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Vogtle Electric Generating Plant

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Energy to Serve Your World™

October 12, 2000

U. S. Nuclear Regulatory Commission

ATTN: Document Control Desk

Washington, DC 20555

NOG- 01164

**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>
91304-C	12	09/25/00
91501-C	14	09/25/00
91705-C	12	10/04/00

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,

Jeffrey T. Gasser
General Manager

JTG:AEC:jmm

Enclosure: Emergency Plan Implementing Procedure(s)

A045

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REFERENCE USE PROCEDURE

PRB REVIEW REQUIRED

1.0 **PURPOSE**

The purpose of this procedure is to provide instructions for estimating offsite doses.

2.0 **RESPONSIBILITIES**

2.1 The Shift Superintendent shall initially be responsible to ensure that offsite dose calculations are performed.

2.2 The Health Physics/Chemistry (HP/Chem) Shared Foreman is the designated on-shift dose analyst.

2.3 The HP Supervisor shall assume the responsibility for determining release rates and performing offsite dose calculations from the time the Technical Support Center (TSC) is activated until the Emergency Operations Facility (EOF) Dose Assessment is activated.

2.4 The Dose Assessment Manager shall assume the responsibility for offsite dose calculations from the time the EOF Dose Assessment is activated until the need for dose assessment is no longer required.

3.0 **PREREQUISITES**

3.1 An actual release of airborne radioactive material has occurred or a projected release has become a possibility because of an emergency condition.

4.0 **PRECAUTIONS**

4.1 Iodine release rate factors of this procedure were developed based on engineering assumptions. Whenever available, sampling, survey and/or fixed iodine cartridge evaluation results should be utilized to refine these values or as a direct input for iodine release rate(s).

4.2 The accuracy and representatives of the radiological and meteorological data and the accuracy of atmospheric dispersion calculations are such that no more than two significant figures should be used in the final results.

4.3 The dose rates estimated using this procedure are based on conservative meteorological and radiological assumptions and may result in an overestimation of the actual offsite dose rates. Verification by field monitoring teams should be obtained as soon as practicable.

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5.0 **PROCEDURE**

5.1 **COMPUTER DOSE CALCULATIONS**

5.1.1 The Dose Assessment Manager shall assign an individual to collect and record meteorological and radiological data at approximate 30-minute intervals using Data Sheet 1.

5.1.1.1 The Dose Assessment Manager shall assign a dose analyst to perform the computer dose calculations using the Dose Assessment Checklist in this procedure. The initial dose projections should be made within 15 minutes of the radiological release. Dose Projection Calculations subsequent to initial calculation shall be performed at least every 30 minutes if input data is changing (i.e., meteorological, or source term).

5.1.2 The individual assigned to collect and record meteorological and radiological data shall:

5.1.2.1 Obtain meteorological data (Wind Direction from - to, Wind Speed, Stability Class and Precipitation) from one of the following sources in the priority given below. Obtain 15-minute averages for meteorological parameters.

Sources of Meteorological Data:

- a. **Integrated Plant Computer (IPC)**
 - (1) **Primary Met Tower 10 Meters**
 - (2) **Secondary Met Tower 10 Meters**
- b. **Send individual to meteorological towers to call back data.**
- c. **Savannah River Site Emergency Operations Center (number may be obtained from VEGP Emergency Response Telephone Directory)**
- d. **National Weather Service (NWS) (Columbia, S.C.) - wind speed and wind direction (NWS number may be obtained from VEGP Emergency Response Telephone Directory).**



NOTE

Obtain HP Supervisor or Dose Assessment Manager approval prior to using defaults.

- e. Default meteorology: wind speed = 5.4 mph
 wind direction = no predominant direction
 stability class = E
- f. Use Sigma Theta Table, Table 1 to obtain stability class if the computed stability class and delta Temperature data are not available.

5.1.2.2 Obtain weather forecast information from National Weather Service in Columbia, S.C. by commercial telephone.

5.1.2.3 In the event that significant wind speed or stability class changes are expected, perform dose assessment calculation utilizing both current and forecast parameters.

5.1.2.4 Obtain radiological and effluent release data from one of the following sources in the priority given below.

NOTE

Plant Vent Flow Transmitter FT-12835 (Point ID F5106) is seismically qualified and can be used as an alternate for the Plant Vent Source Term Flow Rate during the occurrence of a seismic event. There are no remote indications for FT-12835 and can only be obtained via the Integrated Plant Computer.

Sources of Radiological and effluent release rate data:

- a. IPC
- b. PDC (PERMS Display Console)
- c. Safety Related Display Cabinet (Status Loop Communicator in the Control Room)
- d. Data Processing Module (PERMS)
- e. Direct measurement of effluent path with a portable instrument.
- f. Default values in COMPUTER CODE.



5.1.2.5 Obtain effluent flow rates from the IPC or default flow rates from the following table if the IPC is not available:

RELEASE POINT	DEFAULT FLOW RATE (CFM)	
	Unit 1	Unit 2
Turbine Building Steam Jet Air Ejector	9.0 E+2	
Main Steam Code Safety Valve	5.4 E+3 per valve	
Main Steam Atmospheric Relief Valve (ARV)	3.9E+3	
Turbine Driven Aux Feed Water Pump	3.0E+4	
Containment Leakage	3.8	
Plant Vent Stack to Atmosphere	Unit 1	Unit 2
Normal Flow	1.4E+5	9.5E+4
FHB Ventilation Isolation	1.2E+5	9.5E+4
Containment Ventilation Isolation	5.0E+4	6.0E+3
U-1 Containment and FHB Ventilation Isolation	2.0E+4	9.5E+4
U-1&2 Containment and FHB Ventilation Isolation	2.0E+4	6.0E+3

NOTE

The default release duration (remaining duration) will be used every time MIDAS is run until Operations/Plant Management specifically tells dose assessment personnel that the release will be stopped within a specific time frame.

5.1.2.6 If an estimate of release duration cannot be determined, use the following default release durations.

- a. 1 hour for a non-faulted Steam Generator Tube Rupture (SGTR)
- b. 4 hours for any other Design Based Accident (DBA)

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NOTE

When the "High Alarm" set point is reached or exceeded on the release point gaseous effluent monitors (RE-12839C or RE-12444C), the ODCM limits are being exceeded. Contact Chemistry department if you have any questions when determining if the plant is above or below normal operating limits.

5.1.2.7 When completing items 10 through 15 on the Emergency Notification Network (ENN) form, refer to procedure 91305-C, "Protective Action Recommendations" for possible PAR's. If the release is below normal operating limits in item #12, then report all doses as less than 0.02 mRem in item #13.

5.2 THYROID DOSE FROM FIELD DATA

5.2.1 When air sample data is available from field measurements, and as directed by the Dose Assessment Manager or his designee, perform the following activities:

5.2.1.1 Obtain the net cpm data on the silver Zeolite (AgZ) or charcoal cartridge as reported by the field team to the Monitoring Team Communicator. This information is on Data Sheet 2 of Procedure 91303-C, "Field Sampling And Surveys".

5.2.1.2 Obtain the sample volume, in liters, for the sample specified in the preceding step.

5.2.1.3 Calculate the thyroid dose rate in Worksheet 1.

5.2.2 Report the result obtained in Worksheet 1 to the Dose Assessment Manager. The results may be compared to the field monitoring dose rate calculated by the MIDAS program. (FM Iodine Dose Rate Plot)

5.3 ANALYSIS OF FIELD MONITORING SAMPLES

5.3.1 Upon return of field teams to the vicinity of the EOF, the Dose Assessment Manager should ensure that the air and other samples (soil, vegetation and water) are collected for subsequent analysis.

5.3.2 Perform gamma spectroscopy analysis on the samples and record results.



5.3.3 Calculate the thyroid dose rate from the air sample results in accordance with Worksheet 1 by obtaining, from Chemistry, the isotopic concentration ($\mu\text{Ci/cc}$) of each pertinent Iodine isotope from the gamma spectroscopy and multiplying it by the Dose Conversion Factor ($\text{mRem/hr}/\mu\text{Ci/cc}$). To find the Thyroid CDE Dose Rate, simply add up the totals from the Base Rate Column (mRem/hr). Report the results to the Dose Assessment Manager. The results may be compared to the field monitoring dose rate calculated by the MIDAS program. (FM Iodine Dose Rate Plot).

5.4 FIELD MONITORING READINGS

NOTE

When performing a back calculation, using field monitoring data, the MIDAS software program assumes the dose rate is measured at the plume centerline. The centerline radiation levels should be measured and input into the MIDAS back calculation (using Figure 3), as directed by the dose assessment manager.

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. There is no widely accepted formula on how 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.

5.5 STEAM GENERATOR TUBE RUPTURE/LEAK QUICK DOSE ASSESSMENT

5.5.1 A quick dose assessment for a steam generator tube rupture/leak which results in a release to the environment may be performed using this section when the following conditions exist:

- a. There is no fuel failure.
- b. The RCS leak rate as a result of the rupture/leak is less than 500 gallons per minute (GPM).
- c. The release to the atmosphere is not monitored (i.e. Turbine Driven Aux. Feedwater exhaust, ARV cycling or stuck open S/G Code Safety valve).



NOTE

Chemistry may not be able to obtain a RCS Total Gaseous Activity sample unless affected unit is at normal operating temperature and pressure.

5.5.2 Using the most recent RCS chemistry sample, determine the Off Site Dose as follows:

RCS Total Gas Activity ($\mu\text{Ci/cc}$)	Above or Below ODCM Limits	Off Site Dose TEDE and Thyroid CDE
$\leq 1.0 \text{ E } -01$	Below	$< .02 \text{ mRem}$
$>1.0 \text{ E } -01$ but ≤ 1.0	Above	$< 0.1 \text{ mRem}$
> 1.0 but ≤ 10	Above	$< 1.0 \text{ mRem}$
> 10	Above	see 5.5.2.1 for ODA

5.5.2.1 If the RCS gaseous activity is greater than 10 micro curies per cc, a dose assessment should be performed as follows:

- a. Using the MIDAS computer program, enter the RCS gaseous activity in micro curies per cc for monitor RE-12839C.
- b. Determine the release rate in CFM by multiplying the RCS leak rate in GPM by 0.13, and enter this value for RE-12839 flow.
- c. Use accident type Steam Generator Tube Rupture, one-hour release duration and real meteorology.

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6.0 REFERENCES

6.1 VEGP EMERGENCY PLAN

6.2 PROCEDURES

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

6.2.2 91002-C "Emergency Notifications"

6.2.3 91303-C, "Field Sampling And Surveys"

6.2.4 91305-C, "Protective Action Guidelines"

6.3 VEGP FSAR, Section 11.5.5, Post-Accident Radiation Monitoring.

6.4 VEGP FSAR, Section 2.3.4, Short Term Diffusion Estimates.

6.5 VEGP Offsite Dose Calculation Manual.

6.6 NUREG/CR-3011, "Dose Projection Considerations for Emergency Conditions at Nuclear Power Plants", 1983.

6.7 Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I, Revision 1, 1977.

END OF PROCEDURE TEXT

WORKSHEET NO. 1

Sheet 1 of 1

THYROID DOSE RATE (\dot{D})
FROM FIELD MONITORING DATA

Sample No. _____ Time of Sample _____ Date _____ Location _____

A. FIELD DATA

1. Total volume of air sampled (V): _____ liters

2. Net cpm (Iodine) above background (N): _____ cpm
(Data Sheet 2 of Procedure 91303-C)

B. Thyroid CDE dose rate (\dot{D}): _____ mRem/hr
(Use appropriate expression below to calculate)

NOTE

T is time since reactor shutdown until release occurred.

FOR T < 24 hr: $\dot{D} = \frac{N(12)}{V}$ FOR T > 24 hr: $\dot{D} = \frac{N(65)}{V}$

**SILVER ZEOLITE SAMPLE GAMMA SPECTROSCOPY RESULTS AND
THYROID CDE DOSE RATE DETERMINATION**

Radionuclide	(Concentration) $\mu\text{Ci/cc}$	x	(Dose Conversion Factor) $\frac{\text{mrem/h}}{\mu\text{Ci/cc}}$	=	(Dose Rate) $\frac{\text{mrem}}{\text{h}}$
I-131		x	1.30E+9	=	
I-132		x	7.7E+6	=	
I-133		x	2.2E+8	=	
I-134		x	1.3E+6	=	
I-135		x	3.8E+7	=	
(Thyroid CDE Dose Rate)			$\frac{\text{mrem}}{\text{h}}$	=	

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TABLE 1

SIGMA THETA TABLE

Atmospheric Stability by Standard Deviation of Horizontal Wind Direction, Sigma Theta

<u>STABILITY CLASSIFICATION</u>	<u>SIGMA THETA</u> (degrees)
A Extremely unstable	≥ 22.5
B Moderately unstable	22.5 to 17.5
C Slightly unstable	17.5 to 12.5
D Neutral	12.5 to 7.5
E Slightly stable	7.5 to 3.8
F Moderately stable	3.8 to 2.1
G Extremely stable	<2.1

The accuracy of this method is poor when wind speed is less than 3.4 MPH.

FLOW CHART FOR DOSE ASSESSMENT USING MIDAS

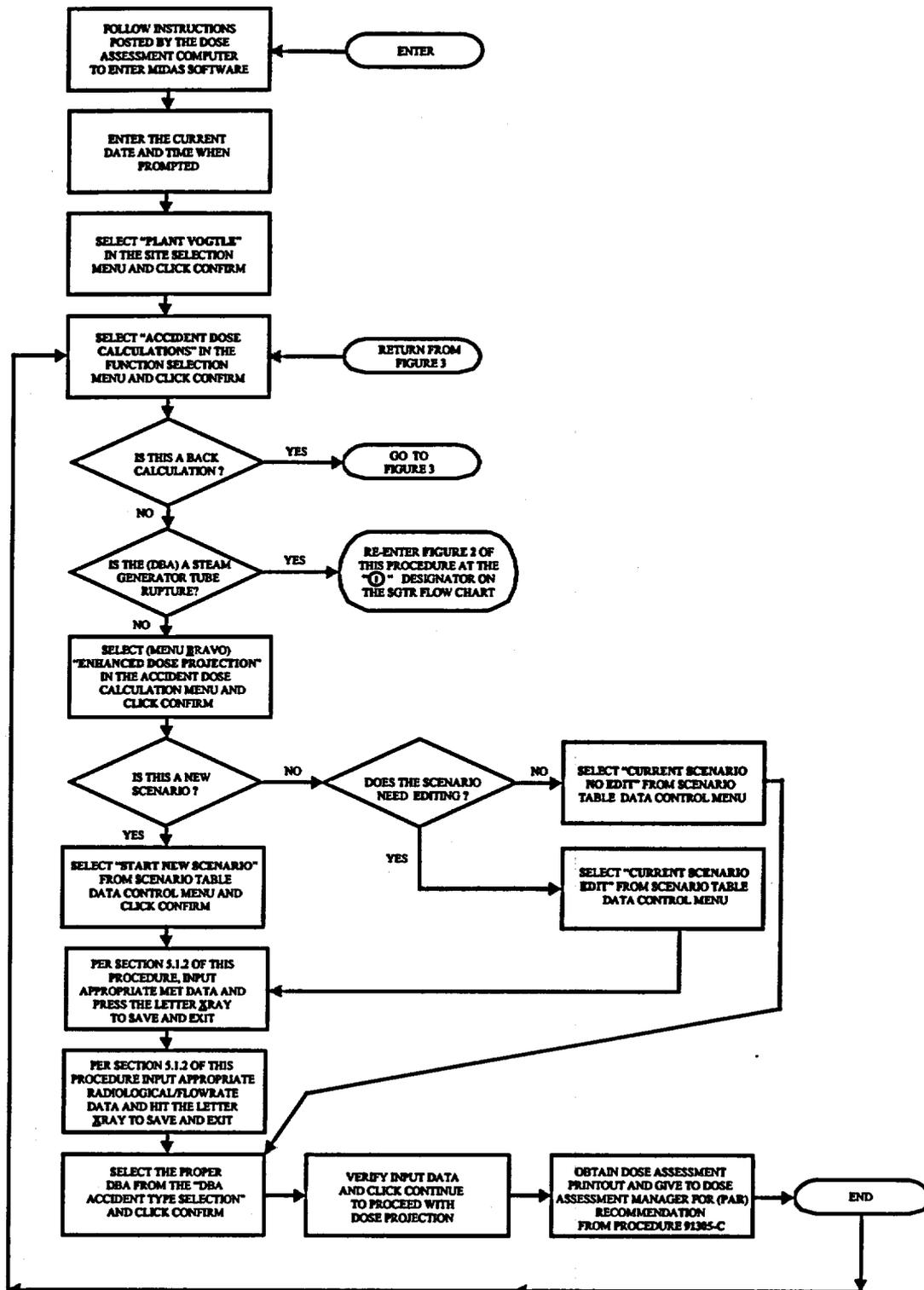
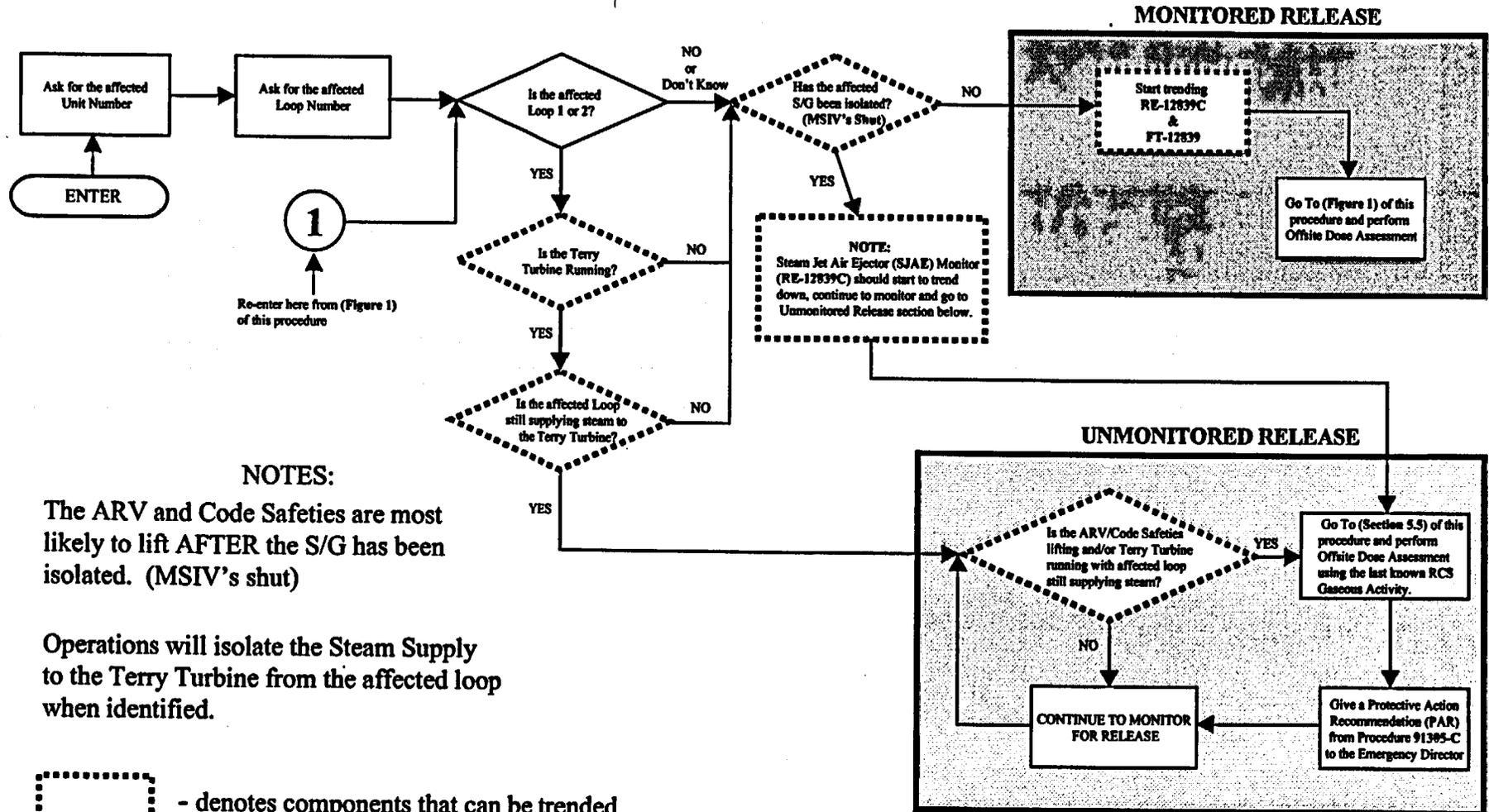


FIGURE 1

FLOW CHART FOR STEAM GENERATOR TUBE RUPTURE



NOTES:

The ARV and Code Safeties are most likely to lift AFTER the S/G has been isolated. (MSIV's shut)

Operations will isolate the Steam Supply to the Terry Turbine from the affected loop when identified.

 - denotes components that can be trended using the Integrated Plant Computer.

FIGURE 2

FLOW CHART FOR DOSE ASSESSMENT BACK CALCULATION USING MIDAS

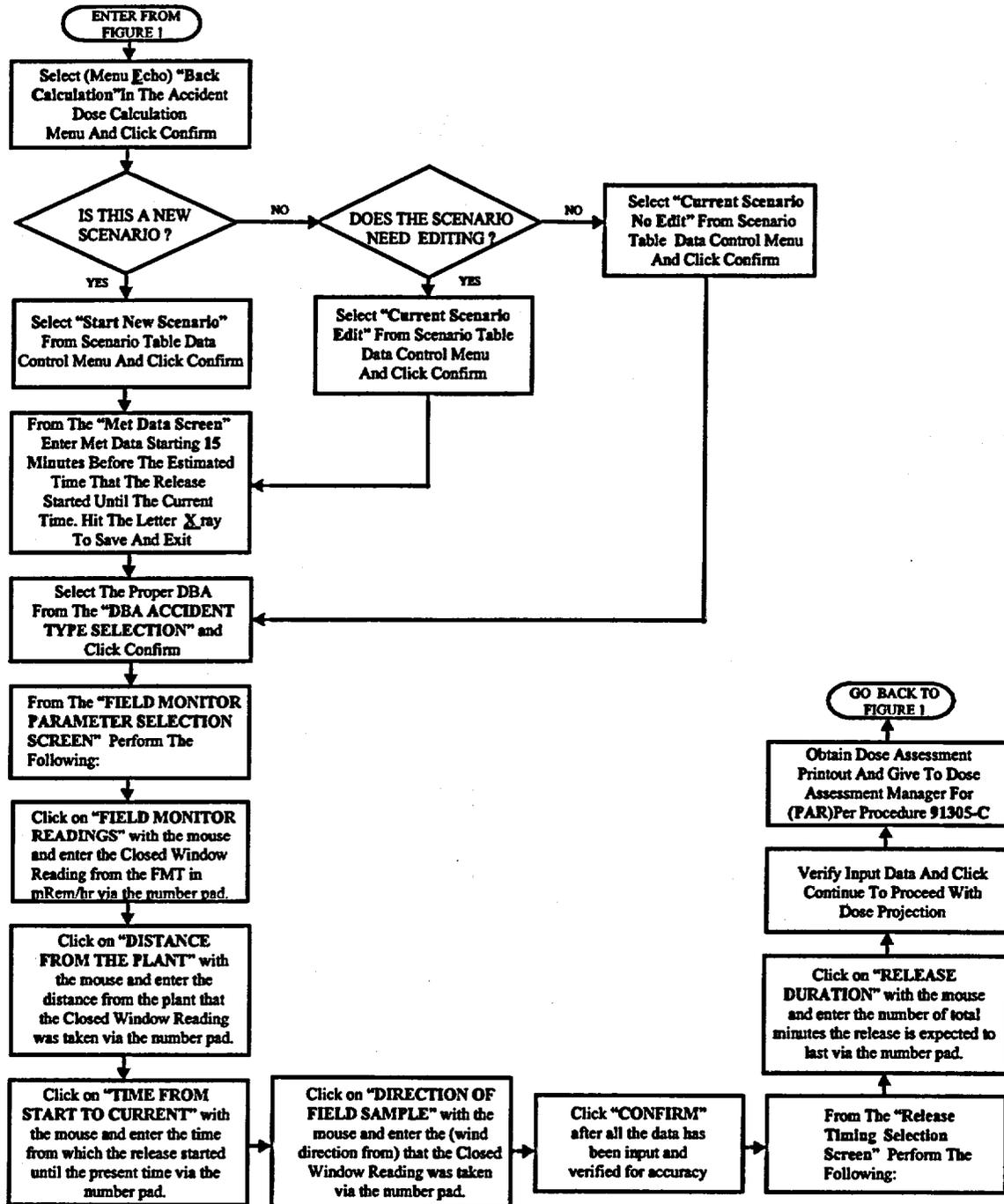


FIGURE 3

DATA SHEET 1
DOSE ASSESSMENT MONITOR LOG

Time / Date /	Primary 10 meter <input type="checkbox"/>	Speed (mph)	Wind Dir.	Stability	Rain (in)	Duration (hrs)
	Second. 10 meter <input type="checkbox"/>					

	Reading	Flow	ARVs (1)	SRVs (5)	Terry Tb (5)
RE-12444C (Plant Vent)			N/A	N/A	N/A
RE-12839C (SJAE)			N/A	N/A	N/A
RE-005/006 (RB Area)			N/A	N/A	N/A
RE-13120 (MS Loop 1)					
RE-13121 (MS Loop 2)					
RE-13122 (MS Loop 3)					N/A
RE-13119 (MS Loop 4)					N/A

Unknown	LOCA	WGDT	CR Eject	L Rotor	Stm Line	SG Tube	Fuel Hdl
---------	------	------	----------	---------	----------	---------	----------

	Reading (uCl/cc)	Field Data	Rate (mr/hr)	Distance (MI)	Time Measured
RCS Total Gaseous					

Remarks

Time / Date /	Primary 10 meter <input type="checkbox"/>	Speed (mph)	Wind Dir.	Stability	Rain (in)	Duration (hrs)
	Second. 10 meter <input type="checkbox"/>					

	Reading	Flow	ARVs (1)	SRVs (5)	Terry Tb (5)
RE-12444C (Plant Vent)			N/A	N/A	N/A
RE-12839C (SJAE)			N/A	N/A	N/A
RE-005/006 (RB Area)			N/A	N/A	N/A
RE-13120 (MS Loop 1)					
RE-13121 (MS Loop 2)					
RE-13122 (MS Loop 3)					N/A
RE-13119 (MS Loop 4)					N/A

Unknown	LOCA	WGDT	CR Eject	L Rotor	Stm Line	SG Tube	Fuel Hdl
---------	------	------	----------	---------	----------	---------	----------

	Reading (uCl/cc)	Field Data	Rate (mr/hr)	Distance (MI)	Time Measured
RCS Total Gaseous					

Remarks

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DOSE ASSESSMENT CHECKLIST

Sheet 1 of 1

INITIAL ACTIONS

NOTE

Shift Superintendent will be the source for the following information prior to Emergency Response Facility activation.

- 1.* Obtain the following information prior to performing Offsite Dose Assessment:
 - a. Affected Unit Number
 - b. Type of Design Base Accident occurring (i.e. LOCA, SGTR)
 - c. Affected Loop Number if DBA is a Steam Generator Tube Rupture
 - d. Plant Conditions (i.e. duration of release)
2. Go to (Figure 2) of this procedure if the DBA is a SGTR.
3. Go to (Figure 1) to perform Offsite Dose Assessment.
- 4.* Once the initial Offsite Dose Assessment has been completed, continue to monitor and trend those parameters that are needed for the DBA that is occurring.

* Continuing Activity

REFERENCE USE PROCEDURE

PRB REVIEW REQUIRED

1.0 PURPOSE

1.1 This procedure provides instructions for determining when an emergency condition will be terminated/downgraded and the recovery phase initiated. It also describes the process used to notify and activate the recovery organization as well as its functions and responsibilities, including management of resources for long-term recovery operations.

2.0 RESPONSIBILITIES

2.1 The Emergency Director (ED) shall be responsible for:

2.1.1 Determining that the emergency condition has ceased and can be officially terminated.

2.1.2 Directing the notification of federal, state and local authorities and the Vogtle Electric Generating Plant (VEGP) Emergency Response Organization (ERO) concerning transition to the recovery phase.

2.1.3 Directing the notification and, in consultation with the Vice President-Project, activation of the recovery organization.

2.2 The Recovery Manager shall have overall responsibility for restoring the plant to a normal operating configuration.

2.3 Recovery organization staff shall be responsible for:

2.3.1 Assuming assigned positions and ensuring that support staff are available and properly briefed.

2.3.2 Ensuring that relief personnel are fully briefed prior to relinquishing their responsibilities.

3.0 PREREQUISITES

3.1 Recognizing the following conditions, the ED has decided to terminate the emergency condition:

3.1.1 Plant radiation levels are stable or decreasing with time.

3.1.2 The affected reactor is in a stable condition and can be maintained in that condition indefinitely.

3.1.3 Fire or other similar emergency conditions no longer constitute a hazard to safety-related systems or equipment or personnel.

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3.1.4 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.

3.1.5 For a Site Area 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.

4.0 PRECAUTIONS

4.1 Personnel assigned to the ERO shall retain their positions until instructions are received from the ED, Recovery Manager or designee concerning return to normal workstations, recovery organization assignments or dismissal.

4.2 Recovery operations will begin when the affected unit is in a controlled, stable condition. No action shall be taken which might upset this situation without the express approval of the Recovery Manager.

4.3 In lieu of any special requirements in place at the time, normal station/unit procedures and practices will be followed concerning maintenance, repair, modification, decontamination and personnel exposure control.

4.4 The recovery organization will only be required for emergencies that cause (or potentially cause) damage to the plant, contamination problems, fuel damage, etc., or as decided by the ED. Regardless of whether the recovery organization is formally activated, the ED will ensure that offsite agencies and the VEGP ERO are informed.

5.0 PROCEDURE

5.1 EMERGENCY TERMINATION AND TRANSITION TO RECOVERY

5.1.1 The ED shall initiate emergency termination and transition to recovery in accordance with Recovery Checklist.

5.1.1.1 After verbal closeout of a Notification of Unusual Event, VEGP will submit a written summary to offsite authorities within 24 hours.

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5.1.1.2 After verbal closeout or class reduction of an Alert, Site Area Emergency, or General Emergency, VEGP will submit a written summary to offsite authorities within 8 hours.

5.1.1.3 The ED in place at emergency termination is responsible for making the closeout report per section 5.1.1.1 or 5.1.1.2 of this procedure.

5.1.2 Notification and activation of the Recovery Organization will be accomplished in accordance with the Recovery Checklist by contacting personnel listed in the Recovery Organization Roster in Data Sheet 1.

5.1.2.1 The directors and managers listed in Data Sheet 1 shall then contact their respective staffs, which are required to support recovery operations.

5.1.2.2 As members of the recovery organization report to VEGP, they shall initially assemble at the EOF for registration, TLD issuance (as required) and briefing.

5.1.3 Recovery Organization Planning Considerations

5.1.3.1 Under the direction of the ED or Recovery Manager, pertinent recovery organization members, as well as selected offsite personnel, shall address the planning and coordination of the recovery effort in accordance with Recovery Checklist.

5.2 RECOVERY ORGANIZATION

5.2.1 Figure 1 is an organization chart for recovery operations. Table 1 lists designees, reporting requirements and functions.

5.2.2 At the direction of the ED or Recovery Manager, certain elements of the VEGP ERO may remain activated to support the recovery operations. In general, the TSC Manager manages this organization upon direction from the Recovery Manager.

5.3 TRANSFER OF COMMAND AND CONTROL RESPONSIBILITY FROM THE EMERGENCY DIRECTOR TO THE RECOVERY MANAGER

5.3.1 After the ED has declared the emergency terminated, the transfer of command and control responsibility from the ED to the Recovery Manager shall be completed in accordance with the Recovery Checklist.

5.4 SPECIAL PROCEDURES AND TRAINING

5.4.1 Normal station/unit procedures and practices shall be used for recovery operations except where special conditions require modifications.

5.4.2 The Recovery Manager shall direct the various managers to supervise the preparation of and training on special recovery procedures, as necessary.

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5.5 RECOVERY OPERATIONS

- 5.5.1 The Recovery Manager shall be responsible for coordinating all recovery operations. He shall also coordinate the transition from the VEGP Emergency Response Organization to the Recovery Organization.
- 5.5.2 The recovery operations/organization will normally be managed from the EOF but the Recovery Manager may choose to operate from another emergency response facility depending upon the situation.
- 5.5.3 During recovery operations, public information and media releases shall be handled in accordance with normal procedures except for approval by the Recovery Manager.
- 5.5.4 Because recovery operations may require substantial time to complete, a comprehensive relief program will be required to ensure necessary information is effectively transferred. The relief personnel shall report to the Scheduling/Planning Manager for processing, and review the following with their respective counterparts:
 - 5.5.4.1 Status Boards
 - 5.5.4.2 Logs
 - 5.5.4.3 Corrective and protective actions - past, present and planned
 - 5.5.4.4 Summary of events
 - 5.5.4.5 Plant status
 - 5.5.4.6 Equipment and supplies status
 - 5.5.4.7 Procedures status
 - 5.5.4.8 Schedules
 - 5.5.4.9 Support staff that are available and anticipated
 - 5.5.4.10 Reporting requirements
- 5.5.5 After receiving the briefing, relief personnel shall formally assume respective positions and outgoing personnel shall report to the Administrative/Logistics Manager for exit processing.

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6.0 REFERENCES

6.1 VEGP EMERGENCY PLAN

6.2 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", November 1980

6.3 Atomic Industrial Forum, "Nuclear Power Plant Emergency Response Plan, October 11, 1979

6.4 10 CFR 50.72

6.5 Procedure 91002-C, "Emergency Notifications"

END OF PROCEDURE TEXT

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J. T. Gasser

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TABLE 1

RECOVERY ORGANIZATION RESPONSIBILITIES

RECOVERY POSITION	DESIGNEES	REPORTS TO	FUNCTION
Recovery Manager	<ul style="list-style-type: none">• Nuclear Plant General Manager• Assistant General Manager (s)	Vice President-Project	Overall management responsibility for the recovery operation. Directs the transition from the Emergency Response Organization to the Recovery Organization. Manages all communication with offsite agencies, coordinates VEGP activities with vendors and contractors. Approves press releases.
Plant Operations Manager	<ul style="list-style-type: none">• Assistant General Manager (s)• Operations Manager• Operations Superintendent	Recovery Manager	Manages day-to-day in-plant operations and, during recovery, is responsible for ensuring that repairs and modifications will optimize post-recovery plant operational effectiveness and safety.

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TABLE 1 (Cont'd.)

RECOVERY ORGANIZATION RESPONSIBILITIES

RECOVERY POSITION	DESIGNEES	REPORTS TO	FUNCTION
Design and Construction Support Manager	<ul style="list-style-type: none">• Assistant General Manager (s)• Maintenance Manager• Outage and Modifications Manager	Recovery Manager	Focuses necessary engineering, design, and construction resources on those aspects of plant recovery requiring redesign, modification, or new construction; directs and coordinates nuclear steam system supply and balance of plant engineering and construction/repair work.
Radcon/Radwaste Manager	<ul style="list-style-type: none">• Operations Superintendent• Chemistry Superintendent	Recovery Manager	Develops plan and procedures to process and control liquid, gaseous, and solid wastes to minimize adverse effects on the health and safety of the public and plant recovery personnel. In addition this position coordinates the activities of health physics specialists and radiation protection personnel engaged in waste treatment operations.
Technical Support Manager	<ul style="list-style-type: none">• Engineering Support Manager• Engineering Supervisor (s)	Recovery Manager	Provides analyses, plans, schedules, and procedures in direct support of plant operations.

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J. T. Gasser

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TABLE 1 (Cont'd.)

RECOVERY ORGANIZATION RESPONSIBILITIES

RECOVERY POSITION	DESIGNEES	REPORTS TO	FUNCTION
Quality Assurance Manager	<ul style="list-style-type: none">• SAER Supervisor• ISEG Supervisor	Recovery Manager	Ensures that the overall conduct of recovery operations is performed in accordance with corporate policy and rules and regulations governing activities which may affect public health and safety.
Scheduling/Planning Manager	<ul style="list-style-type: none">• Outage and Modifications Manager• Supervisor Work Planning and Controls	Recovery Manager	Prepares plans, schedules and track/expedite recovery operations.
Administrative/Logistics Manager	<ul style="list-style-type: none">• Plant Admin. Manager• Operations Support Superintendent	Recovery Manager	Supplies administrative, logistics, communications, and personnel support for the recovery operations.
Public Information Director	<ul style="list-style-type: none">• Public Information Director• Emergency Communications Manager	Recovery Manager	Coordinates the flow of media information concerning plant recovery operations.

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TABLE 1 (Cont'd.)

RECOVERY ORGANIZATION RESPONSIBILITIES

RECOVERY POSITION	DESIGNEES	REPORTS TO	FUNCTION
Health Physics and Chemistry Manager	<ul style="list-style-type: none">• Health Physics and Chemistry Manager• Health Physics Superintendent	Recovery Manager	Responsible for ALARA planning, execution, and monitoring. Plans and manages decontamination of affected areas and equipment. Supervises and directs all special radiological controls, radiochemistry, and chemistry activities required to support the recovery operation. Coordinate environmental assessment activities with Manager Environmental Services. Provide radiological information including estimated quantity of radioactivity released, isotopic composition of released material, and meteorological data to the offsite authorities.



RECOVERY ORGANIZATION CHART

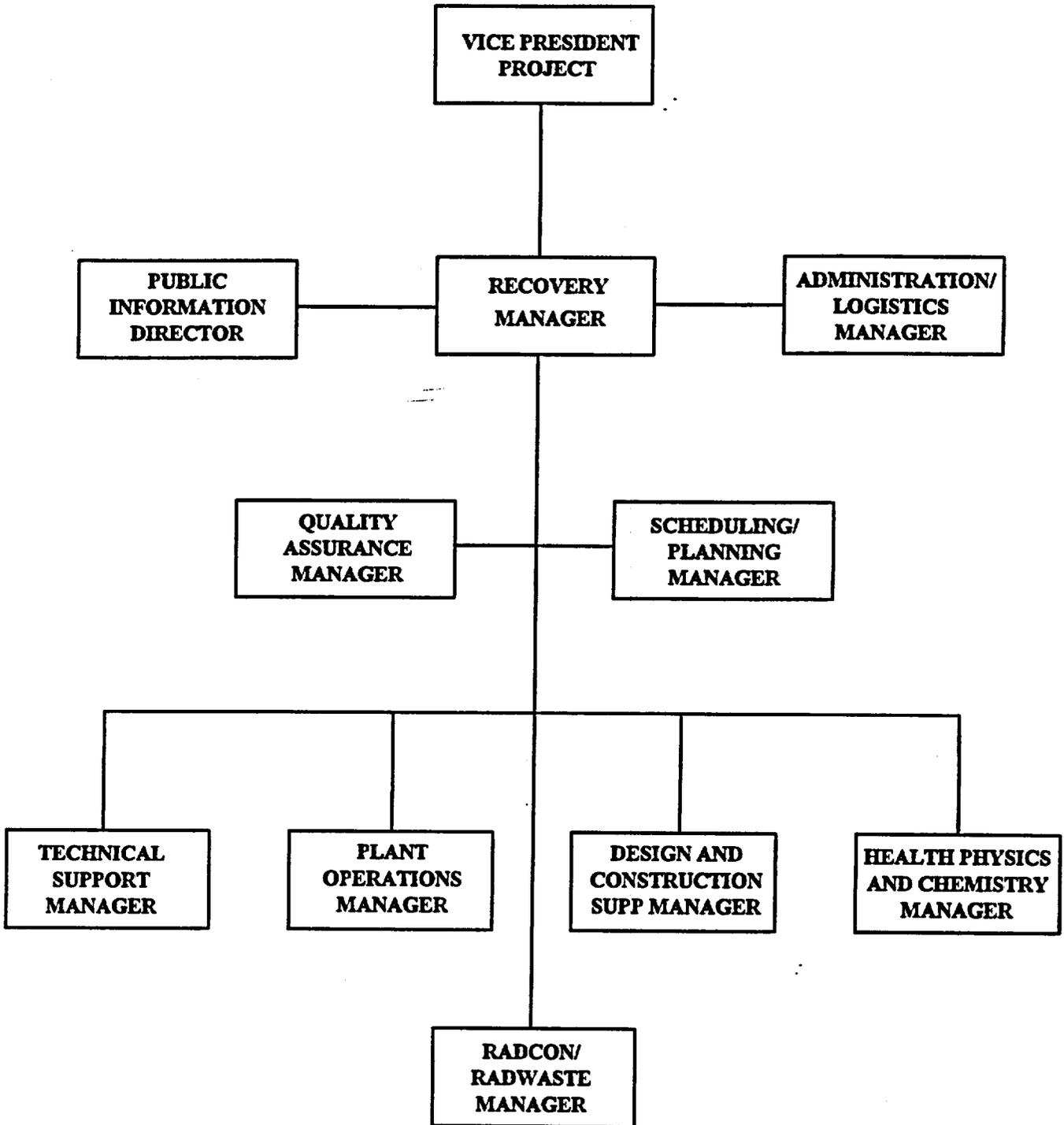


Figure 1

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Vogtle Electric Generating Plant 

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DATA SHEET 1

Sheet 1 of 2

RECOVERY ORGANIZATION ROSTER

Recovery Position	Notified (Time)
--------------------------	------------------------

Recovery Manager

1st _____ / _____

2nd _____ / _____

Plant Operations Manager

1st _____ / _____

2nd _____ / _____

Design/Construction Support Manager

1st _____ / _____

2nd _____ / _____

Radcon/Radwaste Manager

1st _____ / _____

2nd _____ / _____

Technical Support Manager

1st _____ / _____

2nd _____ / _____

Note
1st Shift
2nd Shift

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DATA SHEET 1

Sheet 2 of 2

RECOVERY ORGANIZATION ROSTER

Recovery Position	Notified (Time)
--------------------------	------------------------

Quality Assurance Manager

1st _____ / _____

2nd _____ / _____

Scheduling/Planning Manager

1st _____ / _____

2nd _____ / _____

Administration/Logistics Manager

1st _____ / _____

2nd _____ / _____

Public Information Director

1st _____ / _____

2nd _____ / _____

Health Physics and Chemistry Manager

1st _____ / _____

2nd _____ / _____

Note
1st Shift
2nd Shift

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RECOVERY CHECKLIST

DESIGNEES : Initially, Emergency Director
 Subsequently, Recovery Manager

RESPONSIBILITY:

Determine that the emergency condition has ceased and can be officially terminated. Direct notification of offsite authorities and VEGP ERO concerning transition to the recovery phase. Direct the notification and in consultation with the Vice President - Project, activation of the recovery organization. Direct the restoration of the plant to a normal operating configuration.

INITIAL ACTIONS

1. Consult with the Vice President -Project and offsite authorities regarding termination of the emergency condition.
2. Decide to terminate the emergency condition recognizing the following conditions:
 - a. Plant radiation levels are stable or decreasing with time;
 - b. 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 have ceased or have been controlled to within permissible license limits;
 - e. Discussions with plant management, applicable members of the VEGP ERO and, if necessary, with offsite authorities do not result in the identification of any valid reason for not terminating the emergency.
3. Designate the Recovery Organization by completing Data Sheet 1.
4. Prior to activation of the Recovery Organization, the ED shall coordinate all recovery operations that may have offsite effects (e.g., controlled release of radioactive material or transport of significant quantities of radioactive waste) with appropriate offsite agencies.
5. Designate the command center for the recovery organization. The recovery operations/organization will normally be managed from the EOF but the Recovery Manager may choose to operate from another emergency response facility depending upon the situation.

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RECOVERY CHECKLIST

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SUBSEQUENT ACTIONS

Notification

1. Complete Checklist 2, Emergency Notification Form per Procedure 91002-C, "Emergency Notifications".
2. Designate a Communicator to transmit the Event Termination Message in accordance with Checklists 2 and 3 of Procedure 91002-C, "Emergency Notifications".
3. Ensure that representatives of offsite agencies who were stationed at the EOF or who report to the plant for monitoring recovery operations, are kept informed of the status of the situation.
4. Designate a Communicator to notify VEGP ERO personnel (onsite and offsite) listed in the Recovery Organization Roster in Data Sheet 1, and other designated staff who will be part of the Recovery Organization.

Transfer of Command and Control

1. Consult with the Vice President -Project to appoint a Recovery Manager.
2. Review with the appointed Recovery Manager the following topics:
 - a. Status of notifications to offsite authorities;
 - b. Status of public information activities;
 - c. Plant conditions and areas/systems impacted;
 - d. Chronology of event associated with the emergency;
 - e. Offsite support groups participating in the emergency;
 - f. Plans of offsite authorities for monitoring recovery activities;
 - g. Members of the VEGP ERO who should continue short-term recovery operations to provide continuity of efforts;

RECOVERY CHECKLIST

Sheet 3 of 5

SUBSEQUENT ACTIONS, CONT.

- h. VEGP emergency facilities, which should remain, activated or partially activated to ensure availability of manpower, equipment and supplies;
- i. Initial plans and schedules relating to short-term recovery operations.
- 3. Formally transfer responsibilities for recovery operations to the Recovery Manager.
- 4. Ensure that the VEGP ERO and offsite authorities are advised that the Recovery Manager has assumed command responsibilities.
- 5. Direct the collection of all records, logs and checklists.

Recovery Phase (Recovery Manager)

- 1. Discuss, prioritize and plan, with Recovery Organization members and selected offsite personnel, activities to be performed during the recovery phase.

The activities discussed should include:

- a. Isolation and repair of damaged systems;
- b. Modification and installation to optimize post recovery plant operational effectiveness and safety;
- c. Decontamination of affected areas(s) and equipment;
- d. Need for portable shielding;
- e. Need for special procedures;
- f. Maintaining comprehensive radiation surveillance of the site until levels return to normal;
- g. Control of access to the affected area(s) of the plant and exposure to workers;
- h. Documentation of proceedings of the accident and review the effectiveness of the ERO in mitigating plant damage and reducing radiation exposures to the public;

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RECOVERY CHECKLIST

Recovery Phase (Recovery Manager) Cont'd

- i. Providing assistance with recovery activities undertaken by State and County authorities, if requested;
 - j. Providing Public Information the status of recovery operations via releases to the media and coordinate the flow of media information concerning recovery operations;
 - k. Developing plans and procedures to process and control liquid, gaseous and solid wastes to minimize adverse effects on the health and safety of the public and plant recovery personnel;
 - l. Coordinating the activities of the staff radiological engineers and radiation protection personnel engaged in waste treatment operations;
 - m. Ensuring that the overall conduct of recovery operations is performed in accordance with corporate policy and rules and regulations governing activities, which may affect public health and safety.
2. Ensure that the Scheduling/Planning Manager develops an overall recovery schedule.
3. Utilize VEGP facilities and recovery organization personnel as necessary to perform required recovery operations. Coordinate overall recovery operations including:
- a. Manpower resources (including contractors);
 - b. Equipment and supplies resources;
 - c. Communications;
 - d. Updates to Federal, State and Local agencies;
 - e. Approval of media releases;
 - f. Repair and maintenance activities;
 - g. Approval of procedure modifications;
 - h. Special procedures and training;
 - i. Team deployment and briefings;

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RECOVERY CHECKLIST

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Recovery Phase (Recovery Manager) Cont'd

- j. Development of shift schedules;
 - k. Relief.
4. Ensure samples from fixed monitoring stations are collected after termination of a radioactive release and analyzed for use in defining the trajectory, radioactivity, and impact of the released plume.

NOTES

- a. Data from fixed monitoring stations (TLDs and air samplers) will be utilized to estimate whole body population dose.
 - b. Data from air samplers, vegetation and milk will be used to estimate doses.
5. Ensure offsite authorities are kept informed of recovery operations. This includes providing information on release rates of radioactivity, quantity, isotopic composition, meteorological data and similar information so that the States of Georgia, South Carolina, and SRS can calculate population exposure of the public in the plume exposure and ingestion pathway EPZs.

Final Conditions

1. When it is verified that technical specifications are in compliance, declare the conclusion of recovery operations and resumption of normal operations.
2. Ensure that all Federal, State and Local offsite response agencies are notified of the conclusion of recovery operations.
3. Hold a final briefing with Recovery Organization personnel and request preparation of reports, as necessary.
4. Instruct the Administrative/Logistics Manager to collect all recovery operations documentation and process these for permanent storage.

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PRB REVIEW REQUIRED

1.0 **PURPOSE**

The purpose of this procedure is to provide instructions for conducting an inventory and testing of emergency preparedness materials/equipment which are not part of the emergency kits.

2.0 **RESPONSIBILITY**

The Emergency Preparedness Coordinator (EPC) shall be responsible for the periodic inventory, testing, maintenance and replacement of emergency preparedness materials/equipment which are not part of emergency kits.

3.0 **PREREQUISITES**

NONE

4.0 **PRECAUTIONS**

NONE

5.0 **PROCEDURE**

5.1 Inventory of Emergency Preparedness material/equipment which are not part of the emergency kits shall be performed every six months or more frequently, as deemed necessary by the EPC.

5.2 Testing of the Integrated Plant Computer (IPC) shall be performed monthly.

5.3 An operational test of the Emergency Operations Facility (EOF) ventilation system shall be performed quarterly.

5.4 The inventory and/or test shall be conducted using the Data Sheets included in this procedure for the following locations:

5.4.1 Technical Support Center (TSC) Inventory - Data Sheet 1.

5.4.2 Control Room (CR) Inventory - Data Sheet 2.

5.4.3 Operations Support Center (OSC) Inventory - Data Sheet 3.

5.4.4 Emergency Operations Facility (EOF) Inventory - Data Sheet 4.

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- 5.4.5 Back-up Emergency Operations Facility (BEOF) Inventory - Data Sheet 5.
- 5.4.6 TSC and EOF Plant Computer Test - Data Sheet 6.
- 5.4.7 EOF Ventilation System Operational Test - Data Sheet 7.
- 5.5 The EPC shall assign an individual to conduct an inventory and/or test if either of the following conditions exist:
 - 5.5.1 The six month inventory and/or monthly/quarterly testing schedule is due.
 - 5.5.2 Damage or loss of materials/equipment is suspected or apparent.
- 5.6 When materials/equipment are found to be inoperable, damaged, or missing, they should be repaired or replaced.
- 5.7 If immediate repair or replacement of inoperable, damaged, or missing materials/equipment is not possible, denote it as such on the appropriate Data Sheet and notify the EPC.
- 5.8 Upon completion of the inventory and/or test, the person(s) performing that task shall sign, date, and forward the Data Sheets to the EPC.
- 5.9 The EPC shall notify the Manager Training and Emergency Preparedness in writing if:
 - a. A semi-annual requirement has not been performed before June 30 or December 31, as appropriate.
 - b. A quarterly test requirement has not been performed before the last day of the calendar quarter in which it was due.
 - c. A monthly requirement has not been performed before the last day of the calendar month in which it was due.
- 5.10 The EPC shall coordinate the replacement and maintenance of equipment and supplies.
- 5.11 The EPC may designate steps as N/A when deemed appropriate.
- 5.12 A file of the Data Sheets shall be maintained by the EPC for a period of one year.

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6.0 REFERENCES

6.1 PROCEDURES

- 6.1.1 91201-C, "Activation And Operation Of The Technical Support Center"
- 6.1.2 91202-C, "Activation And Operation Of The Operations Support Center"
- 6.1.3 91203-C, "Activation And Operation Of The Emergency Operations Facility"
- 6.1.4 91204-C, "Emergency Response Communications"
- 6.1.5 91702-C, "Emergency Equipment And Supplies"
- 6.1.6 13505-1 "Integrated Plant Computer"

END OF PROCEDURE TEXT

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DATA SHEET 1

Sheet 1 of 6

TECHNICAL SUPPORT CENTER (TSC) INVENTORY

Check the correct block for each item appropriately:

- YES, denotes the item(s) is present and operating correctly.
- NO, denotes the item(s) is missing or "Out of Service".
- () denotes the quantity of items that should be present in excess of one (1).

STATUS BOARDS, CHARTS, AND MAPS

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
<input type="checkbox"/>	<input type="checkbox"/>	VEGP - Technical Support Center Layout
<input type="checkbox"/>	<input type="checkbox"/>	Emergency Level Magnetic Signs (5)
<input type="checkbox"/>	<input type="checkbox"/>	Emergency Team Status Board
<input type="checkbox"/>	<input type="checkbox"/>	Sequence of Events Status Board
<input type="checkbox"/>	<input type="checkbox"/>	Plant Parameter Status Board
<input type="checkbox"/>	<input type="checkbox"/>	Radiation Monitor/Habitability Status Board
<input type="checkbox"/>	<input type="checkbox"/>	VEGP 10 mile EPZ (wall mounted)
<input type="checkbox"/>	<input type="checkbox"/>	TSC Organizational Chart
<input type="checkbox"/>	<input type="checkbox"/>	Field Monitoring Teams Status Board
<input type="checkbox"/>	<input type="checkbox"/>	Field Team Data Status Board

DATA SHEET 1

Sheet 2 of 6

TECHNICAL SUPPORT CENTER (TSC) INVENTORY

REFERENCE MATERIAL

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
[]	[]	Projected Dose Status Board
[]	[]	VEGP Site Plan map board (wall mounted in HP area)
[]	[]	VEGP 10 mile EPZ map board (wall mounted in HP area)
[]	[]	VEGP Plant Photo
[]	[]	"Keep Out-Drill in Progress", Magnetic Sign (2)
[]	[]	"No Eating, Drinking, Smoking or Chewing in this Area", Magnetic Sign
[]	[]	VEGP Emergency Response Telephone Directories (3)
[]	[]	Augusta Phone Book
[]	[]	Waynesboro Phone Book
[]	[]	Precautions/Limitations and Set Points Manual
[]	[]	VEGP Emergency Plan
[]	[]	Operations Work Planning Loads Test Manual
[]	[]	VEGP Tech Specs
[]	[]	VEGP Combined Spill Prevention Control Countermeasure (SPCC)
[]	[]	<u>CRC Standard Mathematical Tables</u>
[]	[]	<u>Handbook of Modern Electronics And Electrical Engineering</u>
[]	[]	Fire Protection Boundary List
[]	[]	Plant Technical Data Book Unit 1

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TECHNICAL SUPPORT CENTER (TSC) INVENTORY

REFERENCE MATERIAL (Cont'd)

YES	NO	ITEM(S)
<input type="checkbox"/>	<input type="checkbox"/>	Plant Technical Data Book Unit 2
<input type="checkbox"/>	<input type="checkbox"/>	Equipment Index (U-1 - 1X4DR010, U-2 - 2X4DR010)
<input type="checkbox"/>	<input type="checkbox"/>	Chemistry Procedures Manuals
<input type="checkbox"/>	<input type="checkbox"/>	Safety Related Pump Vendor Manuals
<input type="checkbox"/>	<input type="checkbox"/>	Sequence of Events Log - TSC
<input type="checkbox"/>	<input type="checkbox"/>	TSC Manager Packet
<input type="checkbox"/>	<input type="checkbox"/>	Emergency Director Packet
<input type="checkbox"/>	<input type="checkbox"/>	Health Physics Supervisor Packet
<input type="checkbox"/>	<input type="checkbox"/>	Security Coordinator Packet
<input type="checkbox"/>	<input type="checkbox"/>	Chemistry Supervisor Packet
<input type="checkbox"/>	<input type="checkbox"/>	Operations Supervisor Packet
<input type="checkbox"/>	<input type="checkbox"/>	Maintenance Supervisor Packet
<input type="checkbox"/>	<input type="checkbox"/>	ENN Communicator Packet
<input type="checkbox"/>	<input type="checkbox"/>	Engineering Supervisor Packet
<input type="checkbox"/>	<input type="checkbox"/>	EPIP's, Series 91000, TSC #1
<input type="checkbox"/>	<input type="checkbox"/>	EPIP's, Series 91000, TSC #2
<input type="checkbox"/>	<input type="checkbox"/>	INPO Emergency Resources Manual
<input type="checkbox"/>	<input type="checkbox"/>	Operations Procedures, Series 12000

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TECHNICAL SUPPORT CENTER (TSC) INVENTORY

REFERENCE MATERIAL (Cont'd)

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
<input type="checkbox"/>	<input type="checkbox"/>	Operations Procedures, Series 18000
<input type="checkbox"/>	<input type="checkbox"/>	Operations Procedures, Series 13000
<input type="checkbox"/>	<input type="checkbox"/>	Operations Procedures, Series 19000
<input type="checkbox"/>	<input type="checkbox"/>	Health Physics Manual
<input type="checkbox"/>	<input type="checkbox"/>	Instrument Log Listing (Microfiche)
<input type="checkbox"/>	<input type="checkbox"/>	Roots, Vents, Drains, and Instrument Control Valve Designation (U-1 - 1X4DR007, U-2 - 2X4DR007)
<input type="checkbox"/>	<input type="checkbox"/>	Power Supply List
<input type="checkbox"/>	<input type="checkbox"/>	FSAR
<input type="checkbox"/>	<input type="checkbox"/>	Savannah River Site Emergency Plan
<input type="checkbox"/>	<input type="checkbox"/>	State of Georgia Radiological Emergency Plan, Annex C, Savannah River Site
<input type="checkbox"/>	<input type="checkbox"/>	State of Georgia Radiological Emergency Plan, Annex F
<input type="checkbox"/>	<input type="checkbox"/>	State of Georgia Radiological Emergency Plan, Annex D, Plant Vogtle
<input type="checkbox"/>	<input type="checkbox"/>	State of Georgia Radiological Emergency Plan, Base Plan
<input type="checkbox"/>	<input type="checkbox"/>	Radiological Emergency Response Plans for Aiken, Allendale, and Barnwell Counties in South Carolina
<input type="checkbox"/>	<input type="checkbox"/>	Valve Location Unit 1
<input type="checkbox"/>	<input type="checkbox"/>	Valve Location Unit 2

DATA SHEET 1

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TECHNICAL SUPPORT CENTER (TSC) INVENTORY

REFERENCE MATERIAL (Cont'd)

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
<input type="checkbox"/>	<input type="checkbox"/>	P&ID's Unit 1, 2 and Common
<input type="checkbox"/>	<input type="checkbox"/>	Plant Procedures Index
<input type="checkbox"/>	<input type="checkbox"/>	South Carolina Operational Radiological Emergency Response Plan
<input type="checkbox"/>	<input type="checkbox"/>	<u>CRC Handbook of Chemistry and Physics</u>
<input type="checkbox"/>	<input type="checkbox"/>	<u>Mark's Standard Handbook for Mechanical Engineers</u>
<input type="checkbox"/>	<input type="checkbox"/>	<u>NBS/NRC Steam Tables</u>
<input type="checkbox"/>	<input type="checkbox"/>	10 CFR
<input type="checkbox"/>	<input type="checkbox"/>	Core Operating Limits Reports
<input type="checkbox"/>	<input type="checkbox"/>	SAMG's (3)
<input type="checkbox"/>	<input type="checkbox"/>	Evaluation by Plant Engineering Staff (ERG background information)

OTHER MATERIALS/EQUIPMENT

<input type="checkbox"/>	<input type="checkbox"/>	Facsimile Paper - 1 roll per facsimile type
<input type="checkbox"/>	<input type="checkbox"/>	Copy Machine & Paper (2 Pkgs)
<input type="checkbox"/>	<input type="checkbox"/>	Copy Machine Dry Ink
<input type="checkbox"/>	<input type="checkbox"/>	Copy Machine Cartridge
<input type="checkbox"/>	<input type="checkbox"/>	Dose Assessment Computer Systems
<input type="checkbox"/>	<input type="checkbox"/>	Printer Paper (Dose Assessment Computer)
<input type="checkbox"/>	<input type="checkbox"/>	Clocks (3)

Approved By
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**INVENTORY AND TESTING OF EMERGENCY PREPAREDNESS
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TECHNICAL SUPPORT CENTER (TSC) INVENTORY

OTHER MATERIALS/EQUIPMENT (Cont'd)

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
[]	[]	Telephone Headset (Status Loop Communicator)
[]	[]	Microfiche reader
[]	[]	Power strip
[]	[]	Aperture card viewer (hand held)
[]	[]	Hand Held Radio (Channel 5)
[]	[]	IPC Video Copier Paper (1 roll)
[]	[]	IPC Video copier donor film (1 roll)

COMMENTS: _____

Inventoried by: _____ Date: _____

Reviewed by: _____ Date: _____

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DATA SHEET 2

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CONTROL ROOM (CR) INVENTORY

Check the correct block for each item appropriately:

- YES, denotes the item(s) is present and operating correctly.
- NO, denotes the item(s) is missing or "Out of Service".
- () denotes the quantity of items that should be present in excess of one (1).

REFERENCE MATERIAL

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
<input type="checkbox"/>	<input type="checkbox"/>	EPIP's, Series 91000, Control Room
<input type="checkbox"/>	<input type="checkbox"/>	VEGP - Technical Specifications
<input type="checkbox"/>	<input type="checkbox"/>	VEGP Emergency Response Telephone Directory
<input type="checkbox"/>	<input type="checkbox"/>	Notification and Classification forms (3 sets)
<input type="checkbox"/>	<input type="checkbox"/>	VEGP Emergency Plan
<input type="checkbox"/>	<input type="checkbox"/>	Plant Operating Procedures
<input type="checkbox"/>	<input type="checkbox"/>	Abnormal Operating Procedures
<input type="checkbox"/>	<input type="checkbox"/>	Annunciator Response Procedures
<input type="checkbox"/>	<input type="checkbox"/>	Emergency Operating Procedures
<input type="checkbox"/>	<input type="checkbox"/>	FSAR
<input type="checkbox"/>	<input type="checkbox"/>	Severe Accident Control Room Guideline Initial Response (SACRG-1)
<input type="checkbox"/>	<input type="checkbox"/>	Severe Accident Control Room Guideline for Transients After the TSC is Functional (SACRG-2)

Approved By
J. T. Gasser

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**INVENTORY AND TESTING OF EMERGENCY PREPAREDNESS
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CONTROL ROOM (CR) INVENTORY

COMMENTS: _____

Inventoried by: _____ Date: _____

Reviewed by: _____ Date: _____

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DATA SHEET 3

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OPERATIONS SUPPORT CENTER (OSC) INVENTORY

Check the correct block for each item appropriately:

- YES, denotes the item(s) is present.
- NO, denotes the item(s) is missing or "Out of Service".
- () denotes the minimum quantity of items that should be present in excess of one (1).

STATUS BOARDS, CHARTS, AND MAPS

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
<input type="checkbox"/>	<input type="checkbox"/>	Organization Structure
<input type="checkbox"/>	<input type="checkbox"/>	Plant Parameters
<input type="checkbox"/>	<input type="checkbox"/>	Sequence of Events
<input type="checkbox"/>	<input type="checkbox"/>	Emergency Team Status
<input type="checkbox"/>	<input type="checkbox"/>	OSC Layout
<input type="checkbox"/>	<input type="checkbox"/>	VEGP Site Plan map
<input type="checkbox"/>	<input type="checkbox"/>	VEGP Permanent Protected Area Site Plan
<input type="checkbox"/>	<input type="checkbox"/>	VEGP 10 Mile EPZ

REFERENCE MATERIAL

<input type="checkbox"/>	<input type="checkbox"/>	Equipment Master File Listing (U-1 - 1X4DR010, U-2 - 2X4DR010)
<input type="checkbox"/>	<input type="checkbox"/>	EPIP's - Series 91000, OSC Manager
<input type="checkbox"/>	<input type="checkbox"/>	VEGP Emergency Response Telephone Directory
<input type="checkbox"/>	<input type="checkbox"/>	Instrument Index (CX5DM208)
<input type="checkbox"/>	<input type="checkbox"/>	Aperture Card Index File

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OPERATIONS SUPPORT CENTER (OSC) INVENTORY

COMMUNICATION EQUIPMENT

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
[]	[]	Head Set for telephone (Status Loop Communicator)

DESK LABELS

[]	[]	OSC Document Control Team
[]	[]	First Aid
[]	[]	Communications Support
[]	[]	Mechanical
[]	[]	Status Loop Communicator
[]	[]	Warehouse Support
[]	[]	OSC Manager
[]	[]	OSC Manager Clerk
[]	[]	Instrument & Controls
[]	[]	Electrical

MAGNETIC SIGNS

[]	[]	"Do not exit. This is a drill" (2)
[]	[]	"Do not enter. Use south stairs. This is a drill"
[]	[]	"Keep out drill in progress" (3)
[]	[]	"No Eating, Drinking, Smoking or Chewing in this Area"

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OPERATIONS SUPPORT CENTER (OSC) INVENTORY

INDIVIDUAL PACKETS

- Offsite Relocation Center Team Handbook
- Lab Foreman Handbook
- Search & Rescue Team/First Aid Team Handbook
- Field Survey Team Book (PESB entrance)

COMMENTS: _____

Inventoried by: _____ Date: _____

Reviewed by: _____ Date: _____

DATA SHEET 4

EMERGENCY OPERATIONS FACILITY (EOF) INVENTORY

Check the correct block for each item appropriately:

- YES, denotes the item(s) is present and operating correctly.
- NO, denotes the item(s) is missing or "Out of Service".
- () denotes the quantity of items that should be present in excess of one (1).

STATUS BOARDS, CHARTS, AND MAPS

- | <u>YES</u> | <u>NO</u> | <u>ITEM(S)</u> |
|--------------------------|--------------------------|-----------------------------------------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Field Monitoring Team Map (10 mile EPZ on wall) (2) |
| <input type="checkbox"/> | <input type="checkbox"/> | VEGP 50 mile EPZ (on wall) |
| <input type="checkbox"/> | <input type="checkbox"/> | SRS Emergency Response Grid Map |
| <input type="checkbox"/> | <input type="checkbox"/> | VEGP Site Plan map, portable |
| <input type="checkbox"/> | <input type="checkbox"/> | Emergency Status Board (wood frame, illuminated) |
| <input type="checkbox"/> | <input type="checkbox"/> | EOF Organization Board |
| <input type="checkbox"/> | <input type="checkbox"/> | "No Eating, Drinking, Smoking or Chewing in this Area", Magnetic sign |

REFERENCE MATERIALS

- | | | |
|--------------------------|--------------------------|---------------------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | FSAR |
| <input type="checkbox"/> | <input type="checkbox"/> | VEGP, Emergency Plan |
| <input type="checkbox"/> | <input type="checkbox"/> | VEGP, Technical Specifications |
| <input type="checkbox"/> | <input type="checkbox"/> | VEGP, Operations Procedures Manual - Series 19000 |
| <input type="checkbox"/> | <input type="checkbox"/> | EPIP's - Series 91000, Support Coordinator |
| <input type="checkbox"/> | <input type="checkbox"/> | EPIP's - Series 91000, EOF |

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EMERGENCY OPERATIONS FACILITY (EOF) INVENTORY

REFERENCE MATERIALS (Cont'd)

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
[]	[]	INPO Emergency Resources Manual
[]	[]	State of Georgia Radiological Emergency Plan, Base Plan
[]	[]	State of Georgia Radiological Emergency Plan, Annex D, Plant Vogtle
[]	[]	State of Georgia Radiological Emergency Plan, Annex F, Ingestion Pathway
[]	[]	South Carolina - Operational Radiological Emergency Response Plan
[]	[]	Radiological Emergency Response Plan for Aiken, Allendale, and Barnwell Counties in South Carolina
[]	[]	Savannah River Site Emergency Plan
[]	[]	<u>Mark's Standard Handbook for Mechanical Engineers</u>
[]	[]	<u>CRC Standard Math Tables</u>
[]	[]	<u>Standard Handbook for Electrical Engineers</u>
[]	[]	SAMG's
[]	[]	VEGP Technical Requirement Manual
[]	[]	Core Operating Limits Report & Pressure & Temperature Limits Report
[]	[]	State Technical Radiological Emergency Response Plan
[]	[]	Burke County EOC Liaison Technical Handbook
[]	[]	Aiken County Emergency Response Plan
[]	[]	LDCR's
[]	[]	Corporate Emergency Plan Implementing Procedures (Vogtle Project)

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EMERGENCY OPERATIONS FACILITY (EOF) INVENTORY

OTHER MATERIALS/EQUIPMENT

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
[]	[]	Facsimile Paper (1 Roll per each type)
[]	[]	Overhead Projectors (6)
[]	[]	Dose Assessment Computer and printer
[]	[]	Appropriate Printer Paper
[]	[]	VEGP Emergency Response Telephone Directories (7)
[]	[]	EOF - ENN Logbooks (2)
[]	[]	Copy Machine (1) - Paper (4 Pkgs)
[]	[]	Telephone Headset
[]	[]	IPC Video copier paper (1 roll)
[]	[]	IPC Video copier donor film (1 roll)

INDIVIDUAL PACKETS

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
[]	[]	Dose Assessment Manager
[]	[]	EOF Support Coordinator
[]	[]	EOF Manager
[]	[]	EOF Security Coordinator
[]	[]	ENN Communicator
[]	[]	Public Information
[]	[]	Survey Team Communicator

Approved By
J. T. Gasser

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EMERGENCY OPERATIONS FACILITY (EOF) INVENTORY

INDIVIDUAL PACKETS (Cont'd)

- Emergency Director
- Field Survey Team Books (3)
- Dose Analysis
- Habitability Monitor

DESK LABELS

- | <u>YES</u> | <u>NO</u> | <u>ITEM(S)</u> |
|--------------------------|--------------------------|------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | GEMA |
| <input type="checkbox"/> | <input type="checkbox"/> | Public Information |
| <input type="checkbox"/> | <input type="checkbox"/> | SRS |
| <input type="checkbox"/> | <input type="checkbox"/> | South Carolina |
| <input type="checkbox"/> | <input type="checkbox"/> | NRC Director Site Operations |
| <input type="checkbox"/> | <input type="checkbox"/> | EOF Manager |
| <input type="checkbox"/> | <input type="checkbox"/> | Support Coordinator |
| <input type="checkbox"/> | <input type="checkbox"/> | Security Coordinator |
| <input type="checkbox"/> | <input type="checkbox"/> | Dose Assessment Manager |
| <input type="checkbox"/> | <input type="checkbox"/> | DNR |
| <input type="checkbox"/> | <input type="checkbox"/> | FEMA |
| <input type="checkbox"/> | <input type="checkbox"/> | NRC (2) |
| <input type="checkbox"/> | <input type="checkbox"/> | Emergency Director |

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EMERGENCY OPERATIONS FACILITY (EOF) INVENTORY

COMMENTS: _____

Inventoried by: _____ Date: _____

Reviewed by: _____ Date: _____

DATA SHEET 5

BACK-UP EMERGENCY OPERATIONS FACILITY (BEOF) INVENTORY

Check the correct block for each item appropriately:

- YES, denotes the item(s) is present and operating correctly.
- NO, denotes the item(s) is missing or "Out of Service".
- () denotes the quantity of items that should be present in excess of one (1).

LOCATION: - BEOF/Operating Headquarters Waynesboro

STATUS BOARDS

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
<input type="checkbox"/>	<input type="checkbox"/>	Plant Parameter - status board, portable
<input type="checkbox"/>	<input type="checkbox"/>	Meteorological & Source Term Data - status board, portable
<input type="checkbox"/>	<input type="checkbox"/>	Radiation Monitor Status - status board, portable
<input type="checkbox"/>	<input type="checkbox"/>	50 mile EPZ map
<input type="checkbox"/>	<input type="checkbox"/>	Sequence of Events - status board, portable
<input type="checkbox"/>	<input type="checkbox"/>	Projected Dose And Dose Rate - status board, portable
<input type="checkbox"/>	<input type="checkbox"/>	10 mile EPZ map
<input type="checkbox"/>	<input type="checkbox"/>	Back-up EOF Facility Layout
<input type="checkbox"/>	<input type="checkbox"/>	Back-up EOF Phones Matrix

MATERIALS/EQUIPMENT

<input type="checkbox"/>	<input type="checkbox"/>	Tables (15)
<input type="checkbox"/>	<input type="checkbox"/>	Chairs (40)

DATA SHEET 5

Sheet 2 of 3

BACK-UP EMERGENCY OPERATIONS FACILITY (BEOF) INVENTORY

MATERIALS/EQUIPMENT (Cont'd)

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
[]	[]	Easels (3)
[]	[]	Facsimile Paper (1 roll for each type facsimile)
[]	[]	Grease pens
[]	[]	Transparency pens
[]	[]	Transparency Material (Blank Sheets) (1 Box)
[]	[]	Telephone User Guide
[]	[]	Notepads (10)
[]	[]	Pens (1 box)
[]	[]	Pencils (1 box)
[]	[]	Projector lamp bulb
[]	[]	Stapler
[]	[]	Clip Board
[]	[]	Telephone Extension Cords (5)
[]	[]	Electrical Extension Cords (2)
[]	[]	Georgia Power Telephone Directory
[]	[]	Duct Tape (2 Rolls)
[]	[]	Masking Tape (2 Rolls)

Approved By
J. T. Gasser

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BACK-UP EMERGENCY OPERATIONS FACILITY (BEOF) INVENTORY

MATERIALS/EQUIPMENT (Cont'd)

<u>YES</u>	<u>NO</u>	<u>ITEM(S)</u>
<input type="checkbox"/>	<input type="checkbox"/>	Extension Cord Covers (5)
<input type="checkbox"/>	<input type="checkbox"/>	Rubber Bands (1 Box)
<input type="checkbox"/>	<input type="checkbox"/>	Status Loop/Computer Operator Overhead Transparencies
<input type="checkbox"/>	<input type="checkbox"/>	Status Loop Telephone Headset

COMMENTS: _____

Inventoried by: _____ Date: _____

Reviewed by: _____ Date: _____

DATA SHEET 6

Sheet 2 of 2

TSC AND EOF INTEGRATED PLANT COMPUTER TESTING

II. EOF TESTING

a. Verify operation of (5) IPC work stations in the following manner:

- (1) Ensure that the monitor power switch is "ON".
- (2) Depress key labeled "CMPTR System Status" and verify that the EOF has (2) Unit 1 monitor icons and (3) Unit 2 monitor icons that indicate "green".
- (3) Depress any system overview key (i.e., steam generator) and ensure that there is a display with intermittent change of data.
- (4) Depress the Unit switch and change between Units and the Simulator.
- (5) Results of Test

SAT	UNSAT
[]	[]

Performed By: _____ Date: _____

b. Verify operation of IPC video copy in the following manner:

- (1) Ensure that the copy power switch is "ON" and copier indicates "READY".
- (2) Ensure that (2) video multiplexers are ON.
- (3) Depress the "VIDEO COPY" key and obtain copy.
- (4) Results of Test

SAT	UNSAT
[]	[]

Performed By: _____ Date: _____

(5) Comments: _____

Reviewed By: _____ Date: _____

Approved By
J. T. Gasser
Date Approved
10/04/2000

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QUARTERLY EOF VENTILATION OPERATIONAL TESTING for

_____ quarter _____ yr.

Perform ventilation test in the following manner:

1. Verify that ventilation system is in the normal operating mode and the three (3) outside doors to the EOF are shut.
2. Push the emergency recirculation button located in the EOF mechanical room.
3. Wait 30 seconds.

NOTE

The minimum operational value is .01 "W.C." If value is less than .025 "W.C." engineering should evaluate.

4. Verify that the pressure on EOF Pressurization gauge is equal to or greater than .025 inches of water column.

Record value _____ "W.C." SAT UNSAT
[] []

5. Record HEPA filter d/p _____ "W.C." SAT UNSAT
[] []

If value is greater than 1.75 "W.C.", notify Engineering.
Engineering Notified: _____
Date: _____

6. Record Prefilter d/p _____ "W.C." SAT UNSAT
[] []

If value is greater than .6 "W.C. notify Maintenance.
Maintenance Notified: _____
Date: _____

7. Comments: _____

Performed By: _____ Date: _____

Reviewed By: _____ Date: _____

8. Forward a completed test copy to the Manager Engineering Support.