



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

November 17, 2003

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	10/28/03
EPIP-1	Rev. 38	10/28/03
EPIP-13*	Rev. 11	10/28/03
EPIP-16	Rev. 0	10/28/03

*EPIP-13 has been deleted in its entirety.

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

Sincerely,

Mark J. Burzynski
Mark J. Burzynski
Manager
Nuclear Licensing

Enclosures
cc: See page 2

A045

U.S. Nuclear Regulatory Commission
Page 2
November 17, 2003

cc (Enclosures):

U.S. Nuclear Regulatory Commission (Enclosures 2)
Region II
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Atlanta, Georgia 30303-8931

NRC Senior Resident Inspector [Enclosures provided
Browns Ferry Nuclear Plant by site DCRM]
10833 Shaw Road
Athens, Alabama 35611-6970

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

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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:
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☒ Retention

DOCUMENT NUMBER	REV	NO. PAGES	REC ACCPT		DATE	REMOVE PAGES	INSERT PAGES
			Y	N			
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CECC EPIP-13, rev. log	11	1				rev. log, 1-5	N/A rev. log
CECC EPIP-16 cover sheet	0	1				cover sheet	cover sheet
CECC EPIP-16, rev. log	0	1			10-28-03	rev. log	rev. log
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⊗ CANCELED							

Acceptance:

Lana L. Farmer 10-28-03
 Signature Date

Contact: _____ Ext. _____

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

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CENTRAL EMERGENCY CONTROL EMERGENCY
PLAN IMPLEMENTING PROCEDURES

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EPIP-2	Operations Duty Specialist Procedure for Notification of Unusual Event
EPIP-3	Operations Duty Specialist Procedure for Alert
EPIP-4	Operations Duty Specialist Procedure for Site Area Emergency
EPIP-5	Operations Duty Specialist Procedure for General Emergency
EPIP-6	CECC Plant Assessment Staff Procedure for Alert, Site Area Emergency, and General Emergency
EPIP-7	CECC Radiological Assessment Staff Procedure for Alert, Site Area Emergency, and General Emergency
EPIP-8	Dose Assessment Staff Activities During Nuclear Plant Radiological Emergencies
EPIP-9	Emergency Environmental Radiological Monitoring Procedures
EPIP-10	Water Management Radiological Emergency Procedures (Cancelled)
EPIP-11	Security of Offsite Emergency Facilities (formerly EPIP-17)
EPIP-12	Operational Readiness Check of the CECC and the Field Coordination Centers for SQN, BFN, & WBN and Joint Information Centers (JIC)
*EPIP-13	Termination and Recovery (Cancelled)
EPIP-14	Nuclear Emergency Public Information Organization and Operations (formerly EPIP-13) (Includes former EPIP-15 and EPIP-16)
EPIP-15	EP Field Support Staff Radiological Emergency Procedures
*EPIP-16	Termination and Recovery
EPIP-17	Central Emergency Control Center Meteorologist Procedures (formerly EPIP-11)
EPIP-18	Transportation and Staffing Under Abnormal Conditions
EPIP-19	Post Accident Core Damage Assessment

CENTRAL EMERGENCY CONTROL EMERGENCY
PLAN IMPLEMENTING PROCEDURES

EPIP-20	CECC Training Requirements (Cancelled—Superseded by TRN-30)
EPIP-21	Emergency Duty Officer Procedure for Notification of Unusual Event, Alert, Site Area Emergency, and General Emergency
EPIP-22	Operations Duty Specialist Transportation Incident Involving a Shipment of Radioactive Materials
EPIP-23	Radioactive Material Transportation Incidents (formerly EPIP-21)

CECC EPIP Coversheet

Tennessee Valley Authority CENTRAL EMERGENCY CONTROL CENTER EMERGENCY PLAN IMPLEMENTING PROCEDURES	Title CENTRAL EMERGENCY CONTROL CENTER (CECC) OPERATIONS	CECC EPIP-1 REV. 38
		Effective Date: 10-28-03

WRITTEN BY: Thomas E. Cellini Signature REVIEWED BY: [Signature] Signature 10/16/2003 Date

PLAN EFFECTIVENESS DETERMINATION: Thomas E. Cellini Signature 10/14/03 Date

CONCURRENCES

Concurrence Signature	Date
<input checked="" type="checkbox"/> Manager, EP Program Planning and Implementation <u>David Pond</u>	10/27/03
<input checked="" type="checkbox"/> Manager, Emergency Preparedness <u>David Pond for E&TS</u>	10/23/03
<input checked="" type="checkbox"/> Manager, Radiological and Chemistry Services <u>Chandhan</u>	10/24/03
<input type="checkbox"/>	

APPROVAL

APPROVED BY: <u>[Signature]</u> Signature	Vice President, E&TS Title Organization	10/27/03 Date
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CECC-EPIP-1
CENTRAL EMERGENCY CONTROL CENTER
OPERATIONS

REVISION LOG

Rev. No.	Date	Revised Pages
0	3/22/88	All (Formerly IP-18. Changed from IPD to EPIP)
1	11/18/88	1, Appendix A
2	4/26/89	All
3	7/13/89	Appendix A
4	10/26/89	2, Appendix A
5	5/23/90	All (formerly EPIP-5)
6	7/2/90	Appendix C, Pg. 1 (only)
7	9/14/90	Pg. 5; App. D, Pg. 3; App. G, Pg. 1; App I, Pg. 1
8	5/21/91	App. A, Pg. 1,5; App. C, Pg. 1, App. D, Pgs. 1-3; App. G, Pgs. 3-4; App. H, Pgs. 1-2; App. I, Pg. 2
9	10/17/91	App. C, Pg. 1; App. D, Pg. 2; App. G, Pg. 1.
10	05/15/92	App. E, Pg. 2 revised; new coversheet & rev. log added. All pages issued.
11	05/26/92	Page 5
12	11/25/92	App. B, Pg. 1; App. G, Page 1 of 4
13	03/08/93	App. I, Pages 1-2
14	05/17/93	2-5, App. A, Pg. 1; App. B, Pg. 1; App. D, Pgs. 1-4; App. H deleted.
15	07/19/93	Appendix D, Pgs. 1-5. All pages issued.
16	09/13/93	Appendix C, Pg. 1; Appendix G, Pg. 2. All pages issued.
17	11/30/93	Pgs. 1 & 5; App. A, Pg. 3; App. C, Pgs. 2 & 3; App. D, Pgs. 1-3; App. E deleted; App. I changed to App. H; App. J changed to App. I.
18	04/19/94	Pgs. 1-5; App. A, Pgs. 1-5; App. B; App. C, Pgs. 1-3; App. D, Pgs. 1-2; App. F; App. G, Pgs. 1-4; App. H, Pgs. 1-2; App. I
19	6/26/95	Pgs. 1 and 5; App. A, Pgs. 2 and 4; App. E; all pages issued.
20	11/01/95	Revised PAR Diagram. All pages issued.

CECC-EPIP-1
CENTRAL EMERGENCY CONTROL CENTER
OPERATIONS

REVISION LOG (Continued)

<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>
<u>21</u>	<u>10/30/96</u>	<u>Revised PAR Diagram, revise State Update Form, revise CECC Dir. Checklist, add telephone suspended rate activation/deactivation information. Put EPIP in new format. All pages issued.</u>
<u>22</u>	<u>4/7/97</u>	<u>Annual review, editorial changes, revise CECC Director checklist. Identify positions that can fill TVA spokesperson position. All pages issued.</u>
<u>23</u>	<u>3/6/98</u>	<u>Annual review, remove old appendix B and relabel app. C - H as app. B - G. On page 1 of old app. F clarify order of CECC Dir Notifications. All pages issued.</u>
<u>24</u>	<u>11/20/98</u>	<u>Add instruction for CECC Director to inform SED where the State has been notified of an emergency classification change. Add EAL designator to State Update Form, update Alabama telephone area code prefix. All pages issued.</u>
<u>25</u>	<u>2/22/99</u>	<u>Revise PAR diagram, add CECC Director duty to request federal assistance through the NRC. Annual review. All pages issued.</u>
<u>26</u>	<u>5/1/99</u>	<u>Revise PAR diagram. All pages issued.</u>
<u>27</u>	<u>5/20/99</u>	<u>Revise instructions for suspended rate telephone line activation. All pages issued.</u>
<u>28</u>	<u>7/16/99</u>	<u>Pages 6, 16, and 26 were revised to ensure complete PAR information is provided to the State. On page 19 an editorial correction was made. All pages issued.</u>
<u>29</u>	<u>11/15/99</u>	<u>Changes made to make forms easier to use (App. B, E, F and H) and for clarity. Phone numbers updated in Appendix G. Added reference to ITSC, editorial changes. All pages issued.</u>
<u>30</u>	<u>8/17/00</u>	<u>Annual review. Revise PAR diagram. All pages issued.</u>
<u>31</u>	<u>10/2/00</u>	<u>Add listing of all evaluation sectors for each plant to Appendix H. Add step to CECC Director checklist to announce classification changes to the CECC staff and to the TVA spokesperson. All pages issued.</u>
<u>32</u>	<u>11/13/00</u>	<u>Clarify responsibilities of the CECC Director and the State Communicator concerning transmittal of hard copy information related to classifications and PARs to the State.</u>

CECC-EPIP-1
CENTRAL EMERGENCY CONTROL CENTER
OPERATIONS

REVISION LOG (Continued)

<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>
<u>33</u>	<u>2/5/01</u>	<u>Correct PAR diagram. All pages issued.</u>
<u>34</u>	<u>3/30/01</u>	<u>Annual review. Add new PAR diagram. Add CECC Director briefing instruction. Add instruction for RAM to monitor rad. EAL trigger point. Editorial changes. All pages issued.</u>
<u>35</u>	<u>9/7/01</u>	<u>Revise Appendix H. All pages issued.</u>
<u>36</u>	<u>6/13/02</u>	<u>Annual review. Add Agency Control Center information, add TPS notification, revise State Update Form, update State Communicator Checklist, revise suspended rate telephone information, revise CECC Directors PAR Form to incorporate elements from the RAD Assessment PAR Form which was combined with this form. All Pages issued.</u>
<u>37</u>	<u>3/31/03</u>	<u>Procedure put in new format. Annual review comments incorporated. Position checklists updated. KI recommendation added to Appendix I. All pages issued.</u>
<u>38</u>	<u>10/28/03</u>	<u>Added Assistant CECC Director responsibilities, revised PAR forms, and updated State Communicator Checklist and State Update form.</u>

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* Revision

CENTRAL EMERGENCY CONTROL CENTER (CECC) OPERATIONS

1.0 PURPOSE

This procedure is designed to direct the CECC Director and staff to ensure consistent, accurate, and timely response to the events of an accident. This procedure further serves to identify the necessary information to provide for prompt, accurate, public protective action recommendations to appropriate State authorities.

2.0 SCOPE

This procedure covers anticipated requirements of the CECC Director and staff during an emergency classification of Notification of Unusual Event (if it is decided to staff or partially staff the CECC), Alert, Site Area Emergency, or General Emergency.

3.0 STAFFING

Responsibilities for CECC staff are contained in Attachments to this procedure as well as in other CECC EIPs. The CECC Director may also obtain assistance from other organizations within TVA. Representatives from these organizations may report to the CECC if requested by the CECC Director. Representatives and notification information are provided in the REND.

3.1 Activation and Notification

The initial notification of an event comes from the ODS via the Emergency Paging System, or by manual call out. Activation of non-duty personnel for unscheduled work shall meet FFD criteria and be documented using Appendix M.

3.2 Emergency Duty Officer (EDO)

The EDO is responsible for establishing initial operability of the CECC upon activation of the center. This position will obtain information from the ODS pertinent to the event and make this information available to key CECC positions. The EP Staff will advise the CECC Director on the REP, notification requirements and operation of the CECC. A checklist for this position is provided in Appendix A

***3.3 CECC Director/Assistant CECC Director**

The CECC Director is responsible for directing TVA's overall response to the emergency.

- * An Assistant CECC Director (who is qualified as a CECC Director) may be used to assist
- * the CECC Director in the accomplishment of position duties. The CECC Director, at his
- * discretion, may delegate the accomplishment of duties to the Assistant CECC Director
- * including signature authority.

The CECC Director ensures that Federal, State, and local agencies are notified in accordance with established procedures and that they are kept fully informed of all aspects of the emergency. The Director reviews with the Plant Assessment and Radiological Assessment Managers the onsite and offsite consequences of the accident and assesses the adequacy and need for measures taken for protection of the public. The Director coordinates TVA's efforts with State and Federal agencies involved in the offsite aspects of the emergency and requests any required federal assistance through the NRC. Checklists for the CECC Director are provided in Appendices B through G. After the appropriate level of CECC activation the CECC Director is responsible for the following:

- Approves all press releases developed in the CECC.
- Notifies the appropriate state authority of any emergency classification upgrades.
- Makes any required Protective Action Recommendations (PARs) to the appropriate state authority using Appendix I.

3.4 Plant Assessment Manager

Plant Assessment Manager Responsibilities are contained in CECC EPIP-6.

3.5 Radiological Assessment Manager

Radiological Assessment Manager responsibilities are contained in CECC EPIP-7.

3.6 Public Information Manager

Public Information Manager responsibilities are contained in CECC EPIP-14.

3.7 State Communicator

The State Communicator shall ensure that all information required by State authorities to perform their assessment function and carry out necessary protective actions is being provided to them in a timely and accurate manner (see Appendix K). The CECC Director shall review for accuracy and approve all information being transmitted to the State in hardcopy form. (This excludes the automatic transmittal of the radiological assessment working information such as met data, dose code runs, plume plots, and field measurements sent to the State Radiological Health Assessors.) Checklists for this position are provided in Appendix J.

3.8 TVA Liaison to the State

For a classification of SITE AREA EMERGENCY OR GENERAL EMERGENCY, the CECC Director will coordinate with the REP staff representative the selection of a TVA liaison to the State Emergency Operations Center (EOC) in Tennessee or the SRMAC in Alabama. The CECC Director will authorize travel to the State facilities for the purpose of providing technical information, advice, and interpretation to State personnel. The TVA Liaison will also ensure that the State is getting all required information from the CECC.

Primary duties of the TVA Liaison to the State facilities are as follows:

- Technical explanations and clarification on plant status.
- Assist the State by keeping them informed of available TVA resources.
- Assist the State in describing/clarifying TVA's response to the emergency, understanding TVA's emergency organization, key TVA staff positions, etc.
- Maintains contact with the CECC State Communicator to ensure that all required information is being provided by the CECC.

3.9 Technical Advisors

The CECC Director will coordinate with the Plant Assessment Manager the selection of people to serve as a technical advisor to the Public Information Manager and staff and also to the State Communicator in the CECC. RADCON and/or Plant Operations advisors may also be selected to be sent to the appropriate State Emergency Operations Center. The advisors will be responsible for providing a nontechnical interpretation of the event for the CECC Public Information Staff.

If the JIC is to be staffed, the CECC Director will coordinate with the Plant Assessment and Radiological Assessment Managers the selection of radiological health and plant operations advisors to serve as technical advisors to the TVA spokesperson located there. These people will be responsible for assisting the TVA spokesperson in interpreting the approved press releases and events taking place.

3.10 Management Services Supervisor

The Management Services Supervisor oversees clerical and administrative support to the CECC. A checklist for this position is provided in Appendix L.

3.11 State Liaison (State Government Representative)

The State Liaison role in the CECC is to observe events taking place, licensee response actions, and advise the State agencies appropriately throughout the emergency. He will receive assistance as necessary from the State Communicator. The State Liaison can also coordinate State support for TVA.

3.12 Provisions for NRC

Provisions have been made to provide workspace for a contingent of NRC staff in the CECC. These provisions include the NRC's FTS 2000 Emergency Telecommunications System. The following dedicated circuits are available: Health Physics Network (HPN), Reactor Safety Counterpart Link (RSCL), Protective Measures Counterpart Link (PMCL), Management Counterpart Link (MCL), Emergency Notification System (ENS), Local Area Network (LAN). HPN and ENS extensions are provided for TVA use as required.

4.0 CECC RESPONSIBILITIES

4.1 Evaluation of Conditions

The CECC staff maintains an awareness of plant conditions to assess the impact on the environment, the site, and to provide technical and logistical support to the site.

4.2 Interface with the State

The CECC provides the State with information on the emergency classification, plant conditions, offsite radiological conditions and Protective Action Recommendations (PARs). The State provides the CECC with information concerning State activities in response to the emergency.

4.3 Protective Action Recommendations

The CECC evaluates plant and radiological conditions and develops Protective Action Recommendations to be provided to the State to assist with decision making for the protection of the health and safety of the public.

4.4 Public Information

The CECC ensures timely and accurate information is provided to the public. The CECC will coordinate efforts with offsite authorities.

4.5 Regulatory Interface

The NRC role in the CECC is to observe and advise as appropriate with licensee decisions and actions.

The CECC Director may request that the Federal Radiological Emergency Response Plan (FRERP) be activated via the NRC.

4.6 Termination of the Emergency

The CECC Director will inform each emergency center when the SED has terminated the emergency and planning for the recovery phase has begun.

Upon termination of the emergency, the CECC Director and staff will make themselves available to the TVA, NRC, and other official event reviewers for review of the accident.

- * Appropriate recovery efforts shall be initiated upon termination of the emergency. The Senior Vice President, Nuclear Operations, or his designee, will direct the overall recovery efforts for response to an emergency in accordance with the general guidelines provided in the REP and CECC-EPIP-16. As judgment and events determine, additional resources outside of TVA may be required to mitigate the consequences of an emergency.

5.0 REFERENCES

Radiological Emergency Plan (REP)

6.0 ABBREVIATIONS AND DEFINITIONS

ACC - Agency Control Center
AEMA - Alabama Emergency Management Agency
CECC - Central Emergency Control Center
EDO - Emergency Duty Officer
FCC - Field Coordination Center
FRERP - Federal Radiological Emergency Response Plan
*ITSC - Information Technology Service Center
JIC - Joint Information Center
NCO - Nuclear Central Office
NRC - Nuclear Regulatory Commission
ODS - Operations Duty Specialist
R/H - Radiological Health
RMCC - Radiological Monitoring Control Center
SRMAC - State Radiological Monitoring and Assessment Center
TEMA - Tennessee Emergency Management Agency
TSC - Technical Support Center

*Revision

APPENDIX A
(Page 1 of 1)
EMERGENCY DUTY OFFICER (EDO) AND EP STAFF CHECKLIST

	Check box when action complete	Action
1		Upon reporting to the CECC review with the ODS the status of the following items and ensure any required actions are performed: <input type="checkbox"/> State notification of the event <input type="checkbox"/> CECC staffing response <input type="checkbox"/> Security established for the CECC <input type="checkbox"/> Event forms copied <input type="checkbox"/> SED informed of State notification
2	<input type="checkbox"/>	Activate the CECC PA located in the room behind the ODS console.
3	<input type="checkbox"/>	Turn on the 8 video projectors.
4	<input type="checkbox"/>	Place proper EPZ maps on the walls.
5	<input type="checkbox"/>	Check the telephone recorder in the computer room and place new tapes in the recorder if necessary.
6	<input type="checkbox"/>	Call Facilities at 751-3775 or the TVA Operator to have light points E16018 & E16019 in the CECC turned on during non-business hours.
7	<input type="checkbox"/>	Establish contact with the CECC Director.

Completed by	Name:	Date:
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GENERAL OPERATIONS

1. Advises the CECC Director regarding all aspects of the REP and operation of the CECC. Confirms the CECC is set up and operating properly.
2. Assists the CECC Director in operating the CECC by evaluating, compiling, documenting, and posting data concerning the emergency situation.
3. Assists the CECC Director in ensuring that all required State notifications are made for emergency classifications and PARs.

APPENDIX B
(Page 1 of 2)

CECC DIRECTOR RESPONSIBILITIES FOR CECC ACTIVATION AND OPERATION
CECC ACTIVATION

	Check box when action complete	Action
1	<input type="checkbox"/>	Review initial conditions from Operation Duty Specialist (ODS) incident form. Initiating Event (NOUE, Alert, etc.) declared at: _____ Event based on EAL: _____
2	Record Time _____ _____ _____ _____	Assume responsibility for primary contact with the site and state and notify the following of this action <input type="checkbox"/> ODS <input type="checkbox"/> Site Emergency Director (SED) <input type="checkbox"/> State (Establish contact with the appropriate State Agency. SQN & WBN - TEMA; BFN - Alabama Radiation Control; See REND) <input type="checkbox"/> CECC Staff
3	<input type="checkbox"/>	Establish target time for CECC to be operational (not to exceed 1 hour from declaration of emergency.) Target Operational Time: _____
4	Record Time _____	When the following key positions are staffed, confer with them to obtain a history of the event, verify if there has been any release of radioactivity, and verify the current condition of the plant. <input type="checkbox"/> CECC Director <input type="checkbox"/> Plant Assessment Manager or Plant Assessment Coordinator or PAT Member <input type="checkbox"/> Rad Assessment Manager or Rad Assessment Coordinator <input type="checkbox"/> Dose Assessor
5	Record Time _____	When positions in Step 4 are staffed, inform the SED and announce to the CECC that you are assuming responsibilities for making PARs to the state.
6	Record Time _____	When the following positions are staffed, Declare the CECC operational (minimal staffing): <input type="checkbox"/> CECC Director <input type="checkbox"/> Plant Assessment Manager or Plant Assessment Coordinator or PAT Member <input type="checkbox"/> Rad Assessment Manager or Rad Assessment Coordinator <input type="checkbox"/> Dose Assessor <input type="checkbox"/> Public Information Manager or Information Supervisor <input type="checkbox"/> State Communicator And inform the following: <input type="checkbox"/> CECC Staff (PA Announcement) <input type="checkbox"/> SED <input type="checkbox"/> State

**APPENDIX B
(Page 2 of 2)**

CECC DIRECTOR RESPONSIBILITIES FOR CECC ACTIVATION AND OPERATION

7	<input type="checkbox"/>	If the Agency Command Center (ACC) is activated then assign an Assistant CECC Director (from the pool of Primary or Assistant CECC Directors) as the TVAN representative.
8	<input type="checkbox"/>	Notify the Senior Nuclear Executive and review event information.
9	<input type="checkbox"/>	Ensure the ODS has informed the Senior Management Executive of the CECC activation.
10	<input type="checkbox"/>	Conduct initial CECC briefing (see position notebook).
*11	<input type="checkbox"/>	When the event terminates refer to checklist (see EPIP-16)

Completed by	Name:	Date:
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GENERAL OPERATIONS

1. Log key events and major actions taken. Maintains accurate records of decisions made and actions started and completed.
2. Consult with SED on EALs, major site actions, and plant conditions.
3. Conduct briefings. The CECC Director should initially and periodically (approximately hourly) remind the CECC staff of the need for accuracy and consistency in the development and review of technical information, news releases, PARs, and State Update forms. The CECC staff should be reminded of the effect of various distractions (such as time restraints, noise, stress, and attention to competing tasks) can have on accuracy and efficiency. The Director should stress the need for the staff to manage distractions in a manner to prevent negative impacts on the accuracy of written, oral, and electronic communication from the CECC.
4. Coordinate with the JIC Spokesperson times of anticipated JIC briefings and provide status updates prior to the JIC briefings.
5. Ensures that Federal, State, and local agencies are notified in accordance with established procedures and that they are kept fully informed of all aspects of the emergency. Review anticipated state actions and discuss with State.
6. The CECC Director is authorized to request Federal assistance through the Federal Radiological Emergency Response Plan (FRERP) via the NRC.
7. Commits TVA resources and provides necessary information to assist the State, Federal, and local agencies to the extent possible.
8. Coordinates TVA's efforts with State and Federal agencies involved in the offsite aspects of the emergency.
9. Should operations be expected to last for an extended period, the CECC Director originates a schedule for relief. The duties of CECC staff should only pass to individuals identified as alternates for those positions. The Management Services Supervisor may be used to perform notifications of relief personnel.
10. When possible have CECC Staff monitor TSC briefings via telephone.

*Revision

APPENDIX C
(Page 1 of 1)
EMERGENCY CLASSIFICATION UPGRADE FORM

- *TO: ☐ Alabama: (Send to both Alabama locations listed below)
* Alabama Radiation Control Agency, Montgomery, AL
* Alabama Radiation Control Agency, Decatur, AL (Director & TVA Liaison)

* ☐ Tennessee: TEMA, Nashville, TN (SEOC Director, TVA Liaison & Radiological Health)

*1. ☐ NOUE ☐ ALERT ☐ SITE AREA EMERGENCY ☐ GENERAL EMERGENCY

*2. Affected Units: BFN U-2 ☐, U-3 ☐; SQN U-1 ☐, U-2 ☐; WBN U-1 ☐

*3. EAL Designator: _____

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

*5. Protective Action Recommendation

☐ None

☐ CECC Director's Protective Action Recommendation. (Attach EPIP-1, Appendix I)

*6. Call State and provide this information

	Name	Time State Notified	Date
CECC Director			

*7. Please repeat the information you have received to ensure accuracy.

*8. Fax this form to the State as soon as possible.

*Revision

APPENDIX D
(Page 1 of 1)
CECC DIRECTOR RESPONSIBILITIES FOR NOUE
WHEN CECC IS STAFFED

NOUE

	Check box when action complete	Action
1	Record Time <hr/>	Verify that the State or local emergency response agencies have been notified of the emergency classification. If not, provide verbal notification to the appropriate State Agency of any emergency classification within 15 minutes of its declaration by the SED. Fax Appendix C to the State as soon as possible.
2	<input type="checkbox"/>	Verify that the time of the State notification has been provided to the to the SED.
3	<input type="checkbox"/>	Approve State Update Form (as prepared by State Communicator).
4	<input type="checkbox"/>	Coordinate with Public Information concerning activities related to the event.
5	<input type="checkbox"/>	Establish staffing requirements for the CECC for response to the NOUE.
*6	<input type="checkbox"/>	Notify the Senior Nuclear Executive and review event information.
*7	<input type="checkbox"/>	Refer to termination and recovery checklists (see EPIP-16)

Completed by	Name:	Date:
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*Revision

APPENDIX E
(Page 1 of 1)

CECC DIRECTOR RESPONSIBILITIES FOR ALERT

ALERT

	Check box when action complete	Action
1	<input type="checkbox"/>	Record classification change information on Appendix C, Emergency Classification Upgrade Form if CECC is staffed when the event is declared.
2	Record Time _____	Provide verbal notification to the appropriate State Agency of any emergency classification upgrade within 15 minutes of its declaration by the SED Fax Appendix C to the State as soon as possible.
3	<input type="checkbox"/>	Conduct CECC briefing.
4	<input type="checkbox"/>	Notify the SED of the time that the State or local emergency response agencies was notified of the emergency classification upgrade.
5	<input type="checkbox"/>	Approve State Update Form (as prepared by State Communicator).
*6	<input type="checkbox"/>	Coordinate Public Information activities. If activation of JIC is required complete steps 8 and 9 below.
*7	<input type="checkbox"/>	Notify the Senior Nuclear Executive and review event information.
*8	<input type="checkbox"/>	Coordinate staffing of the JIC with Public Information and State per EPIP-14.
*9	<input type="checkbox"/>	*Identify TVAN spokesperson and place on standby for JIC activation. Use Appendix M * to document FFD.
*10	<input type="checkbox"/>	Approve any CECC News Releases.
*11	<input type="checkbox"/>	Evaluate assigning TVA Liaison to State EOC (Coordinate with EP Staff).
*12	<input type="checkbox"/>	Obtain Site Accountability status: *Provide the State Director with planned or actual time of accountability siren sounding. *Time Accountability initiated: _____ State Notified _____ *Time Accountability completed: _____ All personnel accounted for: <input type="checkbox"/> yes <input type="checkbox"/> no
13		*Provide the State Director with an estimated time for evacuation of non-essential site *personnel: *Time Evacuation initiated: _____ State Notified _____ *Time Evacuation completed: _____ State Notified _____
*14	<input type="checkbox"/>	Refer to termination and recovery checklists (see EPIP-16)

Completed by	Name:	Date:
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*Revision

APPENDIX F
(Page 1 of 1)
CECC DIRECTOR RESPONSIBILITIES
FOR SITE AREA EMERGENCY

SITE AREA
EMERGENCY

	Check box when action complete	Action
1	<input type="checkbox"/>	Record classification change information on Appendix C, Emergency Classification Upgrade Form if CECC is staffed when the event is declared.
2	Record Time _____	Provide verbal notification to the appropriate State Agency of any emergency classification upgrade within 15 minutes of its declaration by the SED Fax Appendix C to the State as soon as possible.
3	<input type="checkbox"/>	Notify the SED of the time that the State or local emergency response agencies was notified of the emergency classification upgrade.
4	<input type="checkbox"/>	Announce classification to the CECC and inform TVA Spokesperson (if JIC staffed).
*5	<input type="checkbox"/>	Notify the Senior Nuclear Executive and review event information.
*6	<input type="checkbox"/>	Coordinate staffing of the JIC with Public Information and State per EPIP-14.
*7	<input type="checkbox"/>	Assign TVA Liaison to State EOC (Coordinate with EP Staff).
*8	<input type="checkbox"/>	Periodically review PARs with Plant and Rad Assessment Teams in the event of upgrading to a General Emergency. Appendix H provides a logic diagram to assist in development of PARs.
*9	<input type="checkbox"/>	Approve any CECC news release.
*10	<input type="checkbox"/>	*Assign the RAM to coordinate any radiological protective support for any TVA *personnel responding to mitigate the event who must remain in the EPZ (beyond the *Site Boundary) after State ordered evacuations.
*11	<input type="checkbox"/>	*Assign TVAN spokesperson. Use Appendix M to document FFD. *
*12	<input type="checkbox"/>	Obtain Site Accountability status: *Provide the State Director with planned or actual time of accountability siren sounding. *Time Accountability initiated: _____ State Notified _____ *Time Accountability completed: _____ All personnel accounted for: <input type="checkbox"/> yes <input type="checkbox"/> no
*13		Provide the State Director with an estimated time for evacuation of non-essential site personnel: *Time Evacuation initiated: _____ State Notified _____ *Time Evacuation completed: _____ State Notified _____
*14	<input type="checkbox"/>	Refer to termination and recovery checklists (see EPIP-16)

Completed by	Name:	Date:
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*Revision

APPENDIX G
(Page 1 of 2)
CECC DIRECTOR RESPONSIBILITIES
FOR GENERAL EMERGENCY

GENERAL
EMERGENCY

	Check box when action complete	Action
1	<input type="checkbox"/>	Record classification change information on Appendix C, Emergency Classification Upgrade Form if CECC is staffed when the event is declared.
2	<input type="checkbox"/>	Review PARs with Plant and Rad Assessment teams and complete PAR Appendix I. (Appendix H provides a logic diagram to assist in development of PARs.)
3	Record Time _____	Provide verbal notification to the appropriate State Agency of the emergency classification upgrade and PAR within 15 minutes after its declaration by the SED. Fax Appendixes C and I (PAR) to the State as soon as possible.
4	<input type="checkbox"/>	Notify the SED of the time that the State or local emergency response agencies was notified of the emergency classification upgrade.
5	<input type="checkbox"/>	Announce classification to the CECC and inform TVA Spokesperson (when JIC staffed).
*6	<input type="checkbox"/>	*Assign the RAM to coordinate any radiological protective support for any TVA *personnel responding to mitigate the event who must remain in the EPZ (beyond the *Site Boundary) after State ordered evacuations.
*7	<input type="checkbox"/>	Approve any CECC news release.
*8	<input type="checkbox"/>	Notify the Senior Nuclear Executive and review event information.
*9	<input type="checkbox"/>	Coordinate staffing of the JIC with Public Information and State per EPIP-14.
*10	<input type="checkbox"/>	*Assign TVAN spokesperson. Use Appendix M to document FFD. *
*11		Coordinate with the JIC Spokesperson times of anticipated JIC briefings and provide status updates prior to the JIC briefings. Record time of updates in log.
*12	<input type="checkbox"/>	Assign TVA Liaison to State EOC (Coordinate with EP Staff). Use Appendix M to document FFD.
*13		Obtain Site Accountability status: *Provide the State Director with planned or actual time of accountability siren sounding. *Time Accountability initiated: _____ State Notified _____ *Time Accountability completed: _____ All personnel accounted for: <input type="checkbox"/> yes <input type="checkbox"/> no
*14		Provide the State Director with an estimated time for evacuation of non-essential site personnel: *Time Evacuation initiated: _____ State Notified _____ *Time Evacuation completed: _____ State Notified _____
*15	<input type="checkbox"/>	Refer to termination and recovery checklists (see EPIP-16)

Completed by	Name:	Date:
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*Revision

APPENDIX G
(Page 2 of 2)
CECC DIRECTOR RESPONSIBILITIES
FOR GENERAL EMERGENCY

PAR
CHANGE

IF PAR IS CHANGED

	Check box when action complete	Action
1	<input type="checkbox"/>	Review PARs with Plant and Rad Assessment teams and complete PAR Appendix I. (Appendix H provides a logic diagram to assist in development of PARs.)
2	Record Time _____	Provide verbal notification to the appropriate State Agency of PAR change within 15 minutes. Fax Appendix I to the State as soon as possible.
3	<input type="checkbox"/>	Confer with SED for site actions.
4	<input type="checkbox"/>	Approve any CECC news release.
*5	<input type="checkbox"/>	Assign the RAM to coordinate any radiological protective support for any TVA personnel responding to mitigate the event who must remain in the EPZ (beyond the site boundary) after State ordered evacuations.

Completed by	Name:	Date:
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*Revision

APPENDIX H
(Page 1 of 1)

PROTECTIVE ACTION RECOMMENDATIONS LOGIC DIAGRAM

Note 1: If conditions are unknown utilizing the flowchart, then answer NO.

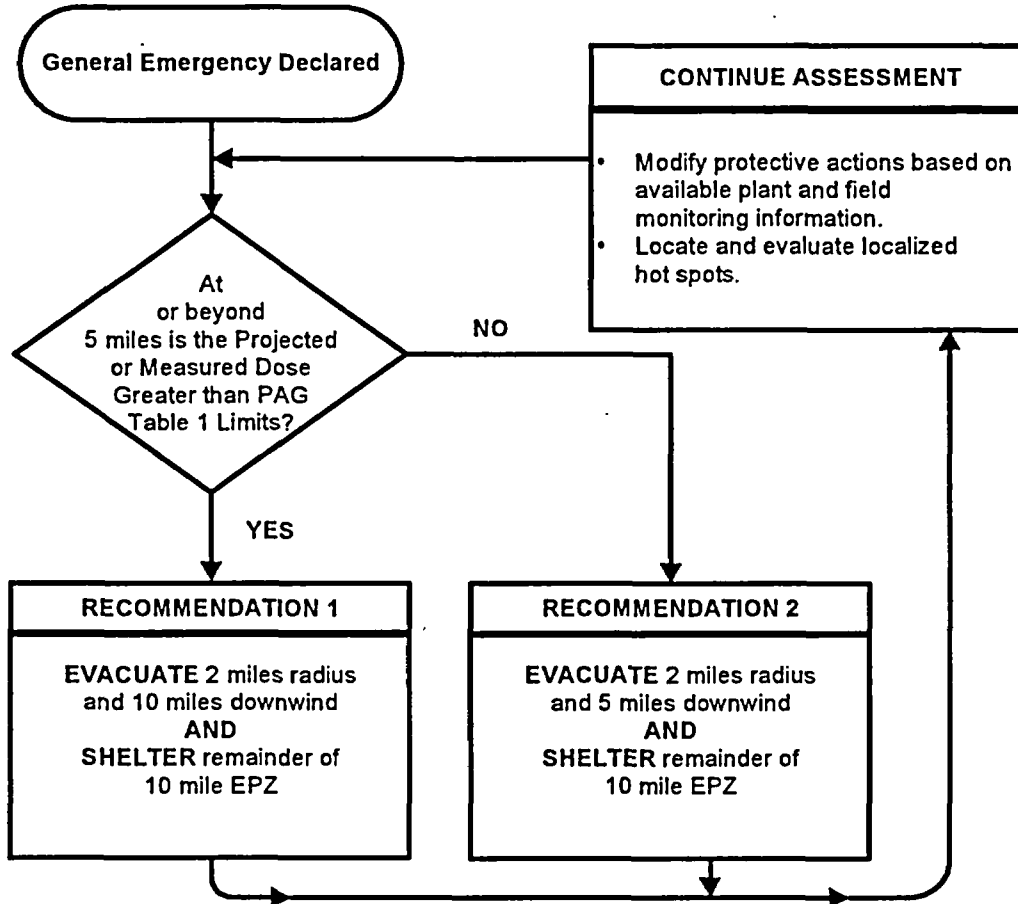


TABLE 1 Protective Action Guides (PAG)	
TYPE	LIMIT
Measured	3.9E-6 microCi/cc of Iodine 131 or 1 REM/hr External Dose
Projected	1 REM TEDE or 5 REM Thyroid CDE

APPENDIX I

Page (1 of 3)

CECC Director's Protective Action Recommendation

BROWNS
FERRY
SECTORS

- *TO: Alabama: (Send to both Alabama locations listed below)
* Alabama Radiation Control Agency, Montgomery, AL
* Alabama Radiation Control Agency, Decatur, AL (Director & TVA Liaison)

*Provide Protective Action Recommendation:

*[Check either Recommendation 1 or 2, AND appropriate wind direction row(s).]

<input type="checkbox"/> Recommendation 1	R E C 1 ↓	WIND FROM ° [Mark Proper Column *and *Row(s)]	R E C 2 ↓	<input type="checkbox"/> Recommendation 2
▶ EVACUATE LISTED SECTORS (2 mile Radius & 10 miles downwind) ▶ SHELTER all non-listed sectors. ▶ Consider issuance of POTASSIUM IODIDE in accordance with State Plan.				▶ EVACUATE LISTED SECTORS (2 mile radius & 5 mile downwind) ▶ SHELTER all other non-listed sectors. ▶ Consider issuance of POTASSIUM IODIDE in accordance with State Plan.
A-2, B-2, F-2, G-2 E-5, -10, F-5, -10, G-5, -10		4 - 40		A-2, B-2, F-2, G-2 E-5, F-5, G-5
A-2, B-2, F-2, G-2 F-5, -10, G-5, -10, H-10		41 - 73		A-2, B-2, F-2, G-2 F-5, G-5
A-2, B-2, F-2, G-2 G-5, -10, H-10, I-10		74 - 92		A-2, B-2, F-2, G-2 G-5
A-2, B-2, F-2, G-2 A-5, G-5, H-10, I-10, J-10, K-10		93 - 137		A-2, B-2, F-2, G-2 A-5, G-5
A-2, B-2, F-2, G-2 A-5, -10, I-10, J-10, K-10		138 - 203		A-2, B-2, F-2, G-2 A-5
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A-2, B-2, F-2, G-2 B-5, -10, C-10, D-10, E-5, -10		283 - 326		A-2, B-2, F-2, G-2 B-5, E-5
A-2, B-2, F-2, G-2 C-10, D-10, E-5, -10, F-5, -10		327 - 3		A-2, B-2, F-2, G-2 E-5, F-5

Other:

Approval	
Dose Assessor	
RAM	

CECC Director Approval		Time	Date
Notification of State			

*Revision

APPENDIX I
(Page 2 of 3)

CECC Director's Protective Action Recommendation

SEQUOYAH
SECTORS

*TO: Tennessee: TEMA, Nashville, TN (SEOC Director, TVA Liaison & Radiological Health)

*Provide Protective Action Recommendation:

*[Check either Recommendation 1 or 2, AND appropriate wind direction row(s).]

<input type="checkbox"/> Recommendation 1	R E C 1 ↓	WIND FROM ° [Mark Proper Column * and * Row(s)]	R E C 2 ↓	<input type="checkbox"/> Recommendation 2
▶ EVACUATE LISTED SECTORS (2 mile Radius and 10 miles downwind) ▶ SHELTER all other non-listed sectors. ▶ Consider issuance of POTASSIUM IODIDE in accordance with State Plan.				▶ EVACUATE LISTED SECTORS (2 mile radius and 5 mile downwind) ▶ SHELTER all other non-listed sectors. ▶ Consider issuance of POTASSIUM IODIDE in accordance with State Plan.
A-1, B-1, C-1, D-1 C-2, -6, -7, -8, D-2, -3, -5, -6		12 - 49		A-1, B-1, C-1, D-1, C-2, D-2
A-1, B-1, C-1, D-1 D-2, -3, -4, -5, -6		50 - 70		A-1, B-1, C-1, D-1 D-2
A-1, B-1, C-1, D-1 A-3, -4, D-2, -3, -4, -5		71 - 112		A-1, B-1, C-1, D-1 A-3, D-2
A-1, B-1, C-1, D-1 A-2, -3, -4, -5, -6, D-4		113 - 146		A-1, B-1, C-1, D-1 A-2, A-3
A-1, B-1, C-1, D-1 A-2, -3, -4, -5, -6, B-2		147 - 173		A-1, B-1, C-1, D-1, A-2, A-3, B-2
A-1, B-1, C-1, D-1 A-2, -5, -6, B-2, -3, -4		174 - 214		A-1, B-1, C-1, D-1 A-2, B-2
A-1, B-1, C-1, D-1 B-2, -3, -4, -5, -6, -7, -8		215 - 258		A-1, B-1, C-1, D-1 B-2, B-5
A-1, B-1, C-1, D-1 B-2, -3, -5, -6, -7, -8, C-2, -3, -4, -5, -6		259 - 331		A-1, B-1, C-1, D-1 B-2, B-5, C-2
A-1, B-1, C-1, D-1 B-5, C-2, -3, -4, -5, -6, -7, -8		332 - 11		A-1, B-1, C-1, D-1 B-5, C-2

Other:

Approval	
Dose Assessor	
RAM	

CECC Director Approval		Time	Date
Notification of State			

*Revision

APPENDIX I
(Page 3 of 3)

CECC Director's Protective Action Recommendation

WATTS
BAR
SECTORS

*TO: Tennessee: TEMA, Nashville, TN (SEOC Director, TVA Liaison & Radiological Health)

*Provide Protective Action Recommendation:

*[Check either Recommendation 1 or 2, AND appropriate wind direction row(s).]

<input type="checkbox"/> Recommendation 1	R E C	WIND FROM ° [Mark Proper Column *and *Row(s)]	R E C	<input type="checkbox"/> Recommendation 2
<ul style="list-style-type: none"> ▶ EVACUATE LISTED SECTORS (2 mile Radius and 10 miles downwind) ▶ SHELTER all other non-listed sectors. ▶ Consider issuance of POTASSIUM IODIDE in accordance with State Plan. 	1 ↓		2 ↓	<ul style="list-style-type: none"> ▶ EVACUATE LISTED SECTORS (2 mile radius and 5 mile downwind) ▶ SHELTER all other non-listed sectors. ▶ Consider issuance of POTASSIUM IODIDE in accordance with State Plan.
A-1, B-1, C-1, D-1 C-7, -9, D-2, -4, -5, -6, -7, -8, -9		26-68		A-1, B-1, C-1, D-1 C-7, D-2, -4, -5
A-1, B-1, C-1, D-1 A-3, -4, D-2, -3, -4, -5, -6, -7, -8, -9		69-110		A-1, B-1, C-1, D-1 A-3, D-2, -4, -5
A-1, B-1, C-1, D-1 A-2, -3, -4, -5, -6, -7, D-2, -3, -5, -6		111-170		A-1, B-1, C-1, D-1 A-2, -3, D-2, -5
A-1, B-1, C-1, D-1 A-2, -3, -5, -6, -7, B-2, -3, -4, -5, C-2		171-230		A-1, B-1, C-1, D-1 A-2, -3, B-2, -4, C-2
*A-1, B-1, C-1, D-1 B-2, -3, -4, -5, C-2, -3		231-270		*A-1, B-1, C-1, D-1 B-2, -4, C-2
*A-1, B-1, C-1, D-1 B-2, -3, C-2, -3, -4, -5, -6, -11		271-325		A-1, B-1, C-1, D-1 B-2, C-2, -4, -5
A-1, B-1, C-1, D-1 C-2, -4, -5, -6, -7, -8, -9, -10, -11, D-4, -9		326-25		*A-1, B-1, C-1, D-1 C-2, -4, -5, -7, -8, D-4

Other:

	Approval
Dose Assessor	
RAM	

	CECC Director Approval	Time	Date
Notification of State			

*Revision

APPENDIX J
(Page 1 of 4)
STATE COMMUNICATOR CHECKLIST

CECC ACTIVATION

	Check box when action complete	Action
1	<input type="checkbox"/>	Verify with the CECC Director that initial communication has been established with the appropriate State Agency (SQN & WBN - TEMA; BFN - Alabama Radiation Control, see REND).
2	<input type="checkbox"/>	If the decision is made to activate the TEMA Forward Control Center/Radiological Monitoring Control Center (FCC/RMCC) or Alabama State Radiological Monitoring and Assessment Center (SRMAC) the CECC State Communicator will activate suspended rate telephones in accordance with Appendix N.
3	<input type="checkbox"/>	*When CECC becomes operational Coordinate with the Switchboard Operator the *completion of the staffing report and send to State.
4	<input type="checkbox"/>	Initiate first State Update Form.
5	<input type="checkbox"/>	Coordinate with the CECC Director to identify the TVA Liaison to the State.

Completed by	Name:	Date:
-----------------	-------	-------

NOUE

UNUSUAL EVENT

	Check box when action complete	Action
1	<input type="checkbox"/>	*Verify that the State was/is notified by the ODS or CECC Director within 15 minutes of *the classification declaration.
2	<input type="checkbox"/>	Refer to duties under "General Operations" (page 4 of 4).

Completed by	Name:	Date:
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* Revision

APPENDIX J
(Page 2 of 4)
STATE COMMUNICATOR CHECKLIST

ALERT

ALERT

	Check box when action complete	Action
*1	<input type="checkbox"/>	*Verify that the ODS or CECC Director has notified the State within 15 minutes of the classification declaration.
*2	<input type="checkbox"/>	*Verify Appendix C (Classification Upgrade Form) has been completed by CECC *Director and has been faxed to the State.
*3	<input type="checkbox"/>	Notify the TVA Liaison of the change in classification and conditions (if staffed).
4	<input type="checkbox"/>	Refer to duties under "General Operations" (page 4 of 4).

Completed by	Name:	Date:
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SITE
AREA
EMERGENCY

SITE AREA EMERGENCY

	Check box when action complete	Action
*1	<input type="checkbox"/>	Verify that the CECC Director has notified the State within 15 minutes of the classification declaration.
*2	<input type="checkbox"/>	*Verify Appendix C (Classification Upgrade Form) has been completed by CECC *Director and has been faxed to the State.
*3	<input type="checkbox"/>	Notify the TVA Liaison of the change in classification and conditions (if staffed).
4	<input type="checkbox"/>	Refer to duties under "General Operations" (page 4 of 4).

Completed by	Name:	Date:
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*Revision

APPENDIX J
(Page 3 of 4)
STATE COMMUNICATOR CHECKLIST

GENERAL
EMERGENCY

GENERAL EMERGENCY

	Check box when action complete	Action
*1	<input type="checkbox"/>	Verify that the CECC Director has notified the State within 15 minutes of the classification declaration.
*2	<input type="checkbox"/>	*Verify Appendix C (Classification Upgrade Form) and Appendix I (Protective Action *Recommendation Form) have been completed by CECC Director and have been faxed *to the State.
*3	<input type="checkbox"/>	Notify the TVA Liaison of the change in classification and conditions (if staffed).
4	<input type="checkbox"/>	Refer to duties under "General Operations" (page 4 of 4).

Completed by	Name:	Date:
--------------	-------	-------

UPDATED
PAR

UPDATED PAR

	Check box when action complete	Action
*1	<input type="checkbox"/>	Verify that the CECC Director has notified the State within 15 minutes of the updated PAR.
*2	<input type="checkbox"/>	*Verify Appendix I (Protective Action Recommendation form) has been completed by *CECC Director and has been faxed to the State.
3	<input type="checkbox"/>	Notify the TVA Liaison of the change in conditions (if staffed).
*4	<input type="checkbox"/>	*Confirm that CECC status boards accurately display State Protective Actions. *Coordinate with the Rad Boardwriter.

Completed by	Name:	Date:
--------------	-------	-------

*Revision

APPENDIX J
(Page 4 of 4)
STATE COMMUNICATOR CHECKLIST

GENERAL OPERATIONS

- *1. Complete page 1 of CECC-EPIP-1, Appendix K (State Update Form) and send to State at least hourly. Note in position log.
- *
 - Lines 1 through 2 can be obtained from the ODS forms for emergencies declared prior to CECC activation or from Appendix C of this EPIP for emergencies declared after the CECC is activated.
 - Line 3 can be obtained from the RAM. Confirm if a puff release has occurred. Confirm that Dose Assessment is sending (via computer or telecopy) information on pages 2 and/or 3 (if liquid release is occurring) of Appendix K to their State counterparts at least hourly and note in position log.
 - Lines 4 and 5 can be obtained from the CECC Director.
 - Line 6 can be obtained from the Plant Assessment Manager.

Note: Numbering on Appendix K pages 2 and 3 corresponds to numbering on Dose Code printout so numbering on these pages is not sequential from page 1.

- *2. Acts as contact for the State to clarify any discrepancies between information supplied from the CECC and any other TVA or non-TVA organization as they pertain to TVA-related activities.
- *3. Responsible for ensuring pertinent information related to emergency classifications, PARs, plant status, onsite responses, and TVA's dose/environs assessment activities are being provided to the State.
- *4. Assists the State as requested in providing TVA resource assistance to the State.
- *5. Assists the State Liaison (State government representative) as necessary to keep him briefed on the plan situation and coordinating responses to State inquiries, etc.
- *6. Maintain an awareness of key State activities and provide report in CECC briefings (until arrival of State Liaison to the CECC).

*Revision

APPENDIX K
(Page 1 of 3)
STATE UPDATE FORM

Message
Number

- *TO: ☐ Alabama: (Send to both locations listed below)
 * Alabama Radiation Control Agency, Montgomery, AL
 * Alabama Radiation Control Agency, Decatur, AL (Copies to Director & TVA Liaison)
 * ☐ Tennessee:
 * TEMA, Nashville, TN (Copies to SEOC Director, TVA Liaison & Radiological Health)

FROM: CECC State Communicator at (423) 751-1613

*1. Affected Units:

BFN U-2 ☐, U-3 ☐; SQN U-1 ☐, U-2 ☐; WBN U-1 ☐

*2. Emergency Classification:

- * ☐ NOUE ☐ Alert ☐ Site Area Emergency ☐ General Emergency

*3. Radiological Release: ☐ No Abnormal ☐ Actual or Anticipated

***Note: If a puff release has occurred then mark the Actual or Anticipated box.**

* As appropriate, to be provided at least hourly (normally generated and transmitted by computer)

Estimated duration or Impact Times	<input type="checkbox"/> Airborne *(see p. 2 of 3)	<input type="checkbox"/> Waterborne *(see p. 3 of 3)
---------------------------------------	---	---

* Estimate of surface spill contamination: _____

*4. Emergency Actions underway at plant site:

- ☐ Site Accountability:
☐ Non-essential personnel released from site:
☐ Other: _____

*5. Requested onsite support from State/local organizations: _____

*6. Prognosis of Plant conditions: ☐ Stable ☐ Improving ☐ Deteriorating

Approval	Name	Time	Date
CECC Director			

*Revision

APPENDIX K
(Page 2 of 3)
STATE UPDATE FORM

PROJECTED AIRBORNE RELEASES
RADIOLOGICAL DOSE ASSESSMENT - PERIODIC STATE INFORMATION

Time: _____ (local)

15. The release being assessed began/begins at _____ local time and is estimated to continue for _____ hr.

16. Release Rate: Noble Gas _____ $\mu\text{Ci/s}$
Iodine-131 _____ $\mu\text{Ci/s}$
Particulates _____ $\mu\text{Ci/s}$
Gross Activity _____ $\mu\text{Ci/s}$

17. Release Path: _____ Effective Release Height _____ m
(0 meters = ground level)

18. Meteorological Conditions: Wind Speed: _____ meters/sec
_____ miles/hr

Wind Direction
(From) _____ (degrees/sector)

Stability Class _____
Precipitation _____ mm
Affected Sector _____ degrees/sector

19. Projected Doses (rem) (Does not include previously received dose)

<u>Distance</u>	<u>TEDE</u>	<u>Thyroid CDE</u>	<u>Cow Milk</u>
0.62 mi	_____	_____	_____
2 mi	_____	_____	_____
5 mi	_____	_____	_____
10 mi	_____	_____	_____

20. Comments

APPENDIX K
(Page 3 of 3)
STATE UPDATE FORMACTUAL/PROJECTED LIQUID RELEASES
RADIOLOGICAL DOSE ASSESSMENT - PERIODIC STATE INFORMATION

21. Time: _____ (local)
22. The release being assessed began/begins at _____ local time and is estimated to continue for _____ hr.
23. Release: Nuclide Concentration
- | | |
|-------|-------------------------|
| _____ | _____ $\mu\text{Ci/mL}$ |
| _____ | _____ $\mu\text{Ci/mL}$ |
| _____ | _____ $\mu\text{Ci/mL}$ |
| _____ | _____ $\mu\text{Ci/mL}$ |
| _____ | _____ $\mu\text{Ci/mL}$ |
24. Release Point: ☐ Shoreline ☐ Diffuser
25. Total Release Volume: _____ ft^3 (1 gallon = 0.134 ft^3)
26. RIVER FLOW at the plant _____ ft^3/s
27. DOWNSTREAM MAXIMUM ORGAN DOSE RATE TO HYPOTHETICAL INDIVIDUAL ON THE SHORELINE DUE TO DRINKING THE WATER

LOCATION (TRM)	ARRIVAL TIME (DAY)	CONCENTRATION (microCi/mL)		DOSE RATE (D) (rem/d)	
		Plant Side	Opposite Side	Plant Side	Opposite Side

28. COMMENTS: _____
- _____
- _____

APPENDIX L
(Page 1 of 1)
MANAGEMENT SERVICES SUPERVISOR CHECKLIST

	Check box when action complete	Action
1	<input type="checkbox"/>	Contact clerical personnel to staff CECC positions as listed in the Management Services Supervisor position notebook. Use Appendix M to document FFD.
*2	<input type="checkbox"/>	Set emergency classification and site inputs on electronic clocks (see workbook for details).
*3	<input type="checkbox"/>	If RMCC is being staffed contact clerical support for that location. Use Appendix M to document FFD. List positions.
*4	<input type="checkbox"/>	If JIC is being staffed contact clerical support for that location. Use Appendix M to document FFD. List positions.
5	<input type="checkbox"/>	Brief clerical staff on roles and responsibilities.

Completed by	Name:	Date:
-----------------	-------	-------

GENERAL OPERATIONS

1. Monitor and allocate CECC clerical personnel where needed (avoid fax backlogs, etc.).
2. Obtains needed documents and drawings from DCRM.
3. Updates Emergency Classification on electronic clocks.
- *4. Coordinates meals and lodging (Coordinate with EP Staff).
5. Maintains position log.
- *6. Schedules relief for clerical positions and may also assist with other CECC position relief shift staffing notifications.

*Revision

[illegible]

APPENDIX N
(Page 1 of 5)

**ACTIVATION AND DEACTIVATION OF SUSPENDED RATE TELEPHONE LINES
IN TVA AND STATE EMERGENCY FACILITIES**

Date: _____

TIME/INITIAL

Activation

* _____ / _____

Notify TVA Information Technology Service Center (ITSC) at (423) 751-4357 and request suspended rate lines in the facilities identified for activation be removed from suspended rate status. Refer to attachment for identified facility to be activated and request ITSC implement their procedure to activate suspended rate telephone lines.

Browns Ferry JIC - Refer to Section 1.0 of this Appendix.

Browns Ferry SRMAC/AEMA Liaison - Refer to Section 2.0 of this Appendix.

Sequoyah/Watts Bar JIC - Refer to Section 3.0 of this Appendix.

Sequoyah FCC/RMCC - Refer to Section 4.0 of this Appendix.

Follow instructions in the applicable attachment to return lines to suspended rate status.

_____ / _____

TVA ITSC confirmed action has been completed to remove lines from suspended rate status.

Deactivation

* _____ / _____

ITSC and Telecommunications Support Services contacted at (423) 751-4606 to request the telephone lines be placed back in suspended rate status.

_____ / _____

Notify Manager, Emergency Preparedness, State and Local Programs to follow up on request to return lines to suspended rate status.

*Revision

**APPENDIX N
(Page 2 of 5)**

1.0 ACTIVATION/DEACTIVATION REQUIREMENTS FOR BROWNS FERRY JIC

- a. All telephones in the assigned rooms of the Fine Arts Building of John C. Calhoun State Community College must be removed from suspended rate status when the decision is made to staff the JIC.
- b. To activate the telephone lines on suspended rates, the EDO/State Communicator will contact the TVA Information Technology Service Center (ITSC) at (751-4357) and request the following lines be activated by using the lead telephone numbers to activate the blocks of lines.

BFN LEAD TELEPHONE NUMBERS (EARNING NUMBERS): 256-340-0092 & 256-355-4823

After the above is requested, the following lines will be activated:

LEAD NUMBER FOR THE SEVEN AREAS OF JIC IMMEDIATELY FOLLOWING: 256-340-0092.
This lead number activates these 54 phones.

*	TVA Staff Room (23 phones)	256-350-0092	256-350-5942	256-355-7643	256-355-2783
		256-350-5943	256-355-2782	256-350-5956	256-350-5957
		256-355-8073	256-340-0096	256-350-5953	256-355-8041
		256-355-8055	256-350-6089	256-350-5952	256-350-3895
*		256-353-8347	256-340-0093	256-340-0094	256-560-0188
*		256-560-0191	256-560-0194	256-560-0196	
	NRC/FEMA Staff Room (4 phones)	256-355-8002 256-350-3893	256-353-1033 256-353-1049		
	AEMA Workroom (21 phones)	256-355-8036 256-350-6128 256-355-0705 256-350-6127 256-350-6123 256-350-5951	256-350-5958 256-350-6129 256-353-6124 256-350-6120 256-350-6121	256-355-0730 256-355-0713 256-353-1059 256-350-6125 256-350-5944	256-355-8012 256-355-0714 256-350-6126 256-350-6122 256-350-3894
	Media Monitoring Broadcast Space (3 phones)	256-355-7644	256-350-6481	256-355-8043 (Trouble Shooting)	
	Media Work Space First Floor (5 phones)	256-355-4858 256-355-7915	256-355-7916	256-355-4824	256-355-4828
	JIC Security (1 phone)	256-350-5941			
	Update Desk (1 phone)	256-355-2712			

LEAD NUMBER FOR THE AREA OF JIC IMMEDIATELY FOLLOWING: 256-355-4823.
This lead number activates these 15 phones.

Media Work Space	256-355-4823	256-355-4829	256-355-4941	256-355-4942
	256-355-4943	256-355-4944	256-355-4951	256-355-4952
	256-355-4953	256-355-4954	256-355-4998	256-355-7701
	256-355-7702	256-355-7913	256-355-7914	

*Revision

APPENDIX N
(Page 3 of 5)

- c. The ITSC will contact the EDO/State Communicator and confirm action has been completed to remove lines from suspended rate status.
- d. When the JIC is deactivated, the EDO/State Communicator will contact ITSC and Telecommunications Support Services at 751-2228 and request the above listed numbers be placed back in suspended rate status. The EDO/State Communicator will then request that the Manager, Emergency Preparedness, State and Local Programs follow up this request within 5 days and confirm this action has been completed.

2.0

**ACTIVATION/DEACTIVATION REQUIREMENTS FOR STATE SRMAC FOR
BROWNS FERRY**

- a. There are a limited number of suspended rate telephone lines in the State RMCC for Browns Ferry. These lines are located in the basement of the SRMAC/FCC portion of the Morgan County Emergency Operations Center in the basement of the Morgan County Courthouse. These lines must be removed from suspended rate status when the Director of the State Radiation Control Agency determines the RMCC is to be staffed in order to direct the activities of the field monitoring teams.
- b. To activate the telephone lines on suspended rates, the EDO/State Communicator will contact the TVA Information Technology Service Center (ITSC) at 751-4357 and request the following lines be activated using the lead telephone number.

LEAD TELEPHONE NUMBER (EARNING NUMBER): 256-350-9362

After the above is requested, the following lines will be activated:

Rm. B-31 256-350-9362

Rm. B-33 256-355-9520 256-355-9076 256-350-6580 256-351-6024
 256-355-9158 256-351-0441 256-301-8931

- c. The ITSC Center will contact the EDO/State Communicator and confirm action has been completed to remove lines from suspended rate status.
- d. When the SRMAC is deactivated, the EDO/State Communicator will contact ITSC and Telecommunications Support Services at 751-4606 and request the above listed numbers be placed back in suspended rate status. The EDO/State Communicator will then request that the Manager, Emergency Preparedness, State and Local Programs follow up this request within 5 days and confirm this action has been completed.

* Revision

APPENDIX N
(Page 4 of 5)

3.0 ACTIVATION/DEACTIVATION REQUIREMENTS FOR SEQUOYAH/WATTS BAR JIC

- a. There are 20 telephone lines in the Sequoyah/Watts Bar JIC that are on suspended rate status. These lines are assigned to the Media Work area which is located in the hallway outside of the basement auditorium in Missionary Ridge Place in the Chattanooga Office Complex. These lines must be removed from suspended rate status when the decision is made to staff the JIC.
- b. To activate telephone lines on suspended rates, the EDO/State Communicator will contact the
* TVA Information Technology Service Center (ITSC) at 751-4357 and request the following lines be activated using the lead telephone numbers.

LEAD TELEPHONE NUMBERS (EARNING NUMBERS): 423-265-0300 & 423-265-0333

After the above is requested the following lines will be activated:

Media Work Area:	423-265-0300	423-265-0312	423-265-0314	423-265-0319
Lead Number	423-265-0325			
(Basic 5)				

Lead Number	423-265-0333	423-265-0336	423-265-0345	423-265-0350
(Additional 15)	423-265-0370	423-265-0400	423-265-0401	423-265-0418
	423-265-0611	423-265-0613	423-265-0642	423-265-0645
	423-265-0650	423-265-0652	423-265-0655	

- c. The ITSC will contact the EDO/State Communicator and confirm action has been completed to remove lines from suspended rate status.
- d. When the JIC is deactivated, the EDO/State Communicator will contact the ITSC and
* Telecommunications Support Services at 751-4606 and request the above listed numbers be placed back in suspended rate status. The EDO/State Communicator will then request that the Manager, Emergency Preparedness, State and Local Programs follow up this request within 5 days and confirm this action has been completed.

* Revision

APPENDIX N
(Page 5 of 5)

***4.0 ACTIVATION/DEACTIVATION REQUIREMENTS FOR STATE FCC/RMCC FOR SEQUOYAH**

- a. All telephone lines in the State FCC/RMCC located in the Air National Guard Armory at Lovell Field in Chattanooga must be removed from suspended rate status when the Tennessee Emergency Management Agency makes the decision to staff that facility.
- b. To activate the telephone lines on suspended rates, the EDO/State Communicator will contact the Information Technology Service Center (ITSC) at 751-4357 and request the following lines be activated using the lead telephone numbers to activate the blocks of lines.

LEAD TELEPHONE NUMBER (EARNING NUMBER): 423-899-9858

After the above is requested, the following lines will be activated:

RMCC (5 lines)	423-899-9858	423-894-6843	423-855-0190	423-899-7086	423-855-3765
FCC (21 lines)	423-899-9433	423-894-6799	423-899-6795	423-899-9374	
	423-899-9623	423-899-9621	423-899-9023	423-899-9129	
	423-899-0826	423-899-9709	423-899-9389	423-899-9279	
	423-899-6595	423-899-9599	423-899-9071	423-899-9771	
	423-899-6980	423-899-6982	423-899-9025	423-899-9597	
	423-855-3768				

- c. The ITSC will contact the EDO/State Communicator and confirm that action has been completed to remove the lines from suspended rate status.
- d. When the FCC/RMCC is deactivated, the EDO/State Communicator will contact the ITSC and Telecommunications Support Services at 751-4606 and request the above listed numbers be placed back in suspended rate status. The EDO/State Communicator will then request that the Manager, Emergency Preparedness, State and Local Programs follow up this request within 5 days and confirm this action has been completed.

*Revision

APPROVED BY: C. E. Mullins VP Eng & Tech Svcs
Signature Title Organization 10/27/03
Date

CECC-EPIP-16

TERMINATION AND RECOVERY

REVISION LOG

<u>Rev. No.</u>	<u>Date</u>	<u>Revised Pages</u>
<u>0</u>	<u>10/28/03</u>	<u>Change from CECC-EPIP-13 to CECC-EPIP-16 for consistency between sites procedures.</u>

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1.0 PURPOSE

This procedure provides guidance on termination and recovery from an incident for which onsite and offsite emergency centers were activated by the Site Emergency Director and transition from the Emergency Response Organization to the Recovery organization if necessary.

Termination begins when personnel responsible for the response effort determine that conditions are sufficiently stabilized to begin comparing them to pre-established decisional criteria. The termination decision and subsequent notification that an event no longer constitutes an Operational Emergency establishes the beginning of recovery.

Recovery is defined as those actions taken, after a plant has been brought to a stable or shutdown condition, to return the plant to normal operation. Recovery will begin when the emergency response is declared terminated. The level of recovery operations depends on the severity of the event. The recovery phase may be implemented in a graded approach from one of no recovery actions necessary to a fully implemented course of actions. When implemented, the recovery phase continues until the plant and any affected areas meet predetermined criteria for the resumption of normal operation or use.

Types of activities conducted during the recovery phase may include (but are not limited to):

- Damage assessment
- Environmental consequence assessment
- Long-term protective action determinations
- Plant and/or environmental restoration
- Dissemination of information

2.0 SCOPE

This procedure applies to the termination of a REP event which required activation of onsite and offsite emergency centers and actions for reentry and recovery activities required to restore the plant to normal operating condition and to provide assistance to state and local organizations.

3.0 RESPONSIBILITIES

- 3.1** The Senior Vice President, Nuclear Operations, or his designee will direct the overall recovery effort. If expected to be a long-term process, he may establish a recovery organization to be responsible for continuous direction and control of the recovery operation. This organizational structure would be contingent upon the emergency situation and required actions for recovery. Staffing of the CECC may remain in whole or in part as necessary. The LRC is also available to provide additional office space near the site to support the recovery operation.
- 3.2** The CECC Director is responsible for coordinating with the Site Emergency Director, NRC, and appropriate offsite agencies in determining when to enter the recovery phase. Once that decision has been made, the CECC Director will notify the Senior Vice President, Nuclear Operations, or his designee.

If the event was associated with an emergency off-site either natural or manmade which impacted the off-site (State and local) emergency response, the NRC regional administrator will inform the affected license when the condition of the off-site emergency preparedness infrastructure can support a safe reactor restart. NRC Administrative Letter 97-03 which provides information for plant restart discussions following natural disasters is provided as Appendix C.

- 3.3 The CECC Public Information Manager (PIM) acts as an interface between TVA and the news media. The PIM assists the Senior Vice President, Nuclear Operations, CECC Director, or their designees with:
- drafting news releases concerning progress of the recovery operation
 - coordinating all news releases with TVA management and State and Federal officials as required.
 - coordinating all press briefings and interviews concerning the incident.
- 3.4 Radiological Assessment Manager (RAM) provides radiological support as necessary.
- 3.5 The Vice President, Engineering and Technical Services, will provide required technical support to the site.
- 3.6 The Manager, Nuclear Fuels, will provide needed technical services to the site. Technical services available include fuel management and core analysis, core performance, nuclear fuel control and accountability, and startup support.

4.0 PROCEDURES

4.1 Termination

The decision to terminate an incident for which onsite and offsite emergency centers have been activated will be made by the Site Emergency Director after consultation with the plant technical and operations staffs and coordinated with the CECC Director. Proposals for termination of an emergency and entry into recovery will be coordinated with the State and NRC, if appropriate, through the CECC. Termination decisions should be based on site-specific EPIP-16 criteria and broad-based parameters such as:

Radiation or hazardous material exposure levels within the affected plant or area(s) are stable or decreasing with time.

The affected plant is in a stable condition, and there is a high probability that it can be maintained in that condition.

Releases of hazardous material to the environment have ceased or are controlled within permissible regulatory limits, and the potential for an uncontrolled release is low.

All emergency notifications have been completed.

The Site Emergency Director and CECC Director in consultation with the NRC and appropriate offsite agencies do not identify a valid reason to continue operating in the emergency response mode.

Initial recovery activities have been clearly identified and prioritized.

When applicable, a recovery staffing plan has been developed, approved and can be implemented.

4.2 Recovery Operations

Recovery planning and implementation will start with assessment of plant, site, and environmental conditions. There are three general areas of recovery operations: accident assessment and investigation, recovery planning and scheduling, and repair and restoration.

4.2.1 Accident Assessment and Investigation

The following type of activities should be considered for accident assessment and investigation:

- Plant management in coordination with TVAN Corporate management, should establish an investigation board to determine the root cause of the event and prepare a formal accident report.
- All documents generated during the emergency response and useful to the accident investigation should be collected and organized.
- Plant technical, operations, and maintenance staffs should assess the condition of the plant including structural integrity, equipment status, hazardous material containment/confinement barriers, and safety systems.
- Provide support, when requested, to federal, state, and local government agencies for assistance with offsite dose assessment and related activities.

4.2.2 Recovery Planning and Scheduling

The following type of activities should be considered for recovery planning and scheduling:

- Notification to persons and agencies involved in the emergency response of the establishment of the Recovery Organization and the name of the person in charge.
- Evaluation of emergency plans to determine if adequate emergency preparedness status can be maintained during degraded plant conditions (e.g., inaccessibility of assembly areas, inoperative emergency/safety instrumentation and equipment, etc.)
- Establishment of specific criteria to be met prior to the resumption of normal operations or facility use.
- Contact with the affected State to coordinate any support required for assessment and recovery of affected offsite areas.
- Preparation of plans for the establishment of safe long-term conditions when the assessment indicates that a plant or affected area cannot be safely returned to normal operation or use.

- Identification of required repair and restoration work based on the assessment results.
- Plan for the proper handling and disposal of all hazardous waste generated during recovery activities.
- Establishment of a tracking organization to monitor all assigned tasks, including developing work packages, scheduling activities, and estimating costs.
- Formation of a procedures review group to determine if specialized procedures are required and should be developed and to review and approve all special procedures.
- Continued evaluation of site or facility hazards and contamination levels during estimating exposure to workers.

4.2.3 Repair and Restoration Activities

The following type of activities should be considered for repair and restoration activities:

- Ensure that occupation exposure limits are followed in accordance with SPP-5.1, *Radiological Controls*.
- Ensure that any discharges from recovery activities are controlled within regulatory and environmental compliance limits. If discharges are necessary beyond these limits, ensure all documentation is prepared, approvals obtained, and notifications made.
- Conduct recovery activities through normal work organizations, practices, limitations, and procedures to the extent practical.
- Replenish, repair, or replace any emergency equipment or consumable materials used during the emergency response.
- Train applicable personnel on changes that occurred as a result of repair, restoration, and accident investigation.

5.0 LOCAL RECOVERY CENTER (LRC)

- 5.1 The purpose of the LRC is to provide a nearsite facility for TVA recovery management as well as NRC emergency response personnel and other emergency and/or recovery personnel.
- 5.2 The LRC provides adequate space for TVA and others who may locate there to support the site should additional office space near the site become necessary during the recovery phase.
- 5.3 The LRC will provide space for NRC personnel. Adequate supplies, communications, and data necessary for them to carry out appropriate functions is available.

6.0 ENVIRONMENTAL SAMPLE COLLECTION AND ANALYSIS

- 6.1 The TVA emergency field monitoring vans will be used to collect appropriate samples. This sample collection will be coordinated with the State. Samples will be divided and delivered to the State and the appropriate TVA laboratory.
- 6.2 Western Area Radiological Laboratory (WARL) will perform (or coordinate performance by approved testing facilities) environmental sample analysis. Information concerning the samples will be provided to the State and the RAM.

7.0 REFERENCES

NP Radiological Emergency Plan
NRC Administrative Letter 97-03
CECC EPIP

8.0 ABBREVIATIONS

WARL - Western Area Radiological Laboratory.
NP - Nuclear Power.
LRC - Local Recovery Center.
CECC - Central Emergency Control Center.
SED - Site Emergency Director.

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CECC DIRECTOR'S TERMINATION CHECKLIST

	Check box when action complete	Action	Concurrence
1	<input type="checkbox"/>	<ul style="list-style-type: none">Radiation or hazardous material exposure levels within the affect plant or area(s) are stable or decreasing with time. <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>	PAM: RAM: CECC Dir.: Date: Time:
2	<input type="checkbox"/>	<ul style="list-style-type: none">The affected plant is in a stable condition, and is there a high probability that it can be maintained in that condition (site-specific EPIP-16 criteria verified by CECC Plant Assessment and Radiological Assessment staffs). <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>	PAM: RAM: CECC Dir.: Date: Time:
3	<input type="checkbox"/>	<ul style="list-style-type: none">Releases of hazardous material to the environment have ceased or are controlled within permissible regulatory limits, and the potential for an uncontrolled is release low. <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>	PAM: RAM: CECC Dir.: Date: Time:
4		<ul style="list-style-type: none">All emergency notifications have been completed. <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>	CECC Dir.: Date: Time:
5		<ul style="list-style-type: none">The Site Emergency Director and CECC Director, in consultation with the NRC and appropriate offsite agencies agree that no valid reason exists to continue operating in the emergency response mode. <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>	CECC Dir.: Date: Time:

APPENDIX A Page 2 of 3
CECC DIRECTOR'S TERMINATION CHECKLIST

	Check box when action complete	Action	Concurrence
6	<input type="checkbox"/>	<ul style="list-style-type: none"> Document event termination on CECC EPIP-13, Appendix A, page 3 of 3 and make appropriate notifications to the affected state. <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>	CECC Dir.: Date: Time:
7	<input type="checkbox"/>	<ul style="list-style-type: none"> The Senior Vice President, Nuclear Operations has been notified of event termination. <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Stop here if no recovery actions are necessary. If recovery operations are necessary, continue with Steps 9 & 10 and continue to CECC EPIP-13, Appendix B.</p>	CECC Dir.: Date: Time:
9	<input type="checkbox"/>	<ul style="list-style-type: none"> If applicable, Initial recovery activities have been clearly identified and prioritized. <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>	PAM: RAM: CECC Dir.: Date: Time:
10	<input type="checkbox"/>	<ul style="list-style-type: none"> If applicable, a recovery staffing plan has been developed, approved, and can be implemented. <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>	PAM: RAM: CECC Dir.: Date: Time:

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CECC DIRECTOR'S TERMINATION CHECKLIST

EVENT TERMINATION:

The: ☐ NOUE ☐ ALERT ☐ SITE AREA EMERGENCY ☐ GENERAL EMERGENCY

Affecting: BFN U2 ☐, U3 ☐ SQN U1 ☐, U2 ☐ WBN U1 ☐

EAL Designator: _____

HAS BEEN TERMINATED

Event Termination Time: _____ Date: _____

Call affected State and provide this information

State Notification Time: _____ Date: _____

CECC Director: _____

APPENDIX B Page 1 of 1
CECC DIRECTOR'S RECOVERY CHECKLIST

	Check box when action complete	Action	Concurrence
1	<input type="checkbox"/>	The recovery organization has been established. <input type="checkbox"/> YES <input type="checkbox"/> NO	CECC Dir.: Date: Time:
2	<input type="checkbox"/>	Accident Assessment and Investigation activities have been considered and implemented as determined, based on the severity of the event, including the collection and organization of all documents generated during the emergency response. <input type="checkbox"/> YES <input type="checkbox"/> NO	CECC Dir.: Date: Time:
3	<input type="checkbox"/>	The affected state agency has been contacted to coordinate any support required for assessment and recovery of affected offsite areas. <input type="checkbox"/> YES <input type="checkbox"/> NO	CECC Dir.: Date: Time:
4	<input type="checkbox"/>	Appropriate Recovery Planning and Scheduling activities have been considered and implemented as determined, based on the severity of the event. <input type="checkbox"/> YES <input type="checkbox"/> NO	CECC Dir.: Date: Time:
5	<input type="checkbox"/>	The NRC has been contacted as applicable to NRC Administrative Letter 97-03. Refer to Appendix C. <input type="checkbox"/> YES <input type="checkbox"/> NO	CECC Dir.: Date: Time:

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NRC ADMINISTRATIVE LETTER 97-03
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF NUCLEAR REACTOR REGULATION
WASHINGTON, D.C. 20555-0001

March 28, 1997

NRC ADMINISTRATIVE LETTER 97-03: PLANT RESTART DISCUSSIONS FOLLOWING NATURAL
DISASTERS

Addressees

All holders of operating licenses or construction permits for nuclear power reactors.

Purpose

The U.S. Nuclear Regulatory Commission (NRC) is issuing this administrative letter to inform addressees about a recently adopted internal practice. This practice involves coordinating the assessment of offsite recovery and onsite restart activities following a natural disaster (hurricane, tornado, flood, storm, earthquake, etc.) where offsite damage may be substantial or undetermined. This administrative letter does not transmit or imply any new or changed requirements or staff positions. No specific action or written response is required.

Background

Numerous events have occurred in recent years in which natural disasters have affected power reactor facilities. Most notable of these is Hurricane Andrew and its impact on the Turkey Point Station. The licensee for the Turkey Point plant shut the reactors down in anticipation of the storm. Onsite damage from the hurricane was extensive. After that event, the licensee repaired the damage and was ready to restart the plant before the offsite emergency preparedness infrastructure was ready to support the restart. An assessment of offsite conditions and infrastructure prior to restart was necessary to assure emergency preparedness in the event of a subsequent reactor accident.

Events have also occurred in which plants have shut down in anticipation of hurricane damage, which turned out to be minimal. Despite the absence of onsite damage, either some offsite damage occurred that affected the state of offsite emergency preparedness, or some damage occurred offsite such that the state of offsite emergency preparedness could not be determined immediately. For these cases, the NRC coordinated with the Federal Emergency Management Agency (FEMA) and the licensees involved to ensure that the restarts occurred after the offsite emergency preparedness infrastructure could safely support them.

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NRC ADMINISTRATIVE LETTER 97-03
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Discussion

Although the overall responsibility for confirming the adequacy of radiological emergency preparedness of commercial nuclear power plants is vested with the NRC, it relies on FEMA's assessment of offsite emergency planning and response activities when carrying out this responsibility.

Section III of the Memorandum of Understanding (MOU) Between FEMA and the NRC, dated June 17, 1993, lists responsibilities for both agencies for cooperating in the recovery from a disaster that affects the offsite emergency preparedness infrastructure surrounding power reactors. FEMA's headquarters (HQ) in Washington, D.C., is responsible for providing findings and determinations to the NRC concerning the adequacy of offsite preparedness in the areas surrounding power reactor sites following a severe natural event. FEMA HQ bases its assessment on information from State and local governmental authorities, as well as from the affected FEMA regional office and the NRC.

In two recent instances (Hurricane Bertha, July 1996 and Hurricane Fran, September 1996), FEMA HQ chartered special evaluation teams to assess whether the offsite emergency preparedness infrastructure could support the restart of plants that had shut down in anticipation of hurricanes that affected the sites. These teams consisted of FEMA and NRC regional representatives, State and local emergency management representatives, and, in a limited capacity, power reactor licensee personnel. These teams provided assessments to FEMA HQ for its ultimate determinations that offsite emergency preparedness could support plant restart in both cases. The chartering of these special evaluation teams helped ensure a timely assessment of the condition of the offsite infrastructure and was based on experience gained with Hurricane Opal (October 1995) and the Quad Cities tornado (May 1996).

In some cases, a natural disaster may occur where onsite damage is minimal, but offsite damage may be substantial or undetermined. In these cases, the plant may be ready to start up shortly after the event. Communications in these cases between the licensee and NRC, the NRC and FEMA, and FEMA and offsite officials will be aggressive; however, stringent protocols will be observed to ensure that FEMA and the NRC operate within the guidelines of the MOU.

The NRC uses FEMA's determinations to inform power reactor licensees when the condition of the offsite emergency preparedness infrastructure can support a reactor restart. The Office of Nuclear Reactor Regulation (NRR), as well as NRC regional offices, have adopted a communication protocol that links key personnel in the two agencies and the affected licensee organization. An overview of this protocol is attached. Some of the key points of this protocol are:

1. NRC regional office personnel maintain close contact with the affected power reactor licensee to determine the state of onsite emergency preparedness and the plans for restart. The NRC regional office communicates this information rapidly to NRR.

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NRC ADMINISTRATIVE LETTER 97-03
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2. FEMA regional office personnel maintain close contact with their evaluators in the field, the affected State and local emergency management officials, and the affected NRC regional office to determine the state of offsite emergency preparedness. The FEMA regional office communicates this information rapidly to FEMA HQ.
3. The final assessment that offsite emergency preparedness can support a power reactor restart originates from FEMA HQ.
4. A single individual in NRR serves as the point of contact with FEMA HQ to receive this assessment. The individual communicates this information rapidly to NRR management and the cognizant NRC regional office.
5. After the assessment from FEMA is received and discussed with NRR management, the NRC regional administrator informs the affected licensee that the condition of the offsite emergency preparedness infrastructure can support a safe reactor restart.

The NRC has developed this protocol as a result of discussions with FEMA, as well as lessons learned from Hurricane Andrew and other events. The objective of this protocol is to ensure that aggressive and rapid information flow occurs between the involved organizations following natural disasters at power reactors. The NRC expects that the use of this protocol will ensure that the determination that the condition of the offsite emergency preparedness infrastructure can support a reactor restart will be made before the licensee is actually ready to restart the reactor plant(s). In the event that the determination is not made before the licensee is ready to restart the plant(s), the NRC will evaluate the need to delay the restart through the issuance of an order or confirmatory action letter. By accomplishing this protocol, the licensee, FEMA, and NRC can provide for safe and rapid restarts of power reactors in the wake of these disasters and assure that the offsite emergency preparedness infrastructure can function as expected if called upon in an emergency.

This administrative letter requires no specific action or written response. If you have any questions about this letter, please contact the contact listed below or the appropriate Office of Nuclear Reactor Regulation (NRR) project manager.

signed by

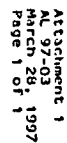
Thomas T. Martin, Director
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

Contact: W. Maier, NRR
(301) 415-2926
E-mail: wam@nrc.gov

Attachments:

1. Information Flow for Restart Considerations
Following Natural Disasters at Power Reactors

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AEOB - Office for Analysis and Evaluation of Operational Data
 DRP - Regional Division of Reactor Projects
 DRS - Regional Division of Reactor Safety
 EP&EH - Emergency Preparedness and Environmental Health
 Physics Section, PERB/NRR
 FEMA - Federal Emergency Management Agency

NRR - Office of Nuclear Reactor Regulation
 PERB - Emergency Preparedness and Radiation Protection
 Branch, NRR
 PT-EX-RG - State and Local Regulatory Assessment Branch, FEMA
 RAC - FEMA Regional Assistance Committee

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RECOVERY ORGANIZATION

