



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37384-2000

April 15, 2003

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

Gentlemen:

In the Matter of) Docket Nos. 50-327
Tennessee Valley Authority) 50-328

**SEQUOYAH NUCLEAR PLANT - UNITS 1 AND 2 -- EMERGENCY PLAN
IMPLEMENTING PROCEDURE (EPIP) REVISION**

In accordance with the requirements of 10 CFR 50, Appendix E, Section V, the enclosure provides the following EPIP:

<u>EPIP</u>	<u>Revision</u>	<u>Title</u>
EPIP-5	30	General Emergency

This letter is being sent in accordance with NRC RIS 2001-05. If you have any questions concerning this matter, please telephone me at (423) 843-7170 or J. D. Smith at (423) 843-6672.

Sincerely,


Pedro Salas
Licensing and Industry Affairs Manager

Enclosure

cc (Enclosure):

Mr. Mike L. Marshall, Jr., Senior Project Manager
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A045

TENNESSEE VALLEY AUTHORITY
SEQUOYAH NUCLEAR PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EPIP-5

GENERAL EMERGENCY

REVISION 30

PREPARED BY: BILL PEGGRAM

RESPONSIBLE
ORGANIZATION: EMERGENCY PREPAREDNESS

APPROVED BY: RANDY FORD

EFFECTIVE DATE: APRIL 1, 2003

LEVEL OF USE: REFERENCE USE

QUALITY-RELATED

Revision History

Rev	Date	Reason for Revision
27	03/30/2001	Revised references to EPIP-14 for Dose Assessment to the new EPIP-13 for Dose Assessment. Added EPIP-13 to references. Reformatted substantially for clarity. Added new Protective Action Recommendation Logic Diagram and removed the old one. Updated Notification and Follow-Up forms to Pentagon standard content.
28	07/30/2002	Substantial format modification for standardization with BFN/WBN was implemented in this revision. Reformatted and repaginated as necessary. Reordered actions to be consistent with EPIPs 2, 3, 4. Changed reference of PHYSI-32 to SSI-1. Added Section 5.0, Illustrations and Appendices Section to the body of the procedure. Added caution concerning conducting assembly and accountability if it will present a danger to employees. Clarified use of 5- and 9-telephone prefixes. Added what information is to be provided by the Shift Manager to Chemistry when requesting Dose Assessment: 1.Type of Event, 2. Release Path, 3. Expected Duration. Clarified how to check ERO pager response. EPIP-5 was revised to implement actions to support the NRC Security Order including adding "Two Person Line-of-Sight" rule when deemed necessary by Security. Clarified what MET Data elevation (46 meter) is to be included on the initial notification form and the followup form for General Emergency. At request of State, changed order of notification in cases where ODS cannot be reached (Counties first). Corrected telephone number for CECC.
29	08/26/2002	Implement ability to stage TSC/OSC personnel near-site when it is unsafe to immediately enter the site. Added Step in 3.1 when EPS had already been activated. Condensed assembly and accountability steps in Sections 3.1 and 3.2. Added "TVA" to step 9 in Sect. 3. Corrected title of CECC EPIP-9 in Sections 3.1 and 3.2. This is a intent revision.
30	04/01/2003	General Revision to restructure EPIP for better flow. Moved ODS notification earlier in procedures. Added evacuation sectors to Initial Notification Appendix and to consider issuance of KI in accordance with the State Plan in the PAR. Intent Change.

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1.0 PURPOSE

- 1.1 To provide a method for timely notifications of appropriate individuals or organizations when the Shift Manager (SM)/Site Emergency Director (SED) has determined by EPIP-1 that events have occurred that are classified as a **GENERAL EMERGENCY** (GE).
- 1.2 To provide the SED/SM a method for periodic reanalysis of current conditions to determine whether the **GENERAL EMERGENCY** should be terminated or continued.

2.0 REFERENCES

2.1 Interface Documents

- [1] SPP-3.5 "Regulatory Reporting Requirements"
- [2] EPIP-6, "Activation and Operation of the Technical Support Center"
- [3] EPIP-7, "Activation and Operation of the Operations Support Center"
- [4] EPIP-8, "Personnel Accountability and Evacuation"
- [5] EPIP-10, "Medical Emergency Response"
- [6] EPIP-13, "Dose Assessment"
- [7] EPIP-14, "Radiological Control Response"
- [8] EPIP-16, "Termination and Recovery"
- [9] CECC EPIP-9, "Emergency Environmental Radiological Monitoring Procedures"
- [10] SSI-1, "Security Instructions For Members Of The Security Force"

3.0 INSTRUCTIONS

NOTE: IF there are personnel injuries, **THEN IMPLEMENT** EPIP-10, "Medical Emergency Response" in parallel with this procedure.

NOTE: IF there are immediate hazards to plant personnel, **THEN** consider immediately implementing EPIP-8 "Personnel Accountability and Evacuation" in parallel with this procedure

3.1 ACTIVATION OF THE EMERGENCY RESPONSE FACILITIES

Upon classifying events as a **GENERAL EMERGENCY**," the SM/SED shall:

- [1] IF TSC is **OPERATIONAL**, (SED transferred to TSC), **THEN GO TO** Section 3.2. □

3.1 ACTIVATION OF THE EMERGENCY RESPONSE FACILITIES (Continued)

[2] ACTIVATE Emergency Paging System (EPS) as follows.

- [a] IF** EPS has already been activated, **THEN GO TO Step 3.**
- [b] IF** ongoing onsite Security events may present risk to the emergency responders, **THEN CONSULT** with Security to determine if site access is dangerous to the life and health of emergency responders.
- [c] IF** ongoing events makes site access dangerous to the life and health of emergency responders, **THEN SELECT STAGING AREA** button on the EPS terminal **INSTEAD** of the **EMERGENCY** button.
- [d] ACTIVATE** EPS using touch screen terminal. **IF** EPS fails to activate, **THEN** continue with step 3.

[3] COMPLETE Appendix C (TVA Initial Notification for General Emergency). **EVALUATE** Protective Actions using Appendix B.

NOTE: ODS should be notified within 5 minutes after declaration of the event.

[4] NOTIFY ODS.

	Initial	Time
ODS: Ringdown Line or 5 -751-1700 or 5 -751-2495 or 9-785-1700		

- [a] IF** EPS failed to activate from SQN, **THEN DIRECT** ODS to activate SQN EPS. **IF** ODS is also unable to activate EPS, **THEN** continue with step [4] [b].
- [b] READ** completed Appendix C to ODS.
- [c] FAX** completed Appendix C to ODS.

5-751-8620 (Fax)

[d] MONITOR for confirmation call from ODS that State/Local notifications complete: **RECORD** time State notified.

Notification Time

3.1 ACTIVATION OF THE EMERGENCY RESPONSE FACILITIES (Continued)

[5] IF ODS CANNOT be contacted within **10 minutes** of the declaration, **THEN**

[a] CONTACT Hamilton County Emergency Management Agency (EMA) **AND READ** completed Appendix C.

Initial Time.

9-209-6900 or 9-622-7777 or 9-622-0022

[b] CONTACT Bradley County EMA **AND READ** completed Appendix C.

Initial Time.

9-476-0606 or 9-476-7511

[c] NOTIFY Tennessee Emergency Management Agency (TEMA) and **READ** completed Appendix C.

Initial Time.

9-1-800-262-3300 or 9-1-615-741-0001
or 888-616-8091 (satellite phone)

[d] FAX completed Appendix C to TEMA.

9-1-615-242-9635 (Fax)

[6] MONITOR Emergency Response Organization (ERO) Responses by reviewing touch screen monitor, obtaining copies of the printed report available in the TSC and OSC, or reviewing Call List progress.
(Delegate this task to Operations Clerk, MSS, or other available personnel.)

[a] IF any ERO positions are not responding, **THEN CALL** personnel to staff TSC/OSC positions (Use REP Duty Roster and Call List).

[7] NOTIFY plant staff using Appendix A. (Delegate as needed)

[8] GO TO Section 3.3

3.2 GENERAL EMERGENCY DECLARATION BY TSC

Upon classifying events as a GENERAL EMERGENCY," the SED shall:

NOTE: CECC Director should be notified within 5 minutes after declaration of the event.

[1] RECORD Time of Declaration _____

[2] RECORD EAL(s) _____

[3] CALL CECC Director and inform of escalation, time of declaration, EAL(s) declared, and description of events.

Initial Time

Ringdown Line or 5 -751-1614 or 5 -751-1680

[4] IF CECC Director **CANNOT** be contacted within 10 minutes of the declaration, THEN

[a] COMPLETE Appendix C (TVA Initial Notification for General Emergency) using Appendix B to evaluate Protective Actions.

[b] NOTIFY Hamilton County EMA AND READ Appendix C

Initial Time

9-209-6900 or 9-622-7777 or 9-622-0022

[c] NOTIFY Bradley County EMA AND READ Appendix C.

Initial Time

9-476-0606 or 9-476-7511

[d] NOTIFY TEMA AND READ completed Appendix C .

Initial Time

9-1-800-262-3300 or 9-1-615-741-0001
or 888-616-8091 (satellite phone)

[e] FAX completed Appendix C to TEMA.

9-1-615-242-9635 (Fax)

3.3 MONITOR CONDITIONS

[1] ANNOUNCE to plant personnel:

[a] "ATTENTION PLANT PERSONNEL. ATTENTION PLANT PERSONNEL. A **GENERAL EMERGENCY** HAS BEEN DECLARED BASED ON (Describe the condition), AFFECTING UNIT(s) _____."

[b] REPEAT Announcement.

CAUTION: Accountability should **NOT** be initiated at this time **IF** Assembly will present a danger to employees - For example:
 A severe weather condition exists or is imminent (such as a Tornado)
 An onsite Security risk condition exists (Consult with Nuclear Security)

[2] IF personnel accountability has not been previously initiated, **THEN ACTIVATE** assembly and accountability by using EPIP-8, Appendix C (may be delegated).

[3] MONITOR radiation monitors. **WHEN** indication exists of an unplanned radiological release, **THEN PERFORM** Dose Assessment.

[a] IF the CECC has not assumed Dose Assessment responsibility, **THEN NOTIFY** Chemistry to perform a dose assessment using EPIP-13, "Dose Assessment"

AND

PROVIDE the following information:

1. Type Of Event (SGTR/L, LOCA, WGDT, Cntmt Bypass)
 2. Release Path (SG/PORV, Aux, Shld, Turb, Serv, Cond)
 3. Expected Duration (If unknown assume 4 hour duration)
-

7285 (Lab) or 6348 (Lab) or 20126 (Pager)

[b] IF PAR responsibility has **NOT** been transferred to the CECC Director, **THEN REFER** to Appendix B (Protective Action Recommendation Logic Diagram).

[c] IF changes to Protective Action Recommendations are necessary, **THEN** complete Appendix D.

3.3 MONITOR CONDITIONS (Continued)

[4] MONITOR plant conditions:

[a] EVALUATE conditions using EPIP-1:

[1] IF additional conditions satisfy criteria of other GENERAL EMERGENCY(s) THEN complete Appendix D.

[2] IF conditions warrant a need for follow-up information, THEN complete Appendix D.

[b] IF Appendix D completed, THEN

[1] REPORT to CECC for State notification:

Initial	Time
---------	------

CECC Director: Ringdown Line or
5 -751-1614 or 5 -751-1680
OR
ODS: Ringdown Line or 5-751-1700 or
5-751-2495 or 9-785-1700

[2] FAX completed Appendix D to CECC.

CECC: 5-751-1682 (Fax) OR ODS: 5-751-8620 (Fax)

[3] IF neither the CECC or ODS can be reached, THEN

[a] NOTIFY TEMA AND READ completed Appendix D .

Initial	Time
---------	------

9-1-800-262-3301 or 9-1-615-741-0001
or 888-616-8091 (satellite phone)

[b] FAX completed Appendix D to TEMA.

9-1-615-242-9635 (Fax)

3.3 MONITOR CONDITIONS (Continued)

NOTE: NRC notification should be made as soon as practicable, but within 1 hour of "**GENERAL EMERGENCY**" declaration. Whenever NRC requests, a qualified person must provide a continuous update to NRC Operations Center.

[5] NOTIFY NRC of plan activation via ENS phone

Initial Time

9-1-(301) 816-5100 (Main)
 9-1-(301) 951-0550 (Backup)
 9-1-(301) 816-5151 (Fax)

3.4 TERMINATION OF THE EVENT

[1] IF the situation no longer exists, THEN

- [a] **TERMINATE** emergency per EPIP-16, "Termination and Recovery,"
- [b] **COMPLETE** Appendix D including Time and Date Event Terminated.
- [c] **FAX** completed Appendix D to CECC Director.

ODS: 5-751-8620 (Fax) OR
 CECC: 5-751-1682 (Fax)

[2] **COLLECT** documentation and **FORWARD** to Emergency Preparedness.

END OF SECTION

4.0 RECORD RETENTION

4.1 Records of Classified Emergencies

The materials generated in support of key actions during an actual emergency classified as NOUE or higher are considered Lifetime retention Non-QA records. Materials shall be forwarded to the EP Manager who shall submit any records deemed necessary to demonstrate performance to the Corporate EP Manager for storage.

4.2 Drill and Exercise Records

The materials deemed necessary to demonstrate performance of key actions during drills are considered Non-QA records. These records shall be forwarded to the EP Manager who shall retain records deemed necessary to demonstrate six-year plan performance for six years. The EP Manager shall retain other records in this category for three years.

5.0 ILLUSTRATIONS AND APPENDICES

5.1 Appendix A - Notifications and Announcements

Appendix A provides guidance for security threats, and for prompt notification of the NRC Resident and plant personnel.

5.2 Appendix B - Protective Action Recommendation Logic Diagram

Appendix B, Protective Action Recommendation Logic Diagram, is used to determine the Protective Action Recommendation which is made to the State and is part of the initial notification made to the State. Protective Action Recommendations are the responsibility of the CECC Director after assuming the responsibility from the SED.

5.3 Appendix C - TVA Initial Notification of General Emergency

Appendix C, TVA Initial Notification of General Emergency, is the form used to initially notify the Operations Duty Specialist who notifies the Tennessee Emergency Management Agency.

5.4 Appendix D - General Emergency Follow-up Information

Appendix D, General Emergency Follow-up Information is the form used to provide additional concerning other General Emergencies or other information concerning additional conditions to the ODS for State notification and event termination.

Appendix A
NOTIFICATIONS AND ANNOUNCEMENTS
 (Page 1 of 2)

[1] IF there is a security threat, THEN

[a] NOTIFY Security Shift Supervisor to implement SSI-1, "Security Instructions For Members Of The Security Force".

	Initial	Time
6144 or 6568		

[b] DETERMINE if Security recommends implementing the "Two Person Line of Sight" Rule.

[c] IF Nuclear Security recommends establishing the "Two Person Line of Sight" Rule, **THEN INFORM** the SM/SED. ("Two Person Line of Sight" requires use of EPIP-8).

	Initial	Time
--	---------	------

[2] NOTIFY RADCON Shift Supervisor:

[a] STATE: "A GENERAL EMERGENCY HAS BEEN DECLARED, BASED UPON (*Describe the conditions*), AFFECTING UNIT(s) _____."

	Initial	Time
--	---------	------

[b] DIRECT RADCON to implement EPIP-14, "Radiological Control Response."

[c] DIRECT RADCON to implement CECC EPIP-9, "Emergency Environmental Radiological Monitoring Procedures" which includes activation of the radiological monitoring van.

[3] NOTIFY Chemistry Shift Supervisor:

[a] STATE: "A GENERAL EMERGENCY HAS BEEN DECLARED, BASED UPON (*Describe the conditions*), AFFECTING UNIT(s) _____."

	Initial	Time
--	---------	------

7285 (Lab) or 6348 (Lab) or 20126 (Pager)

[b] DIRECT Chemistry to implement EPIP-14, "Radiological Control Response."

Appendix A
NOTIFICATIONS AND ANNOUNCEMENTS
(Page 2 of 2)

[4] NOTIFY the "On Call" NRC Resident AND PROVIDE GE Information.

____ Initial ____ Time

[5] NOTIFY Plant Management in accordance with SPP-3.5 AND PROVIDE GE Information.

____ Initial ____ Time

[6] NOTIFY the SM/SED that notifications are complete.

____ Initial ____ Time

Appendix B
 PROTECTIVE ACTION RECOMMENDATION LOGIC DIAGRAM

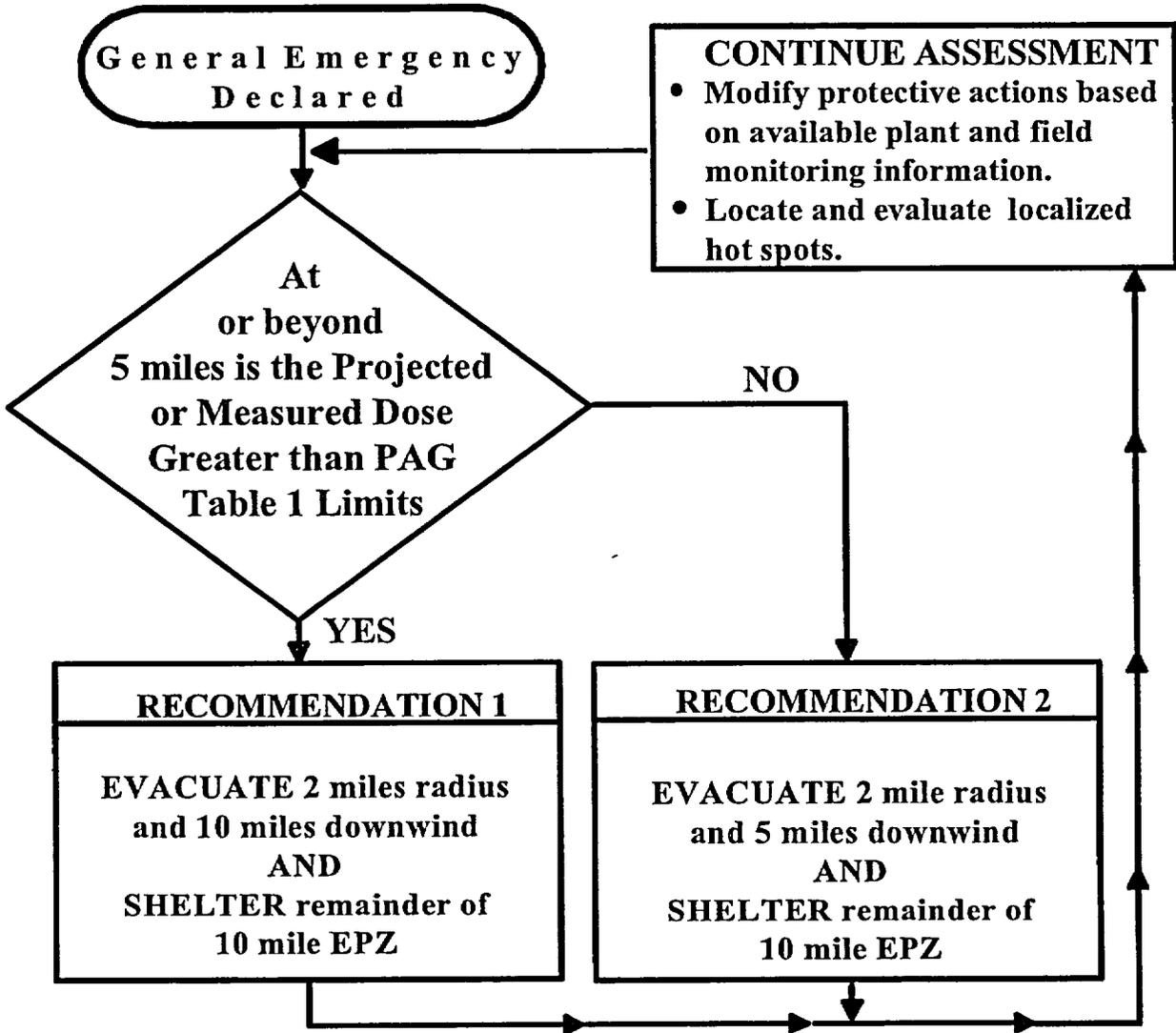


Table 1 Radioactivity Release Dose	
Note: Unknown conditions are assumed less than listed conditions	
TYPE	Protective Action Guide (PAG) Limits
Measured	3.9E-6 microCurie/cc Iodine 131
	1 Rem/hr External Dose
Projected	1 Rem TEDE
	5 Rem Thyroid CDE

**Appendix C
TVA INITIAL NOTIFICATION OF GENERAL EMERGENCY**

1. This is a Drill This is an Actual Event - Repeat - This is an Actual Event

2. This is _____, Sequoyah has declared a **GENERAL EMERGENCY**
affecting: Unit 1 Unit 2 Both Unit 1 and Unit 2

3. EAL Designator(s): _____

4. Brief Description of the Event: _____

5. Radiological Conditions: (Check one under both Airborne and Liquid column.)

<p style="text-align: center;"><u>Airborne Releases Offsite</u></p> <input type="checkbox"/> Minor releases within federally approved limits ¹ <input type="checkbox"/> Releases above federally approved limits ¹ <input type="checkbox"/> Release information not known <p style="text-align: right;">(¹Tech Specs)</p>	<p style="text-align: center;"><u>Liquid Releases Offsite</u></p> <input type="checkbox"/> Minor releases within federally approved limits ¹ <input type="checkbox"/> Releases above federally approved limits ¹ <input type="checkbox"/> Release information not known <p style="text-align: right;">(¹Tech Specs)</p>
--	--

6. Event Declared: Time: _____ Date: _____

7. The Meteorological Conditions are: (Use 46 meter data from the Met Tower)

Wind Direction is FROM: _____ degrees Wind Speed: _____ m.p.h

8. Provide Protective Action Recommendation: (Check either 1 or 2, and mark wind direction.)

<input type="checkbox"/> Recommendation 1		<input type="checkbox"/> Recommendation 2
<ul style="list-style-type: none"> • EVACUATE LISTED SECTORS (2 mile Radius and 10 miles downwind) • SHELTER all other non-listed sectors. • Consider issuance of POTASSIUM IODIDE in accordance with the State Plan 	WIND FROM DIRECTION (item 7)	<ul style="list-style-type: none"> • EVACUATE LISTED SECTORS (2 mile Radius and 5 mile downwind) • SHELTER all other non-listed sectors • Consider issuance of POTASSIUM IODIDE in accordance with the State Plan
A-1, B-1, C-1, D-1, C-2, -6, -7, -8, D-2, -3, -5, -6	12 - 49	A-1, B-1, C-1, D-1, C-2, D-2
A-1, B-1, C-1, D-1, D-2, -3, -4, -5, -6	50 - 70	A-1, B-1, C-1, D-1, D-2
A-1, B-1, C-1, D-1, A-3, -4, D-2, -3, -4, -5	71 - 112	A-1, B-1, C-1, D-1, A-3, D-2
A-1, B-1, C-1, D-1, A-2, -3, -4, -5, -6, D-4	113 - 146	A-1, B-1, C-1, D-1, A-2, A-3,
A-1, B-1, C-1, D-1, A-2, -3, -4, -5, -6, B-2	147 - 173	A-1, B-1, C-1, D-1, A-2, A-3, B-2
A-1, B-1, C-1, D-1, A-2, -5, -6, B-2, -3, -4	174 - 214	A-1, B-1, C-1, D-1, A-2, B-2,
A-1, B-1, C-1, D-1, B-2, -3, -4, -5, -6, -7, -8	215 - 258	A-1, B-1, C-1, D-1, B-2, B-5,
A-1, B-1, C-1, D-1, B-2, -3, -5, -6, -7, -8, C-2, -3, C-4, -5, -6	259 - 331	A-1, B-1, C-1, D-1, B-2, B-5, C-2
A-1, B-1, C-1, D-1, B-5, C-2, -3, -4, -5, -6, -7, -8	332 - 11	A-1, B-1, C-1, D-1, B-5, C-2

9. Please repeat back the information you have received to ensure accuracy.

10. Time and Date this information was provided _____ / _____

Action: When completed, FAX this information.

Appendix D
GENERAL EMERGENCY FOLLOW-UP INFORMATION

- 1. THIS IS A REAL EVENT THIS IS A DRILL
- 2. There has been a **GENERAL EMERGENCY** declared at Sequoyah affecting:
 Unit 1 Unit 2 Both Unit 1 and Unit 2
- 3. **Reactor Status:** Unit 1: Shut Down At Power Refueling N/A
 Unit 2: Shut Down At Power Refueling N/A
- 4. **Additional EAL Designators** _____
- 5. **Significant Changes in Plant Conditions:** _____

- 6. **Significant Changes in Radiological Conditions:** _____

- 7. **Offsite Protective Action Recommendation: (CECC to provide detailed PAR Sector Recommendations)**
 Recommendation 1 -
 Evacuate 2 mile radius and 10 miles downwind and shelter remainder of the 10 mile EPZ
 Recommendation 2 -
 Evacuate 2 mile radius and 5 miles downwind and shelter remainder of the 10 mile EPZ
- 8. **Onsite Protective Actions:** Assembly and Accountability No Initiated Completed
 Site Evacuation No Initiated Completed
- 9. **The Meteorological Conditions are:** Wind Speed: _____ m.p.h.
 (Use 46 meter data on the Met Tower) Wind Direction is from: _____ degrees
- 10. **Event Terminated: Date/Time** _____
- 11. **Please repeat** the information you have received to ensure accuracy.
- 12. **FAX to ODS** at 5-751-8620 or **CECC Director** at 5-751-1682 after completing the notification.

Completed by: _____, Date/Time _____