

**Southern Nuclear Operating Company, Inc.**

Vogtle Electric Generating Plant  
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September 6, 2000

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

NOG- 01162

**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>
91305-C	16	08/23/00
91101-C	16	08/23/00
91105-C	12	08/23/00
91110-C	15	08/23/00

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,

A handwritten signature in black ink that reads "Jeffrey T. Gasser".

Jeffrey T. Gasser  
General Manager

JTG:AEC:jmm

Enclosure: Emergency Plan Implementing Procedure(s)

A045

U. S. Nuclear Regulatory Commission  
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Approved By <b>P.D. Rushton</b>	<b>Vogle Electric Generating Plant</b> 	Procedure Number <b>91305-C</b>	Rev <b>16</b>
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**PRB REVIEW REQUIRED**

**1.0**      **PURPOSE**

The purpose of this procedure is to provide instruction(s) for protective action(s) and the factors to be considered in selection of an appropriate measure.

**2.0**      **RESPONSIBILITY**

**2.1**      The Emergency Director (ED) shall be responsible for implementing onsite protective actions throughout the emergency. He shall also be responsible for offsite protective action recommendations (PAR) to the States. This responsibility shall not be delegated.

**2.2**      The Health Physics (HP) Supervisor (HP Foreman if TSC is not activated) shall be responsible for evaluating the radiological situation onsite and for recommending onsite protective actions to the ED. The HP Supervisor shall also have responsibility for making offsite dose estimates and recommending offsite protective actions to the ED until relieved of that responsibility by the Dose Assessment Manager.

**2.3**      The Dose Assessment Manager shall be responsible for making offsite dose estimates and recommending offsite protective actions to the ED.

**3.0**      **PREREQUISITES**

A Notification of Unusual Event, Alert, Site Area Emergency, or General Emergency has been declared in accordance with Procedure 91001-C, "Emergency Classification and Implementing Instructions".

**4.0**      **PRECAUTIONS**

**4.1**      The offsite protective actions determined by this procedure shall be presented to appropriate State personnel as recommendations. Only the States are authorized to implement offsite protective actions.

**4.2**      Protective Action recommendations shall be made on the basis of plant conditions and/or dose assessment results. If a General Emergency is declared, protective action recommendations shall be made during initial notification based on plant conditions and in accordance with guidelines of Table 1. Dose assessment results should be used to refine protective action recommendations (but not reduce) after adequate data becomes available.

**4.3**      Protective action guidelines shall not imply an acceptable dose under any circumstances.

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**4.4** Weather conditions and weather forecasts will be considered by the States and Counties in their decisions regarding implementation of Vogtle Electric Generating Plant (VEGP) recommended protective actions. Weather should therefore not influence VEGP protective action recommendation for the public except for changes in plume trajectory.

**4.4.1** Utilize forecast changes in wind direction in the determination of expected changes in plume trajectory. Areas for which protective actions are recommended may be expanded using simple manual rotation of the plume footprint.

**4.5** At times, selection of protective actions must be considered on the basis of an expected degradation of plant systems and equipment prior to the release of radioactivity.

**5.0** **PROCEDURE**

**5.1** **ONSITE PROTECTIVE ACTIONS**

**NOTE**

Direct radiation monitoring, contamination control, personnel dosimetry and other onsite protective measures shall be conducted in accordance with Health Physics Procedure 00930-C, "Radiation And Contamination Control", unless directed otherwise by the HP Supervisor.

**5.1.1** The HP Supervisor shall prepare appropriate radiological assessments. Based on these assessments, he shall recommend onsite protective actions to the ED using the following criteria:

**5.1.1.1** Evacuation or early dismissal of non-essential personnel shall be mandatory for a Site Area Emergency or a General Emergency. For an Alert classification, an Early Dismissal of all non-essential personnel is normally conducted. An evacuation to a relocation center may be ordered at the Alert classification if the monitoring and possible decontamination of evacuees is required.

**5.1.1.2** Additionally the HP Supervisor shall:

**5.1.1.2.1** Make thyroid dose estimates for workers entering airborne radioactivity areas and shall recommend the use of potassium iodide (KI) as a thyroid blocking agent to the ED when thyroid doses are projected, or have been estimated, to be equal to or above 25 rem.

**5.1.1.2.2** Direct radiological survey personnel (In-Plant Monitoring Teams for CR, TSC, PESB, and OSC, habitability personnel performing habitability surveys for EOF) to issue KI to those individuals who are candidates for KI based on criteria in 5.1.1.2.1. Ensure those personnel actually exposed to 25 rem or greater receive 130 mg daily of KI for at least 3 days.

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5.1.1.2.3  5.1.1.2.4  5.1.1.3  5.1.2  5.1.3  5.1.3.1  5.1.3.2  5.1.3.3  5.1.3.4  5.1.3.5  <b>5.2</b>  5.2.1  5.2.2  5.2.3  5.2.4	<p>Obtain completed KI Distribution Checklist (Checklist 1) from the radiological survey personnel.</p> <p>Consult with candidate's supervisor for replacement of candidates who have reported a KI sensitivity, or who have received the maximum (10) dosages allowed.</p> <p>The use of additional dosimetry, respiratory protection and protective clothing shall be recommended by the HP Supervisor on the basis of criteria in Procedures 91301-C, "Emergency Exposure Guidelines" and 00920-C, "Radiation Exposure Limits And Administrative Guidelines".</p> <p>The ED shall be responsible for implementing onsite protective actions per Procedure 91102-C, "Duties Of The Emergency Director", and Procedure 91403-C, "Site Evacuation", after consultation with the HP Supervisor.</p> <p>Radiological survey personnel directed to issue KI shall:</p> <p>Obtain KI from the CR/TSC, OSC, or EOF emergency kits.</p> <p>Obtain the name(s) or location(s) of personnel who are to be issued KI.</p> <p>Obtain sufficient copies of the KI Distribution Checklist (Checklist 1).</p> <p>Follow the instructions on the KI Distribution Checklist (Checklist 1).</p> <p>Report to the HP Supervisor or his designee after completion of KI distribution.</p> <p><b>OFFSITE PROTECTIVE ACTIONS</b></p> <p>If a General Emergency has been declared, offsite protective action recommendations shall be made based on plant conditions (see Table 1). Dose assessment results may increase the recommended protective action, but should not decrease the initial General Emergency protective action recommendations.</p> <p>The Dose Assessment Manager shall prepare appropriate radiological assessments as described in Procedure 91304-C, "Estimating Offsite Dose".</p> <p>The Dose Assessment Manager, in consultation with the HP Supervisor, shall review plant status and estimate the potential for a release or, if a release is occurring, for changes in the release rate.</p> <p>The Dose Assessment Manager shall update and refine dose estimates for critical receptor site locations per Procedure 91304-C, "Estimating Offsite Dose" approximately every 15 to 30 minutes, or upon significant changes, in one or more of the following parameters:</p>	

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- 5.2.4.1 Release rates.
- 5.2.4.2 Duration of the releases.
- 5.2.4.3 Isotopic mixture of the release (varies as a function of effective age).
- 5.2.4.4 Meteorological conditions.
- 5.2.5 In addition, he shall make dose projections for potential releases or potential increases in release rates.
- 5.2.6 The Dose Assessment Manager shall compare the plant condition and dose estimates with the Guidelines for Recommended Protective Actions for Gaseous Plume Exposure in Table 1.
- 5.2.7 If offsite doses exceed the action thresholds, then evacuation shall be recommended. Evacuations will require approximately 2.5 to 3 h for completion.
- 5.2.8 If offsite doses do not exceed the action threshold, or if local constraints prevent evacuation, sheltering may be prescribed by the states or counties together with the following actions:
  - 5.2.8.1 Remain indoors.
  - 5.2.8.2 Close windows.
  - 5.2.8.3 Turn off ventilation system.
  - 5.2.8.4 Seal cracks in doors, windows, or walls with wet material (paper, cloth, etc.).
- 5.2.9 Protective action recommendations shall be made in accordance with Table 1. Zones should be used when making recommendations. Savannah River Site (SRS) is one big zone. Use miles when referencing the SRS zone. (i.e., evacuate out to 5 miles in SRS).
- 5.2.10 After the plume has passed, it may still be advisable to consider the possibility of evacuation if high dose rates due to ground deposition are possible. Dose rates due to deposited radioactivity shall be determined using sampling information obtained per Procedure 91302-C, "In-Plant Sampling And Surveys" and Procedure 91303-C, "Field Sampling And Surveys".
- 5.2.11 The ED shall make offsite protective action recommendations to offsite authorities in accordance with Procedure 91102-C, "Duties Of The Emergency Director", after consultation with the Dose Assessment Manager.

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**6.0**      **REFERENCES**

**6.1**      **VEGP EMERGENCY PLAN**

**6.2**      **PROCEDURES**

6.2.1      00920-C, "Radiation Exposure Limits And Administrative Guidelines"

6.2.2      91001-C, "Emergency Classification And Implementing Instructions"

6.2.3      91102-C, "Duties Of The Emergency Director"

6.2.4      91301-C, "Emergency Exposure Guidelines"

6.2.5      91302-C, "In-Plant Sampling And Surveys"

6.2.6      91303-C, "Field Sampling And Surveys"

6.2.7      91304-C, "Estimating Offsite Dose"

6.2.8      91403-C, "Site Evacuation"

**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**      Manual of Protective Action Guides and Protective Actions For Nuclear Incidents, EPA-400-R-92-001, Environmental Protection Agency, Office of Radiation Programs, October 1991.

**END OF PROCEDURE TEXT**



**TABLE 1**

**GUIDELINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR  
GASEOUS PLUME EXPOSURE**

**NON-ESSENTIAL STATION PERSONNEL AND GENERAL POPULATION**

**NOTE**

Affected zones (Data Sheets 1 and 2 ) are the direct downwind zone and each adjacent zone.

**CONDITION**

**RECOMMENDED ACTION**

**PAR 1.**

A General Emergency has been declared.

Evacuate 2 miles in all directions and 5 miles downwind. Shelter the remainder of the 10 mile EPZ. Use Data Sheet 1 to identify affected zones for Georgia and South Carolina. Savannah River Site is a zone. (Figure 1 - 10 mile EPZ map may be used as a reference)

**PAR 2.**

A General Emergency has been declared with:

- large amounts of fission products or noble gases are in the containment atmosphere (RE-0005/0006 reading  $>1.0E+8$  mrem/hr

Evacuate 5 miles in all directions and 10 miles downwind. Shelter the remainder of the 10 mile EPZ. Use Data Sheet 2 to identify affected zones for Georgia and South Carolina. Savannah River Site is a zone. (Figure 1 - 10 mile EPZ map may be used as a reference).

OR

- severe core damage has occurred (or is likely) and containment failure has occurred (or is judged imminent).



**TABLE 1 (Cont'd.)**

**GUIDELINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR  
GASEOUS PLUME EXPOSURE**

**NON-ESSENTIAL STATION PERSONNEL AND GENERAL POPULATION**

**CONDITION**

**RECOMMENDED ACTION**

**PAR 3.**

An actual release has occurred or is imminent and the projected dose to individuals in the population (outside the site boundary) is calculated to be:

- a. Total Effective Dose Equivalent Equal to or Greater than 1 rem

OR

- b. Committed Dose Equivalent for Thyroid Equal to or Greater than 5 rem

General Emergency should be declared in accordance with 91001-C, "Emergency Classification And Implementing Instructions". Use Data Sheet 2 to identify the affected zones for Georgia and South Carolina. Savannah River Site is a zone. (Figure 1 - 10 mile EPZ map may be used as a reference).



**TABLE 1 (Cont'd.)**

**GUIDELINES FOR RECOMMENDED PROTECTIVE ACTIONS FOR  
GASEOUS PLUME EXPOSURE**

**EMERGENCY TEAM PERSONNEL**

**PAR 4**

An actual release has occurred or is imminent and the projected dose to Emergency Team workers is calculated to be:

Issue potassium iodide.

- a. Committed Dose Equivalent of 25 rem to the thyroid

**PAR 5**

An actual release has occurred or is imminent and the projected dose to Emergency Team workers is calculated to be:

Evacuate personnel unless emergency exposure is authorized per Procedure 91301-C "Emergency Exposure Guidelines".

- a. Total Effective Dose Equivalent of 5 rem

OR

- b. Committed Dose Equivalent of 50 rem to the thyroid or other organs

OR

- c. Shallow Dose Equivalent of 50 rem to the skin



**DATA SHEET 1  
AFFECTED ZONES FOR PROTECTIVE ACTION RECOMMENDATIONS**

**PAR 1**

<b>WIND DIRECTION FROM</b>	<b>EVACUATE ZONES</b>	<b>SHELTER ZONES</b>
11.25 - 33.75	A, B-5, C-5, SRS to 2 Miles	Remainder of 10 mile EPZ
33.75 - 56.25	A, B-5, C-5, D-5, SRS to 2 Miles	Remainder of 10 mile EPZ
56.25 - 78.75	A, C-5, D-5, E-5, SRS to 2 Miles	Remainder of 10 mile EPZ
78.75 - 101.25	A, C-5, D-5, E-5, F-5, SRS to 2 Miles	Remainder of 10 mile EPZ
101.25 - 123.75	A, D-5, E-5, F-5, SRS to 2 Miles	Remainder of 10 mile EPZ
123.75 - 146.25	A, D-5, E-5, F-5, SRS to 2 Miles	Remainder of 10 mile EPZ
146.25 - 168.75	A, E-5, F-5, SRS to 5 Miles	Remainder of 10 mile EPZ
168.75 - 191.25	A, F-5, SRS to 5 Miles	Remainder of 10 mile EPZ
191.25 - 213.75	A, F-5, SRS to 5 Miles	Remainder of 10 mile EPZ
213.75 - 236.25	A, SRS to 5 Miles	Remainder of 10 mile EPZ
236.25 - 258.75	A, SRS to 5 Miles	Remainder of 10 mile EPZ
258.75 - 281.25	A, B-5, SRS to 5 Miles	Remainder of 10 mile EPZ
281.25 - 303.75	A, B-5, SRS to 5 Miles	Remainder of 10 mile EPZ
303.75 - 326.25	A, B-5, SRS to 5 Miles	Remainder of 10 mile EPZ
326.25 - 348.75	A, B-5, SRS to 2 Miles	Remainder of 10 mile EPZ
348.75 - 11.25	A, B-5, C-5, SRS to 2 Miles	Remainder of 10 mile EPZ



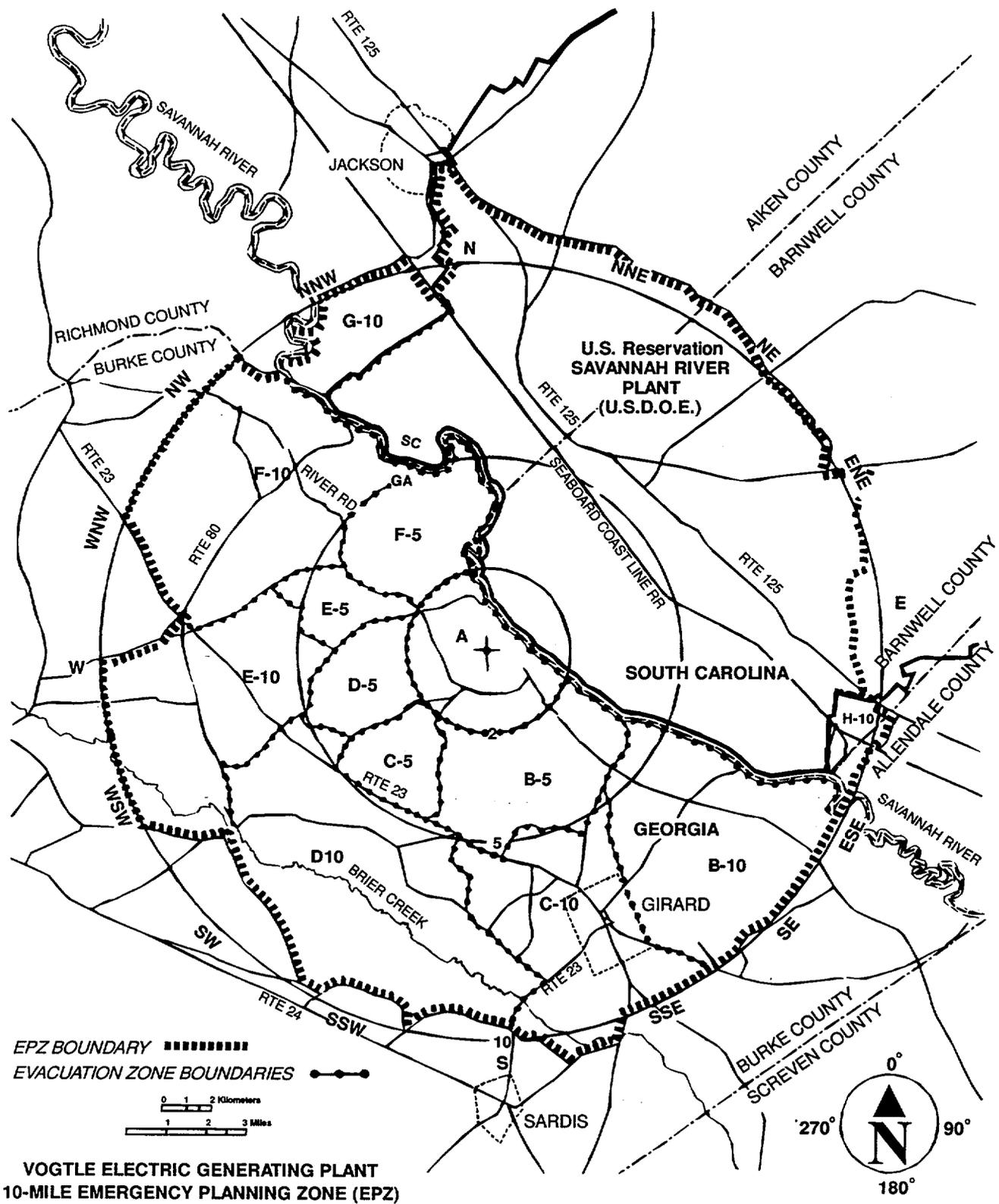
**PROTECTIVE ACTION GUIDELINES**

**DATA SHEET 2**

**AFFECTED ZONES FOR PROTECTIVE ACTION RECOMMENDATIONS**

**PAR 2 & 3**

<b>WIND DIRECTION FROM</b>	<b>EVACUATE ZONES</b>	<b>SHELTER ZONES</b>
11.25 - 33.75	A, B-5, C-5, D-5, E-5, F-5, C-10, D-10, SRS to 5 Miles	Remainder of 10 mile EPZ
33.75 - 56.25	A, B-5, C-5, D-5, E-5, F-5, C-10, D-10, E-10, SRS to 5 Miles	Remainder of 10 mile EPZ
56.25 - 78.75	A, B-5, C-5, D-5, E-5, F-5, D-10, E-10, F-10, SRS to 5 Miles	Remainder of 10 mile EPZ
78.75 - 101.25	A, B-5, C-5, D-5, E-5, F-5, D-10, E-10, F-10, SRS to 5 Miles	Remainder of 10 mile EPZ
101.25 - 123.75	A, B-5, C-5, D-5, E-5, F-5, E-10, F-10, G-10, SRS to 5 Miles	Remainder of 10 mile EPZ
123.75 - 146.25	A, B-5, C-5, D-5, E-5, F-5, E-10, F-10, G-10, SRS to 10 Miles	Remainder of 10 mile EPZ
146.25 - 168.75	A, B-5, C-5, D-5, E-5, F-5, F-10, G-10, SRS to 10 Miles	Remainder of 10 mile EPZ
168.75 - 191.25	A, B-5, C-5, D-5, E-5, F-5, F-10, G-10, SRS to 10 Miles	Remainder of 10 mile EPZ
191.25 - 213.75	A, B-5, C-5, D-5, E-5, F-5, G-10, SRS to 10 Miles	Remainder of 10 mile EPZ
213.75 - 236.25	A, B-5, C-5, D-5, E-5, F-5, SRS to 10 Miles	Remainder of 10 mile EPZ
236.25 - 258.75	A, B-5, C-5, D-5, E-5, F-5, H-10, SRS to 10 Miles	Remainder of 10 mile EPZ
258.75 - 281.25	A, B-5, C-5, D-5, E-5, F-5, B-10, H-10, SRS to 10 Miles	Remainder of 10 mile EPZ
281.25 - 303.75	A, B-5, C-5, D-5, E-5, F-5, B-10, C-10, H-10, SRS to 10 Miles	Remainder of 10 mile EPZ
303.75 - 326.25	A, B-5, C-5, D-5, E-5, F-5, B-10, C-10, H-10, SRS to 10 Miles	Remainder of 10 mile EPZ
326.25 - 348.75	A, B-5, C-5, D-5, E-5, F-5, B-10, C-10, D-10, SRS to 5 Miles	Remainder of 10 mile EPZ
348.75 - 11.25	A, B-5, C-5, D-5, E-5, F-5, B-10, C-10, D-10, SRS to 5 Miles	Remainder of 10 mile EPZ





**CHECKLIST 1**  
**KI DISTRIBUTION CHECKLIST**

Prior to issuing KI, ask the candidate the following:

1. Name \_\_\_\_\_  
SS No. \_\_\_\_\_ or TLD No. \_\_\_\_\_

**CAUTION**

*DO NOT ISSUE KI to candidate if response to questions 2, 3, or 4 is "yes".  
Call HP Supervisor and report candidate's name, situation, and await  
further instructions.*

2. Do you have a known allergic reaction or sensitivity to KI?  
Yes \_\_\_\_\_ Go to Step 6.  
No \_\_\_\_\_ Go to Step 3.
3. Have you received KI in the past 24 hours?  
Yes \_\_\_\_\_ Go to Step 6.  
No \_\_\_\_\_ Go to Step 4.
4. Have you received KI for 10 or more days?  
Yes \_\_\_\_\_ Go to Step 6.  
No \_\_\_\_\_ Go to Step 5.

**NOTE**

The Field Monitoring Team Kits contain bottles of KI tablets. The FMT members are to take the prescribed amount issued by this checklist, from the kits, when directed by the Emergency Director.

5. Issue ONE 130 mg dose of KI and have candidate sign Step 7.
6. KI not to be issued because of:  
\_\_\_\_\_ Allergy/sensitivity to KI.  
\_\_\_\_\_ Received KI within last 24 hours.  
\_\_\_\_\_ Received KI for 10 or more days.

Approved By  
**P.D. Rushton**

**Vogle Electric Generating Plant**



Procedure Number Rev  
**91305-C 16**

Date Approved  
**08/23/2000**

**PROTECTIVE ACTION GUIDELINES**

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**Sheet 2 of 2**

**CHECKLIST 1**  
**KI DISTRIBUTION CHECKLIST CON'T**

7. I have been issued ONE 130 mg dose of KI and will take it when directed by the Emergency Director or his designee.

\_\_\_\_\_  
Candidate's Signature                      Date                      Time

8. Issuing individual:

\_\_\_\_\_  
Name                      Date                      Time

9. Submit completed checklist to HP Supervisor or designee.



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**REFERENCE USE PROCEDURE**

**PRB REVIEW REQUIRED**

**1.0 PURPOSE**

**1.1** The purpose of this procedure is to identify those positions which comprise the Vogtle Electric Generating Plant (VEGP) Emergency Response Organization (ERO), to assign responsibilities, to develop the concept of operations and to identify the interfaces among various VEGP groups and offsite emergency groups.

**1.2** This procedure also describes the process for transferring command responsibility and providing for proper turnover of responsibilities when emergency personnel are relieved.

**2.0 RESPONSIBILITIES**

**2.1** The Emergency Director (ED) shall be responsible for activating the VEGP ERO to the extent required for each emergency classification level.

**2.2** Members of the VEGP ERO shall be responsible for ensuring that an adequate briefing is accomplished prior to being relieved of emergency duties.

**3.0 PREREQUISITES**

An incident has occurred and has been classified per Procedure 91001-C, "Emergency Classification And Implementing Instructions", which requires activation of the ERO.

**3.1 NOTIFICATION OF UNUSUAL EVENT**

On-Shift personnel (Figure 1)

**3.2 ALERT**

**3.2.1** Initially, On-Shift personnel (Figure 1)

**3.2.2** Subsequently, Control Room (CR), Technical Support Center (TSC) and Operations Support Center (OSC) (Figure 2)

**3.2.3** The Emergency Operations Facility (EOF) is brought to standby status.

**3.3 SITE AREA EMERGENCY AND GENERAL EMERGENCY**

**3.3.1** Initially, On-Shift personnel (Figure 1)

**3.3.2** Subsequently, the CR, TSC, OSC and EOF (Figure 3)

**4.0      PRECAUTIONS**

**5.0      PROCEDURE**

**5.1      EMERGENCY RESPONSE ORGANIZATION - ON-SHIFT**

5.1.1      Figure 1 illustrates the on-shift Emergency Response Organization. Prior to activation of the VEGP emergency response facilities, the ED should direct the necessary assessment, corrective and protective actions from the CR.

5.1.2      The ED shall utilize CR personnel and other on-shift staff to perform emergency tasks as indicated in Table 1.

**5.2      EMERGENCY OPERATIONS FACILITY**

5.2.1      Figure 3 illustrates the organization of the EOF. The ED will normally operate from the EOF upon activation but may choose to operate from another emergency response facility depending upon the situation.

5.2.2      Table 2 indicates designees for EOF emergency positions and responsibilities.

**5.3      TECHNICAL SUPPORT CENTER**

5.3.1      Figures 2 and 3 illustrate the organization of the TSC. The ED may choose to operate from the TSC or another emergency response facility depending upon the situation.

5.3.2      Table 3 indicates designees for TSC emergency positions and responsibilities.

**5.4      OPERATIONS SUPPORT CENTER**

5.4.1      Figures 2 and 3 illustrate the organization of the OSC.

5.4.2      Table 4 indicates designees for OSC emergency positions and responsibilities.

**5.5 TRANSFER OF COMMAND AND CONTROL RESPONSIBILITIES**

5.5.1 For a Notification of Unusual Event (NOUE) classification, the Shift Superintendent shall become the ED. After classifying the NOUE per Procedure 91001-C, "Emergency Classification And Implementing Instructions", the Shift Superintendent shall announce the emergency classification to the Control Room staff and proceed with appropriate implementing actions and procedures per Procedure 91001-C and Procedure 91102-C, "Duties Of The Emergency Director". The functions of the ED may be formally transferred to the senior qualified member of plant management.

5.5.2 For an Alert or higher classification, the Shift Superintendent may initially assume the position of the ED until he is relieved of this duty by a senior qualified member of plant management. Upon being relieved of ED duties, the Shift Superintendent shall return to his operational duties or assume another emergency response position. All command and control emergency responsibilities shall be formally transferred to the ED in accordance with Procedure 91102-C, "Duties Of The Emergency Director".

**5.6 RELIEF**

5.6.1 During long-term emergency response situations, it may be necessary to relieve personnel performing emergency functions. A comprehensive relief briefing is required to ensure no loss of information occurs and to avoid any setbacks during the transition. The oncoming person shall review the items presented in the attached General Relief Checklist, prior to a discussion with the offgoing person.

5.6.2 Following the review, the oncoming person shall receive a briefing by the offgoing person of the items presented in the attached General Relief Checklist.

**5.7 USE OF EMERGENCY PLAN IMPLEMENTING PROCEDURES (EPIPs)**

5.7.1 Checklists are provided for emergency response personnel who may be required to perform or direct activities which are not part of their normal duties.

5.7.2 In the checklists, specific EPIPs are referenced to allow referral for more details or clarifications.

5.7.3 The Initial Actions in checklists should be performed in the order provided.

5.7.4 The Supplemental Actions in checklists may be divided into subtopics. In these cases it is not necessary to review each step in the checklist in the order listed. Rather, a review of the subtopics should be performed to determine which ones apply to the situation. Then, actions under the applicable subtopics should be performed.

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**6.0      REFERENCES**

**6.1      VEGP EMERGENCY PLAN**

**6.2      PROCEDURES**

6.2.1      91001-C,      "Emergency Classification And Implementing Instructions"

6.2.2      91102-C,      "Duties Of The Emergency Director"

**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      NUREG-0696, "Functional Criteria for Emergency Response Facilities"**

**END OF PROCEDURE TEXT**

**EMERGENCY RESPONSE ORGANIZATION**

**TABLE 1**

**ON-SHIFT EMERGENCY RESPONSE PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>PRIMARY</b>	<b>ALTERNATE</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
Emergency Director	Shift Superintendent	Shift Supervisor	Nuclear Plant General Manager	Overall direction and control of the VEGP Emergency Response Organization prior to activation of the VEGP Emergency Response Facilities. After being relieved of his duties by a senior qualified member of plant management, the Shift Superintendent returns to direct operational duties of the on-shift operations personnel.

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
CR Communicator (ENS)	On-Shift Operations Personnel	Emergency Director	Provide initial notification to the NRC and other offsite authorities as directed. Returns to normal duties when relieved of notification responsibilities by the TSC ENS Communicator.
CR Communicator (ENN)	Shift Administrative Assistant; On-Shift Operations Personnel	Emergency Director	Provide initial notification to the offsite authorities and designated plant staff.
Shift Technical Advisor (or SRO qualified as STA)	Shift Technical Advisor (or SRO qualified STA)	Emergency Director	Plant system engineering, repair, and corrective actions.

Approved By  
**P.D. Rushton**

**Vogle Electric Generating Plant** 

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**EMERGENCY RESPONSE ORGANIZATION**

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**TABLE 1 (CONT'D)**

**ON-SHIFT EMERGENCY RESPONSE PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
Status Loop	On-Shift Operations Personnel	Emergency Director	Maintain communications with Emergency Response Facilities.
Mechanics, Electricians, I&C Technicians	On-Shift Personnel	Emergency Director	Serve on Emergency Teams as required.
Shift Supervisor and Unit Staff	On-Shift Operations Personnel	Emergency Director	Ensure safe operation of the unit including implementation of normal and emergency operation procedure.
Health Physics Foreman	Health Physics Foreman; HP/Chemistry Shared Foreman	Emergency Director	Perform offsite dose assessment and duties of HP Supervisor until relieved of this responsibility by the Health Physics Supervisor (TSC) and/or Dose Assessment Manager (EOF).
Security Shift Supervisor	Supervisor Nuclear Security (Shift Captain)	Emergency Director	Coordinate plant security. Perform duties of the Security Coordinator until relieved by a designated individual.
Fire Brigade	Assigned Personnel	Emergency Director	Respond to all fire alarms and determine the need for offsite assistance.

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**TABLE 1 (CONT'D)**

**ON-SHIFT EMERGENCY RESPONSE PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
Chemistry In-plant Sampler	Chemistry Technician(s); Chemistry Nuclear Specialist(s); Chemistry Foreman	Emergency Director	Activate Emergency Response Data System, coordination of FMT and serve on Emergency Teams, as required.
Search and Rescue Team	On-Shift HP Technicians; Assigned Personnel	Emergency Director	Perform search and rescue operations as required.
First Aid Team	On-Shift HP Technicians; Assigned Personnel	Emergency Director	Provide first aid and personnel decontamination as required.
Damage Control/ Assessment Team	Assigned Personnel	Emergency Director	Performed damage control/assessment activities as required.
Repair and Modification Team	Assigned Maintenance Personnel	Emergency Director	Perform repair and modification activities as required.
In-Plant Monitoring Team(s)	Health Physics Technician(s)	HP Foreman	Perform in-plant monitoring activities as required.
Field Monitoring Team(s)	Assigned HP/Chemistry/Ops /I&C Personnel	HP/Chem Foreman	Field Monitoring.

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**TABLE 1 (CONT'D)**

**ON-SHIFT EMERGENCY RESPONSE PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
Field Monitoring Team Communicator	Chemistry Foreman; Nuclear Specialists; Health Physics Technicians; Chemistry Technicians; Plant Chemist; Chemistry Supervisor and Maintenance Assistant Team Leaders	Dose Assessment Manager	Dispatch and maintain communications with field monitoring teams. Log field data as received.

**TABLE 2**

**EOF PERSONNEL AND RESPONSIBILITIES**

EMERGENCY POSITION	PRIMARY	ALTERNATE	REPORTS TO	FUNCTION
Emergency Director	Nuclear Plant General Manager; Vice President - Project	Plant Operations Assistant General Manager; Plant Support Assistant General Manager; Operations Manager; Nuclear Support General Manager		Coordinate and direct the entire VEGP Emergency Response Organization during an emergency including emergency classifications, excess radiation exposure authorizations, and protective action recommendations to offsite authorities.

EMERGENCY POSITION	DESIGNEES	REPORTS TO	FUNCTION
EOF Manager	Outage and Modifications Manager; Plant Training and Emergency Preparedness Manager; Plant Support Assistant Plant Manager; ; Nuclear Operations Training Supervisor	Emergency Director	Coordinate and direct VEGP offsite emergency response activities during an emergency. Oversee EOF operations including communication of radiological information to state/local response agencies.
EOF Security Coordinator	Security Manager; Supervisor Nuclear Security Administration; Supervisor Nuclear Security Operations; Security Specialist	EOF Manager	Manage overall site security traffic control, access control and personnel accountability. This includes coordinating VEGP security and traffic control efforts with offsite agencies.

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**EMERGENCY RESPONSE ORGANIZATION**

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**TABLE 2 (CONT'D)**

**EOF PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
EOF Support Coordinator	Administration Manager; Human Resources/Admin. Supervisor; Information Services Supervisor; Supervisor Materials	EOF Manager	Provide administrative, logistical communications, and personnel support for EOF and TSC functions.
Dose Assessment Manager	Superintendent Health Physics; Plant Health Physicist; HP/Chemistry Manager; HP Supervisor; Nuclear Specialist; HP/Chemistry Training Supervisor	EOF Manager	Coordinate offsite monitoring activities with state and federal agencies. Perform offsite dose projections and make protective action recommendations to the EOF Manager and the ED. Coordinate EOF lab work and personnel dosimetry.
EOF Information Coordinator	Designated in the Emergency Communications Directory	Emergency Director	Gather media release information in the EOF. Coordinate media activities with the Public Information Director in the ENC.
Dose Analyst(s)	Health Physicist; Health Physics Specialists; Nuclear Specialists; Plant Instructor Nuclear	Dose Assessment Manager	Perform dose calculation and assist the Dose Assessment Manager as requested.

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**TABLE 2 (CONT'D)**

**EOF PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
Field Monitoring Team Communicator	Chemistry Foreman; Nuclear Specialists; Plant Chemist; Chemistry Supervisor	Dose Assessment Manager	Dispatch and maintain communications with field monitoring teams. Log field data as received.
Field Monitoring Team	Chemistry Technicians; Health Physics Technicians; System Operators; Decon Personnel; Nuclear Specialists; I&C Technicians	Field Monitoring Team Communicator	Perform offsite monitoring activities.
EOF Communicators	Engineer	EOF Support Coordinator	Provide communications between EOF and onsite/offsite emergency facilities. Maintain the logs of the EOF Communications.
Status Loop	Plant Instructor Nuclear Operations; Program Development Coord.	EOF Support Coordinator	Maintain EOF Status Boards and mans status loop.
Clerks	Administrative Assistants	Support Coordinator	Assist the Support Coordinator with administrative functions as necessary.

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**Vogle Electric Generating Plant** 

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**EMERGENCY RESPONSE ORGANIZATION**

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**TABLE 2 (CONT'D)**

**EOF PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
Liaison Offsite/NRC	Plant Training and Emergency Preparedness Manager; HP and Chemistry Training Supervisor; Emergency Preparedness Coordinator; Emergency Preparedness knowledgeable personnel	EOF Manager	Provide needed information to NRC Staff. Acts as SRS, States and Burke County Liaison representative until arrival of designated representative from SRS, States and Burke County. Provide technical information to State and County EOC liaisons.
Technical Assistant to the ED (optional)	Plant knowledgeable personnel	Emergency Director	Assist the Emergency Director.
State and County EOC Liaisons	Engineers; SRO trained personnel; Plant knowledgeable personnel	Support Coordinator	Assist South Carolina State EOC, Burke County/GEMA EOC, Aiken County EOC, Allendale County EOC, Barnwell County EOC and Savannah River Site.

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**P.D. Rushton**

**Vogtle Electric Generating Plant** 

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**EMERGENCY RESPONSE ORGANIZATION**

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**TABLE 3**

**TSC PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
TSC Manager	Plant Operations Assist. General Manager; Nuclear Plant General Manager; Plant Support Assist. General Manager; Operations Manager; Operations Superintendent	Emergency Director	Coordinate and direct TSC staff and in-plant emergency personnel involved in restoring the plant to a safe condition. Make protective action recommendations to the ED based on plant conditions, as well as recommendations for emergency classifications.
TSC Support Coordinator	Document Control Supervisor; Senior Specialists; Designated Document Control personnel; Administrative Assistant, Senior; Supervisor Materials	TSC Manager	Provide administrative, logistical, communications and personnel support to the TSC, CR & OSC.
Engineering Supervisor	Engineering Support Manager; Plant Engineering Supervisor(s)	TSC Manager	Direct the engineering staff in the analysis of plant problems relating to reactor engineering, thermal and hydraulic analysis, instrumentation and control, and mechanical and electrical systems. Provide recommendations for plant modifications that will mitigate the effects of the accident. Direct communications with NRC on ENS. Perform core damage assessment.

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**TABLE 3 (CONT'D)**

**TSC PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
Maintenance Supervisor	Assistant Maintenance Manager; Maintenance Team Leader(s)	TSC Manager	In conjunction with the Engineering Supervisor, coordinate maintenance, repair, damage control and plant modification activities to mitigate effects from the accident.
Operations Supervisor	Operations Manager; Operations Dept. Superintendent(s); Operations SRO trained personnel	TSC Manager	Analyze problems associated with systems operations and provide recommendations for correcting the problems to the TSC Manager.
Health Physics Supervisor	Health Physics Supervisor(s); Health Physics Foreman	TSC Manager	Evaluate in-plant and onsite radiological conditions. Provide guidance to the OSC Manager relative to radiological considerations and control for emergency teams. Until the EOF is capable, perform offsite dose assessment. Keep the Dose Assessment Manager in the EOF informed of radiological status of the plant.
Health Physics Foreman	HP Foreman; HP/Chemistry Shared Foreman	Health Physics Supervisor	Communicates with In-plant Teams. Performs dose assessment prior to EOF activation.
Chemistry Supervisor	Chemistry Superintendent; Chemistry Supervisor; Chemistry Foreman	TSC Manager	Direct chemistry sampling and analysis. Evaluate plant chemistry data. Activate ERDS.

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**EMERGENCY RESPONSE ORGANIZATION**

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**TABLE 3 (CONT'D)**

**TSC PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
Chemistry In-plant Sampler	Chemistry Foreman; Chemistry Nuclear Specialists; Chemistry Technician	Chemistry Supervisor	Provide field monitoring team coordination prior to EOF activation
TSC Security Coordinator	Supervisor Nuclear Security; Nuclear Security Supervisor	TSC Manager	Establish and maintain access control and accountability.
Electrical Engineer	Plant Engineer	Engineering Supervisor	Analyze electrical systems.
Reactor Engineer	Plant Engineer	Engineering Supervisor	Analyze core physics and heat transfer parameters to assess core status.
Mechanical Engineer	Plant Engineer	Engineering Supervisor	Analyze mechanical systems.
TSC Communicator(s)	Nuclear Specialist; Engineer	TSC Support Coordinator	Provide communications between TSC and onsite/offsite emergency facilities. Maintain the logs of the TSC Communications.
TSC Status Loop	Operations Training/Operations Personnel	TSC Support Coordinator	Coordinates, controls and maintains communications between Emergency Response Facilities.
In-Plant Monitoring Team(s)	Health Physics Technicians	HP Foreman	Perform in-plant monitoring activities as required.

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**EMERGENCY RESPONSE ORGANIZATION**

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**TABLE 4**

**OSC PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
OSC Manager	Maintenance Manager; Assistant Maintenance Manager; Maintenance Team Leader(s)	TSC Manager	Supervisor OSC operations, manpower and equipment/supply resources at the OSC. Receive direction from the TSC for dispatching emergency teams to prescribed areas of the plant.
OSC Maintenance Foreman/Supervisors	Maintenance Team Leader(s); Maintenance Assistant Team Leader(s)	OSC Manager	Assist OSC Manager in the operations of the OSC.
OSC Staff	Chemistry Technicians; HP Technicians; Mechanics; Electricians; I&C Technicians; Offshift Operators; Waste & Decon personnel; Other Plant Staff	OSC Manager	Serve as members of various emergency teams.
Back-up Fire Brigade	Selected Personnel	OSC Manager	Respond to fire alarms, as directed, and determine the need for offsite fire fighting assistance.

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**EMERGENCY RESPONSE ORGANIZATION**

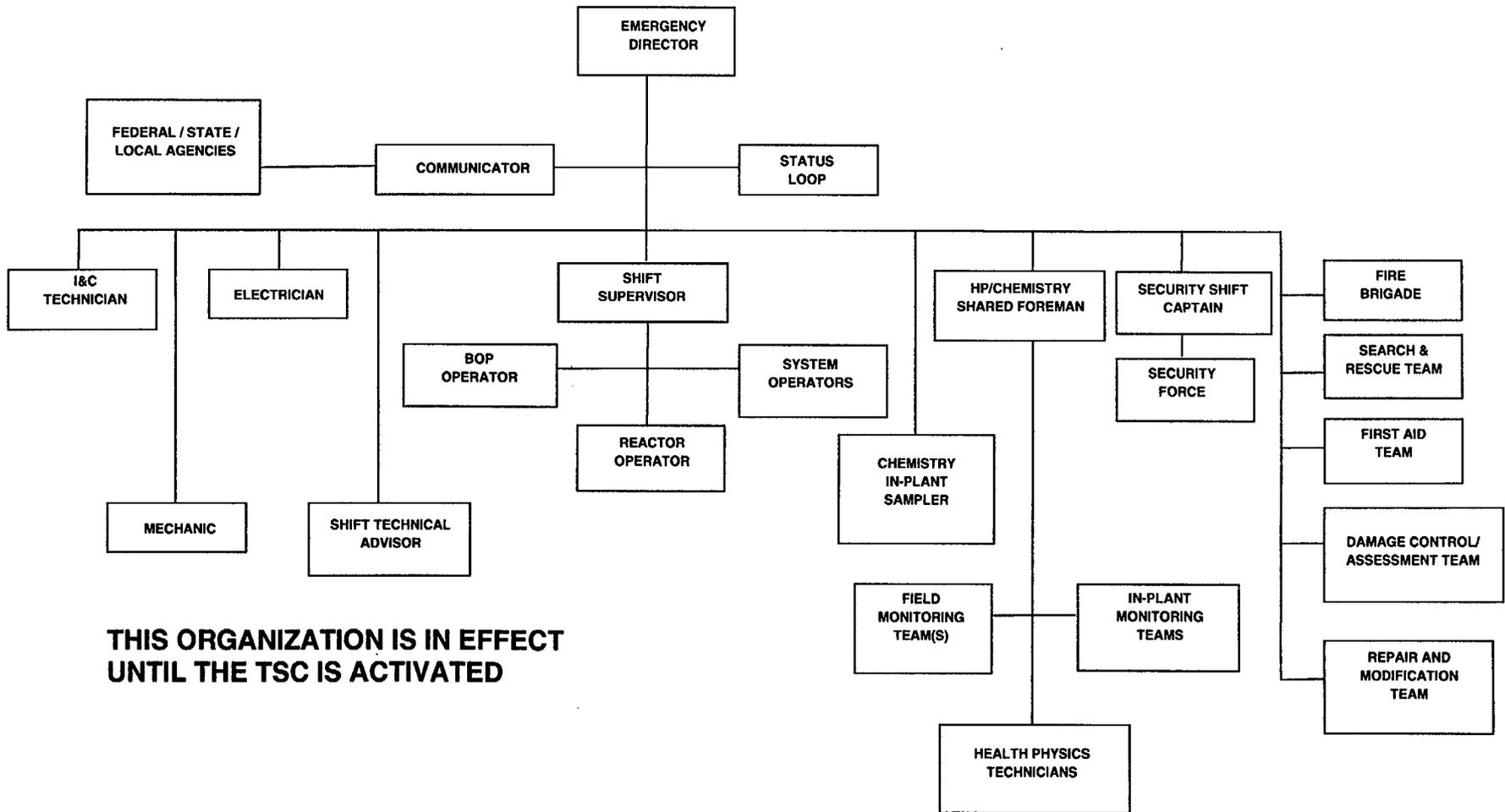
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**TABLE 4 (CONT'D)**

**OSC PERSONNEL AND RESPONSIBILITIES**

<b>EMERGENCY POSITION</b>	<b>DESIGNEES</b>	<b>REPORTS TO</b>	<b>FUNCTION</b>
Search and Rescue Team	Selected Personnel	OSC Manager	Perform search and rescue operations as required.
First Aid Team	Selected Personnel	OSC Manager	Provide first aid under emergency conditions.
Damage Control/ Assessment Team	Selected Personnel	OSC Manager	Perform damage control/assessment activities as required.
Repair and Modification Team	Selected Personnel	OSC Manager	Perform emergency repair operations as required.
OSC Status Loop	Selected Personnel	OSC Manager	Maintain communications with Emergency Response Facilities. Maintain OSC Status Boards.

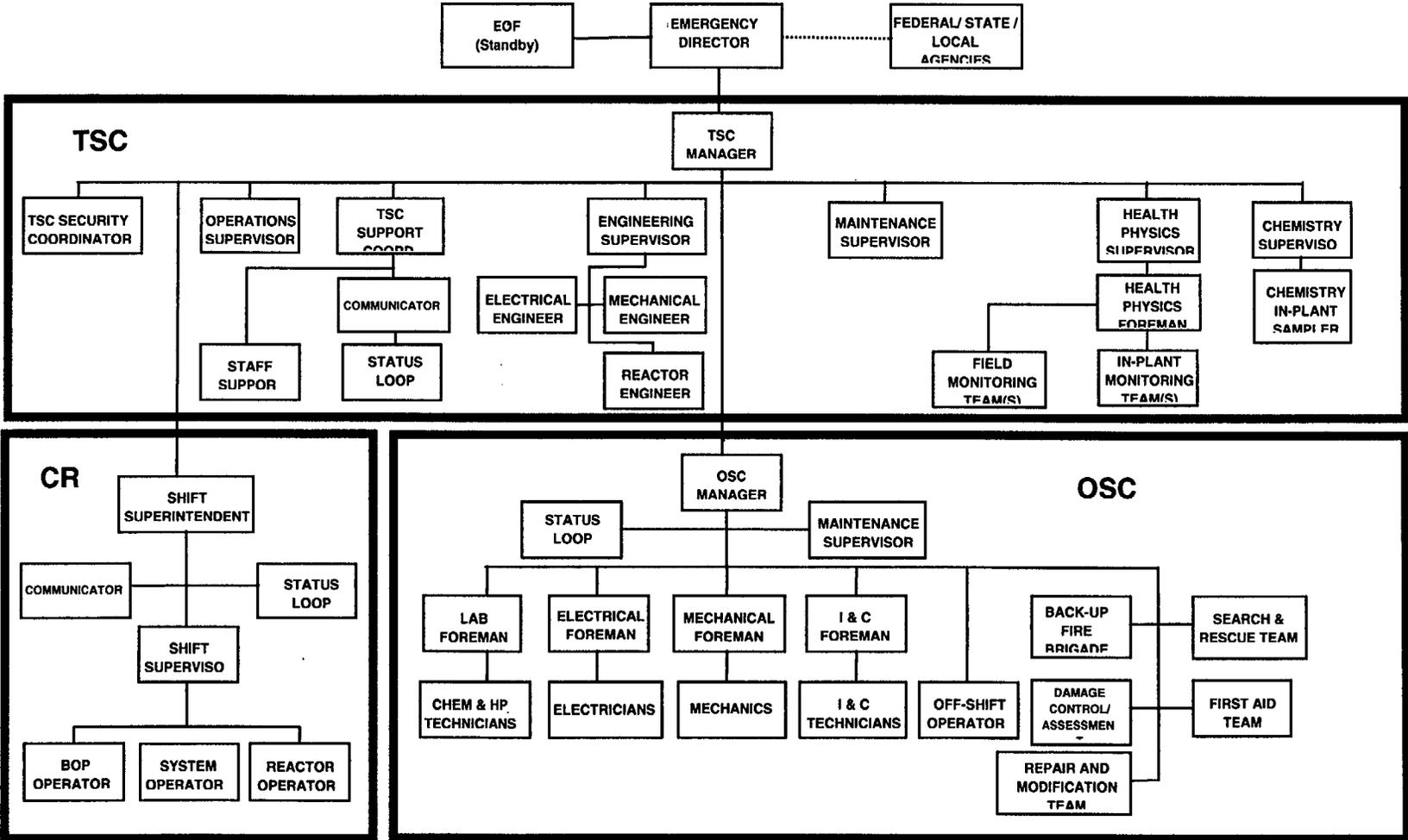
### ON-SHIFT EMERGENCY RESPONSE ORGANIZATION



**THIS ORGANIZATION IS IN EFFECT  
UNTIL THE TSC IS ACTIVATED**

**FIGURE 1**

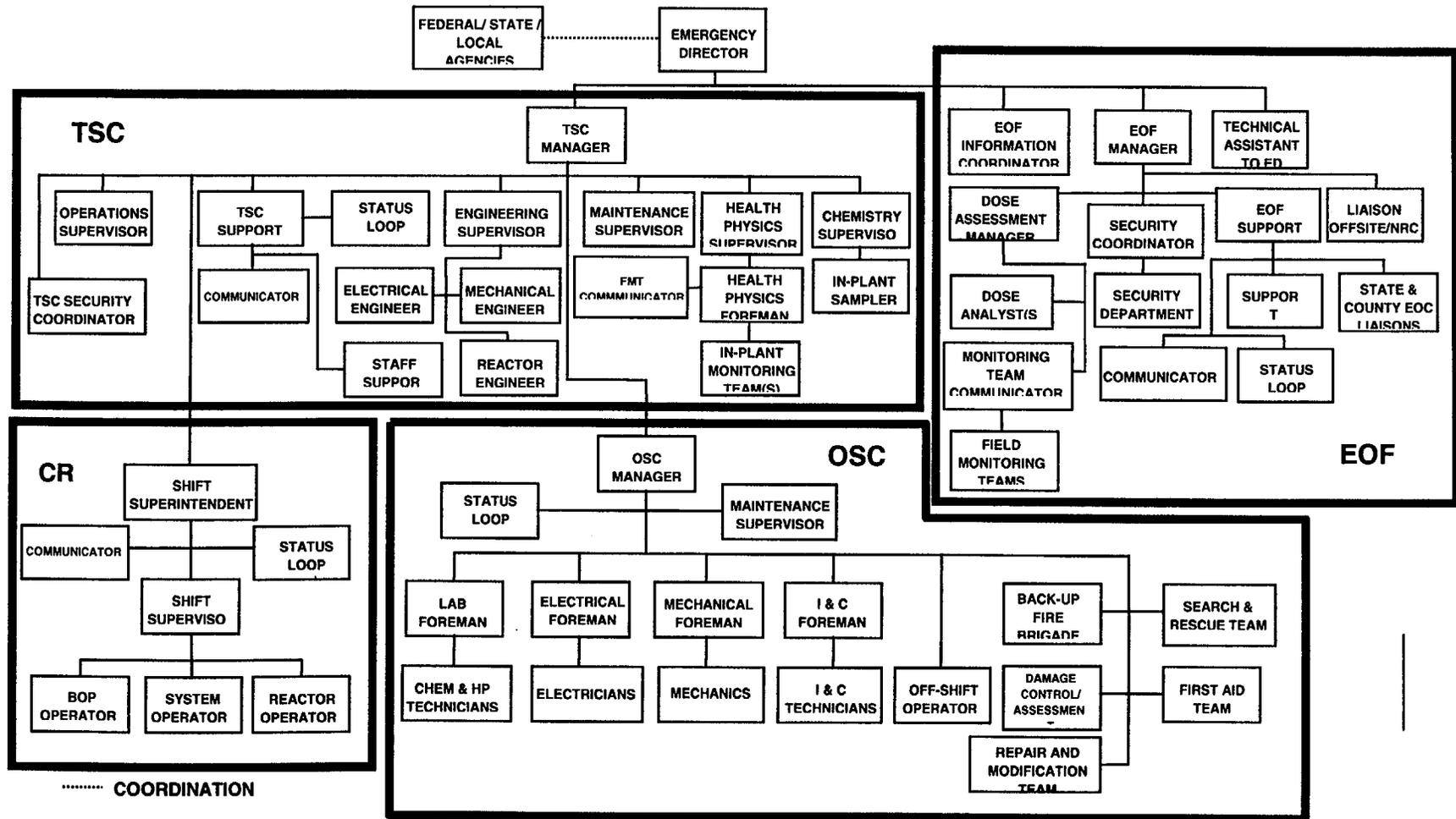
## EMERGENCY RESPONSE ORGANIZATION ALERT



..... COORDINATION

**FIGURE 2**

## EMERGENCY RESPONSE ORGANIZATION SITE AREA EMERGENCY AND GENERAL EMERGENCY



**FIGURE 3**



**GENERAL RELIEF CHECKLIST**

Depending on the emergency position, some of the following actions may not apply.

1. Prior to discussion with the offgoing person, review the following:
  - a. Status boards
  - b. Logs
  - c. Discussion with staff concerning their actions
2. Review the following with the offgoing person:
  - a. Summary of events
  - b. Plant status
  - c. Equipment status
  - d. Emergency classification
  - e. Outstanding orders
  - f. Any noted deficiencies
  - g. Completed checklist items
  - h. Overall recovery plan (if known)
  - i. Offsite Notifications
3. Announce relief to staff and supervisor.
4. Announce relief to offsite agencies with whom you interface, if appropriate.
5. Start a new position checklist.
6. Retain copies of completed checklists for record keeping purposes and as a reference.

Oncoming Signature \_\_\_\_\_

Offgoing Signature \_\_\_\_\_

Position \_\_\_\_\_ Date/Time \_\_\_\_\_ / \_\_\_\_\_



**REFERENCE USE PROCEDURE**

**PRB REVIEW REQUIRED**

**1.0 PURPOSE**

The purpose of this procedure is to provide instructions to the Emergency Operations Facility (EOF) Manager for overall direction of the EOF.

**2.0 RESPONSIBILITIES**

**2.1 EOF MANAGER RESPONSIBILITIES**

- 2.1.1 Timely offsite communications when the Emergency Director (ED) is in the EOF.
- 2.1.2 Managing the EOF and directing EOF emergency response personnel.
- 2.1.3 Coordinating and directing all offsite emergency response functions.
- 2.1.4 Providing radiological information to the State and local emergency response agencies.
- 2.1.5 Ensuring that ALL Vogle Electric Generating Plant (VEGP), Georgia Power Company (GPC), Southern Nuclear Company (SNC) employees, and vendor/contractors reporting to the EOF meet the requirements of the Fitness For Duty (FFD) policy for recall of off-duty personnel.
- 2.1.6 Participation in the development of protective actions recommendations.
- 2.1.7 Providing recommendations on protective actions to the ED.
- 2.1.8 Ordering evacuation of EOF (if needed).
- 2.1.9 Review and approve News Releases when Emergency Director is not available.

**3.0 PREREQUISITES**

Site Area Emergency or General Emergency has been declared or the ED has ordered activation of the EOF.

**4.0 PRECAUTIONS**

- 4.1 This procedure shall not take priority over measures required to maintain or restore the plant to a safe operating condition.
- 4.2 This procedure does not replace any plant operating procedure. During an emergency condition, the EOF Manager will continue to use appropriate plant procedures in parallel with this and other Emergency Plan Implementing Procedures.

**5.0      PROCEDURE**

**5.1      EOF ACTIVATION**

5.1.1      The EOF shall be brought to a standby status at the ALERT classification level. Standby status is defined as physical readiness of the facility and staffing of key positions except the ED. The EOF will be operational (capable of being activated) within about an hour after initial notification of ERO personnel following the declaration of a Site Area Emergency or higher declaration.

5.1.2      The EOF Manager shall complete the initial actions of the EOF Manager Checklist as soon as possible and complete the subsequent actions on a continuing basis.

**5.2      STAFF SUPERVISION**

The EOF Manager shall supervise the activities of the following EOF staff:

5.2.1      Dose Assessment Manager (dose assessment, protective action recommendations, Field Monitoring Team control).

5.2.2      Security Coordinator (site access, accountability, evacuation, liaison with local law enforcement).

5.2.3      Support Coordinator (logistics, offsite support groups, communications, staffing, log keeping, etc.)

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**6.0        REFERENCES**

**6.1        VEGP EMERGENCY PLAN**

**6.2        PROCEDURES**

6.2.1        91002-C,        "Emergency Notifications"

6.2.2        91101-C,        "Emergency Response Organization"

6.2.3        91203-C,        "Activation And Operation Of The EOF"

6.2.4        91204-C,        "Emergency Response Communications"

6.2.5        91305-C,        "Protective Action Guidelines"

6.2.6        91501-C,        "Recovery"

**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"**

**END OF PROCEDURE TEXT**

Approved By <b>P.D. Rushton</b>	<b>Vogtle Electric Generating Plant</b> 	Procedure Number <b>91105-C</b>	Rev <b>12</b>
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Sheet 1 of 3

**EOF MANAGER CHECKLIST**

**DESIGNEES**

- Outage and Modifications Manager
- Plant Training and Emergency Preparedness Manager
- 
- Plant Support Assistant General Manager
- Nuclear Operations Training Supervisor

**RESPONSIBILITY:**

Manage the EOF and direct the offsite emergency response. Communicate radiological information to state and local emergency response agencies. Provide support for initial activities associated with planning for re-entry or recovery operations.

**INITIAL ACTIONS**

1. Report to the EOF.
2. Sign in on Emergency Response Facility Roster.
3. Obtain work packets, appropriate dosimetry as necessary and emergency identification badge.
4. Obtain briefing if possible from the ED, TSC Manager or other knowledgeable management personnel.
5. Ensure that key EOF positions have been filled by reviewing Emergency Response Facility Roster. Refer to Procedure 91203-C, "Activation And Operation Of The Emergency Operations Facility" for minimum EOF staff requirements.
6. Review facility and equipment readiness with EOF staff.
7. When adequately staffed, declare the EOF operational by making a public announcement to EOF personnel. Also notify the ED, the TSC Manager, Emergency News Center and General Office Operations Center concerning the facility activation.

**NOTE**

If a recall of off-duty personnel has been initiated, perform the following:

8. FFD determinations
  - a. Review the sign in roster and ensure that ALL personnel reporting to the EOF answer the fitness for duty question.
  - b. If any personnel have answered 'yes' to the FFD question, a FFD evaluation is required. The Safety and Health department is available to help make this determination.

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**EOF MANAGER CHECKLIST**

**Sheet 2 of 3**

**SUBSEQUENT ACTIONS**

- 1.\* Maintain log(s).
- 2.\* Assist the ED as needed.
- 3.\* Provide periodic briefings to EOF staff.
- 4.\* Review and approve News Releases when Emergency Director is not available.

**Notifications**

- 1.\* Assist the ED in performing notifications to the State, County, NRC and SRS EOC (Procedure 91002-C, "Emergency Notifications").
2. Complete and transmit the Emergency Notification message forms (Procedure 91002-C, "Emergency Notifications") when the EOF is responsible for offsite notifications. Provide to the ED for review and approval.

**Protective Actions**

- 1.\* Coordinate with the Dose Assessment Manager in developing protective action recommendations (Procedure 91305-C, "Protective Action Guidelines").
- 2.\* Provide protective action recommendations to the ED.
- 3.\* Assure that the EOF remains habitable. Direct activation of the alternate EOF if necessary (Procedure 91203-C, "Activation And Operation Of The EOF").
4. If the offsite public alerting sirens are activated by the state or local authorities, then the activation should be repeated by the EOF back-up activation station. Contact Telecommunication or Emergency Preparedness to initiate this activation.

**Liaison with Offsite Agencies**

- 1.\* Assure that the Dose Assessment Manager maintains liaison with the appropriate State radiological officer to transmit radiological information.
- 2.\* Provide briefings and liaison with State, County, SRS, FEMA and NRC personnel arriving at the EOF.

\* Continuing Activity

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**EOF MANAGER CHECKLIST**

**Sheet 3 of 3**

**SUBSEQUENT ACTIONS (CONT'D)**

**Support Activities**

- 1.\* Assure that the EOF Support Coordinator is obtaining necessary offsite support when required.
2. Coordinate with EOF Support Coordinator to develop extended duty roster, if needed.

**Relief**

1. Perform relief and complete Relief Checklist in Procedure 91101-C, "Emergency Response Organization".

**Emergency Termination**

1. After the emergency condition has been declared terminated, proceed as follows:
  - a. Hold a final staff meeting.
  - b. Collect logs and checklist from EOF staff.
  - c. Attend a staff briefing with the ED and key staff members to determine recovery actions.

**Recovery**

1. Coordinate with the ED to provide support for initial recovery planning activities per Procedure 91501-C, "Recovery".

**Restoration of the EOF**

1. Restore the EOF to a ready condition at the termination of the emergency.

---

\* Continuing Activity



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**REFERENCE USE PROCEDURE**

**PRB REVIEW REQUIRED**

**1.0 PURPOSE**

The purpose of this procedure is to provide instructions to the Health Physics (HP) Supervisor for radiological assessments and support.

**2.0 RESPONSIBILITIES**

**2.1 HP SUPERVISOR**

2.1.1 The HP Supervisor shall have the following responsibilities:

2.1.1.1 Evaluate onsite and in-plant radiological conditions.

2.1.1.2 Ensure radiation protection for the In-Plant Teams.

2.1.1.3 Until the EOF Dose Assessment area is functional, perform offsite dose projections, direct field monitoring activities, and make protective action recommendations (PAR's) to the Emergency Director (ED).

2.1.1.4 Supervise health physics personnel assigned to Technical Support Center (TSC), HP Foreman, Communicator, HP Technicians, and the Dosimetry Team.

2.1.1.5 In the event a radioactive coolant sample is to be shipped for offsite analysis, coordinate preparing the sample for release with the Chemistry Supervisor, prepare documentation and ship the sample to Framatome Technologies, Lynchburg VA.

2.1.1.6 Authorize radiation doses to the limit of 10CFR20.

**3.0 PREREQUISITES**

An Alert, Site Area Emergency, or General Emergency has been declared or the ED has ordered activation of the TSC.

**4.0 PRECAUTIONS**

4.1 This procedure shall not take priority over measures required to maintain or restore the plant to a safe operating condition.

4.2 This procedure does not replace any plant operating procedures.

4.3 Assignment of manpower must be prioritized as needed for mitigation of the accident. This may require, for example, that the HP Supervisor perform Offsite Dose Assessment while a HP Technician accompanies an in-plant team.

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**5.0      PROCEDURE**

**5.1      TSC ACTIVATION**

5.1.1      When the TSC is activated, the HP Supervisor shall report to the TSC and receive a briefing from the TSC Manager and the Shift HP Foreman.

5.1.2      The HP Supervisor shall obtain and initiate the "Health Physics Supervisor Checklist".

**5.2      RECOVERY**

The HP Supervisor shall provide support for recovery and re-entry operations as requested by the TSC Manager or the ED.

**6.0      REFERENCES**

**6.1      VEGP EMERGENCY PLAN**

**6.2      PROCEDURES**

6.2.1      13303-C,      "Technical Support Center And Central Alarm Station HVAC Systems"

6.2.2      91101-C,      "Emergency Response Organization"

6.2.3      91203-C,      "Activation And Operation Of The Emergency Operations Facility"

6.2.4      91301-C,      "Emergency Exposure Guidelines"

6.2.5      91302-C,      "In-Plant Sampling And Surveys"

6.2.6      91305-C,      "Protective Action Guidelines"

6.2.7      91306-C,      "Contamination Monitoring And Decontamination"

6.2.8      91403-C,      "Site Evacuation"

6.2.9      91303-C      "Field Sampling and Surveys"

**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      10CFR20, "Standards For Protection Against Radiation"**

**END OF PROCEDURE TEXT**

Approved By  
**P.D. Rushton**

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## DUTIES OF THE HEALTH PHYSICS SUPERVISOR (TSC)

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### HEALTH PHYSICS SUPERVISOR CHECKLIST

#### DESIGNEES:

- Health Physics Supervisor(s)
- Health Physics/Chemistry Shared Foreman (On-shift)
- Health Physics Foreman

#### RESPONSIBILITY:

Evaluate onsite and in-plant radiological conditions. Provide guidance to the In-Plant Monitoring Teams. Until the EOF Dose Assessment area is functional, perform offsite dose projections, direct field-monitoring activities, and make PAR's.

#### **NOTE**

- a. Assignment of manpower must be prioritized as needed for mitigation of the accident. This may require the HP Supervisor to complete appropriate steps of the following assigned checklists if personnel are used for other purposes. (i.e. Offsite Dose Assessment while a HP Technician accompanies an in-plant team.)
- b. A dose assessment projection is required within 15 minutes after it is recognized that a known release is in progress. Immediately have a qualified individual go to the "RELEASE ONGOING OR IMMINENT" section of this procedure if a known release is in progress.

#### INITIAL ACTIONS

1. Obtain latest personnel exposure printout.
2. Badge into the TSC and sign in on the Emergency Response Facility Roster.
3. Obtain work packets and emergency identification badge.
4. Ensure the following emergency positions are staffed:
  - a. HP Foreman
  - b. HP Technicians
  - c. Dosimetry Personnel (manpower permitting)
  - d. Field Monitoring Team Communicator

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**HEALTH PHYSICS SUPERVISOR CHECKLIST**

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**INITIAL ACTIONS CONT'**

5. Direct the formation and briefing of the initial field monitoring team in accordance with procedure 91303-C, "Field Sampling and Surveys", Checklist 2.
6. Assign personnel as follows:
  - a. HP Foreman (Dayshift), HP Technician (Back shift) to review and complete the **HP Foreman's Checklist** contained in this procedure.
  - b. HP Technicians to review and complete the **HP Technicians Checklist** contained in this procedure.
  - c. Dosimetry Personnel (manpower permitting) to review and complete the **Dosimetry Checklist** contained in this procedure.
  - d. Field Team Communicator to review and complete the **Field Team Communicator's Checklist** contained in this procedure.
7. Advise TSC Manager when ready for operation and begin maintaining appropriate logs and checklists.
- 8.\* Assess plant conditions, extent of releases, and what plant areas may have abnormally high dose rates and levels of airborne radioactivity. (May be obtained from Shift Superintendent, TSC Manager and/or HP Foreman)

**CAUTION**

*Do not use the VEGP Recreation Center for off-site relocation if wind direction is from 20 degrees to 70 degrees when a Site Evacuation is ordered.*

- 9.\* Determine the need for evacuation of nonessential personnel (Procedure 91403-C, "Site Evacuation") and make recommendations to the ED.

**(RELEASE ONGOING OR IMMINENT)**

1. Ensure that the TSC HVAC air filtration system is switched over to the filtration mode.
2. Assign a qualified individual to periodically complete a habitability survey of the TSC per "TSC Radiological Habitability Checklist". Direct OSC to perform habitability surveys of the OSC and Plant Entry Security Building (if appropriate).

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**HEALTH PHYSICS SUPERVISOR CHECKLIST**

**(RELEASE ONGOING OR IMMINENT CONT')**

**NOTE**

Verify information regarding the cause and release point of any potential or ongoing release.

- 3.\* Perform offsite dose assessment until the Dose Assessment area in the EOF is functional.
- a. Consult Procedure 91304-C, "Estimating Offsite Dose".
  - b. Contact emergency teams outside the protected area (i.e., FMT, Traffic Control Points, Relocation Center, etc.) and advise them of appropriate protective actions.

**NOTES**

- a. The release duration for a non-faulted Steam Generator tube leak or rupture is 1 hour. Use 4 hours for all other design basis accidents.
- b. ODCM values do not apply for a change in Emergency Classifications if an Alert classification or higher has been declared. IF the actual ODCM values are not known a conservative estimate of the values may be made by using the high alarm set point from the applicable release point PERMS monitor. If the potential or ongoing release is from an unmonitored path the ODCM values will not be immediately available and will be calculated by Chemistry at a later time.
- c. Field monitoring measurements are important in determining the actual radiation levels in the environment. The dose assessment computer code provides only a rough approximation of radiation levels and location of the plume. The uncertainties in the source term and meteorological conditions in the affected areas are the chief contributors to the inaccuracies of projected dose and dose rate. Once field-monitoring information becomes available, the dose assessment computer code can be used to estimate the source term. There is no widely accepted formula to use field-monitoring data to reduce the uncertainties and inaccuracies in the dose assessment computer code. The Dose Assessment Manager or HP Supervisor must exercise professional judgment in determining the proper correction factors.

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\* Continuing Activity

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**HEALTH PHYSICS SUPERVISOR CHECKLIST**

**(RELEASE ONGOING OR IMMINENT CONT')**

- d. Once the decision to evacuate the general public has been made FMT activities should be restricted to such activities as determining the source term for an unmonitored release or confirming the presence of radioactive plume. Plume centerline tracking is of relatively minor importance in protecting the health and safety of the public and should not be attempted for highly radioactive plumes unless the information has some value in assisting in the evacuation of the public. FMT activities that contributed to expeditious evacuation and consequent reduction in radiation dose of the public should continue within the EPA emergency exposure guidelines if necessary.
  
- 4.\* Request the OSC to dispatch Decontamination Teams as required.
  
- 5.\* Provide direction to the Security Shift Captain related to health physics controls (use of direct reading dosimeters, areas to avoid because of high radiation, etc.) for security personnel within the protected area and not in an emergency facility.
  
- 6.\* Ensure that additional Field Monitoring Teams are assembled, dispatched and tracked per Procedures 91303-C, "Field Sampling And Surveys" and 91801-C, "Coordination Of Emergency Response And Planning Between Southern Nuclear Operating Company – Vogtle Electric Generating Plant and U.S. Department of Energy – Savannah River Site". Notify OSC Manager when the Dose Assessment Manager has assumed team control.

**WARNING**

**IF PLUME CENTERLINE DOSE RATES (DDE) ARE PROJECTED OR MEASURED TO EXCEED 100 MREM/H, INSTRUCT FIELD MONITORING TEAMS TO TAKE OFF-CENTERLINE READINGS AND SWEEP THE PLUME TO IDENTIFY THE MAXIMUM DOSE RATE. ALARA PRINCIPLES SHOULD BE APPLIED TO ALL FMT ACTIVITIES.**

- a. The CEDE component of the TEDE dose cannot be directly determined by field measurements, therefore a **correction factor of (2) should be applied to convert the DDE to the TEDE dose.** This is accomplished by multiplying the Direct Reading Dosimeter reading by 2 to get the TEDE dose. When actual source term data becomes available a more accurate correction factor may be obtained using the offsite dose assessment computer. This can be accomplished by comparing TEDE dose rate to EDE dose rate as follows:  $\text{Correction Factor} = \frac{\text{TEDE dose rate}}{\text{EDE dose rate}}$

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**HEALTH PHYSICS SUPERVISOR CHECKLIST**

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**SUBSEQUENT ACTIONS**

1. Assure that Health Physics technicians are assigned to HP control point once accountability has been completed and with TSC Manager's approval.
2. Authorize radiation doses to the limit of 10CFR20, as appropriate.
- 3.\* Maintain a communications log.
- 4.\* When requested by the NRC regional office or the NRC headquarters, via the Emergency Notification System (ENS) network, activate the Health Physics Network (HPN) and proceed as follows:
  - a. Provide a technically qualified communicator (HP knowledgeable) to staff the HPN as soon as possible.
  - b. Have the designated communicator gain access to the HPN by calling one of the NRC Operations Center numbers affixed to the HPN telephone.
  - c. Ensure the communicator indicates that he/she is the licensee HPN communicator and that he/she desires to be connected to the HPN Teleconference Bridge.
  - d. Ensure this communications network remains activated until directed otherwise by the NRC.
5. Provide direction to the OSC Manager related to health physics controls (use of EDRDs and plant radiological conditions) for emergency teams.
- 6.\* Direct radiation surveys by an In-Plant Monitoring Team (Procedure 91302-C, "In-Plant Sampling and Surveys") where high dose rates may be expected or indicated by area monitors.
- 7.\* Evaluate radiation surveys and sampling results and report abnormal results to the TSC Manager.
- 8.\* Maintain a trend analysis of monitoring and sampling data.
- 9.\* Ensure that periodic habitability surveys of the OSC, TSC, Plant Entry Security Building (PESB), Control Room (CR), and other occupied areas are performed.

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**HEALTH PHYSICS SUPERVISOR CHECKLIST**

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**SUBSEQUENT ACTIONS CONT.**

10. In the event a radioactive coolant sample is to be shipped for offsite analysis, coordinate preparing the sample for release with the Chemistry Supervisor, prepare documentation and ship the sample to Framatome Technologies, Lynchburg VA.

**OFFSITE PROTECTIVE ACTIONS**

1. As necessary, send environmental samples to the GPC Environmental Lab in Smyrna, GA or to Plant Hatch.
- 2.\* Modify the routine environmental monitoring program as necessary to collect additional samples of environmental media. Coordinate modifications with and obtain sample results from the GPC Environmental Laboratory Manager (Smyrna) or his designee.
- 3.\* Ensure that sufficient sampling is performed to characterize initial deposition and peak activity in pasture grass and milk and total intake of I-131, Cs-137, Sr-89 and Sr-90.
4. Use the MIDAS program to calculate the projected deposition of radionuclides and associated dose in the ingestion pathway based on release data and meteorological condition.
- 5.\* Compare field samples results and ingestion pathway analysis results with the US FDA Preventive and Emergency PAG levels and provide results to the states of Georgia and South Carolina.
- 6.\* Coordinate offsite and in-plant survey data with the EOF Dose Assessment Manager once the Dose Assessment area is functional at the EOF.
- 7.\* Inform EOF Dose Assessment Manager of changes in release rate or source term used in offsite dose assessment as appropriate. Provide guidance on plant status, future release rates and the need for protective measures for Field Monitoring Teams.

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**HEALTH PHYSICS SUPERVISOR CHECKLIST**

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**ONSITE PROTECTIVE ACTIONS**

- 1.\* Determine the need to relocate emergency facilities and make recommendations to the TSC Manager.
- 2.\* Determine the need for CR and TSC personnel to wear eye protection and protective clothing to maintain Beta doses below 15 rem to the lens of the eyes and 50 rem to skin.
- 3.\* Based on in-plant radiological assessment, make protective action recommendations to the ED including issuance of protective drugs (e.g. KI) per Procedure 91305-C, "Protective Action Guidelines".
- 4.\* Review Radiation Work Permits (RWPs) and Emergency Radiation Exposure Permits (EREPS). Assure that appropriate protective measures (e.g., protective equipment, blocking agents) are taken (Procedure 91301-C, "Emergency Exposure Guidelines").
- 5.\* Provide guidance to the Maintenance Supervisor regarding radiological considerations associated with plant modification and repair.
6. Ensure that sufficient HP personnel are available in the OSC to survey an acceptable route for Radiation Emergency Teams (RETs) between the OSC and the control point (or other points of plant entry) in the event of onsite radioactive contamination.
7. In areas where surveys indicate detectable levels of loose radioactive contamination, eating, drinking, smoking, and chewing will be prohibited.

**RELIEF**

Perform relief and complete the General Relief Checklist of Procedure 91101-C, "Emergency Response Organization".

**HABITABILITY ACTION LEVELS AND LIMITS**

1. If the limits below are exceeded in the TSC or OSC, the HP Supervisor should consider recommending to the TSC Manager that the TSC or OSC be evacuated.
  - a. Dose Rate (DDE) - **100 mRem /hr**
  - b. Iodine Activity - **2.7E-7 µCi/cc**

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**HEALTH PHYSICS SUPERVISOR CHECKLIST**

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**EMERGENCY TERMINATION**

1. After the emergency condition has been terminated, proceed as follows:
  - a. Participate in a briefing with the TSC Manager and assist in transition to a Recovery Organization.
  - b. Collect checklists and logs from staff and turn over to the TSC Support Coordinator.
  - c. Stand by for assignment to the Recovery Organization; return to normal workstation, or dismissal.

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**HEALTH PHYSICS FOREMAN'S CHECKLIST**

**Sheet 1 of 1**

1. Assemble the initial field monitoring team for a briefing and obtain a copy of Checklist 2 from procedure 91303-C. Report back to the HP Supervisor when ready to give the briefing.
2. Verify the availability and operability of:
  - a. Process and Effluent Radiation Monitoring System (PERMS)
  - b. Dose Projection System, maps and related materials
  - c. Integrated Plant Computer (IPC)
  - d. TSC Portable Area Radiation Monitor (Setpoint should be 2.5 mRem/hr)
3. Determine the need to establish access control to in-plant contaminated or high radiation areas. (I.e., barriers, signs, locked doors etc.)
4. Ensure that current plant radiation level data is posted in the TSC and OSC.

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**HEALTH PHYSICS TECHNICIAN'S CHECKLIST**

**Sheet 1 of 1**

- 1.\* Periodically review the following data sources:
  - a. Area radiation monitors
  - b. Airborne radioactivity monitors (particulate, iodine and/or noble gas)
  - c. Process liquid radiation monitors
  - d. Meteorological conditions
- 2.\* Initiate habitability surveys at least once per hour when directed by the HP Foreman or Supervisor or upon notification that a release has occurred.
3. Obtain portable survey meter and air sampler from TSC emergency kit.
4. Perform the necessary functional checks on the survey meter.
- 5.\* Log the time, dose rate from the portable survey meter, air sample results, iodine concentration, and smear survey results. (Data Sheet 1)
- 6.\* Report findings to the HP Foreman/Supervisor.

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**DOSIMETRY PERSONNEL CHECKLIST**

**Sheet 1 of 1**

1. Ensure personnel have TLDs and EDRDs as appropriate in the ERFs and other personnel in the protected area (e.g., security).
2. Use Emergency Response Facility Rosters to ensure all personnel have required dosimetry.
3. Issue extremity dosimetry to personnel if required.
4. Update individual exposure records and determine individual dose margins (difference between updated exposure records and current administrative limits) for personnel if required.
5. Maintain a record of individual and collective exposures received during the emergency using the access control computer system or manually through use of the daily dose card.
- 6.\* Periodically, forward copies of exposure records to the HP Supervisor in the TSC and the OSC Manager in the OSC.
7. Arrange for TLDs to be delivered to the processing laboratory within 4 to 12 hours after collection if needed.

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**FIELD TEAM COMMUNICATOR CHECKLIST**

**Sheet 1 of 1**

- 1.\*        The Field Team Communicator should use Data Sheets 2, 3, 4 or 5 of procedure 91303-C, "Field Sampling and Surveys", to log field monitoring team communications.
  
2.        Operate radios or telephones as needed to maintain communications with the various Field Monitoring teams at all times (even when the EOF is activated so a seamless transfer can take place if communications are interrupted or lost by the EOF.)
  
3.        Send field samples reading 100 cpm or greater above background (HP-210 probe or equivalent) to the site lab for immediate analysis, or to Plant Hatch if the Vogtle site lab is unavailable. Notify HP Foreman/Supervisor.

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\* Continuing Activity

**DATA SHEET 1**

Sheet 1 of 1

**HABITABILITY SURVEY**

**TSC FACILITY**

**DATE** \_\_\_\_\_

Time (once per hour minimum)							
Dose Rate** (100 mRem/hr limit)							
Iodine Activity** (2.7E-7 µCi/cc limit)							
Air Sample Activity							
Swipe Survey							
HP Supervisor advised of the results							
Performed by initials							

\*\* NOTE: Notify TSC HP Supervisor immediately if these results are met or exceeded.