



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

August 28, 2001

10 CFR 50,
Appendix E
Section V

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

Gentlemen:

In the Matter of)	Docket Nos.	50-259	50-390
Tennessee Valley Authority)		50-260	50-391
			50-296	50-327
				50-328

TVA CENTRAL EMERGENCY CONTROL CENTER (CECC) - EMERGENCY PLAN
IMPLEMENTING PROCEDURE (EPIP) REVISIONS

In accordance with the requirements of 10 CFR Part 50, Appendix E, Section V, enclosed are copies of the Effective Page Listing and revisions to CECC EPIPs.

PROCEDURE		EFFECTIVE DATE
EPIP	EPL	8/23/01
EPIP-2	Rev. 24	8/23/01
EPIP-3	Rev. 26	8/23/01
EPIP-4	Rev. 27	8/23/01
EPIP-5	Rev. 29	8/23/01
EPIP-22	Rev. 17	8/23/01
EPIP-23	Rev. 17	8/23/01

If you have any questions, please contact Terry Knuettel at (423) 751-6673.

Sincerely,

Mark J. Burzynski
 Mark J. Burzynski
 Manager
 Nuclear Licensing

AD45

Enclosures
cc: See page 2

U.S. Nuclear Regulatory Commission
Page 2
August 28, 2001

cc (Enclosures):

(Via NRC Electronic Distribution)

U.S. Nuclear Regulatory Commission (Enclosures 2)
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, Georgia 30303-8931

NRC Senior Resident Inspector [Enclosures provided
Browns Ferry Nuclear Plant by site DCRM]
10833 Shaw Road
Athens, Alabama 35611

NRC Senior Resident Inspector [Enclosures provided
Sequoyah Nuclear Plant by site DCRM]
2600 Igou Ferry Road
Soddy Daisy, Tennessee 37379-3624

NRC Senior Resident Inspector [No enclosures, by request
Watts Bar Nuclear Plant of site resident]
1260 Nuclear Plant Road
Spring City, Tennessee 37381

DOCUMENT RELEASE AND FILING INSTRUCTIONS

To: **Management Services/RIM/EDM**
 Other _____
 Address: _____
 Date Submitted to Management _____
 Services/RIM/EDM: _____
 Date to Filed By: _____

Page 1 of 2
 Release No. _____
 Prepared By: Gail White
 Extension: 751-2108
 Organization: AS&P
 Address: LP 4D-C

Attached are: (select one)
 QA Records/Documents
 Non-QA Records/Documents

Release and Submitted for:
 Distribution
 Retention

DOCUMENT NUMBER	REV	NO. PAGES	REC ACPT		DATE	REMOVE PAGES	INSERT PAGES
			Y	N			
CECC-EPIP							
List of Effective Pages		8	✓		8/23/01	1 - 8	1 - 8
CECC EPIP-2, cover sheet	24	1	✓		↓	cover sheet	cover sheet
CECC EPIP-2, rev. log	24	2 ✓	✓		↓	rev. log	rev. log
CECC EPIP-2	24	5	✓		↓	All	1 - 5
CECC EPIP-3, cover sheet	26	1	✓		↓	cover sheet	cover sheet
CECC EPIP-3, rev. log	26	2 ✓	✓		↓	rev. log	rev. log
CECC EPIP-3	26	8	✓		↓	All	1 - 8
CECC EPIP-4, cover sheet	27	1	✓		↓	cover sheet	cover sheet
CECC EPIP-4, rev. log	27	2 ✓	✓		↓	rev. log	rev. log
CECC EPIP-4	27	8	✓		↓	All	1 - 8
CECC EPIP-5, cover sheet	29	1	✓		↓	cover sheet	cover sheet
CECC EPIP-5, rev. log	29	2 ✓	✓		↓	rev. log	rev. log
CECC EPIP-5	29	8	✓		↓	All	1 - 8
CECC EPIP-22, cover sheet	17	1	✓		↓	cover sheet	cover sheet
CECC EPIP-22, rev. log	17	2 ✓	✓		↓	rev. log	rev. log
CECC EPIP-22	17	7	✓		↓	All	1 - 7

 Date

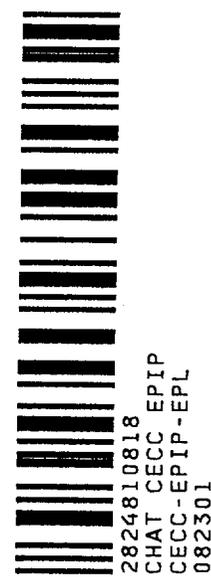
 Contact: _____ Ext. _____

Acceptance:
Kana L. Farmer 8-23-01
 Signature Date

TENNESSEE VALLEY AUTHORITY
 CENTRAL EMERGENCY CONTROL CENTER EMERGENCY PLAN
 IMPLEMENTING PROCEDURES
 LIST OF EFFECTIVE PAGES

This list of effective pages must be retained with the CECC-EIPs.

Procedure No.	Subdivision	Page No.	Rev. No.
	List of Effective Pages	1 of 8	08/23/01
		2 of 8	08/23/01
		3 of 8	08/23/01
		4 of 8	08/23/01
		5 of 8	08/23/01
		6 of 8	08/23/01
		7 of 8	08/23/01
		8 of 8	08/23/01
	Table of Contents	1 of 2	05/17/99
		2 of 2	05/17/99
EPIP-1		Cover Sheet	34
		Rev. Log	34
		1 of 30	34
		2 of 30	34
		3 of 30	34
		4 of 30	34
		5 of 30	34
	Appendix A	6 of 30	34
		7 of 30	34
		8 of 30	34
		9 of 30	34
		10 of 30	34
	Appendix B	11 of 30	34
		12 of 30	34
		13 of 30	34
	Appendix C	14 of 30	34
	Appendix D	15 of 30	34
	Appendix E	16 of 30	34
		17 of 30	34
		18 of 30	34
		19 of 30	34
	Appendix F	20 of 30	34
		21 of 30	34
	Appendix G	22 of 30	34
		23 of 30	34
		24 of 30	34
		25 of 30	34
		26 of 30	34
	Appendix H	27 of 30	34
		28 of 30	34
		29 of 30	34
		30 of 30	34



List of Effective Pages (Continued)

Procedure No.	Subdivision	Page No.	Rev. No.
EPIP-2		Cover Sheet	24
		Rev. Log	24
		1 of 5	24
		2 of 5	24
		3 of 5	24
	Appendix A	4 of 5	24
	Appendix B	5 of 5	24
	EPIP-3		Cover Sheet
		Rev. Log	26
		1 of 8	26
		2 of 8	26
		3 of 8	26
		4 of 8	26
		5 of 8	26
Appendix A		6 of 8	26
Appendix B		7 of 8	26
Appendix C		8 of 8	26
EPIP-4		Cover Sheet	27
		Rev. Log	27
		1 of 8	27
		2 of 8	27
		3 of 8	27
		4 of 8	27
		5 of 8	27
	Appendix A	6 of 8	27
	Appendix B	7 of 8	27
	Appendix C	8 of 8	27
EPIP-5		Cover Sheet	29
		Rev. Log	29
		1 of 8	29
		2 of 8	29
		3 of 8	29
		4 of 8	29
		5 of 8	29
	Appendix A	6 of 8	29
	Appendix B	7 of 8	29
Appendix C	8 of 8	29	
EPIP-6		Cover Sheet	23
		Rev. Log	23
		1 of 23	23
		2 of 23	23
		3 of 23	23
		4 of 23	23
	Appendix A	5 of 23	23
		6 of 23	23
		7 of 23	23
	Appendix B	8 of 23	23
	Appendix C	9 of 23	23

List of Effective Pages (Continued)

Procedure No.	Subdivision	Page No.	Rev. No.	
EPIP-6 (Continued)	Appendix D	10 of 23	23	
		11 of 23	23	
	Appendix E	12 of 23	23	
		13 of 23	23	
		14 of 23	23	
	Appendix F	15 of 23	23	
	Appendix G	16 of 23	23	
		17 of 23	23	
	Appendix H	18 of 23	23	
		19 of 23	23	
	Appendix I	20 of 23	23	
		21 of 23	23	
	Appendix J	22 of 23	23	
		Appendix K	23 of 23	23
EPIP-7		Cover Sheet	27	
		Rev. Log	27	
		1 of 17	27	
		2 of 17	27	
		3 of 17	27	
		4 of 17	27	
		5 of 17	27	
		6 of 17	27	
		7 of 17	27	
		8 of 17	27	
	Appendix A	9 of 17	27	
	Appendix B	10 of 17	27	
	Appendix C	11 of 17	27	
	Appendix D	12 of 17	27	
	Appendix E	13 of 17	27	
		14 of 17	27	
	Appendix F	15 of 17	27	
Appendix G	16 of 17	27		
Appendix H	17 of 17	27		
EPIP-8		Cover Sheet	22	
		Rev. Log	22	
		1 of 31	22	
		2 of 31	22	
		3 of 31	22	
		4 of 31	22	
	Appendix A	5 of 31	22	
		Appendix B	6 of 31	22
			7 of 31	22
		8 of 31	22	
	Appendix C	9 of 31	22	
			10 of 31	22
			11 of 31	22
		12 of 31	22	
Appendix D	13 of 31	22		
		14 of 31	22	

List of Effective Pages (Continued)

Procedure No.	Subdivision	Page No.	Rev. No.
EPIP-8 (Continued)		15 of 31	22
		16 of 31	22
		17 of 31	22
	Appendix E	18 of 31	22
	Appendix F	19 of 31	22
	Appendix G	20 of 31	22
		21 of 31	22
		22 of 31	22
		23 of 31	22
		24 of 31	22
		25 of 31	22
	Appendix H	26 of 31	22
	Appendix I	27 of 31	22
	Appendix J	28 of 31	22
	Appendix K	29 of 31	22
		30 of 31	22
		31 of 31	22
EPIP-9		Cover Sheet	22
		Rev. Log	22
		1 of 42	22
		2 of 42	22
		3 of 42	22
		4 of 42	22
		5 of 42	22
		6 of 42	22
		7 of 42	22
		8 of 42	22
		9 of 42	22
		10 of 42	22
		11 of 42	22
		12 of 42	22
		13 of 42	22
		14 of 42	22
		15 of 42	22
		16 of 42	22
		17 of 42	22
		18 of 42	22
		19 of 42	22
		20 of 42	22
	Appendix A	21 of 42	22
	Appendix B	22 of 42	22
	Appendix C	23 of 42	22
		24 of 42	22
	Appendix D	25 of 42	22
	Appendix E	26 of 42	22
		27 of 42	22
Appendix F	28 of 42	22	
Appendix G	29 of 42	22	

List of Effective Pages (Continued)

Procedure No.	Subdivision	Page No.	Rev. No.
EPIP-9 (Continued)	Appendix H	30 of 42	22
	Appendix I	31 of 42	22
		32 of 42	22
	Appendix J	33 of 42	22
		34 of 42	22
		35 of 42	22
		36 of 42	22
	Appendix K	37 of 42	22
		38 of 42	22
		39 of 42	22
		40 of 42	22
	Appendix L	41 of 42	22
	Appendix M	42 of 42	22
	EPIP-11		Cover Sheet
		Rev. Log	11
		1 of 14	11
		2 of 14	11
Appendix A		3 of 14	11
Appendix B		4 of 14	11
Appendix C		5 of 14	11
		6 of 14	11
Appendix D		7 of 14	11
Appendix E		8 of 14	11
		9 of 14	11
		10 of 14	11
Appendix F		11 of 14	11
Appendix G		12 of 14	11
Appendix H	13 of 14	11	
Appendix I	14 of 14	11	
EPIP-12		Cover Sheet	15
		Rev. Log	15
		1 of 6	15
		2 of 6	15
		3 of 6	15
		4 of 6	15
	Appendix A	5 of 6	15
	Appendix B	6 of 6	15
EPIP-13		Cover Sheet	8
		Rev. Log	8
		1 of 6	8
		2 of 6	8
		3 of 6	8
		4 of 6	8
	Appendix A	5 of 6	8
Appendix B	6 of 6	8	

List of Effective Pages (Continued)

Procedure No.	Subdivision	Page No.	Rev. No.
EPIP-14		Cover Sheet	23
		Rev. Log	23
		1 of 25	23
		2 of 25	23
		3 of 25	23
		4 of 25	23
		5 of 25	23
		6 of 25	23
	Appendix A	7 of 25	23
		8 of 25	23
		9 of 25	23
	Appendix B	10 of 25	23
		11 of 25	23
		12 of 25	23
		13 of 25	23
		14 of 25	23
	Appendix C	15 of 25	23
		16 of 25	23
		17 of 25	23
		18 of 25	23
		19 of 25	23
		20 of 25	23
	Appendix D	21 of 25	23
	Appendix E	22 of 25	23
	Appendix F	23 of 25	23
Appendix G	24 of 25	23	
Appendix H	25 of 25	23	
EPIP-17		Cover Sheet	16
		Rev. Log	16
		1 of 27	16
		2 of 27	16
		3 of 27	16
		4 of 27	16
		5 of 27	16
	Appendix A	6 of 27	16
	Appendix B	7 of 27	16
	Appendix C	8 of 27	16
		9 of 27	16
		10 of 27	16
	Appendix D	11 of 27	16
	Appendix E	12 of 27	16
	Appendix F	13 of 27	16
	Appendix G	14 of 27	16
		15 of 27	16
		16 of 27	16
		17 of 27	16
		18 of 27	16
	Appendix H	19 of 27	16
Appendix I	20 of 27	16	
Appendix J	21 of 27	16	

List of Effective Pages (Continued)

Procedure No.	Subdivision	Page No.	Rev. No.
EPIP-17 (Continued)	Appendix K	22 of 27	16
	Appendix L	23 of 27	16
	Appendix M	24 of 27	16
		25 of 27	16
		26 of 27	16
	Appendix N	27 of 27	16
EPIP-18	Cover Sheet		8
	Rev. Log		8
	1 of 6		8
	2 of 6		8
	3 of 6		8
	4 of 6		8
	Appendix A	5 of 6	8
Appendix B	6 of 6	8	
EPIP-19	Cover Sheet		11
	Rev. Log		11
	1 of 11		11
	2 of 11		11
	3 of 11		11
	4 of 11		11
	5 of 11		11
	Appendix A	6 of 11	11
		7 of 11	11
	Appendix B	8 of 11	11
		9 of 11	11
		10 of 11	11
	11 of 11	11	
EPIP-21	Cover Sheet		13
	Rev. Log		13
	1 of 4		13
	2 of 4		13
	Appendix A	3 of 4	13
	Appendix B	4 of 4	13
EPIP-22	Cover Sheet		17
	Rev. Log		17
	1 of 7		17
	2 of 7		17
	Attachment A	3 of 7	17
	Attachment B	4 of 7	17

List of Effective Pages (Continued)

Procedure No.	Subdivision	Page No.	Rev. No.
EPIP-22 (Continued)		5 of 7	17
		6 of 7	17
		7 of 7	17
EPIP-23		Cover Sheet	17
		Rev. Log	17
		1 of 24	17
		2 of 24	17
		3 of 24	17
		4 of 24	17
	Attachment A	5 of 24	17
	Attachment B	6 of 24	17
		7 of 24	17
		8 of 24	17
		9 of 24	17
		10 of 24	17
		11 of 24	17
	Attachment C	12 of 24	17
	Attachment D	13 of 24	17
	Attachment E	14 of 24	17
		15 of 24	17
	Attachment F	16 of 24	17
		17 of 24	17
		18 of 24	17
		19 of 24	17
		20 of 24	17
	Attachment G	21 of 24	17
		22 of 24	17
Attachment H	23 of 24	17	
Attachment I	24 of 24	17	

Tennessee Valley Authority CENTRAL EMERGENCY CONTROL CENTER EMERGENCY PLAN IMPLEMENTING PROCEDURES	Title OPERATIONS DUTY SPECIALIST PROCEDURE FOR NOTIFICATION OF UNUSUAL EVENT	CECC EPIP-2 REV. 24
		Effective Date: 8/23/01



2824944207
 CHAT CECC EPIP
 CECC-EPIP-2
 082301 24

WRITTEN BY: Thomas E. Albini Signature REVIEWED BY: David Pond Signature 8/16/01 Date

PLAN EFFECTIVENESS DETERMINATION: Thomas E. Albini Signature 8/16/01 Date

CONCURRENCES

Concurrence Signature	Date
<input checked="" type="checkbox"/> Manager, EP Program Planning and Implementation <u>David Pond</u>	8/16/01
<input checked="" type="checkbox"/> Manager, Emergency Preparedness <u>B/M Marks</u>	8/16/01
<input checked="" type="checkbox"/> Manager, Radiological and Chemistry Services <u>Chandran -</u>	8/17/01
<input type="checkbox"/>	

APPROVAL

APPROVED BY: <u>[Signature]</u> Signature	Vice President, E&TS Title Organization	8/23/01 Date
---	---	-----------------

CECC-EPIP-2
OPERATIONS DUTY SPECIALIST
PROCEDURE FOR NOTIFICATION OF UNUSUAL EVENT

REVISION LOG

Rev. No.	Date	Revised Pages
0	3/22/88	All (Changed from IPD to EPIP)
1	4/27/88	3
2	11/18/88	3
3	4/26/89	All
4	7/13/89	3
5	9/19/89	All
6	10/26/89	1,2, App. A (pg.2), App. B (p.2)
7	5/23/90	App. A (p.2), App. B (p.2)
8	5/21/91	Page 2 of 2, App. A, Pgs. 1 and 2, App. B, Pgs. 1 and 2
9	5/31/91	Page 2 of 2; App. B, Pgs. 1 and 2
10	12/12/91	Pages 1-2; App. A, pgs. 1-2; App. B, Pgs. 1-2
11	12/23/92	New coversheet and rev log added; pgs. 1-3; App. A, Appendix B deleted
12	06/18/93	Page 3; all pages issued.
13	06/28/94	All
14	2/17/95	Page 3 Name removal from notification list
15	7/13/95	Page 3 change AI. Area code; All pages issued.
16	3/20/96	Page 3 change M. O. Medford to J. P. Maciejewski; all pages issued.
17	10/30/96	Change SOS to SM, add SNE to call list, add M. O. Medford to call list, correct telephone area code.
18	12/12/96	Page 3 change M. O. Medford to O. J. Zeringue; all pages issued.
19	4/7/97	Annual review. Add notification completed step to procedure. All pages issued.
20	7/16/97	Modify notification list. All pages issued.
21	9/24/98	Add Mr. Scalice to notification list and remove Mr. Zeringue. All pages issued.

CECC-EPIP-2
OPERATIONS DUTY SPECIALIST
PROCEDURE FOR NOTIFICATION OF UNUSUAL EVENT

<u>Rev. No.</u>	<u>Date</u>	<u>REVISION LOG (Continued)</u> <u>Revised Pages</u>
<u>22</u>	<u>11/13/00</u>	<u>Add Public Information Manager to OPS notification list. Remove reference to notification board.</u>
<u>23</u>	<u>3/30/01</u>	<u>Annual review. Revise initial State Notification Form. All pages issued.</u>
<u>24</u>	<u>8/23/01</u>	<u>Update notification list. All pages issued.</u>

**OPERATIONS DUTY SPECIALIST
PROCEDURE FOR NOTIFICATION OF UNUSUAL EVENT**

1.0 PURPOSE

This procedure is designed to direct the ODS during a Notification of Unusual Event to ensure consistent, accurate, and timely response in the event of an emergency.

2.0 SCOPE

This procedure covers anticipated requirements of the ODS during a Notification of Unusual Event.

3.0 REFERENCES

Radiological Emergency Plan

4.0 ABBREVIATIONS AND DEFINITIONS

EDO - Emergency Duty Officer
ODS - Operations Duty Specialist
CECC - Central Emergency Control Center
NP - Nuclear Power
SNE - Senior Nuclear Executive

5.0 RESPONSIBILITIES

- 5.1 Upon notification by the Site Emergency Director that a Notification of Unusual Event exists, the ODS is responsible for recording the preliminary report of information concerning the incident on Appendix A.
- 5.2 The ODS is responsible for notifying the appropriate State agency, CECC EDO, key NP emergency response personnel and the Load Coordinator.
- 5.3 The ODS is responsible for recording any follow-up information on Appendix B and notifying the appropriate State.

6.0 PROCEDURE REQUIREMENTS

6.1 Actions to be Taken for a Notification of Unusual Event

The ODS performs the following tasks:

NOTE: When making notifications of an emergency situation, provide only the information contained on the attachment. Avoid any unnecessary explanation or elaboration of the information. Timeliness and accuracy is of the utmost importance. If additional information/explanation is required by any party, provide the name and phone number of the EDO and request they contact him or patch them through to him.

(TIME/INITIALS)

____ / ____ 6.1.1 Upon receiving a call from the Site Emergency Director:

Turn on Recording Equipment and enter the following information.

Current Date: _____

Current Time: _____

____ / ____ 6.1.2 Refer to the form in Appendix A and log information to be provided to the State.

6.1.3 Make notification call to the appropriate State (not to exceed 5 minutes from time notified by site).

Tennessee

TEMA Duty Officer: _____ Time: _____

(Use the ringdown telephone as the primary means to contact TEMA. If this does not work, then use numbers programmed on phones.)

Alabama

Alabama Rad Health Duty Officer: _____ Time: _____

AFTER HOURS NOTIFY

Alabama Public Safety to have Rad Health Duty Officer call the ODS _____ Time: _____

(See numbers programmed on phones.)

(TIME/INITIALS)

6.1.4 Notify the following by phone or pager (see the CECC Notification Board for numbers).

____ / ____ CECC EDO

____ / ____ CECC Director

____ / ____ J. A. Scalice

* ____ / ____ J. R. Rupert

____ / ____ B. K. Marks

____ / ____ SNE

____ / ____ 6.1.5 Inform the Site Emergency Director that the respective State has been notified.

____ / ____ 6.1.6 Notify the Load Coordinator of the condition.

____ / ____ 6.1.7 Upon receiving telecopy of the Site Emergency Director event form verify the information recorded on Appendix A of this procedure is correct.

____ / ____ 6.1.8 Telecopy the proper Appendix of this procedure to the affected State.
AL. RAD Health (334) 206-5387
TEMA (615) 242-9635

____ / ____ 6.1.9 Verify that the telecopy to the State has been received. (Only during normal working hours for AL. RAD Health.) Use programmed telephone number for the affected State.

____ / ____ 6.1.10 Refer to the form in Appendix B, log follow-up information regarding the event in progress, and provide to the appropriate State.

6.2 Actions To Be Taken When the Condition Is Terminated

6.2.1 Upon notification of the termination of the Notification of Unusual Event, the ODS has the responsibility of notifying all parties informed in section 6.1 of this procedure.

____ / ____ Notifications completed

Exceptions: _____

*Revision

APPENDIX A Page 1 of 1

TVA INITIAL NOTIFICATION FORM FOR NOTIFICATION OF UNUSUAL EVENT

1. THIS IS A REAL EVENT THIS IS A DRILL

2. This is _____, TVA Operations Duty Specialist at telephone number (423) 751-1700.

There has been a **NOTIFICATION OF UNUSUAL EVENT** declared at:

Browns Ferry Sequoyah Watts Bar affecting:

Unit 1 Unit 2 Unit 3 Common

3. EAL Designator: _____

4. Brief Description of the Event: _____

5. Radiological Conditions:

- No Abnormal Release Offsite
- Airborne Release Offsite
- Liquid Release Offsite
- Release Information Not Known

6. Event Declared: _____ Time: _____ Date: _____

7. Provide Protective Action Recommendation:

- None

8. Please repeat the information you have received to ensure accuracy.

APPENDIX B Page 1 of 1

FOLLOW-UP INFORMATION FORM
NOTIFICATION OF UNUSUAL EVENT

1. "This is a Real Emergency. This is a Real Emergency."
or
"This is a Drill. This is a Drill."

2. Time _____

3. The following significant changes in Plant Conditions have occurred.

4. The following significant changes in Radiological Conditions have occurred. _____

5. "Please repeat the information you have received to ensure accuracy."

6. Time information provided to State. _____

7. Name _____ Date _____

Note: When completed telecopy this Form to the State.

Tennessee Valley Authority CENTRAL EMERGENCY CONTROL CENTER EMERGENCY PLAN IMPLEMENTING PROCEDURES	Title OPERATIONS DUTY SPECIALIST PROCEDURE FOR ALERT	CECC EPIP-3 REV. 26
		Effective Date: <u>8/23/01</u>



2824948838
 CHAT CECC EPIP
 CECC-EPIP-3
 082301 26

WRITTEN BY: Thomas E. Aldrin Signature REVIEWED BY: David Pond Signature 8/16/01 Date

PLAN EFFECTIVENESS DETERMINATION: Thomas E. Aldrin Signature 8/16/01 Date

CONCURRENCES

Concurrence Signature	Date
<input checked="" type="checkbox"/> Manager, EP Program Planning and Implementation <u>David Pond</u>	<u>8/16/01</u>
<input checked="" type="checkbox"/> Manager, Emergency Preparedness <u>JK Marks</u>	<u>8/16/01</u>
<input checked="" type="checkbox"/> Manager, Radiological and Chemistry Services <u>Chandran</u>	<u>8/17/01</u>
<input type="checkbox"/>	_____

APPROVAL

APPROVED BY: <u>[Signature]</u> Signature	Vice President, E&TS Title	Organization	<u>8/20/01</u> Date
---	-------------------------------	--------------	------------------------

CECC-EPIP-3
OPERATIONS DUTY SPECIALIST
PROCEDURE FOR ALERT

REVISION LOG

Rev. No.	Date	Revised Pages
0	3/22/88	All (Changed from IPD to EPIP)
1	04/27/88	3
2	11/18/88	3, 4
3	4/26/89	All
4	7/13/89	3, 4
5	9/19/89	All
6	10/26/89	2, App. A (p. 2), App. B (p.2) Title changed (pgs. 1-2)
7	5/23/90	"Site Area Emergency" section moved to EPIP-4. App. A (pg2), App. B (p.2). App. C added (p.1)
8	5/21/91	Pages 2 and 3, App. A, Pgs. 1 & 2, App. B, Pgs. 1 & 2
9	05/31/91	Page 2 of 3; Appendix B, pages 1 and 2
10	12/12/91	Pages 1-3/ App. A, pgs. 1-2; App. B, pgs. 1-2.
11	05/15/92	Page 2 revised; new coversheet and rev. log added; All pages issued.
12	12/23/92	Pages 1-4; App. A, Pg. 1; App. B, Pg. 1; App. C deleted.
13	01/25/93	Pages 1, 3 & 4; added activation of ERDS system. All pages issued.
14	06/18/93	Page 3; all pages issued.
15	06/24/94	Pages 1-4; App. B; Former App. B changes to App. C.
16	2/17/95	Page 3 Name removal from notification list.
17	7/13/95	Page 4 Changed AL. area code. All pages issued.
18	3/20/96	Page 3 Change M. O. Medford to J. P. Maciejewski; all pages issued.
19	10/30/96	Removed references to SOS, add M. O. Medford to call list, rearrange order of call list, telephone number updates, add statement to clarify CECC security setup instructions. Procedure put in new format. All pages issued.
20	12/12/96	Page 3 remove M. O. Medford. Page 4 add O. J. Zeringue; all pages issued.
21	4/7/97	Annual review. Update State of AL. fax number. All pages issued.
22	7/16/97	Correct telephone number. Modify notification list. All pages issued.
23	9/24/98	Update manual callout list and instructions. All pages issued.

CECC-EPIP-3
OPERATIONS DUTY SPECIALIST
PROCEDURE FOR ALERT

Rev. No.	Date	REVISION LOG (Continued)	Revised Pages
24	11/13/00	Add section to cover ODS relocation, editorial changes.	
25	3/30/01	Annual review. Revise initial State Notification Form. All pages issued.	
26	8/23/01	Update notification list. All pages issued.	

**OPERATIONS DUTY SPECIALIST
PROCEDURE FOR ALERT**

1.0 PURPOSE

This procedure is designed to direct the ODS during an Alert to ensure consistent, accurate, and timely response in the event of an emergency.

2.0 SCOPE

This procedure covers anticipated requirements of the ODS during an Alert. This procedure should not be used after the CECC has assumed responsibility for communications with the State under CECC EPIP-1.

3.0 REFERENCES

Radiological Emergency Plan

4.0 ABBREVIATIONS AND DEFINITIONS

EDO - Emergency Duty Officer
ERDS - Emergency Response Data System
ODS - Operations Duty Specialist
CECC - Central Emergency Control Center

5.0 RESPONSIBILITIES

- 5.1 Upon notification by the Site Emergency Director that an Alert exists, the ODS is responsible for recording the preliminary report of information concerning the incident on Appendix A.
- 5.2 The ODS is responsible for notifying the appropriate State agency, CECC EDO, CECC Director, Plant Assessment Manager, Radiological Assessment Manager, Load Coordinator, and key CECC staff. The ODS is also responsible for notifying technical support personnel as requested.
- 5.3 The ODS is responsible for recording any follow-up information on Appendix B and notifying the appropriate State.

6.0 PROCEDURE REQUIREMENTS

- 6.1 Actions to be Taken for an Alert

The ODS performs the following tasks:

NOTE: When making notifications of an emergency situation, provide only the information contained on the attachment. Avoid any unnecessary explanation, interpretation, or elaboration of the information. Timeliness and accuracy is of the utmost importance.

(TIME/INITIALS)

____ / ____ 6.1.1 Upon receiving a call from the Site Emergency Director:

Turn on Recording Equipment and enter the following information.

Current Date: _____

Current Time: _____

____ / ____ 6.1.2 Refer to the form in Appendix A and log information to be provided to the State.

6.1.3 Make notification call to the appropriate State (not to exceed 5 minutes from time notified by site).

Tennessee

TEMA Duty Officer: _____ Time: _____

(Use the ringdown telephone as the primary means to contact TEMA. If this does not work, then use numbers programmed on phones.)

Alabama

Alabama Rad Health Duty Officer: _____ Time: _____

AFTER HOURS NOTIFY

Alabama Public Safety to have Rad Health Duty Officer
call the ODS _____ Time: _____
(See numbers programmed on phones.)

(TIME/INITIALS)

 / 6.1.4 If event **has been terminated** refer to CECC-EPIP-2 and perform Sections 6.1.4 through 6.1.9 of that procedure for notification and receive further guidance from the EDO.

 / 6.1.5 If event **has not been terminated**, activate Automated Paging System. Monitor the Automatic Paging System screen. If any critical positions do not respond within 15 minutes or indicate they cannot respond, then use the REND or REP duty list to contact duty or backup staff for those positions. Appendix C will be used to document Fitness for Duty for positions contacted by telephone. Steps 6.1.6 through 6.1.25 of this procedure should be done in parallel with these actions as time permits.

-OR-

If Automated Paging System is not operable, notify the following and have them report to the center (see the REP Duty List or CECC Notification Board). Initial attempts to fill critical positions should be performed before moving on to non-critical positions and steps 6.1.6 through 6.1.24 of this procedure. Appendix C will be used to document fitness for duty.

Critical Positions	
<u> </u> /	CECC EDO
<u> </u> /	CECC Director
<u> </u> /	Radiological Assessment Manager
<u> </u> /	Plant Assessment Manager
<u> </u> /	Dose Assessor
<u> </u> /	Plant Assessment Team Leader
<u> </u> /	Plant Assessment Coordinator
<u> </u> /	Nuclear Emergency Public Information Duty Officer

- / Environs Assessor
- / Management Services Supervisor
- / Resource Support Coordinator
- / Core Damage
- / Engineering Representative
- / Meteorologist
- / Communications Support Personnel (Telephones)
- / Computer Support Personnel
- / B. K. Marks
- * / J. R. Rupert

*Revision

- / 6.1.6 If event has not been terminated, activate the ERDS system (not to exceed 1 hour after the declaration of the event). If the ERDS system fails to activate, continue with the next step (6.1.7) of this procedure.
- / 6.1.7 Notify the CECC EDO.
- / 6.1.8 Notify COC Security (751-3783) and request that security be established and key card access be initiated.

If the ODS is located in the Power Business Center and conditions allow relocation to the CECC continue with step 6.1.9 of this procedure, if the ODS is located in the CECC or is not relocating to the CECC proceed to section 6.1.16 of this procedure.

- / 6.1.9 Transfer 751-1700 to the cellular phone.
- / 6.1.10 Notify TEMA (for SQN and WBN events) that the ODS will be in transit to the CECC and that all calls should be made to 423-751-1700 until further notice.
- / 6.1.11 Relocate to the CECC.
- Upon arrival in the CECC perform the following:
- / 6.1.12 Follow up on any calls received during transit to the CECC.
- / 6.1.13 Place the "A-B" switches for the Paging, ERDS and Alarm Notification Systems to the "A" position.
- / 6.1.14 Transfer 751-1700 and the three site ringdown phones from the cellular phone back to the desktop phone.
- / 6.1.15 Notify TEMA (for SQN and WBN events) that the ODS is in the CECC and can now use the ringdown phone for communications.

- / 6.1.16 Inform the Site Emergency Director that the respective state has been notified.
- / 6.1.17 Notify J. A. Scalice.
- / 6.1.18 Notify the Load Coordinator of the condition.
- / 6.1.19 Upon receiving telecopy of the Site Emergency Director event form, verify the information recorded on Appendix A of this procedure is correct.
- / 6.1.20 Telecopy the proper Appendix of this procedure to the affected State.
AL. RAD Health (334) 206-5387
TEMA (615) 242-9635

- ____ / ____ 6.1.21 Verify that the telecopy to the State has been received (only during normal working hours for Al. RAD Health). Use programmed telephone number for the affected State.
- ____ / ____ 6.1.22 If the ERDS system failed to activate in step 6.1.6 of this procedure, notify the computer support duty officer and the NRC duty officer in Rockville, Maryland at telephone number (301) 816-5100.
- ____ / ____ 6.1.23 Refer to the form in Appendix B, log follow-up information, and provide to the appropriate State.
- ____ / ____ 6.1.24 Continue attempts to contact any critical or non-critical positions in Section 6.1.5 of this procedure that have not responded.

APPENDIX A Page 1 of 1

TVA INITIAL NOTIFICATION FORM FOR ALERT

1. THIS IS A REAL EVENT THIS IS A DRILL

2. This is _____, TVA Operations Duty Specialist at telephone number (423) 751-1700.

There has been a **ALERT** declared at:

Browns Ferry Sequoyah Watts Bar affecting:

Unit 1 Unit 2 Unit 3 Common

3. **EAL Designator:** _____

4. **Brief Description of the Event:** _____

5. **Radiological Conditions:**

- No Abnormal Release Offsite
- Airborne Release Offsite
- Liquid Release Offsite
- Release Information Not Known

6. **Event Declared:** Time: _____ Date: _____

7. **Provide Protective Action Recommendation:**

None

8. Please repeat the information you have received to ensure accuracy.

APPENDIX B Page 1 of 1

FOLLOW-UP INFORMATION FORM
ALERT

1. "This is a Real Emergency. This is a Real Emergency."

or

"This is a Drill. This is a Drill."

2. Time _____

3. The following significant changes in Plant Conditions have occurred.

4. The following significant changes in Radiological Conditions have occurred. _____

5. "Please repeat the information you have received to ensure accuracy."

6. Time information provided to State. _____

7. Name _____ Date _____

Note: When completed telecopy this Form to the State.

Tennessee Valley Authority CENTRAL EMERGENCY CONTROL CENTER EMERGENCY PLAN IMPLEMENTING PROCEDURES	Title OPERATIONS DUTY SPECIALIST PROCEDURE FOR SITE AREA EMERGENCY	CECC EPIP-4 REV. 27
		Effective Date: 8/23/01



2824971807
 CHAT CECC EPIP
 CECC-EPIP-4
 082301 27

WRITTEN BY: Thomas E. Allin Signature REVIEWED BY: David Pond Signature 8/16/01 Date

PLAN EFFECTIVENESS DETERMINATION: Thomas E. Allin Signature 8/16/01 Date

CONCURRENCES

Concurrence Signature	Date
<input checked="" type="checkbox"/> Manager, EP Program Planning and Implementation <u>David Pond</u>	<u>8/16/01</u>
<input checked="" type="checkbox"/> Manager, Emergency Preparedness <u>BK Marks</u>	<u>8/16/01</u>
<input checked="" type="checkbox"/> Manager, Radiological and Chemistry Services <u>Chandhan</u>	<u>8/17/01</u>
<input type="checkbox"/>	_____

APPROVAL

APPROVED BY: <u>[Signature]</u> Signature	Vice President, E&TS Title	E&TS Organization	<u>8/28/01</u> Date
--	-------------------------------	----------------------	------------------------

CECC-EPIP-4
OPERATIONS DUTY SPECIALIST
PROCEDURE FOR SITE AREA EMERGENCY

REVISION LOG

Rev. No.	Date	Revised Pages
0	3/22/88	All (changed from IPD to EPIP)
1	4/27/88	4
2	7/8/88	Pages 3 & 4, Page 2 of App. B
3	11/18/88	3, 4
4	4/26/89	All
5	7/13/89	3, 4
6	9/19/89	All
7	10/26/89	2, App. A (pg. 2), App. B (p. 2)
8	5/23/90	"General Emergency" moved to EPIP-5, App. A (p. 2), App. B (p.2), App. C added (p.1).
9	5/21/91	Pages 2 & 3, App. A, Pgs. 1 & 2, App. B, Pgs. 1 & 2
10	5/31/91	Page 2 of 3; Appendix B, Pages 1 & 2
11	12/12/91	Pages 1-3; App. A, pgs. 1-2; App. B, pgs. 1-2.
12	05/15/92	Page 2 revised; new coversheet and rev. log added; all pages issued.
13	12/23/92	All
14	01/25/93	Pages 1, 3-4, add activation of ERDS system. All pages issued.
15	06/18/93	Page 3; all pages issued.
16	06/24/94	Pages 1-4; App. B; Former App. B changed to App. C.
17	2/17/95	Page 3 Name removal from notification list.
18	7/13/95	Page 4 Change AL. Area code. All pages issued.
19	3/20/96	Page 3 Change M. O. Medford to J. P. Maciejewski; All pages issued.
20	10/30/96	Remove references to SOS, add M. O. Medford to call list, telephone number updates; add statement to clarify CECC security setup instructions. Procedures put in new format. All pages issued.
21	12/12/96	Page 3 removed M. O. Medford; Page 4 add O. J. Zeringue; All pages issued.
22	4/7/97	Annual review, update State of AL. fax number. All pages issued.

CECC-EPIP-4
OPERATIONS DUTY SPECIALIST
PROCEDURE FOR SITE AREA EMERGENCY

<u>Rev. No.</u>	<u>Date</u>	<u>REVISION LOG (Continued)</u>	<u>Revised Pages</u>
<u>23</u>	<u>7/16/97</u>	<u>Correct telephone number. Modify notification list. All pages issued.</u>	
<u>24</u>	<u>9/24/98</u>	<u>Annual review. Update manual callout list. All pages issued.</u>	
<u>25</u>	<u>11/13/00</u>	<u>Add section to cover ODS relocation, editorial changes.</u>	
<u>26</u>	<u>3/30/01</u>	<u>Annual review. Revise initial State Notification Form. All pages issued.</u>	
<u>27</u>	<u>8/23/01</u>	<u>Update notification list. All pages issued.</u>	

**OPERATIONS DUTY SPECIALIST
PROCEDURE FOR SITE AREA EMERGENCY**

1.0 PURPOSE

This procedure is designed to direct the ODS during a Site Area Emergency to ensure consistent, accurate, and timely response in the event of an emergency.

2.0 SCOPE

This procedure covers anticipated requirements of the ODS during a Site Area Emergency. This procedure should not be used after the CECC has assumed responsibility for communication with the State under CECC-EPIP-1.

3.0 REFERENCES

Radiological Emergency Plan

4.0 ABBREVIATIONS AND DEFINITIONS

EDO - Emergency Duty Officer
ERDS - Emergency Response Data System
ODS - Operations Duty Specialist
CECC - Central Emergency Control Center

5.0 RESPONSIBILITIES

- 5.1 Upon notification by the Site Emergency Director that a Site Area Emergency exists, the ODS is responsible for recording the preliminary report of information concerning the incident on Appendix A.
- 5.2 The ODS is responsible for notifying the appropriate State agency, CECC EDO, CECC Director, Plant Assessment Manager, Radiological Assessment Manager, Load Coordinator, and key CECC staff. The ODS is also responsible for notifying technical support personnel as requested.
- 5.3 The ODS is responsible for recording any follow-up information on Appendix B and notifying the appropriate State.

6.0 PROCEDURE REQUIREMENTS

- 6.1 Actions to be Taken for a Site Area Emergency

The ODS performs the following tasks:

NOTE: When making notifications of an emergency situation, provide only the information contained on the attachment. Avoid any unnecessary explanation, interpretation, or elaboration of the information. Timeliness and accuracy is of the utmost importance.

(TIME/INITIALS)

____ / ____ 6.1.1 Upon receiving a call from the Site Emergency Director:

Turn on Recording Equipment and enter the following information.

Current Date: _____

Current Time: _____

____ / ____ 6.1.2 Refer to the form in Appendix A and log information to be provided to the State.

6.1.3 Make notification call to the appropriate State (not to exceed 5 minutes from time notified by site).

Tennessee

TEMA Duty Officer: _____ Time: _____

(Use the ringdown telephone as the primary means to contact TEMA. If this does not work, then use numbers programmed on phones.)

Alabama

Alabama Rad Health Duty Officer: _____ Time: _____

AFTER HOURS NOTIFY

Alabama Public Safety to have Rad Health Duty Officer call the ODS _____ Time: _____
(See numbers programmed on phones.)

(TIME/INITIALS)

____ / 6.1.4 If event **has been terminated** refer to CECC-EPIP-2 and perform Sections 6.1.4 through of that procedure 6.1.9 for notification and receive further guidance from the EDO.

____ / 6.1.5 If the event **has not been terminated**, activate Automated Paging System. Monitor the Automatic Paging System screen. If any critical positions do not respond within 15 minutes or indicate they cannot respond, then use the REND or REP duty list to contact duty or backup staff for those positions. Appendix C will be used to document Fitness for Duty for positions contacted by telephone. Steps 6.1.6 through 6.1.25 of this procedure should be done in parallel with these actions as time permits.

-OR-

If Automated Paging System is not operable, notify the following and have them report to the center (see the REP Duty List or CECC Notification Board). Initial attempts to fill critical positions should be performed before moving on to non-critical positions and steps 6.1.6 through 6.1.24 of this procedure. Appendix C will be used to document fitness for duty.

Critical Positions	
____ /	CECC EDO
____ /	CECC Director
____ /	Radiological Assessment Manager
____ /	Plant Assessment Manager
____ /	Dose Assessor
____ /	Plant Assessment Team Leader
____ /	Plant Assessment Coordinator
____ /	Nuclear Emergency Public Information Duty Officer

____ /	Environs Assessor
____ /	Management Services Supervisor
____ /	Resource Support Coordinator
____ /	Core Damage
____ /	Engineering Representative
____ /	Meteorologist
____ /	Communications Support Personnel (Telephones)
____ /	Computer Support Personnel

____ / B. K. Marks

* ____ / J. R. Rupert

*Revision

- / 6.1.6 If event has not been terminated, activate the ERDS system (not to exceed 1 hour after the declaration of the event). If the ERDS system fails to activate continue with the next step (6.1.7) of this procedure.
- / 6.1.7 Notify the CECC EDO by phone:
- / 6.1.8 Notify COC Security (751-3783) and request that security be established and key card access be initiated.

If the ODS is located in the Power Business Center and conditions allow relocation to the CECC continue with step 6.1.9 of this procedure, if the ODS is located in the CECC or is not relocating to the CECC proceed to section 6.1.16 of this procedure.

- / 6.1.9 Transfer 751-1700 to the cellular phone.
- / 6.1.10 Notify TEMA (for SQN and WBN events) that the ODS will be in transit to the CECC and that all calls should be made to 423-751-1700 until further notice.
- / 6.1.11 Relocate to the CECC.
- Upon arrival in the CECC perform the following:
- / 6.1.12 Follow up on any calls received during transit to the CECC.
- / 6.1.13 Place the "A-B" switches for the Paging, ERDS and Alarm Notification Systems to the "A" position.
- / 6.1.14 Transfer 751-1700 and the three site ringdown phones from the cellular phone back to the desktop phone.
- / 6.1.15 Notify TEMA (for SQN and WBN events) that the ODS is in the CECC and can now use the ringdown phone for communications.

- / 6.1.16 Inform the Site Emergency Director that the respective state has been notified.
- / 6.1.17 Inform J. A. Scalice.
- / 6.1.18 Notify the Load Coordinator of the condition.
- / 6.1.19 Upon receiving telecopy of the Site Emergency Director event form, verify the information recorded on Appendix A of this procedure is correct.
- / 6.1.20 Telecopy the proper Appendix of this procedure to the affected State.
AL. RAD Health (334) 206-5387
TEMA (615) 242-9635

- / 6.1.21 Verify that the telecopy to the State has been received (only during normal working hours for AL. RAD Health). Use programmed telephone number for the affected State.
- / 6.1.22 If the ERDS system failed to activate in step 6.1.6 of this procedure, notify the computer support duty officer and the NRC duty officer in Rockville, Maryland at telephone number (301) 816-5100.
- / 6.1.23 Refer to the form in Appendix B, log follow-up information, and provide to the appropriate State.
- / 6.1.24 Continue attempts to contact any critical or non-critical positions in section 6.1.5 of this procedure that have not responded.

APPENDIX A Page 1 of 1

TVA INITIAL NOTIFICATION FORM FOR SITE AREA EMERGENCY

1. THIS IS A REAL EVENT THIS IS A DRILL

2. This is _____, TVA Operations Duty Specialist at telephone number (423) 751-1700.

There has been a **SITE AREA EMERGENCY** declared at:

Browns Ferry Sequoyah Watts Bar affecting:

Unit 1 Unit 2 Unit 3 Common

3. EAL Designator: _____

4. Brief Description of the Event: _____

5. Radiological Conditions:

No Abnormal Release Offsite

Airborne Release Offsite

Liquid Release Offsite

Release Information Not Known

6. Event Declared: Time: _____ Date: _____

7. Provide Protective Action Recommendation:

None

8. The Meteorological conditions are:

Wind Speed: _____ m.p.h Wind Direction From: _____ degrees

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

APPENDIX B Page 1 of 1

FOLLOW-UP INFORMATION FORM
SITE AREA EMERGENCY

1. "This is a Real Emergency. This is a Real Emergency."
or
"This is a Drill. This is a Drill."

2. Time _____

3. The following significant changes in Plant Conditions have occurred.

4. The following significant changes in Radiological Conditions have occurred. _____

5. "Please repeat the information you have received to ensure accuracy."

6. Time information provided to State. _____

7. Name _____ Date _____

Note: When completed telecopy this Form to the State.

Tennessee Valley Authority CENTRAL EMERGENCY CONTROL CENTER EMERGENCY PLAN IMPLEMENTING PROCEDURES	Title OPERATIONS DUTY SPECIALIST PROCEDURE FOR GENERAL EMERGENCY	CECC EPIP-5 REV. 29
		Effective Date: 8/23/01



2824981100
 CHAT CECC EPIP
 CECC-EPIP-5
 082301 29

WRITTEN BY: Thomas E. Albain Signature REVIEWED BY: David Pond Signature 8/16/01 Date

PLAN EFFECTIVENESS DETERMINATION: Thomas E. Albain Signature 8/16/01 Date

CONCURRENCES

Concurrence Signature	Date
<input checked="" type="checkbox"/> Manager, EP Program Planning and Implementation <u>David Pond</u>	<u>8/16/01</u>
<input checked="" type="checkbox"/> Manager, Emergency Preparedness <u>BK Marks</u>	<u>8/16/01</u>
<input checked="" type="checkbox"/> Manager, Radiological and Chemistry Services <u>Chandran</u>	<u>8/17/01</u>
<input type="checkbox"/>	_____

APPROVAL

APPROVED BY: <u>[Signature]</u> Signature	Vice President, E&TS Title Organization	<u>8/20/01</u> Date
---	---	------------------------

CECC-EPIP-5
 OPERATIONS DUTY SPECIALIST
 PROCEDURE FOR GENERAL EMERGENCY

REVISION LOG

Rev. No.	Date	Revised Pages
0	3/22/88	All (Changed from IPD to EPIP)
1	7/8/88	App. B
2	11/18/88	App. B
3	4/26/89	All
4	7/13/89	App. A (pgs. 2, 3, 4), App. B
5	9/19/89	App. D (pg. 2)
6	10/26/89	3-5, App. A (1, 3-4), App. B, App. D, App. G-I
7	5/23/90	All (Formerly issued as EPIP-4)
8	5/21/91	Pages 2 & 3, App. A, Pgs. 1 & 2, App. B, Pgs. 1 & 2
9	5/31/91	Page 2 of 3; Appendix B, pages 1 and 2
10	12/12/91	Pages 1-3; App. A, pgs. 1-2; App. B, pgs. 1-2.
11	05/15/92	Page 2 revised; new coversheet & rev. log added. All pages issued.
12	12/23/92	All
13	01/25/93	Page 1, 4, add activation of ERDS system. All pages issued.
14	06/18/93	Pages 2 and 3; all pages issued.
15	03/17/94	Pages 1-4; all pages issued.
16	04/19/94	Pages 1-4; all pages issued.
17	06/24/94	Pages 1-4; all pages issued.
18	07/25/94	Page 2 (new Hamilton Co. telephone number). All pages issued.
19	2/17/95	Page 3 Name removal from notification list.
20	7/13/95	Page 4 change AL. area code. All pages issued.
21	3/20/96	Page 2 change to new telephone area code, page 3 change M. O. Medford to J. P. Maciejewski; all pages issued.
22	10/30/96	Remove references to SOS, add M. O. Medford to call list, rearrange order of call list, telephone number updates, add statement to clarify CECC security setup instructions. Procedure put in new format. All pages issued.

CECC-EPIP-5
OPERATIONS DUTY SPECIALIST
PROCEDURE FOR GENERAL EMERGENCY

<u>Rev. No.</u>	<u>Date</u>	<u>REVISION LOG (Continued)</u> <u>Revised Pages</u>
<u>23</u>	<u>12/12/96</u>	<u>Page 3 remove M. O. Medford; Page 4 add O. J. Zeringue;</u> <u>All pages issued.</u>
<u>24</u>	<u>4/7/97</u>	<u>Annual review, update county emergency telephone numbers,</u> <u>correct typographical error in Appendix A. All pages issued.</u>
<u>25</u>	<u>7/16/97</u>	<u>Correct telephone number. Modify notification list. All pages issued.</u>
<u>26</u>	<u>9/24/98</u>	<u>Annual review. Update telephone area code and manual callout</u> <u>list. All pages issued.</u>
<u>27</u>	<u>11/13/00</u>	<u>Add section to cover ODS relocation, editorial changes.</u>
<u>28</u>	<u>3/30/01</u>	<u>Annual review. Revise initial State Notification Form.</u> <u>Update Morgan County after hours telephone number. All pages</u> <u>issued.</u>
<u>29</u>	<u>8/23/01</u>	<u>Updated telephone numbers and notification list. All pages issued.</u>

**OPERATIONS DUTY SPECIALIST
PROCEDURE FOR GENERAL EMERGENCY**

1.0 PURPOSE

This procedure is designed to direct the ODS during a General Emergency to ensure consistent, accurate, and timely response in the event of an emergency.

2.0 SCOPE

This procedure covers the action of the ODS during a General Emergency. This procedure should not be used after the CECC has assumed responsibility for communications with the State under EPIP-1.

3.0 REFERENCES

Radiological Emergency Plan

4.0 ABBREVIATIONS AND DEFINITIONS

EDO - Emergency Duty Officer
EMA - Emergency Management Agency
ERDS - Emergency Response Data System
ODS - Operations Duty Specialist
CECC - Central Emergency Control Center

5.0 RESPONSIBILITIES

- 5.1 Upon notification by the Site Emergency Director that a General Emergency exists, the ODS is responsible for recording the preliminary report of information concerning the incident on Appendix A.
- 5.2 The ODS is responsible for notifying the appropriate state and local agencies, CECC EDO, CECC Director, Plant Assessment Manager, Radiological Assessment Manager, Load Coordinator, and key CECC staff. The ODS is responsible for notifying technical support personnel as requested.
- 5.3 The ODS is responsible for recording any follow-up information on Appendix B and notifying the appropriate state.

6.0 PROCEDURE REQUIREMENTS

6.1 Action to be Taken for a General Emergency

The ODS performs the following tasks:

NOTE: When making notifications of an emergency situation, provide only the information contained on the attachment. Avoid any unnecessary explanation, interpretation, or elaboration of the information. Timeliness and accuracy is of the utmost importance.

(TIME/INITIALS)

____ / ____ 6.1.1 Upon receiving a call from the Site Emergency Director:

Turn on Recording Equipment.

Current Date: _____
Current Time: _____

____ / ____ 6.1.2 Refer to the form in Appendix A and log information to be provided to the local counties/State.

____ / ____ 6.1.3 Activate the automatic paging system. (If automatic paging system fails, go to 6.1.4.)

6.1.4 Make notification call to the appropriate counties:

Browns Ferry

Limestone County: (256) 232-2631 Time: _____
(After hrs) (256) 232-0111

* Morgan County (256) 351-4620 Time: _____
(After hrs) (256) 353-2515 opt 0

Lawrence County (256) 974-7641 Time: _____
(After hrs) (256) 974-7911

Lauderdale County (256) 766-4201 Time: _____
(After hrs) (256) 760-9117

Sequoyah

Hamilton County (423) 209-6900 Time: _____
(After hrs) (423) 622-7777 or 622-0022

Bradley County (423) 476-0606 Time: _____
(After hrs) (423) 476-7511

Watts Bar

Rhea County (423) 775-2505 Time: _____
(After hrs) (423) 775-7828

* Meigs County (423) 334-3211 Time: _____
(After hrs) (423) 334-5268

McMinn County (423) 744-2715 Time: _____
(After hrs) (423) 745-3140

If you are unable to contact the appropriate counties by use of the above telephone numbers, use the telephone numbers provided in Section E of the REND - State/Local Support.

*Revision

(TIME/INITIALS)

6.1.5 Make notification call to the appropriate State.

Tennessee

TEMA Duty Officer: _____ Time: _____
 (Use the ringdown telephone as the primary means to contact TEMA. If this does not work, then use numbers programmed on phones.)

Alabama

Alabama Rad Health Duty Officer: _____ Time: _____

AFTER HOURS NOTIFY

Alabama Public Safety to have Rad Health Duty Officer call the ODS _____ Time: _____
 (See numbers programmed on phones.)

6.1.6 Activate the Automated Paging System. Monitor the Automatic Paging System screen. If any critical positions do not respond within 15 minutes or indicate they cannot respond, then use the REND or REP duty list to contact duty or backup staff for those positions. Appendix C will be used to document Fitness for Duty for positions contacted by telephone. Steps 6.1.7 through 6.1.25 of this procedure should be done in parallel with these actions as time permits.

Or

If the Automated Paging System is not operable, notify the following and have them report to the CECC. (See REP Duty List or CECC Notification Board for names and phone numbers). Initial attempts to fill critical positions should be performed before moving on to non-critical positions and steps 6.1.7 through 6.1.26 of this procedure. Appendix C will be used to document fitness for duty.

Critical Positions
_____/_____/ CECC EDO
_____/_____/ CECC Director
_____/_____/ Radiological Assessment Manager
_____/_____/ Plant Assessment Manager
_____/_____/ Dose Assessor
_____/_____/ Plant Assessment Team Leader
_____/_____/ Plant Assessment Coordinator
_____/_____/ Nuclear Emergency Public Information Duty Officer

- _____/_____/ Environs Assessor
- _____/_____/ Management Services Supervisor
- _____/_____/ Resource Support Coordinator
- _____/_____/ Core Damage
- _____/_____/ Engineering Representative
- _____/_____/ Meteorologist
- _____/_____/ Communications Support Personnel (Telephones)
- _____/_____/ Computer Support Personnel
- * _____/_____/ J. R. Rupert
- _____/_____/ B. K. Marks

*Revision

- / 6.1.7 Activate the ERDS system (not to exceed 1 hour after the declaration of the event). If the ERDS system fails to activate, continue with the next step (6.1.8) of this procedure.
- / 6.1.8 Notify the CECC EDO.
- / 6.1.9 Notify COC Security (751-3783) and request that security be established and key card access be initiated.

If the ODS is located in the Power Business Center and conditions allow relocation to the CECC continue with step 6.1.10 of this procedure. If the ODS is located in the CECC or is not relocating to the CECC proceed to section 6.1.17 of this procedure.

- / 6.1.10 Transfer 751-1700 to the cellular phone.
 - / 6.1.11 Notify TEMA (for SQN and WBN events) that the ODS will be in transit to the CECC and that all calls should be made to 423-751-1700 until further notice.
 - / 6.1.12 Relocate to the CECC.
- Upon arrival in the CECC perform the following:
- / 6.1.13 Follow up on any calls received during transit to the CECC.
 - / 6.1.14 Place the "A-B" switches for the Paging, ERDS and Alarm Notification Systems to the "A" position.
 - / 6.1.15 Transfer 751-1700 and the three site ringdown phones from the cellular phone back to the desktop phone.
 - / 6.1.16 Notify TEMA (for SQN and WBN events) that the ODS is in the CECC and can now use the ringdown phone for communications.

 / 6.1.17 Inform the Site Emergency Director that the State and appropriate local Emergency Management Agencies have been notified.

 / 6.1.18 Notify J. A. Scalice

 / 6.1.19 Notify the Load Coordinator of the condition.

 / 6.1.20 Upon receiving telecopy of the Site Emergency Director event form, verify the information recorded on Appendix A of this procedure is correct.

 / 6.1.21 Telecopy the proper Appendix of this procedure to the affected State.

AL RAD Health (334) 206-5387
TEMA (615) 242-9635

- / 6.1.22 Verify that the telecopy to the State has been received (only during normal working hours for AL RAD Health). Use programmed telephone number for the affected State.
- / 6.1.23 If the ERDS system failed to activate in step 6.1.7 of this procedure, notify the computer support duty officer and the NRC duty officer in Rockville, Maryland at telephone number (301) 816-5100.
- / 6.1.24 Refer to the form in Appendix B, log follow-up information, and provide to the appropriate state.
- / 6.1.25 Continue attempts to contact any critical or non-critical positions in section 6.1.6 of this procedure that have not responded.

APPENDIX A Page 1 of 1

TVA INITIAL NOTIFICATION FORM FOR GENERAL EMERGENCY

1. THIS IS A REAL EVENT THIS IS A DRILL

2. This is _____, TVA Operations Duty Specialist at telephone number (423) 751-1700.

There has been a **GENERAL EMERGENCY** declared at:

Browns Ferry Sequoyah Watts Bar affecting:

Unit 1 Unit 2 Unit 3 Common

3. EAL Designator: _____

4. Brief Description of the Event: _____

5. Radiological Conditions:

No Abnormal Release Offsite

Airborne Release Offsite

Liquid Release Offsite

Release Information Not Known

6. Event Declared: _____ Time: _____ Date: _____

7. Provide Protective Action Recommendation:

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. The Meteorological Conditions are:

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

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

APPENDIX B Page 1 of 1

FOLLOW-UP INFORMATION FORM
GENERAL EMERGENCY

1. "This is a Real Emergency. This is a Real Emergency."
or
"This is a Drill. This is a Drill."

2. Time _____

3. The following significant changes in Plant Conditions have occurred.

4. The following significant changes in Radiological Conditions have occurred. _____

5. The following changes to Protective Action Recommendations have occurred.

6. "Please repeat the information you have received to ensure accuracy."

7. Time information provided to State. _____

8. Name _____ Date _____

Note: When completed telecopy this Form to the State.

CECC-EPIP-22
 OPERATIONS DUTY SPECIALIST
 TRANSPORTATION INCIDENTS INVOLVING A SHIPMENT OF
 RADIOACTIVE MATERIALS

REVISION LOG

Rev. No.	Date	Revised Pages
0	3/22/88	All (Formerly IP-20; changed from IPD to EPIP)
1	4/27/88	2
2	11/18/88	2
3	4/26/89	All
4	10/26/89	2, App. A
5	5/21/91	1, 2
6	5/15/92	Pg. 2 revised. New coversheet and rev. log added. All pages issued.
7	02/09/93	Pgs. 1 & 2; Appendix A, pg. 1; Appendix B, Pgs. 1-3; all pages issued.
8	06/24/94	All
9	6/27/95	Page 2 notification list changes.
10	1/3/96	Procedure issued in new format which includes, in some cases, altering of the order of statements, editorial changes, and addition of boxes and shading to highlight statements. Changed accident to incident in title and through the procedure. Added step in Att. A checklist to get brief description of the event. Changed appendices to attachments. Added WBN phone numbers. All pages issued.
11	3/20/96	Page 2 change M. O. Medford to J. P. Maciejewski
12	10/30/96	Page 2 add M. O. Medford, change Shift Operations Supervisor to Shift Manager, add notification of Plant Assessment Manager. All pages issued.
13	12/12/96	Page 2 change M. O. Medford to O. J. Zeringue; All pages issued.
14	7/16/97	Modify notification list. All pages issued.
15	5/20/99	Annual review. Revise notification list. All pages issued.

CECC-EPIP-22
OPERATIONS DUTY SPECIALIST
TRANSPORTATION INCIDENTS INVOLVING A SHIPMENT OF
RADIOACTIVE MATERIALS

REVISION LOG

<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>
<u>16</u>	<u>7/10/00</u>	<u>Annual review and self-assessment items. All pages issued.</u>
<u>17</u>	<u>8/23/01</u>	<u>Revise notification list and telephone number. All pages issued.</u>

**OPERATIONS DUTY SPECIALIST
TRANSPORTATION ACCIDENT INVOLVING A SHIPMENT OF
RADIOACTIVE MATERIALS**

1.0 PURPOSE

This procedure is designed to direct the ODS in obtaining and providing immediate information in the event of a transportation incident involving a shipment of TVA radioactive materials. A transportation incident includes vehicle accidents, leaking containers, or other abnormal situations that could attract public attention or require assistance. This procedure is also designed to ensure that all appropriate notifications are made. If a request for assistance is made for a non-TVA shipment, contact the EDO for direction.

2.0 SCOPE

This procedure covers actions of the Operations Duty Specialist (ODS) when an incident occurs involving a shipment of radioactive materials.

3.0 REFERENCES

3.1 Radiological Emergency Plan.

4.0 ABBREVIATIONS AND DEFINITIONS

EDO - Emergency Duty Officer
ODS - Operations Duty Specialist
REND - Radiological Emergency Notification Directory

5.0 RESPONSIBILITIES

In the event of a transportation incident involving a shipment of TVA's radioactive materials, the ODS is notified by someone on the scene. Emergency instructions in the vehicle provide the appropriate telephone number. The ODS is authorized to accept collect telephone calls for this purpose. Upon receiving such notification, the ODS obtains from the caller the information outlined on the TRANSPORTATION INCIDENT CHECKLIST (**Attachment A**). The ODS makes the notifications as outlined in section 6.0.

NOTE: If an on scene responder requests immediate information concerning the shipment or how to respond to the incident, then refer to **Attachment B of this procedure**. Requested information shall be provided within 15 minutes from the time of the call to the ODS.

6.0 PROCEDURE REQUIREMENTS

6.1 If caller requests immediate information, refer to **Attachment B** of this procedure.

6.2 COMPLETE THE TRANSPORTATION INCIDENT CHECKLIST. (**Attachment A**).

6.3 The ODS notifies the following:

(Time/Initials)

____ / 6.3.1 If the accident occurs in either Alabama or Tennessee, notify the appropriate State agency by direct line. After hours, the Alabama phone call will be made to the Department of Public Safety (see numbers preprogrammed on phones). Ask the officer to contact the Radiological Health Duty Officer by phone or pager and have the Duty Officer call back the ODS. Alternate telephone numbers for these agencies are listed in the TVA REND.

____ / 6.3.2 Notify the Shift Manager of the plant where the shipment originated. Alternate numbers are listed in the TVA REND.

____ / 6.3.3 Notify the following:

____ / CECC EDO

____ / CECC DIRECTOR

____ / J. A. Scalice

* ____ / J. R. Rupert

* ____ / B. K. Marks

____ / 6.3.4 Notify the Radiological Assessment Manager.
(See the CECC Pager Duty List.)

____ / 6.3.5 Notify the Plant Assessment Manager. (See the CECC
Pager Duty List)

____ / 6.3.6 If the incident involves a TVA radiography shipment, advise the Radiological Assessment Manager to immediately notify the TS/ISO Radiography contact from the Pager Duty List, or REND Section G.

*Revision

ATTACHMENT A

TRANSPORTATION INCIDENT CHECKLIST

- a. What is your name? _____
- b. Brief Description of the incident. _____

- c. What is your relationship to the accident (truck driver, State or local police, or a passerby)?

- d. Where did the incident occur, and at what time did it occur? _____

- e. Where did the vehicle originate, and what is its destination? _____

- f. What authorities, such as State or local police, have been notified? _____

- g. Was anyone injured? What are the nature and extent of their injuries? _____

- h. Has medical assistance been summoned for injured persons? _____
- i. Is there a fire involved? _____
- j. (If an accident has occurred) What is the extent of damage to the vehicle and shipping container?

- k. Is there an obvious breach of the shipping container? Have the contents of the container spilled?

- l. What type of shipment is this (cask, van-type trailer, or other vehicle)? _____
- m. Where are you calling from? _____
- n. How can you, State, or local police be contacted (area code and telephone number)?

- o. Refer to the shipping papers and/or **Attachment B** of this EPIP if you need to provide any information to the caller.

INFORMATION FOR ON SCENE RESPONDERS

NOTE: Information requested by authorities for immediate action shall be provided within 15 minutes.

Information About Shipments

- a. If you are requested to provide information concerning the shipment, refer to the ODS RADIOACTIVE MATERIAL SHIPMENT FORM which was telecopied to the ODS when the shipment left the TVA facility. Provide any information on the form which may be requested by the on scene responder and tell this individual of any precautions that may be indicated on the form.

Information About Emergency Response

- b. If you are requested to provide information concerning Emergency Response, then provide any pertinent information contained in **pages 2 thru 4 of this Attachment.**

Where To Get Assistance

- c. If you are requested to provide information which you have no knowledge of or is not available to you, contact the Shift Manager or the RADCON Lab at the affected plant for assistance at the telephone numbers listed below. If the shipment does not originate at a nuclear plant, the Shift Manager or Site RADCON Staff at a TVA nuclear plant may be able to provide information concerning the radioactive material being shipped.

*	SQN SM	423-843-6211
	SQN RADCON Lab	423-843-6300
	BFN SM	256-729-2213
	BFN RADCON Lab	256-729-2300
	WBN SM	423-365-8213
		423-365-8391
	WBN RADCON Lab	423-365-8300
		423-365-3351

If you are unable to contact the Shift Operations Supervisor or RADCON Lab, then contact the Radiological Assessment Manager listed on the Pager Duty List.

- d. Continue with procedure requirements contained in Section 6.0.

*Revision

Attachment B Page 2 of 4
INFORMATION FOR ON SCENE RESPONDERS

EMERGENCY RESPONSE INFORMATION

NOTE: A copy of this information is included with the shipping papers sent with the shipment.

Immediate Hazards to Health

- a. External radiation from unshielded radioactive material.
- b. Internal radiation from inhalation, ingestion, or skin absorption.
- c. Radioactive material; degree of hazard will vary greatly, depending on type and quantity of radioactive material.
- d. Runoff from fire control or dilution water may cause the spread of radioactive contamination.

Risks of Fire and Explosion

- a. The primary potential for fire or explosion is from leaking fuel from the motor vehicle.
- b. Some of the packaged materials may burn, but none of them readily ignites.
- c. Radioactive oil (if present in a package) has a potential for fire.

Immediate Precautions To Be Taken

- a. Keep unnecessary people as far from the transport vehicle as practicable.
- b. Notify State or local police that an incident has occurred involving radioactive material.
- c. Isolate hazard area and deny entry.
- d. Detain uninjured persons and equipment exposed to radioactive material until arrival or instruction of Radiation Authority.
- e. Delay clean-up until arrival or instruction of the Radiological Health Authority with jurisdiction.
- f. Do not move damaged containers.

Attachment B Page 3 of 4
INFORMATION FOR ON SCENE RESPONDERS

EMERGENCY RESPONSE INFORMATION

Immediate Methods of Handling Fires

- a. Keep everyone at least 150 feet upwind and minimize breathing any of the smoke or fumes from the fire. Greater distances may be necessary if advised by Radiation Authority.
- b. Notify the fire department of the fire and inform them that the transport vehicle is carrying radioactive material.
- c. Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.
- d. If advised by the Radiation Authority, move undamaged containers out of fire zone.
- e. Small Fires: Dry chemical, CO₂, Halon, water spray, or standard foam.
- f. Large Fires: Water spray, fog (flooding amounts).
- g. For massive fire in cargo area, use unmanned hose holder or monitor nozzles.
- h. Fight fire from maximum distance. Stay away from ends of tanks.
- i. If water pollution occurs, notify the appropriate authorities.

Immediate Methods for Handling Spills or Leaks in the Absence of Fire

- a. Establish the restricted area and keep people outside of the area and on the upwind side (if possible).
- b. Enter the spill area only to aid injured persons; limit entry to the shortest possible time.
- c. Unless authorized by the Radiation Authority, do not touch damaged containers or spilled material.
- d. Damage to outer container may not affect primary inner container.
- e. Small Liquid Spills: Take up with sand, earth or other noncombustible absorbent material.
- f. Large Spills: Dike far ahead of liquid spill for later disposal.

Attachment B Page 4 of 4
INFORMATION FOR ON SCENE RESPONDERS

EMERGENCY RESPONSE INFORMATION

Preliminary First Aid Measures

- a. Call emergency medical care if there are any suspected injuries.
- b. Advise medical care personnel that injured persons may be contaminated with radioactive material.
- c. Remove injured persons from any possible contaminated areas (unless the injuries are of a severe nature that would make movement inadvisable).
- d. If not affecting injury, remove and isolate contaminated clothing and shoes; wrap victim in blanket before transporting.
- e. If not injured, detain persons and equipment exposed to radioactive material until arrival or instruction of Radiation Authority.

CECC-EPIP-23
RADIOACTIVE MATERIAL TRANSPORTATION INCIDENTS

REVISION LOG

Rev. No.	Date	Revised Pages
0	12/12/88	All
1	4/26/89	3
2	10/26/89	App. A
3	6/20/90	All (formerly EPIP-21) (Former EPIP-23 transferred to EPIP-13)
4	9/14/90	Pg. 4 (only)
5	5/21/91	Pages 1 - 19
6	02/22/93	Pgs. 1-17 revised. Pages 20-23 added. All pages issued.
7	11/30/93	Pages 3, 15, and 20; all pages issued.
8	06/23/94	Pgs. 5-7; All pages issued.
9	6/27/95	Pgs. 3-6, 11-15, 17, and 18
10	1/3/96	Procedure issued in new format which includes, in some cases, altering of the order of statements, editorial changes, and adding boxes and shading to highlight statements. Changed accident to incident in title and through the EPIP. Added definition of transportation incident, revised references section, updated EDO checklist. Added notification of the Senior Nuclear Executive and affected site VP to the CECC Dir. checklist, added WBN phone numbers, changed Appendices to Attachments. All pages issued.
11	5/30/96	Pgs. 2, 4, 6, 8, Att. E; Att. F; annual review, minor changes for clarification, revised to provide flexibility for selection of optional equipment needed by field teams; all pages issued.
12	4/7/97	Annual review, editorial and organizational updates. All pages issued.
13	5/8/97	Page 18 revised to support new air sampling equipment. All pages issued.
14	3/11/98	Annual review. Pages 2, 4, and 5 revised to add instructions to get equipment from plants and consideration for use of still camera and satellite phone, update Corporate Communications titles. Page 15 revised to remove full-face respirators w/HEPA-charcoal filters from equipment list. All pages issued.
15	7/7/98	Update Transportation Equipment list, pages 14 & 15. All pages issued.
16	6/15/00	Annual review. Editorial changes, update area codes, new packaging for KI, add flash lights to inventory list.
17	8/23/01	Update EDO checklist and SQN SM telephone number. All pages issued.

RADIOACTIVE MATERIAL TRANSPORTATION INCIDENTS

1.0 PURPOSE

This procedure provides guidance to TVA personnel under the control of the CECC for response to transportation incidents involving radioactive materials. A transportation incident includes vehicle incidents, leaking containers, or other abnormal situations that could attract attention or require assistance.

2.0 SCOPE

This procedure is applicable to transportation incidents involving radioactive materials to which TVA is requested to respond, including those situations which do not include shipments involving TVA materials or facilities.

3.0 REFERENCES

- 3.1 "Carrier and Shipper Responsibilities and Emergency Response Procedures for Highway Transportation Accidents Involving Truckload Quantities of Radioactive Materials," ANSI N14.27, 1986.
- 3.2 "Emergency Response Guidebook," Department of Transportation.

4.0 RESPONSIBILITIES

4.1 CECC Director

Upon notification of a transportation incident, evaluate the need to staff the CECC and provide overall coordination of the response to the incident. Perform actions per **Attachment B** and review section 6.0.

NOTE: If an on scene responder requests immediate information concerning the shipment or how to respond to the incident, the information must be provided within 15 minutes from the time the call is received. Additional information is contained in **Attachment B** of this procedure.

4.2 CECC Emergency Preparedness Staff

- 4.2.1 The Manager, EP Program Planning and Implementation Section, or designee, ensures equipment and materials are available and maintained in accordance with section 5.0.
- 4.2.2 Upon notification, the EP Emergency Duty Officer (EDO) shall perform actions per **Attachment A**.

4.3 Radiological Assessment Manager (RAM)

Upon notification, perform actions per **Attachment C** and review section 6.0.

4.4 Environs Assessor (EA)

Upon activation, perform actions per **Attachment D** and review section 6.0.

4.5 Field Coordinator (FC)

Upon activation, perform actions per **Attachment D** and review section 6.0.

NOTE: The EA may assume the functions of the FC.

4.6 Monitoring Team

- 4.6.1 If using a site sampling team vehicle for response to the incident scene, the inventory per CECC EPIP-9 should be sufficient. Obtain additional dosimetry for any persons in addition to the standard 2-person sampling team crew.

If not using a sampling team vehicle for response to the incident scene, gather equipment per **Attachment E**. Consider Health Physics equipment needs applicable to the emergency and obtain those items from plant inventory (i.e., hand held and extended reach survey instruments, air samplers, and respirators).

- 4.6.2 Consider the need for video camera, still camera, and portable communications (radio, cellular phone or satellite phone).
- 4.6.3 Prior to arrival at the incident scene, review expected actions per **Attachment F** and review section 6.0.
- 4.6.4 Upon arrival at the incident scene, perform actions per **Attachment F** and CECC instructions. Utilize applicable CECC EPIP-9 instructions and data forms for radiological monitoring. Complete **Attachment G** as an incident area survey map.

4.7 Dose Assessment

Upon activation for a transportation incident response, perform actions per instructions of the Radiological Assessment Manager.

4.8 Corporate Communications

- 4.8.1 Upon notification of a transportation incident, the Nuclear Information Duty Officer shall inform the Site Communications Consultant or the Media Relations Duty Officer of the incident.
- 4.8.2 The Site Communications Consultant or Media Relations Duty Officer has the responsibility to establish contact with the CECC Director for coordination and to open a conduit to obtain information concerning the incident.

5.0 OPERATIONAL READINESS OF ENVIRONMENTAL MONITORING EQUIPMENT

5.1 Emergency Environmental Monitoring Vehicles

Emergency Preparedness has vehicles and equipment available for response to a transportation incident. Inspections, inventories, and locations are provided in CECC EPIP-9 and -23.

5.2 Transportation Incident Kit

5.2.1 A response kit for situations requiring the use of transportation other than the vehicles referenced in section 5.1, is located at the Central Emergency Control Center (CECC).

5.2.2 The contents of the kit are listed in **Attachment E**. As a minimum, inspections shall be performed by the assigned organization each calendar quarter or after use to ensure operational readiness is maintained.

6.0 GENERAL OPERATIONS FOR ENVIRONMENTAL MONITORING TEAMS

6.1 Radiological and Physical Hazard Precautions

6.1.1 Perform applicable radiological monitoring practices upon the approach to an incident area, during on-scene operations, and prior to leaving controlled areas.

6.1.2 Be attentive to potential changing conditions (i.e., onset of release due to fire, addition of runoff due to fire-prevention measures, movement of vehicle or container, deterioration of containers due to contact with spilled chemicals, or meteorological conditions).

6.1.3 Remain cognizant of individual doses and take action to limit doses ALARA, below individual routine exposure limits. Any decisions to embark on emergency operations which would result in exposures in excess of limits in 10 CFR 20 should be done in consultation with the CECC Radiological Assessment Manager.

6.1.4 Assume airborne radioactivity exists until there is direct evidence to the contrary and use appropriate respiratory protection equipment, based on known or suspected airborne hazards.

CAUTION!: Because some shipments may contain materials that present toxic hazards that exceed radiological hazards, the team shall not enter a plume from a fire. Shipments of radioiodines with significant activity are common for medical purposes. Consider the use of KI if airborne radioiodine is suspected (and actual levels are unknown) and exposure rates greater of 25 mrem/hr are encountered.

- 6.1.5 Shipments may also involve other hazardous materials (toxics, corrosives, flammables or reactives). Be attentive to contact with materials (either directly or from residues on radiological samples) and to the limitations of your personal protective clothing and equipment.

NOTE: Material information may be listed on shipping papers. Refer to the DOT Emergency Response Manual for specific protective action recommendations if placard or chemical ID information is known. Otherwise, team members shall observe radiological protective actions described in CECC EPIP-9 and as noted on the bottom of exposure rate and air activity data forms.

6.2 Communications for Environmental Monitoring Teams

- 6.2.1 If available, the Emergency Environs Monitoring radio is the primary means of communication if the incident location is within the system coverage.
- 6.2.2 If the radio system is not available, utilize best available alternate means (cellular or satellite telephone).

NOTE: Additional radio system information and CECC telephone numbers are provided in CECC EPIP-9.

6.3 Incident Scene Activities

The monitoring team shall follow instructions from the CECC and in accordance with **Attachment F**. Deviations from exact compliance may be necessary in consideration of specific circumstances of the incident; however, personnel safety shall not be compromised.

7.0 LIST OF ATTACHMENTS

- Attachment A: EP Emergency Duty Officer (EDO) Checklist
- Attachment B: CECC Director Checklist
- Attachment C: CECC RAM Checklist
- Attachment D: CECC Environs Assessor and Field Coordinator Checklist
- Attachment E: Transportation Incident Equipment
- Attachment F: Incident Scene Activities (Environmental Monitoring Team)
- Attachment G: Incident Area Survey Form
- Attachment H: On Scene Incident Report
- Attachment I: Fitness for Duty Program Administration - TVAN Call-In Sheet

Attachment A Page 1 of 1

EP Emergency Duty Officer Checklist

1. Perform the following notifications:

Time/Init.

_____/_____
Confirm the CECC Director has been notified by the Operations Duty Specialist.
Specialist (Name: _____ Number: _____)

* ____/_____
* Notify the Manager, EP Program Planning and Implementation Section
or designee.

* ____/_____
* Notify the EP Program Manager responsible for EP emergency radiological
monitoring equipment and vehicles or designee.

* ____/_____
* Notify the Manager, EP State and Local Programs Section or designee.

_____/_____
Notify the Nuclear Information Duty Officer.
(Name: _____ Number: _____)

2. Establish initial operation of the CECC if it is to be utilized.

3. Assist any response team members in obtaining EP equipment and vehicles.

NOTE: The transportation incident kit assigned to the CECC may be located in the CECC.
If a vehicle is not currently available in Chattanooga, refer to EPIP-9, for other vehicle
locations. A Portable radio, camera, film, and camcorders may also be available in the EP
Staff storage area.

Radiological monitoring equipment, supplies, and Potassium Iodide tablets may also be
available in the CECC area.

**4. The issuance of a cellular or satellite phone to the CECC management team should
be considered.**

*Revision

CECC DIRECTOR CHECKLIST

1. Obtain a completed:
 - "Transportation Incident Checklist" (CECC EPIP-22, Attachment A)
 - ODS Radioactive Material Shipment Notification form (from the Operations Duty Specialist if it was faxed by the shipper.)

NOTE: If an on scene responder requests immediate information concerning the shipment or how to respond to the incident, then refer to pages 3, 4, 5, and 6 of this attachment. Requested information shall be provided within 15 minutes from the time that it is initially requested.

2. Consult with the on duty CECC Radiological Assessment Manager and Nuclear Information Duty Officer to determine the necessary levels of staffing for the CECC. Inform the ODS to notify selected staff and utilize Attachment I, "Fitness for Duty Program Administration" for documentation.
3. If determined necessary, begin preparations to dispatch a CECC Management team from the CECC consisting of management representatives from Emergency Preparedness, Radiological Control, and Communications to the incident site.
4. Consult with the on duty CECC Radiological Assessment Manager and determine if an environmental monitoring team should be dispatched.

NOTE: The Radiological Assessment Manager is responsible for providing input, selecting response team members, and arranging transportation.

5. Consult with the on duty Radiological Assessment Manager and Nuclear Information Duty Officer to determine if the CECC Management Team should be released to proceed to the incident location.
6. Notify the Senior Nuclear Executive of the incident.
7. Notify the affected site Vice President of the incident.

CECC DIRECTOR CHECKLIST

8. Notify the following: (These notifications may be delegated.)

NOTE: These notifications shall be made for all vehicle accident situations and are optional for other minor incidents as deemed appropriate.

Time/Init. (Refer to the TVA REND)

_____/_____
* NRC Office of Inspection and Enforcement-Atlanta (consider notification
* of Rockville, Maryland if the incident is in a state outside of Region II)
MRC reporting requirements in 10 CFR 2202 do not require an accident
to be repaired.

* _____/_____
* U.S. Department of Transportation. Call accidents are not required to be
reported to DOT, only those meeting 49 CFR 171.15)

_____/_____
State contact for incident location

_____/_____
Department of Energy (for information only)

_____/_____
American Nuclear Insurers (ANI)

Time/Init. (Refer to the current CECC notification board.)

_____/_____
Nuclear Information Duty Officer

_____/_____
TVA Nuclear Insurance Carrier Contact (if requested by ANI)

9. Evaluate the appropriate level of TVA resources to commit and provide overall coordination of those resources.

10. Ensure that Federal, State, and local agencies are kept informed, as appropriate, of TVA activities and coordinate TVA's efforts with those agencies.

11. Review with the Radiological Assessment Manager any on site and offsite consequences and assess the adequacy and need for measures for the protection of the public.

12. Make recommendations to State and local agencies on protective measures for the public.

13. Maintain accurate records of decisions made and actions started and completed.

*Revision

CECC DIRECTOR CHECKLIST

INFORMATION FOR ON SCENE RESPONDERS

- 14. Ensure Public Information needs are addressed.
- 15. Ensure appropriate recovery actions are taken.

NOTE: Information requested by authorities for immediate action shall be provided within 15 minutes.

Information About Shipments

- a. If you are requested to provide information concerning the shipment, refer to the ODS RADIOACTIVE MATERIAL SHIPMENT FORM which was telecopied to the ODS when the shipment left the TVA facility. Provide any information on the form which may be requested by the on scene responder and tell this individual of any precautions that may be indicated on the form.

Information About Emergency Response

- b. If you are requested to provide information concerning Emergency Response, then provide any pertinent information contained in **pages 4, 5 and 6 of this Attachment.**

Where To Get Assistance

- c. If you are requested to provide information which you have no knowledge of or is not available to you, contact the Shift Manager or the RADCON Lab at the affected plant for assistance at the telephone numbers listed below. If the shipment does not originate at a nuclear plant, the Shift Manager or Site RADCON Staff at a TVA nuclear plant may be able to provide information concerning the radioactive material being shipped.

*	SQN SM	423-843-6211
	SQN RADCON Lab	423-843-6300
	BFN SM	256-729-2213
	BFN RADCON Lab	256-729-2300
	WBN SM	423-365-8213
		423-365-8391
	WBN RADCON Lab	423-365-8300
		423-365-3351

If you are unable to contact the Shift Manager or RADCON Lab, then contact the Radiological Assessment Manager listed on the CECC Notification Board or one of the Radioactive Materials Specialists listed in the REND.

*Revision

CECC DIRECTOR CHECKLIST

INFORMATION FOR ON SCENE RESPONDERS

EMERGENCY RESPONSE INFORMATION

NOTE: A copy of this information is included with the shipping papers sent with the shipment.

Immediate Hazards to Health

- a. External radiation from unshielded radioactive material.
- b. Internal radiation from inhalation, ingestion, or skin absorption.
- c. Radioactive material; degree of hazard will vary greatly, depending on type and quantity of radioactive material.
- d. Runoff from fire control or dilution water may cause the spread of radioactive contamination.

Risks of Fire and Explosion

- a. The primary potential for fire or explosion is from leaking fuel from the motor vehicle.
- b. Some of the packaged materials may burn, but none of them readily ignites.
- c. Radioactive oil (if present in a package) has a potential for fire.

Immediate Precautions To Be Taken

- a. Keep unnecessary people as far from the transport vehicle as practicable.
- b. Notify State or local police that an incident has occurred involving radioactive material.
- c. Isolate hazard area and deny entry.
- d. Detain uninjured persons and equipment exposed to radioactive material until arrival or instruction of Radiation Authority.
- e. Delay clean-up until arrival or instruction of the Radiological Authority with jurisdiction.
- f. Do not move damaged containers.

CECC DIRECTOR CHECKLIST

INFORMATION FOR ON SCENE RESPONDERS

EMERGENCY RESPONSE INFORMATION

Immediate Methods of Handling Fires

- a. Keep everyone at least 150 feet upwind and minimize breathing any of the smoke or fumes from the fire. Greater distances may be necessary if advised by Radiation Authority.
- b. Notify the fire department of the fire and inform them that the transport vehicle is carrying radioactive material.
- c. Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.
- d. If advised by the Radiation Authority, move undamaged containers out of fire zone.
- e. Small Fires: Dry chemical, CO₂, Halon, water spray, or standard foam.
- f. Large Fires: Water spray, fog (flooding amounts).
- g. For massive fire in cargo area, use unmanned hose holder or monitor nozzles.
- h. Fight fire from maximum distance. Stay away from ends of tanks.
- i. If water pollution occurs, notify the appropriate authorities.

Immediate Methods for Handling Spills or Leaks in the Absence of Fire

- a. Establish the restricted area and keep people outside of the area and on the upwind side (if possible).
- b. Enter the spill area only to aid injured persons; limit entry to the shortest possible time.
- c. Unless authorized by the Radiation Authority, do not touch damaged containers or spilled material.
- d. Damage to outer container may not affect primary inner container.
- e. Small Liquid Spills: Take up with sand, earth or other noncombustible absorbent material.
- f. Large Spills: Dike far ahead of liquid spill for later disposal.

Attachment B Page 6 of 6

CECC DIRECTOR CHECKLIST

INFORMATION FOR ON SCENE RESPONDERS

EMERGENCY RESPONSE INFORMATION

Preliminary First Aid Measures

- a. Call emergency medical care if there are any suspected injuries.
- b. Advise medical care personnel that injured persons may be contaminated with radioactive material.
- c. Remove injured persons from any possible contaminated areas (unless the injuries are of a severe nature that would make movement inadvisable).
- d. If not affecting injury, remove and isolate contaminated clothing and shoes; wrap victim in blanket before transporting.
- e. If not injured, detain persons and equipment exposed to radioactive material until arrival or instruction of Radiation Authority.

Attachment C Page 1 of 1

CECC RAM CHECKLIST

1. Review incident information. (Refer to CECC EPIP-22, Attachment A completed by the Operations Duty Specialist and any radioactive material shipping papers that may have been telecopied to the ODS.)
2. Advise the CECC Director as to the level of staffing required to support the TVA response.
3. Select and activate appropriate CECC Radiological staff and Response Team members. Refer to REND for notification listings. Ensure Attachment I is utilized for any call outs

NOTE: A Response Team should be dispatched if radioactive materials require re-packaging. In these events, a radioactive material specialist should accompany the Response Team for technical assistance. Personnel selected for entry into radiological incident areas for field monitoring duties shall be Emergency Environs Sampling Team qualified in accordance with CECC EPIP-9.

The following is provided to assist in notifications: (use as appropriate)

Environs Assessor: _____ Contacted: _____

Field Coordinator: _____ Contacted: _____

Radioactive Material Specialist: _____ Contacted: _____

Response Team Member: _____ Contacted: _____

Response Team Member: _____ Contacted: _____

Dose Assessor: _____ Contacted: _____

Meteorologist: _____ Contacted: _____

Mode of Transportation: _____ Means of Contact: _____

4. Coordinate TVA's radiological assessment activities and keep the CECC Director advised of the status of the TVA response efforts and of radiological assessments.
5. Ensure personnel are briefed on known or anticipated conditions and that they are informed of the agency requesting TVA assistance.
6. Ensure that all immediate notifications are made as required in the TVAN Radioactive Material Shipment Manual.
7. Ensure recovery actions are completed, equipment is returned to an in-service status, and that personnel dosimetry/dose assessment needs are performed.

Attachment D Page 1 of 1

CECC ENVIRONS ASSESSOR AND FIELD COORDINATOR CHECKLIST

Environs Assessor

1. If the shipment originated from a TVA nuclear site, obtain a copy of the shipping papers that would have been telecopied to the ODS.
2. Provide support for field team preparation and dispatch. Ensure equipment and staff needs are completed.
3. In coordination with the RAM, determine response-specific exposure limits and Remaining Allowable Doses for field team personnel and inform them of same.

NOTE: Cross reference exposure control, protective action levels and dose logs with CECC EPIP-9.

4. Confirm Response Team personnel eligibility for expected actions in field response (refer to personnel requirements in CECC EPIP-9).
5. Determine means of communication to be used by the Response Team (operate CECC base radio console as applicable).
6. Review field monitoring instructions per CECC EPIP-9 which apply to the response.
7. Maintain a log of Response Team actions and incoming information reported by the Response Team.

Field Coordinator

1. Ensure that departure preparations are complete and in accordance with any special instructions from the RAM.
2. Accompany Response Team members to the incident location and supervise TVA personnel at the incident scene per section 6.0 and **Attachment F**.
3. Track TVA personnel exposures on scene.
4. Unless instructed otherwise by the RAM, serve as the primary TVA interface with on scene authorities and ensure the CECC is kept informed of operations.
5. Ensure necessary surveys are performed and documented.
6. Ensure recovery actions are completed and any TVA equipment used is returned to service following operations.

Attachment E Page 1 of 2

TRANSPORTATION INCIDENT EQUIPMENT

Transportation Incident Kit Booklet			
	Qty	Item	Remarks
	1	CECC EPIP-23 (Controlled copy)	Rev:
	5	CECC EPIP-23 Attachment G (working copy)	Rev:
	1	CECC EPIP-9 (Controlled copy)	Rev:
	5	CECC EPIP-9 Attachment D (working copy)	Rev:
	5	CECC EPIP-9 Attachment E (working copy)	Rev:
	5	CECC EPIP-9 Attachment F (working copy)	Rev:
	5	CECC EPIP-9 Attachment G (working copy)	Rev:

General Kit Contents			
	Qty	Item	Remarks
	3	TLDs (list expiration date)	Date:
	3	Direct reading dosimeters (0-200 mrem range)	
	1	Dosimeter charger with battery	
	1	Package KI (list expiration)	Date:
	1	Calculator	
	3	Mechanical pencils and pens (each)	
	1	US Atlas	
	1	Logbook	
	1	DOT Emergency Response Guidebook	Year:

Attachment E Page 2 of 2

TRANSPORTATION INCIDENT EQUIPMENT

General Kit Contents			Remarks
Qty	Item		
1	Roll 2-inch Radiation Symbol warning tape		
12	Radioactive Material ID tags		
6	Radiation/Contamination Area warning signs		
400 ft.	Yellow and magenta ribbon or rope		
10	Large yellow plastic bags		
10	Small yellow plastic bags		
10	Zip-lock sample bags (approx. 6" and 10")		
20	Adhesive sample bag labels		
5	Plastic liquid sample containers (min. 500 ml)		
5	Charcoal air sampler cartridges		
5	Silver Zeolite air sampler cartridges		
1	Air sampler head (for Radeco H 809V)		
10	Air sampler prefilters		
10	Plastic petri dishes		
1	Pair tweezers		
100	Smears with folders		
6	Disposable coveralls (anti-contamination)		
6	Canvas hoods (anti-contamination)		
6	Skull caps		
6 pr.	Pair of rubber overshoes		
6 pr.	Yellow plastic booties		
12 pr.	Rubber gloves (anti-contamination)		
12 pr.	Glove liners		
1 pr.	Work gloves (leather/canvas)		
12 pr.	Latex gloves (surgeon's type)		
1	Roll of 2-inch duct tape		
1	Can spray paint (for area marking)		
2	Flash lights w/batteries		

Stored location of kit and equipment: _____

Additional comments: _____

Inspected by: _____ Date: _____

Supervisory Review: _____ Date: _____

NOTE: Maintain documentation for 2 years.

Attachment F Page 1 of 5

INCIDENT SCENE ACTIVITIES
(Environmental Monitoring Team)

1.0 Actions Immediately Upon Arrival

- 1.1 Each TVA person entering radiation exposure fields shall wear a TLD badge, and a 200 mrem direct reading dosimeter. Record data on CECC EPIP-9 Dose Log.
- 1.2 Place a radiation survey meter in the ON position on a lower range scale to monitor any increase in background as you approach the area.
- 1.3 Locate the senior authority at the incident site, identify yourself, and indicate that you are responding at the request of _____ (i.e., the State Division of Radiological Health, Emergency Management Agency, etc.).
- 1.4 Obtain a briefing from the senior authority on the physical hazards present (chemical, fire, electrical, etc.).
- 1.5 As necessary, report Attachment H information to the CECC as soon as possible, preferable before proceeding to the following steps.
- 1.6 If requested by the on scene authority, proceed with the remainder of guidance in this attachment.

NOTE: TVA's obligation is to provide radiological support to the on scene local authorities. The local and state authorities have jurisdiction in the emergency response effort even if a TVA vehicle or shipment is involved in the incident.

2.0 Establishment of Area Control

- 2.1 Request the on scene authority to have people move back from the incident. Nonessential persons and onlookers should be moved a safe distance away, but be aware that some may already be contaminated if the source has been breached.

Recommend an attempt to identify these persons (i.e., obtain name, address, phone numbers, etc.) and as necessary, isolate these persons for the purpose of performing a contamination survey prior to release. (This may also apply to first responders.)

NOTE: Persons suspected of contamination concerns should immediately be advised not to eat, drink, or smoke until surveyed.

Attachment F Page 2 of 5

INCIDENT SCENE ACTIVITIES
(Environmental Monitoring Team)

- 2.2 Advise fire and rescue personnel to stay upwind or crosswind from the location of the source, if possible. Firefighting and rescue efforts should not be interrupted.

CAUTION!: The life-threatening hazards associated with a vehicle fire and the potential for explosions far outweigh the radiological hazards in almost any case.
DO NOT ENTER A PLUME FROM A FIRE!

- 2.3 If fire fighting efforts are in progress, determine the path of the water runoff and, if possible, advise on the containment and control of runoff.

NOTE: This applies during rainfall as well. Always assume that the source container has failed until confirmed intact.

- 2.4 If rescue of injured persons is still in progress, offer to survey the patient to assist in any notifications to receiving hospitals.
- 2.5 Establish a control area using radiation warning rope and signs using guidance from the DOT Emergency Response Guidebook and from best available information. (The initial posted area may be reduced in size as later survey results indicate.)
- 2.6 If radioactive material has spilled, consider plans to cover/contain the material to reduce its spread. The use of plastic sheeting, plastic bags, or fire department salvage or rescue covers may be used to prevent dispersion by wind, etc.

3.0 Survey of the Incident Scene

- 3.1 Don appropriate personal protective clothing or equipment in preparation for entry into the incident area. Remember to assume that the area may already have been contaminated and that airborne hazards exist, **UNTIL INFORMATION IS KNOWN TO THE CONTRARY**.
- 3.2 If a fire prevents surveying the area for the foreseeable future, analysis of a sample of the runoff water may indicate whether the source container has been breached. After best available analysis, double bag the sample to prevent leakage until a more detailed analysis can be obtained.

CAUTION!: Be attentive to the possibility of chemical contaminants in the runoff. Collect samples only if safe to do so and if the container is able to withstand contact with the liquid.

Attachment F Page 3 of 5

INCIDENT SCENE ACTIVITIES
(Environmental Monitoring Team)

- 3.3 If fire and/or smoke is present, and an electrical source is available, attempt to obtain an air sample using the following procedure:
- 3.3.1 Prepare the air sampler cartridge using a charcoal cartridge (use silver zeolite if Iodine 131 is suspected) and particulate prefilter.
 - 3.3.2 Secure (tape) the extension cord connection with the air sampler plug. While still in a safe area, briefly start the air sampler to adjust the flow rate to 60 liters per minute (2 cfm), then terminate the sample by depressing the STOP key and prepare the sampler to start with the next depression of the START key.
 - 3.3.3 Request that a firefighter in appropriate protective clothing and respiratory protection place the sampler in the plume and depress the START key.

CAUTION!: Be attentive to electrical hazards from water runoff.

- 3.3.4 Run the sample for 5 minutes unless instructed otherwise. Stop the air sampler by disconnection of the extension cord with the power source.
- 3.3.5 If a sampling van is present, analyze the cartridge and prefilter according to EPIP-9.

If the sampling van is not available, survey the sample using the Bicon Surveyor 50 for a gross indication of the presence or absence of radioactivity.

CAUTION!: Consider the possibility of the presence of Radon (recount after 30 minutes).
Also handle the samples using tweezers and gloves.

- 3.4 If the on scene authority has declared the area to be free of other physical hazards (fire, chemical, electrical, etc.), one person should prepare to make an entry to the control area to perform radiological monitoring. This should be done only with the permission of the on-scene authority. The other person should remain in the clean area to coordinate communications with the on scene incident command and CECC.
- 3.5 Establish some means of communications with the person performing the entry into the controlled area. Approach the vehicle (or source) from an upwind direction. The Gieger-Mueller Survey Meter (GMSM) should be adequate to obtain exposure rates.

Attachment F Page 4 of 5

INCIDENT SCENE ACTIVITIES
(Environmental Monitoring Team)

NOTE: Allowable DOT radiation limits range on a package ranges from less than 1 mrem/hr up to 1000 mrem/hr, depending on package type and method of transport. Consult the shipping papers (if available) for the expected dose rates on the package and vehicle exterior. Additional advice may be available from a TVA Radioactive Material specialist.

- 3.6 After exposure rates have been determined and recorded, perform a contamination survey. All radioactive material outside its container should be considered transferable contamination, and smear surveys will also be made. Any object that shows detectable contamination above background shall be considered contaminated no matter how small the amount of activity.

NOTE: Consider the type of isotope emission when selecting the type of detection instrument. DOT contamination limits allow up to 2200 dpm/100 cm² beta-gamma and 220 dpm/100 cm² alpha (transferable) on a package. Consult the shipping papers (if available) for vehicle and package contamination measurements.

- 3.7 The person outside the area should attempt to draw and complete a survey map (**Attachment G**).
- 3.8 Keep the CECC informed of the survey results.
- 3.9 If the source container has failed, or if its condition is not known, frisk personnel at the site. *Recommend that anyone found to be contaminated above BG levels be evaluated by local RAD Health Authorities. Because TVA has no legal authority at the site, TVA personnel cannot make decisions on releasing contaminated persons.
- 3.10 Advise the on scene authority on the packaging or control of equipment until surveys can be performed (after personnel needs have been addressed).
- 3.11 Consult with emergency responders to determine the priority of equipment which need to be surveyed for return to service.
- 4.0 Additional Services for Transportation Incidents**
- 4.1 Decontamination of persons and equipment (even TVA equipment) is the responsibility of State authorities. If requested to assist, contact the CECC for authorization. It may be possible to provide coveralls for contaminated persons, but keep enough to be able to perform your field monitoring duties.

Attachment F Page 5 of 5

INCIDENT SCENE ACTIVITIES
(Environmental Monitoring Team)

- 4.2 As applicable, inform the on scene authority at the scene that persons injured and sent to hospitals in the area may be contaminated. If requested by State officials, assistance may be provided at a medical facility if authorization is provided by the CECC.
- 4.3 Support the coordination of arrangements for the disposal of radwaste.
- 4.4 The team may support clean-up efforts at the scene as requested by the State until no longer needed or until instructed to depart by the CECC. Consult with the CECC before departing the area.

Attachment G Page 1 of 2

INCIDENT SURVEY FORM

[Empty rectangular box for incident survey details]

All exposure rate readings in mrem/hr. (contact/30 cm/1 meter).
All contamination levels in dpm/100 cm².

SMEAR SURVEYS		
1.	8.	15.
2.	9.	16.
3.	10.	17.
4.	11.	18.
5.	12.	19.
6.	13.	20.
7.	14.	21.

CONTINUED ON BACK

Attachment H Page 1 of 1

ONSCENE INCIDENT REPORT

1. Location of incident _____
2. Radioisotopes involved

3. Activity of isotopes

- * 4. Markings: LSA ____, SCO Radioactive ____
5. Description of packages: _____

6. Physical and chemical forms: _____
7. Package identification (specify type A or B, etc.) _____
8. Shipper, carrier, and destination: _____

9. Injuries and receiving hospitals. _____
10. Release(s) of shipment contents to environment: _____

11. Other hazardous materials present (ID numbers, etc): _____

12. Incident description and present status, terrain (including downwind and downslope farms and residential areas). _____
13. Weather conditions. _____
14. Authorities at the scene. _____
15. Phone number (if not using van radio). _____
16. Results of surveys. (Report using CECC EPIP-9 data forms)

NOTE: Much of this information can be found on the shipping papers. If lost or destroyed in the incident, the driver may be able to help. If all else fails, markings on the vehicle may enable CECC personnel to contact the carrier for information.

*Revision

