

Southern Nuclear Operating Company
Vogtle Electric Generating Plant
Post Office Box 1600
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U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

NOT-03822

**VOGTLE ELECTRIC GENERATING PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE REVISIONS**

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>
91102-C	19	04/24/2002
91109-C	8	04/17/2002
91110-C	16	04/24/2002

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 Lawrence Mayo at (706) 826-3356 if you have questions.

Sincerely,

Lawrence E. Mayo
Emergency Preparedness Coordinator

LEM:jjm

Enclosure: Emergency Plan Implementing Procedure(s)


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REFERENCE USE PROCEDURE

PRB REVIEW REQUIRED

1.0 PURPOSE

The purpose of this procedure is to provide instructions to the Emergency Director (ED) in fulfilling his responsibility for overall coordination and direction of the Vogtle Electric Generating Plant (VEGP) Emergency Response Organization (ERO).

2.0 RESPONSIBILITIES

2.1 DESIGNEES

2.1.1 Shift Superintendent or Shift Supervisor

The Shift Superintendent shall assume the position of ED in the Control Room until relieved by the designated ED. If the Shift Superintendent is incapacitated, a Shift Supervisor shall assume the position of ED.

2.1.2 The Vice President - Project or Nuclear Plant General Manager are the designated primaries for the ED.

2.1.3 Plant Operations Assistant General Manager

The Plant Operations Assistant General Manager is the designated first alternate for the position of the ED.

2.1.4 Plant Support Assistant General Manager

The Plant Support Assistant General Manager is the designated second alternate for the position of the ED.


2.1.5 Operations Manager

The Operations Manager is the designated third alternate for the position of the ED.

2.1.6 Nuclear Support General Manager (Vogtle)

The Nuclear Support General Manager (Vogtle) is the designated fourth alternate for the position of the ED.

2.2 The ED shall have complete authority and responsibility to administer the Emergency Plan including the initial and unilateral initiation of required emergency response actions.

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2.3 The ED shall have the following general responsibilities:

NOTE


Asterisked (*) responsibilities cannot be delegated.

- *2.3.1 Classifying and declaring the emergency, including upgrading, downgrading or termination.
- *2.3.2 Recommending protective actions to offsite authorities and content of notification messages.
- *2.3.3 Authorizing personnel radiation exposures in excess of 10CFR20 limits, if necessary.
- *2.3.4 Deciding to order evacuation or early dismissal of non-essential personnel from the site at the Alert classification level.

NOTE

The Security Shift Captain may call local law enforcement agencies, including the local Federal Bureau of Investigation, without confirmation by the Emergency Director.

- *2.3.5 Deciding to request assistance from federal support groups.
- *2.3.6 Deciding to notify offsite authorities responsible for emergency measures.
- 2.3.7 Maintaining communications with offsite authorities regarding all aspects of emergency response.
- 2.3.8 Providing overall direction for management of procurement of site-needed materials, equipment, and supplies, documentation, accountability, and security function.
- 2.3.9 Directing the notification and activation of the emergency organization; including emergency response facility activation.
- 2.3.10 Coordinating and directing VEGP emergency operations.
- 2.3.11 Modifying Emergency Plan Implementing Procedures and adjusting Emergency Response Organization staffing.
- 2.3.12 Coordinating NRC activities to reduce the duplication of effort and reduce the impact on the plant staff during the emergency situation.
- 2.3.13 Filling the position of Decision Maker, if Severe Accident Management Guidelines (SAMGs) are implemented.

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3.0 **PREREQUISITES**

- 3.1** The ED has identified an abnormal condition and classified it into one of the four emergency classes: Notification of Unusual Event, Alert, Site Area Emergency or General Emergency, per Procedure 91001-C, "Emergency Classification And Implementing Instructions".
- 3.2** The ED has completed Data Sheet 1, Classification Determination specified in Procedure 91001-C, "Emergency Classification And Implementing Instructions".


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 ED should continue to use appropriate plant procedures in parallel with this and other Emergency Plan Implementing Procedures.
- 4.3** Actions presented in the attached "Emergency Director Checklist" should be completed as required, not necessarily in the order presented.

5.0 **PROCEDURE**

5.1 **ON-SHIFT EMERGENCY DIRECTOR (SHIFT SUPERINTENDENT)**

- 5.1.1** Prior to activation of the ERO, the ED shall utilize on-shift staff as follows:
- 5.1.1.1** Initial notifications and communications to Federal (Savannah River Site (SRS) and NRC), State and local agencies - Control Room Communicators (e.g., Shift Administrative Assistant, operations staff and plant knowledgeable individual for NRC).
 - 5.1.1.2** Notification of personnel in the owner controlled area - Supervisor Nuclear Security (SNS).
 - 5.1.1.3** Activation of the Emergency Recall System – Operations personnel.
 - 5.1.1.4** Radiological accident assessment including dose projections - Health Physics/Chemistry Shared Foreman.
 - 5.1.1.5** Technical Support - Shift Technical Advisor.
 - 5.1.1.6** Damage assessment/control and emergency repairs - Mechanical Maintenance, Electrical Maintenance and Instrumentation and Control personnel.

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5.1.1.7 In-plant radiological protective actions - Health Physics Technicians.

5.1.1.8 Fire fighting - On-shift Fire Brigade.

5.1.1.9 Search and rescue, first aid and decontamination - Health Physics Technicians (as necessary) and other staff.

5.2 TRANSFER OF RESPONSIBILITIES

5.2.1 For an Alert or more severe classification, the Shift Superintendent shall be relieved of his responsibilities as ED by the Nuclear Plant General Manager, Vice President - Project or an alternate. The Shift Superintendent then shall return to operational duties or assume another emergency response position. This also may occur at a Notification of Unusual Event classification.

5.2.2 The Nuclear Plant General Manager, Vice President - Project (or alternate) shall report to the Technical Support Center (TSC) or Control Room before he assumes the position of ED.


5.2.3 The ED or the Shift Supervisor shall brief the Nuclear Plant General Manager, Vice President - Project (or an alternate) concerning plant status, initiating event and classification, status of notifications, and protective and corrective actions.

5.2.4 The Nuclear Plant General Manager, Vice President - Project (or an alternate) shall formally assume from the Shift Superintendent all the responsibilities of the ED position in accordance with "Emergency Director Checklist" of this procedure.

5.2.5 The ED shall complete the actions in Procedure 91001-C, "Emergency Classification And Implementing Instructions", if the Shift Superintendent has not completed them at the time of transfer.

5.2.6 If requested by offsite agencies, the ED shall dispatch GPC or SNC representatives to offsite government centers.

5.2.7 The ED shall turn over ED responsibilities to the TSC Manager for the transit time from the TSC to the Emergency Operations Facility (EOF). A formal relief sheet is not required for this temporary transfer of ED responsibilities.

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5.3 EMERGENCY RESPONSE FACILITY OPERATIONS

NOTE

Emergency Response Facility activation may be delayed by the Emergency Director to protect the health and safety of plant personnel.

5.3.1 The ED may operate from the Control Room, TSC or EOF at his discretion.

5.3.2 For an Alert, the ED may act as the TSC Manager.

NOTE

Standby Status shall consist of personnel at their assigned positions ready to assume responsibility as directed by the ED.

5.3.3 The ED shall place the EOF on standby status for an Alert and may activate it if deemed appropriate. He shall activate it for a Site Area Emergency and General Emergency. The ED should manage the emergency organization from the EOF once it is fully activated.

5.4 EMERGENCY CLASSIFICATION AND NOTIFICATIONS

5.4.1 The ED shall classify (or reclassify, as necessary) an abnormal condition into one of the four emergency classifications in accordance with Procedure 91001-C, "Emergency Classification And Implementing Instructions", and in consultation with the Shift Superintendent. The Data Sheet 1 in Procedure 91001-C, "Emergency Classification And Implementing Instructions", shall be completed by the ED for any reclassification.


5.4.2 The ED shall assure that proper alarms are sounded and proper public address announcements are made per Procedure 91002-C, "Emergency Notifications" to inform onsite personnel of reclassification.

5.4.3 The ED shall determine the need for any onsite or offsite protective actions resulting from the reclassification.

5.4.4 The ED shall assure that the Communicators complete initial notifications (including protective action recommendations) to federal (SRS), state and local authorities per Procedure 91002-C, "Emergency Notifications". Notification of offsite authorities shall be made within 15 minutes of classification or reclassification of an emergency.

5.4.5 The ED shall assure that personnel within the Owner Controlled Area are notified per Procedure 91704-C, "Actions For Security During A Radiological Emergency".

5.4.6 The ED shall determine the need to request offsite assistance.

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5.4.7 The ED shall direct follow-up notifications for an Alert or higher, to offsite authorities at intervals not to exceed 1 hour, or as plant conditions change. The TSC Manager and EOF Manager shall provide input for follow-up notifications.

5.4.8 The ED is responsible for ensuring completion of the Event Notification Worksheet for initial and follow-up notifications to the NRC per Procedure 91002-C, "Emergency Notifications".

5.4.9 The ED shall assure that the Vogtle Duty Manager is notified.

5.5 PROTECTIVE ACTIONS

5.5.1 Per Procedure 91305-C, "Protective Action Guidelines", the ED shall be responsible for onsite protective actions throughout the emergency and for recommending offsite protective actions.

5.5.1.1 Onsite protective actions include evacuation of non-essential personnel and use of protective equipment and supplies.

5.5.1.2 Offsite protective action alternatives, which may be recommended to state and county agencies, include sheltering, evacuation and access control.


5.5.2 The ED should confer with the Health Physics Supervisor, Dose Assessment Manager, TSC Manager and EOF Manager regarding the results of dose projection activities per Procedure 91304-C, "Estimating Offsite Dose", and protective action decisions concerning onsite and offsite radiation exposures.

5.5.3 If a facility is uninhabitable, the TSC Manager (onsite facilities) or EOF Manager (offsite facilities) shall make the decision to evacuate these facilities. If necessary, personnel, equipment and supplies will be relocated to an alternate location.

5.6 EMERGENCY EXPOSURES

5.6.1 Per Procedure 91301-C, "Emergency Exposure Guidelines", the ED shall be responsible for authorizing emergency exposures in excess of 10CFR20 limits for personnel involved in protecting valuable property, lifesaving or the protection of large populations.

5.6.2 The ED may receive recommendations from the HP Supervisor or Dose Assessment Manager concerning the use of KI as a protective measure for the VEGP ERO.

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NOTE

A security related emergency may delay the ordering of assembly and accountability in order to protect plant personnel from the security threat. The decision not to order assembly and accountability will be made by the Emergency Director.


5.7 ASSEMBLY, ACCOUNTABILITY, EARLY DISMISSAL AND SITE EVACUATION

- 5.7.1 Per Procedure 91401-C, "Assembly And Accountability", the ED shall be responsible for ordering assembly and accountability, including the sounding of the plant emergency alarm and completing public address announcements.
 - 5.7.1.1 Assembly and accountability of protected area personnel shall be mandatory for an Alert or higher classification.
 - 5.7.1.2 Protected area accountability shall be completed within approximately 30 minutes of the emergency declaration.
- 5.7.2 Per Procedure 91401-C, "Assembly And Accountability", the ED shall be responsible for ordering the TSC Manager to dispatch a Search and Rescue Team in the event that accountability reveals a missing person.

WARNING

THE SITE SHOULD NOT BE EVACUATED UNDER DANGEROUS WEATHER CONDITIONS.

- 5.7.3 Per Procedure 91403-C, "Site Evacuation", the ED shall be responsible for determining the need for and ordering of early dismissal or site evacuation, including the completion of public address announcements.
 - 5.7.3.1 Evacuation of non-essential personnel, under conditions where contamination of these personnel is likely, shall be required for a Site Area Emergency or General Emergency.
 - 5.7.3.2 The ED may be assisted by the HP Supervisor and Dose Assessment Manager in determining the need for onsite evacuation, best routes and selection of relocation center(s).

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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 91002-C, "Emergency Notifications"
- 6.2.3 91301-C, "Emergency Exposure Guidelines"
- 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 91305-C, "Protective Action Guidelines"
- 6.2.8 91306-C, "Contamination Monitoring And Decontamination"
- 6.2.9 91307-C, "Contaminated Injury"
- 6.2.10 91401-C, "Assembly And Accountability"
- 6.2.11 91403-C, "Site Evacuation"
- 6.2.12 91501-C, "Recovery"
- 6.2.13 60613-C, "Control And Use Of Severe Accident Management Guidelines (SAMG)"
- 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

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INITIAL ACTIONS

NOTE

- a. A security related emergency may delay the ordering of assembly and accountability in order to protect plant personnel from the security threat. The decision not to order assembly and accountability will be made by the Emergency Director.
- b. A Security incident/emergency may require the ED to modify security procedures and/or emergency plan implementing procedures. See page 15 of this procedure for procedure modification instructions.


Verify the following INITIAL actions have been completed. Assign additional personnel and use alternate means as necessary:

1. Event Classification
2. Initial Tone/Public address announcements
3. For ALERT or higher, after normal working hours, have Operations personnel recall off-duty ERO personnel. (In addition to those personnel recalled, Operations, Maintenance, and Security personnel required to report after normal working hours shall be contacted by on-shift personnel from their own respective department.)
4. Notification of ALL State/Local agencies and the NRC

FOLLOW-UP ACTIONS

Complete the following FOLLOW-UP actions (within 30 minutes of the event declaration):

1. "VEGP Management NOUE Notification Checklist," Procedure 91002-C, Checklist 4 (Communicator).
2. Notification of personnel within the Owner Controlled Area using Procedure 91704-C, Checklist A (Security).
3. For an Alert or higher, repeat items 1 and 2 of Procedure 91002-C, Checklist 1 once about 10 minutes after the initial announcement.
4. Assignment of a Status Loop Communicator (Alert or higher classification).

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FOLLOW-UP ACTIONS (Cont'd)

NOTE

- a. A radiological release is defined as a radioactive release to the environment, detected by effluent monitors or environmental monitoring, above normal levels that is attributable to a declared event. Normal levels are the highest reading in the last 24 hours prior to the emergency, excluding the current peak value for effluent monitors.
 - b. In addition, the Emergency Director has the discretion to declare that a radiological release is occurring based on plant conditions that would indicate that a release is in progress. (i.e., A Steam Generator Tube Rupture with an ARV lifting)
5. If a radiological release is involved, conduct Offsite Dose Projection (HP).
 6. Perform and maintain accountability of Operations staff NOT badged into the Control Room.
 7. Determine if Early Dismissal or Site Evacuation is appropriate. Neither is required for an Alert.
 8. Discuss the following with Security:
 - Accountability (give time of event declaration and operations accountability listing), refer to Sheet 3 of this checklist.
 - Early Dismissal/Site Evacuation plans (refer to sheets 4 and 5 of this checklist)
 9. Notify the Vogtle Duty Manager and remind him to contact the Corporate Duty Manager (On Call Project Manager).
 10. Recall off duty operations personnel if needed. If personnel are recalled to the site, ensure that Fitness For Duty has been determined.

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CONTINUING ACTIONS

Complete the following CONTINUING actions:

1. Follow-up ENN message(s).
2. Keep the NRC updated.
3. Make Plant Public address announcements to keep onsite personnel informed of conditions.
4. Implement the following sections of this checklist as appropriate:
 - Assembly and Accountability Sheet 3 of 11
 - Early Dismissal/Site Evacuation Sheet 4 of 11
 - Offsite Assistance Sheet 6 of 11
 - Contaminated Injury Sheet 6 of 11
 - Protective Actions Sheet 6 of 11
 - Emergency Exposure Sheet 7 of 11
 - Reclassification Sheet 7 of 11
 - Team Deployment Sheet 7 of 11
 - Procedure Change or Modification Sheet 8 of 11
 - Emergency Termination Sheet 9 of 11
 - Recovery Sheet 10 of 11
 - Fire Sheet 10 of 11
 - Severe Accident Management Guidelines Sheet 10 of 11
 - Transfer of Responsibilities Sheet 11 of 11

Assembly and Accountability (Procedure 91401-C)

1. Receive a report from the SNS or Security Coordinator on accountability. The TSC should coordinate accounting for missing personnel.
2. Announce on the Plant Page Public address system the names of missing individuals, and request a response.
3. Direct the OSC Manager (HP foreman when the OSC is not activated) to dispatch "Search and Rescue" Teams (Procedure 91401-C), in the event that personnel do not respond to the plant page public address announcement.

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CONTINUING ACTIONS (Cont'd)

WARNING

THE SITE SHOULD NOT BE EVACUATED UNDER DANGEROUS WEATHER CONDITIONS.

Early Dismissal/Site Evacuation (Procedure 91403-C)

NOTE

Early Dismissal is recommended at the Alert level. Action is required at the Site Area and General Emergency levels. During Early Dismissal, a Site Evacuation can be ordered and the exiting personnel can be directed by security to the designated relocation center. If radiological monitoring is needed then Site Evacuation should be conducted.


1. Early Dismissal

- a. Security shall make the following announcement as ordered by the ED on the plant page and site siren public address systems:

"ATTENTION ALL PERSONNEL, ATTENTION ALL PERSONNEL THE EMERGENCY DIRECTOR HAS DIRECTED AN EARLY DISMISSAL OF ALL PERSONNEL NOT DIRECTLY INVOLVED WITH THE EMERGENCY. LEAVE THE PLANT SITE AND PROCEED HOME."

(Repeat the announcement)

- b. Notify personnel within the Owner Controlled Area (OCA) of the Early Dismissal using Procedure 91704-C. (Security)
- c. Notify Burke County Emergency Management Agency of the Early Dismissal. (Security)

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CONTINUING ACTIONS (Cont'd)

2. Site Evacuation

NOTE

The Vogtle Recreation Center is the preferred location and should be used unless wind direction is from 020° to 070°, in which case, Plant Wilson should be used.

- a. Confer with Health Physics regarding the need for evacuation, concurrence on the designated relocation center, and on dispatching a Relocation Center team (if OSC is not activated) for radiological monitoring.
- b. Notify Security, the SNS or Security Coordinator, of the evacuation, the designated relocation center, and the need for traffic control.

NOTE


Security should set up for Site Evacuation prior to the announcement.

- c. Security shall activate the site siren and make the following announcement on the plant page and site siren public address systems:

"ATTENTION ALL PERSONNEL, ATTENTION ALL PERSONNEL. THE EMERGENCY DIRECTOR HAS ORDERED A SITE EVACUATION. ALL PERSONNEL NOT DIRECTLY INVOLVED WITH THE EMERGENCY ARE TO REPORT TO (THE RECREATION AREA/PLANT WILSON). REMAIN THERE UNTIL CLEARED TO LEAVE."

(Repeat the announcement)

- d. Notify Burke County EMA of the Site Evacuation.
- e. Receive periodic reports from Security on the progress of the evacuation.

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CONTINUING ACTIONS (Cont'd)

Offsite Assistance

1. Determine the need to request assistance from offsite support groups.
2. Request Federal assistance other than SRS or NRC through Georgia Emergency Management Agency (GEMA).
3. Assure that Security is notified, to permit access.


Contaminated Injury

1. Evaluate the need for offsite ambulance support and/or hospital support.
2. If offsite ambulance support and/or hospital support is necessary, implement the following procedures as appropriate: 91307-C, "Contaminated Injury", 91103-C, "Duties Of The TSC Manager" (Data sheets 1 and 2).

Protective Actions

- 1.* Confer, as appropriate, with the Health Physics Supervisor, Dose Assessment Manager, TSC Manager and EOF Manager regarding protective action decisions for onsite and offsite radiation exposures. Review dose projections.
- 2.* Evaluate the need for onsite protective actions and for providing protective action recommendations to offsite authorities (Procedure 91305-C, "Protective Action Guidelines").
3. Review habitability of onsite facilities with the TSC Manager and offsite facilities with the EOF Manager.

* Continuing Activity

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CONTINUING ACTIONS (Cont'd)

Emergency Exposure

- 1.* Review emergency exposures as necessary, with the TSC Manager and EOF Manager.
2. If necessary, authorize radiation exposures in excess of 10CFR20 limits (Procedure 91301-C, "Emergency Exposure Guidelines"), as follows:
 - a. Sign Emergency Radiation Exposure Permits (EREP).
 - b. Verbal approval if time is critical.


Reclassification

1. Discuss decision with offsite authorities before reclassifying the event downward.
2. As necessary, reclassify the event per Procedure 91001-C, "Emergency Classification And Implementing Instructions", and in consultation with the TSC Manager, Shift Superintendent, and EOF Manager.
3. Complete any necessary initial actions after reclassification including ordering notifications per appropriate checklist in Procedure 91002-C, "Emergency Notifications".
4. If the EOF has been activated or is in standby status, notify the EOF Manager of the decision to reclassify.

Team Deployment

- 1.* Prior to TSC and OSC activation, determine the need for RETs and dispatch using the following procedures as appropriate:
 - a. Procedure 91302-C, "In-Plant Sampling And Surveys"
 - b. Procedure 91303-C, "Field Sampling And Surveys"
 - c. Procedure 91306-C, "Contamination Monitoring And Decontamination"
 - d. Procedure 91307-C, "Contaminated Injury"
 - e. Procedure 91401-C, "Assembly And Accountability"

* Continuing Activity

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CONTINUING ACTIONS (Cont'd)

2. Review staffing requirements and adjust to suit the emergency.


Procedure Change or Modification

NOTE

It should be assumed that any deviation from an EPIP or Security procedure is a departure from a regulatory commitment unless competent and knowledgeable personnel advise otherwise.

1. Authorize deviations from the Emergency Plan Implementing Procedures or Security Procedures. If these deviations result in a departure from a regulatory commitment (Emergency Plan or Security Plan) or a technical specification under the provisions of 10CFR50.54(x), then, as a minimum, a licensed SRO must approve the action in accordance with 10CFR50.54(y) and the NRC notified in accordance with 10CFR50.72 & 50.73, (one hour report/24 hour report per table 2 of 00152-C and LER).
2. Approve changes to Emergency Plan Implementing Procedures (EPIP) which do not change commitments in the Emergency Plan. These changes should be noted in the ED log and the other ERF Managers informed of the change(s).

* Continuing Activity

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CONTINUING ACTIONS (Cont'd)


Emergency Termination

1. Recognizing the following conditions, the ED has decided to terminate the emergency condition:
 - a. Plant radiation levels are stable or decreasing with time.
 - b. The affected reactor is in a stable condition and can be maintained in that condition indefinitely.
 - c. Fire or other similar emergency conditions no longer constitute a hazard to safety-related systems or equipment or personnel.
 - d. Releases of radioactive materials to the environment have ceased or have been controlled within permissible license limits.

NOTE

An NOUE or an Alert emergency can be terminated without coordination with offsite authorities.

- e. For a site area emergency or general emergency, discussions with plant management, applicable members of the VEGP Emergency Response Organization, offsite authorities (i.e., Nuclear Regulatory Commission, Georgia Emergency Management Agency, Burke County Emergency Management Agency Director, South Carolina Emergency Preparedness Division Director, and the Savannah River Site (SRS) emergency staff) do not result in identification of any valid reason for not terminating the emergency.
2. For an NOUE, close out with a verbal summary (Event description of emergency notification form) to offsite authorities; followed by a written summary within 24 hours per Procedure 91501-C, "Recovery".

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CONTINUING ACTIONS (Cont'd)

3. For an Alert or higher classification, close out with a verbal summary (Event description of emergency notification form) to the offsite authorities, followed by a written summary within 8 hours of termination per Procedure 91501-C, "Recovery".
4. Complete and transmit termination messages for State/Local agencies and the NRC.
5. After the emergency condition has been terminated, proceed as follows:
 - a. Determine if additional support is needed (Recovery Organization).
 - b. Hold a final staff briefing.
 - c. Complete logs and checklists and submit to the facility Support Coordinator.
6. Return the Emergency Response Facilities to a ready condition.

Recovery


1. Implement recovery actions per Procedure 91501-C, "Recovery".

Fire

1. Perform initial actions per Procedure 91001-C, "Emergency Classification And Implementing Instructions".
2. Reclassify the emergency if necessary.

Severe Accident Management Guidelines

1. Diagnose plant conditions and evaluate if a specific guideline entry is required.
2. Evaluate the positive and negative impacts of strategies presented in the guidelines.
3. Respond to severe challenges.
4. Interpret the response of plant parameters following strategy implementation.
5. Assess the effectiveness of implemented strategies and determine whether additional mitigation is needed.

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Transfer of Responsibilities

1. Review with the ED:
 - a. Logs
 - b. Status boards (if applicable)
 - c. Summary of events
 - d. Plant status
 - e. Equipment status
 - f. Emergency classification
 - g. Status of notifications of offsite authorities
 - h. Protective and corrective actions
 - i. Completed checklist items
 - j. Status of facilities activation
 - k. Any noted deficiencies
 - l. Status of assembly and accountability, if initiated
 - m. Outstanding orders
 - n. Recovery plan of action, if known

NOTE

Assure that IMMEDIATE and FOLLOW-UP actions have been completed as necessary prior to proceeding with this section of the checklist.

2. Review facility readiness with facility managers.
3. Ensure that log keeper maintains a log of ED actions and records any transfer of responsibility.
4. Formally assume from the incumbent ED the position of ED, using the following message format:


AT _____ ON _____ I AM ASSUMING THE EMERGENCY
(Time) (Date)

DIRECTOR POSITION AND HEREBY RELIEVE YOU OF ALL EMERGENCY
DIRECTOR RESPONSIBILITIES.

Previous ED Signature _____

Relieving ED Signature _____

5. Following relief, make an announcement to the facility staff regarding the transfer of Emergency Director responsibility.

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REFERENCE USE PROCEDURE

PRB REVIEW REQUIRED

1.0 PURPOSE

The purpose of this procedure is to provide instructions to the Operations Supervisor for plant analysis and support.

2.0 RESPONSIBILITIES

2.1 OPERATIONS SUPERVISOR

2.1.1 Direct operation of the plant to mitigate consequences of incident and restore to safe operating condition.

2.1.2 Analyze plant conditions and advise the TSC Manager.

2.1.3 Assist in the development of procedures for conducting emergency operations.

2.1.4 Support core damage assessment.

2.1.5 Fill the position of Evaluator, if Severe Accident Management Guidelines (SAMGs) are implemented.


3.0 PREREQUISITES

An Alert, Site Area Emergency, or General Emergency has been declared or the Emergency Director (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 procedure.

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5.0 PROCEDURE

5.1 TSC ACTIVATION

5.1.1 For an Alert, Site Area Emergency, or General Emergency, the Operations Supervisor shall report to the TSC and receive a briefing from the TSC Manager.

5.1.2 The Operations Supervisor shall obtain and initiate the "Operations Supervisor Checklist".

5.1.3 Contact the Shift Superintendent at the Control Room and review plant status.

5.2 RECOVERY

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

6.0 REFERENCES


6.1 VEGP EMERGENCY PLAN

6.2 Procedure 91101-C, "Emergency Response Organization"

6.3 Procedure 60613, "Control And Use Of Severe Accident Management Guidelines (SAMG)"

6.4 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

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OPERATIONS SUPERVISOR CHECKLIST

Sheet 1 of 2

DESIGNEES: Operations Manager
 Operations Superintendent(s)
 Shift Superintendent(s)
 Shift Supervisor(s) - (USS & SSS)

RESPONSIBILITY:

Analyze plant conditions and advise TSC Manager, assist in development of procedures for conducting emergency operations.


INITIAL ACTIONS

1. Report to the TSC.
2. Sign in on the Emergency Response Facility Roster.
3. Obtain work packets and emergency identification badge.
4. Contact Shift Superintendent in the Control Room and review plant status.
5. Receive briefing from TSC Manager.

SUBSEQUENT ACTIONS

- 1.* Maintain communications log.
- 2.* Ensure that all classification upgrades/downgrades are communicated over the plant page system.
- 3.* Analyze plant conditions and provide guidance to TSC Manager on means to mitigate the incident.
4. Recommend operation of the plant to mitigate consequences of the incident and restore to safe operating condition.
5. Ensure that the TSC Status Loop Communicator position is manned.
- 6.* Assist the Engineering Supervisor in assessing plant status.

* Continuing Activity

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OPERATIONS SUPERVISOR CHECKLIST

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SUBSEQUENT ACTIONS (Continued)

- 7.* Maintain contact with Shift Superintendent in the Control Room.
- 8.* Assist TSC Manager and ED as needed during reclassification activities.
- 9.* Assist in developing emergency procedures as necessary for conducting emergency operations.
- 10.* Maintain priority status board.
11. Perform relief and complete the General Relief Checklist in Procedure 91101-C, "Emergency Response Organization".
12. Support core damage assessment.
13. Perform the evaluations within the context of Severe Accident Management Guidelines.
 - a. Diagnose plant conditions and evaluate if a specific guideline entry is required.
 - b. Evaluate the positive and negative impacts of strategies presented in the guidelines.
 - c. Respond to severe challenges.
 - d. Interpret the response of plant parameters following strategy implementation.
 - e. Assess the effectiveness of implemented strategies and determine whether additional mitigation is needed.
14. After the emergency condition has been terminated, proceed as follows:
 - a. Collect logs and checklists from your staff and turn over to the TSC Manager.
 - b. Participate in a briefing with the TSC Manager and assist in transition to Recovery Organization.
 - c. Stand by for assignment to the Recovery Organization, return to normal work station, or dismissal.

* 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

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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. A radiological release is defined as a radioactive release to the environment, detected by effluent monitors or environmental monitoring, above normal levels that is attributable to a declared event. Normal levels are the highest reading in the last 24 hours prior to the emergency, excluding the current peak value for effluent monitors.
- b. In addition, the Emergency Director has the discretion to declare that a radiological release is occurring based on plant conditions that would indicate that a release is in progress. (i.e., A Steam Generator Tube Rupture with an ARV lifting)
- c. A dose assessment projection is required within 15 minutes after it is recognized that a known radiological release is in progress. Immediately have a qualified individual go to the "RELEASE ONGOING OR IMMINENT" section of this procedure if a known radiological 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.

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HEALTH PHYSICS SUPERVISOR CHECKLIST

INITIAL ACTIONS CONT'

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

NOTE

- a. 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.
- b. 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 (CF) may be obtained using the offsite dose assessment computer. This can be accomplished by comparing TEDE dose rate to EDE dose rate as follows: $CF = \frac{\text{TEDE dose rate}}{\text{EDE dose rate}}$

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HEALTH PHYSICS SUPERVISOR CHECKLIST

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INITIAL ACTIONS CONT'

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.

5. Direct the formation and briefing of the initial field monitoring team in accordance with procedure 91303-C, "Field Sampling and Surveys", Checklist 2.

NOTE

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.)

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.

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HEALTH PHYSICS SUPERVISOR CHECKLIST

INITIAL ACTIONS CONT'

- 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 " Checklist 1". Direct OSC to perform habitability surveys of the OSC and Plant Entry Security Building (if appropriate).

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.

* Continuing Activity

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HEALTH PHYSICS SUPERVISOR CHECKLIST

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RELEASE ONGOING OR IMMINENT CONT'

- 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.

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.

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HEALTH PHYSICS SUPERVISOR CHECKLIST

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SUBSEQUENT ACTIONS CONT.

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.
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.

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HEALTH PHYSICS SUPERVISOR CHECKLIST


OFFSITE PROTECTIVE ACTIONS CONT.

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.

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.

* Continuing Activity

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HEALTH PHYSICS SUPERVISOR CHECKLIST

ONSITE PROTECTIVE ACTIONS CONT.

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 - $2.7E-7$ μ Ci/cc

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

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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


- 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.

NOTE

Data Sheet 1 may also be used for habitability surveys at the Health Physics Control Point if it is inhabited.

- 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.

* Continuing Activity


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DOSIMETRY PERSONNEL CHECKLIST

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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.

* Continuing Activity

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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.

* Continuing Activity

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DATA SHEET 1

Sheet 1 of 1

HABITABILITY SURVEY

TSC/HPCP 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.