill/exercise. (When the simulator is used, a simulator script will be substituted for the plant data.)
  - d. Radiological Data - This section shall include offsite plume maps and data, in-plant radiological conditions and maps and tables of applicable radiation monitor readings.
  - e. Meteorological Data - This section shall contain meteorological conditions for the drill/exercise.

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**DATA SHEET 1**

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**SAMPLE MESSAGE FORM**

DRILL/EXERCISE TITLE \_\_\_\_\_

TO: \_\_\_\_\_ TIME: \_\_\_\_\_

MESSAGE: \_\_\_\_\_

\*\*\*\*\*

**THIS IS A DRILL**

**DO NOT initiate actions affecting normal plant operations.**

\*\*\*\*\*

\*\*\*\*\*

**THIS IS A DRILL**


\*\*\*\*\*

**EXPECTED ACTIONS:**

**CONTROLLER PROMPTS (IF NECESSARY):**

Page No. \_\_\_\_



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**DATA SHEET 2**

**Sheet 1 of 2**

**DRILL/EXERCISE APPROVAL REQUEST**


DATE \_\_\_\_\_

**From:** Emergency Preparedness Coordinator \_\_\_\_\_

**via** Training & Emergency Preparedness Manager \_\_\_\_\_

**To:** Nuclear Plant General Manager

1. Request your approval to conduct an  
☐ Emergency Drill      ☐ Emergency Exercise      ☐ Test    as follows:  
 Date \_\_\_\_\_ Start Time \_\_\_\_\_ Duration \_\_\_\_\_
2. Drill/Exercise date and time confidential?      ☐ Yes      ☐ No
3. Type of Drill  
☐ Full Scale Exercise  
     ☐ NRC Evaluated  
     ☐ FEMA Evaluated  
☐ On-Site Facility Activation  
☐ Classification & Notification  
☐ Recall  
     ☐ Drill  
     ☐ Test  
☐ Health Physics  
☐ Notification  
☐ Medical/Contaminated Injured  
☐ Assembly and Accountability  
☐ SAMG Table Top  
☐ Other \_\_\_\_\_
4. Anticipated Classification Levels  
☐ NOUE      ☐ GENERAL EMERGENCY  
☐ ALERT      ☐ Not Applicable  
☐ SITE AREA EMERGENCY
5. On-Site Participation  
☐ Control Room      ☐ Security  
☐ Simulator      ☐ General Office Operations Center  
☐ TSC      ☐ Public Info    ☐ EOF    ☐ ENC    ☐ GPC Atlanta  
☐ OSC      ☐ Other \_\_\_\_\_  
☐ EOF  
☐ NONE

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**DATA SHEET 2**

**Sheet 2 of 2**

**DRILL/EXERCISE APPROVAL REQUEST**

6. Off-Site Participation:      ☐ NONE      ☐ Communications Only

- |   |                                       |   |                                       |                              |
|---|---------------------------------------|---|---------------------------------------|------------------------------|
| <input type="checkbox"/> GEMA             | <input type="checkbox"/> EOC          | <input type="checkbox"/> FEOC             | <input type="checkbox"/> Field Teams  | <input type="checkbox"/> EOF |
| <input type="checkbox"/> S. Carolina      | <input type="checkbox"/> EOC          | <input type="checkbox"/> FEOC             | <input type="checkbox"/> Field Teams  | <input type="checkbox"/> EOF |
| <input type="checkbox"/> Burke County     | <input type="checkbox"/> EOC          | <input type="checkbox"/> Ambulance        | <input type="checkbox"/> Fire Support |                              |
| <input type="checkbox"/> SRS              | <input type="checkbox"/> EOC          | <input type="checkbox"/> Field Teams      | <input type="checkbox"/> EOF          |                              |
| <input type="checkbox"/> Aiken County     | <input type="checkbox"/> EOC          |   |                                       |                              |
| <input type="checkbox"/> Allendale County | <input type="checkbox"/> EOC          |   |                                       |                              |
| <input type="checkbox"/> Barnwell County  | <input type="checkbox"/> EOC          |   |                                       |                              |
| <input type="checkbox"/> Hospital         | <input type="checkbox"/> Burke County | <input type="checkbox"/> Doctors Hospital |                                       |                              |

☐ NRC

☐ Other \_\_\_\_\_

7. Radiological      ☐ NONE

- ☐ Off-Site Release
- ☐ On-Site High Radiation
- ☐ Dose Projection and Field Monitoring
- ☐ PASS Sampling

8. Objectives:      Attached/See Below

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

Submitted: \_\_\_\_\_

Emergency Preparedness Coordinator      Date

\_\_\_\_\_

Training & Emergency Preparedness Manager      Date


Approved: \_\_\_\_\_

Nuclear Plant General Manager      Date

\_\_\_\_\_

\*Verbal Approval Obtained      Date

\* Verbal approval may be obtained for minor drills.

Approved By <b>J.T. Gasser</b>	<b>Vogtle Electric Generating Plant</b> 	Procedure Number <b>91602-C</b>	Rev <b>14</b>
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**DATA SHEET 3**

**Sheet 1 of 1**

**SAMPLE DRILL/EXERCISE REPORT**

**From:**

\_\_\_\_\_  
Emergency Preparedness Coordinator

\_\_\_\_\_  
Date

\_\_\_\_\_  
Training and Emergency Preparedness Manager

\_\_\_\_\_  
Date

**To:**

Nuclear Plant General Manager

1. An Emergency Drill/Exercise was conducted on \_\_\_\_\_  
Date
2. The results of the critique, recommended corrective actions, and responsibility for corrective actions are attached for your approval.

**NOTE**

[Format for Critique Items]

**Item #**

Critique Item:

Corrective Action:

Responsibility:

Due Date:

A/I# \_\_\_\_\_

**From:**

Nuclear Plant General Manager

3. The results of the critique have been reviewed and corrective action recommendations are approved.

\_\_\_\_\_  
Nuclear Plant General Manager

\_\_\_\_\_  
Date

**SOUTHERN  
COMPANY**  
*Energy to Serve Your World*

Submittal No. EP-2001-14

The documents described below are being submitted to you for storage. Documents which contain a Safety Evaluation (Part B) are indicated by a mark in the SE column.

[illegible]

Remarks: None


Submitted By:

08/02/2001  
Date

Received By: (Document Control)

Date \_\_\_\_\_

### Figure 2 (Example)

Approved By <b>J.T. Gasser</b>	<b>Vogtle Electric Generating Plant</b> 	Procedure Number <b>91706-C</b>	Rev <b>10</b>
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## REFERENCE USE PROCEDURE

## PRB REVIEW REQUIRED

### 1.0 PURPOSE

This procedure provides instructions for:

- a. The distribution and maintenance of the National Oceanic and Atmospheric Administration (NOAA) tone alert radio receivers;
- b. The public education and information program for the populace within the 10-mile Emergency Planning Zone (EPZ);
- c. The offsite public alerting siren program;
- d. Criteria used to determine significant loss of offsite public notification capability.

### 2.0 RESPONSIBILITIES

2.1 The Emergency Preparedness Coordinator (EPC) is responsible for:

2.1.1 Administration of the NOAA tone alert radio system program.

2.1.2 Reviewing and forwarding "Special Needs Card(s)" to the Burke County Emergency Management Agency (EMA).

2.1.3 Administration of the offsite public alerting siren program.

2.2 The Director Corporate Communications of Georgia Power Company (GPC) has accepted responsibility for:


2.2.1 The content of public information brochures, calendars and other printed material distributed to the public.

2.2.2 The distribution of brochures, calendars and other written material describing the Public Notification Program.

2.2.3 The posting and maintenance of signs used in the transient notification program.

2.2.4 The distribution and maintenance of the NOAA tone alert radio receivers.

2.2.5 Reporting public health and safety issues to the Vogtle Electric Generating Plant (VEGP) Emergency Preparedness Coordinator. This tasking is intended to address issues resulting from changes in population distribution or in industrial, military, or transportation hazards that could arise near the VEGP.

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**2.3** The Information Resources Product Manager has accepted responsibility for maintenance of the offsite public alerting sirens, NOAA tone alert radio transmitter and the communications path from NOAA Columbia, S.C. to the VEGP transmitter.

**3.0** **PREREQUISITES**

NONE

**4.0** **PRECAUTIONS**

NONE

**5.0** **PROCEDURE**

**5.1** **DISTRIBUTION OF TONE ALERT RADIOS TO RESIDENTS IN BURKE COUNTY WITHIN THE 10- MILE EPZ**


**5.1.1** The SNC Emergency Communications Staff offers tone alert radios with instructions and brochures to all residents/business establishments within the 10-mile EPZ including South Carolina and maintains records of the radios issued.

**5.1.2** Planters Electric Membership Corporation (EMC) has agreed to provide information monthly to SNC's Emergency Communications Staff concerning persons requesting electric service within the 10-mile EPZ.

**5.1.3** The SNC Emergency Communications Staff will use the EMC information provided together with knowledge of its own electrical hook-ups in the VEGP 10-mile EPZ, to identify new residents and business establishments.

**5.1.4** Annually the SNC Emergency Communications Staff contacts the Manager of Creek Plantation and the Owner/Representative of Cawden Plantation located in South Carolina to determine if there are any new residents that need tone alert radios.

**5.1.5** New residents identified from the information provided by Planters EMC along with the Georgia Power Company requests for electrical service start-up records and the South Carolina plantations are offered tone alert radios with instructions and brochures within ninety (90) days.

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## **5.2 NOTIFICATION PROGRAM REGARDING PERMANENT RESIDENTS WITHOUT ELECTRICITY IN BURKE COUNTY WITHIN 10-MILE EPZ**

5.2.1 Annually, SNC's Emergency Communications Staff determines if there are any permanent residents within the Burke County portion of the 10-mile EPZ without electricity.

5.2.2 The SNC Emergency Communications Staff maintains a current list of these residents and provides a copy to the Burke County EMA Director.

5.2.3 Notification of residents without electricity will be accomplished by the activation of the offsite public alerting sirens and/or by the Burke County EMA Director.

## **5.3 NOTIFICATION PROGRAM FOR TRANSIENTS**


### **NOTE**

Individuals within the EPZ that are not permanent residents are considered transients. Permanent residents are persons who will reside in one location for greater than 90 days.

5.3.1 The Director of Corporate Communications has accepted responsibility for implementing the transient notification program which consists of the following:

5.3.1.1 Placing signs and/or brochures providing instructions at the following locations within the 10-mile plume exposure EPZ:

- a. Boat landings along the Savannah River
- b. Public recreation areas
- c. Churches
- d. VEGP offsite siren poles
- e. Hunting clubs
- f. Creek and Cawden Plantations

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- g. Commercial establishments (i.e., motels, restaurants, gas stations)
- h. VEGP Visitors Center
- i. Thomson and Burke County Office of the Farm Service Agency

5.3.1.2 A list of locations where signs are located is maintained. These locations are checked annually and replacement signs provided as necessary.


5.3.1.3 A brochure will be made available to businesses with offices outside the 10-mile EPZ (such as timber and railroad companies) who own or lease property within the 10-mile EPZ. This brochure is for distribution to their employees who may enter the EPZ on company business.

#### **5.4 MAINTENANCE OF THE TONE ALERT RADIO PROGRAM**

5.4.1 All holders of NOAA tone alert radios shall receive a packet of information annually from Georgia Power Company Corporate Communications containing the following:

- a. New battery for back up power and replacement instructions.
- b. Questions and Answers About Your Plant Vogtle/NOAA Weather Radio to include:
  - 1. How can your NOAA weather radio be of help to you?
  - 2. How can the weather radio warn you?
  - 3. Who will send the message?
  - 4. Where is the best place to put your radio?
  - 5. How can you know if your weather radio is working?
  - 6. How often are the radios tested?
  - 7. What can you do if your weather radio is not working right?
  - 8. What if your weather radio still does not work, as it should?



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5.4.2 The NOAA tone alert radios are normally tested by NOAA weekly (weather dependent) and annually during the annual test of the alert notification system (Section 5.7).

5.4.3 NOAA tone alert radios reported defective will be replaced as soon as practical after the SNC Emergency Communications Staff have been notified.

5.4.4 An annual inventory of tone alert radios ready for distribution will be conducted by the SNC Emergency Communications Staff.

## 5.5 MAINTENANCE OF THE OFFSITE PUBLIC ALERTING SIREN PROGRAM

5.5.1 The Information Resources Product Manager shall ensure that the required maintenance per Procedure 70201-C, "Emergency Alert Siren Performance Test" is performed.

5.5.2 The offsite public alerting sirens will be operational tested at least annually. This test will consist of the activation and sounding of all sirens simultaneously for at least three (3) minutes.

5.5.3 The offsite public alerting siren system is operated in accordance with procedures issued by Burke County EMA and Barnwell County EMA .

## 5.6 CRITERIA TO DETERMINE SIGNIFICANT LOSS OF OFFSITE PUBLIC NOTIFICATION CAPABILITY

5.6.1 The following situations require a report to the NRC within eight hours in accordance with 10 CFR 50.72 because of a significant loss of offsite public notification capability.


### NOTE

An offsite public alerting siren is **considered operable** when:

- (1) It is capable of being activated from the Emergency Operations Facility (EOF) or the applicable county control station,
- (2) Siren operates at greater than 90% of the design audio output and
- (3) Battery voltage greater than or equal to 22 Volts DC.

5.6.1.1 Loss of twenty-five (25) or more offsite public alerting sirens.

5.6.1.2 Loss of twelve (12) offsite public alerting sirens AND the loss of NOAA tone alert radio activation capability because of loss of transmitters or control of transmitters by NOAA.

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## **5.7 ANNUAL TEST OF THE ALERT NOTIFICATION SYSTEM**

5.7.1 The alert notification system, consisting of the offsite public alerting sirens and the NOAA tone alert receivers, will be operationally tested annually. This test may be performed during the biennial/off year emergency exercise/drill.

5.7.1.1 The offsite public alerting sirens will be activated in the Alert mode for at least three (3) minutes.

5.7.1.2 The NOAA tone alert radios will be activated at the direction of the state of Georgia or South Carolina at about the same time as the siren test.

5.7.2 The test will be conducted jointly by VEGP; Burke County EMA and Barnwell County EMA. The public will receive advance notification of the tests. Reports of siren or radio failures or inadequate coverage will be investigated by the EPC.

5.7.3 Activation and proper operation of the sirens will be verified by the Whelen Central Control Station.

5.7.4 One of the following methods will be used to evaluate the effectiveness of the annual alert notification system test.


5.7.4.1 Telephone survey of residents within the 10-mile EPZ.

5.7.4.2 Mail survey of residents within the 10-mile EPZ.

5.7.4.3 The survey questionnaires shall be structured such that a determination can be made as to the effectiveness of the alerting signals and the coverage of the sirens.

## **5.8 MONITORING CHANGES TO THE ENVIRONS WITHIN THE VEGP 10- MILE EPZ**

5.8.1 The SNC Communications Staff shall monitor changes to the environs within the VEGP 10-mile EPZ in conjunction with distribution of tone alert radios and the transient notification program.

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- 5.8.1.1 This monitoring program shall focus on:
- a. Significant changes to population distribution.
  - b. Industrial, military or transportation hazards.
  - c. New business (motels, stores, nursing homes, etc.)
  - d. Any other changes that may affect the public health and safety as related to the operations of VEGP.

5.8.2 The SNC Emergency Communications Staff shall report any major changes to the VEGP Emergency Preparedness Coordinator as they are discovered. All significant changes will be summarized annually with the transient sign report.

5.8.3 The Emergency Preparedness Coordinator shall consult with Savannah River Site emergency personnel annually to determine if there are any increased hazards to VEGP from the operation of the Savannah River Site.

## **6.0 REFERENCES**

### **6.1 VEGP EMERGENCY PLAN**

6.2 Procedure 70201-C, "Emergency Alert Siren Performance Test"

6.3 10CFR50.72(b)(3)(xiii), "Immediate Notification Requirements for Operating Nuclear Power Reactors"

**END OF PROCEDURE TEXT**