



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

FEB 07 2001

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

10 CFR 50, App E.

Gentlemen:

In the Matter of )  
Tennessee Valley Authority )

Docket No. 50-390

WATTS BAR NUCLEAR PLANT (WBN) - EMERGENCY PLAN IMPLEMENTING  
PROCEDURE (EPIP) REVISION

In accordance with the requirements of 10 CFR Part 50, Appendix E,  
Section V, the enclosure provides revised EIPs as follows:

<u>EPIP</u>	<u>Rev</u>	<u>Title</u>	<u>Effective Date</u>
EPIP-6	17	Activation and Operation of the Technical Support Center	1-24-2001
EPIP-7	12	Activation and Operation of the Operations Support Center	1-24-2001
EPIP-9	9	Loss of Meteorological Data	1-24-2001
EPIP-12	15	Emergency Equipment and Supplies	1-24-2001
EPIP-14	14	Radiological Control Response	1-24-2001

Filing instructions are included with this document.

A045

U.S. Nuclear Regulatory Commission  
Page 2

FEB 07 2001

There are no regulatory commitments in this letter. If you should have any questions, please contact me at (423) 365-1824.

Sincerely,



P. L. Pace  
Manager, Licensing and Industry Affairs

Enclosure

cc (Enclosure)

NRC Resident Inspector (w/o Enclosure)  
Watts Bar Nuclear Plant  
1260 Nuclear Plant Road  
Spring City, Tennessee 37381

Mr. L. Mark Padovan, Senior Project Manager  
U.S. Nuclear Regulatory Commission  
One White Flint North  
11555 Rockville Pike  
Rockville, Maryland 20852

U.S. Nuclear Regulatory Commission (2 copies)  
Region II  
Atlanta Federal Center  
61 Forsyth St., SW,  
Suite 23T85  
Atlanta, Georgia 30303

# FILING INSTRUCTIONS

DOCUMENT NUMBER EP 1P-6

REMOVE REVISION 16 INSERT REVISION 17

Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**TENNESSEE VALLEY AUTHORITY**

**WATTS BAR NUCLEAR PLANT**

**EMERGENCY PLAN IMPLEMENTING  
PROCEDURES**

**EPIP-6**

**ACTIVATION AND OPERATION OF THE  
TECHNICAL SUPPORT CENTER (TSC)**

Revision 17

Unit 0

**QUALITY RELATED**

PREPARED BY: Benjamin McNew  
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 01/24/2001

LEVEL OF USE: REFERENCE

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17</b>  <b>Page 2 of 72</b>
------------	---	--

**REVISION LOG**

Revision Number	Implementation Date	Pages Affected	Description of Revision
8	6/23/95	67	Revised Appendix Z to include requirements for Auxiliary Building lighting guidance after a LOCA/MSLB inside primary containment.
CN-1	9/28/95	12, 13, 39, 60, 62, 63	(Non-intent) grammatical and numerical corrections made. Information was enhanced in Appendix X to provide additional contingency options for ERCW concerns.
CN-2	7/12/96	3, 67, 67(a), 71	Add page to Appendix Z (a), to cover the concerns of SOER-93.0001 for cleanup of the secondary side water and installing temporary hotwell indication if needed.
9	10/10/96	3, 4, 5, 6, 7, 8, 12, 13, 16, 17, 19, 22, 24, 25, 26, 28, 29, 30, 32, 34, 36, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 49, 50, 54, 59, 61, 72	The following non-intent revisions were made: removed RC Mgr. from 3.3.4, per WBPER960582, changed all references of SOS to SM, enhanced TSC activation instructions, added organizational title and work phone number to call list reference, replaced TI-30 with EPIP-16, enhanced headset instruction in App. G, added responsibility to App. I, added AUO announcement to App. M, App. N deleted due to repetitive instructions in APP. Q, editorial non-intent changes concerning when to card into TSC accountability card readers made, RE/RM reference note added to App. R, App. T revised to reflect utilization of ERFDS, Westinghouse Rep. added to note 2, repaginated to include page 2 of App. Z, and other minor grammatical changes to enhance human factoring.
CN-1	2/15/97	48	Operational responsibility added to Appendix P.
CN-2	2/10/98	3,5,8,11,21,24, 43, 51	Satellite phone added to communications loss statement, SSP-1.06 changed to SPP-1.2, App. M add resp. to call clerks. App.Q Fire Pro. changed to HVAC Sys. Eng
10	6/30/98	All	Non-Intent Changes. Made text alignment, typo corrected. Incorporated Change Notices 1 and 2.
11	12/28/98	All	Added the following non-intent changes: GL 96-06 to Sect. 4.1 & Source Notes, editorial changes, SAMG responsibilities to Apps. C, E & Q, Ops staffing considerations to App. D, PORC/50.54x evaluation to Apps. E & Q, considerations to security/ environmental hazards to App. H, provide rad data to OSC to App. I, confirm completion of EPIPs 2-5 to App. M. Added ERCW caution to App. X.
12	3/2/99	All	Non-intent change. Revised ERFDS to ICS. Duty added to TSC clerical staff in Appendix P.
13	10/21/99	All	Non-intent change. Enhancement to Appendix R on instrument IDs. Removed 1-XR-1-5 reference in Appendix R due to DCN-39911. Duty added to TSC clerical staff in Appendix P. Changed AUO requirement due to tech spec changes in Appendix D.
14	02/07/00	All	Non-intent change. Revised APP. C SED Turnover Data Sheet per corrective action for PER-00-000177-000. Enhanced operational responsibilities in APP. C and F.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17</b>  <b>Page 3 of 72</b>
------------	---	--

**REVISION LOG**

<b>Revision Number</b>	<b>Implementation Date</b>	<b>Pages Affected</b>	<b>Description of Revision</b>
15	06/14/00	All	Non-intent changes. SED, OPS Communicator, Radcon Mgr., and Site VP duties were enhanced to be consistent with REP Appendix C. REX replaced with HIS-20, TSC removed from Maint. Mgr. Position title, and SED duties revised to reflect Radcon Mgr. Responsibility for authorizing/issuing KI. This revision corrects problems from WBN PER006394.
16	08/15/00	All (Pg. 3, 60)	Intent change. Revised CNTMT Rad Monitors (1-RE-90-271, 272, 273, & 274) readings to correspond with the new TI-RPS-162, "Response of the Primary Containment High Range Monitors" readings (Reference EDC-50600). This analysis resulted in a revision to Appendix U on the PAR Chart. This revision resolves action items from CORP PER-99-000038-000. This revision was also determined not to reduce the level of effectiveness of the procedure or REP.
17	01/24/01	All (Pg.7,29,51,54,56)	Plan effectiveness determinations revisions indicate the following revisions do not reduce the level of effectiveness of the procedure or REP: Added additional positions to TSC minimum staffing to support REP actions and standardize staffing across TVAN (App. C). Eliminated TAM/TAT responsibility associated with procedural development and 50.54.X. This information is located in other TVAN Standards and Departmental Procedures. This revision standardizes EP response within TVAN (App. E & Q). Clarified RADCON Managers authority to issue KI (App. C). Deleted RE-90-106 (iodine channel) and RE 90-290-293 per direction of DCN 50482-A and SA WBP LEE-00-052 (App. R). Non-intent change.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17</b>  <b>Page 4 of 72</b>
------------	---	--

## **1.0 PURPOSE<sup>8,11</sup>**

The purpose of this Procedure is to describe activation of Technical Support Center (TSC), describe the TSC organization, and provide for TSC operation once it has been staffed.

## **2.0 RESPONSIBILITY<sup>2,11</sup>**

The Shift Manager (SM), upon detection of an emergency condition, becomes the Site Emergency Director (SED), classifies the emergency, and declares the event. Upon arrival of the Plant Manager, or alternate defined in the Emergency Response Organization Call List, the SM will be relieved of the SED duties. The SED activates and operates the TSC (Appendix A) and oversees the operations of the Operations Support Center (OSC).

## **3.0 INSTRUCTION**

### **3.1 General<sup>4,9</sup>**

The TSC will provide the following functions:

- A. Provide plant management and technical support to plant Operations personnel during emergency conditions.
- B. Perform CECC functions for the Alert Emergency class, the Site Area Emergency class, and General Emergency class until the CECC is functional.
- C. Help the reactor operators determine the plant safety status.
- D. Relieve the reactor operators of peripheral duties and communications not directly related to reactor system manipulations.
- E. Prevent congestion in the control room.
- F. Provide assistance to the operators by technical personnel who have comprehensive plant data at their disposal.
- G. Provide a coordinated emergency response by both technical and management personnel.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 5 of 72</b>
------------	---	---

### **3.0 INSTRUCTION (continued)**

- H. Provide reliable communications between onsite and offsite emergency response personnel.
- I. Provide a focal point for development of recommendations for offsite actions.
- J. Provide relevant plant data to the NRC for its analysis of abnormal plant operating conditions.

### **3.2 Initiating Conditions**

This procedure shall be activated if an emergency has been declared and classified as ALERT, SITE AREA EMERGENCY, or GENERAL EMERGENCY.

This procedure may be activated at any other time at the discretion of the SED.

### **3.3 Activation of the TSC**

- 3.3.1 The SED will activate the TSC and announce the emergency condition by one or more of the following methods depending on time of day, etc:

- A. Plant public address announcement.

**NOTE:** The Radiological Emergency Response Organization Call List is handled in accordance with the Fitness for Duty, (SPP-1.2).

- B. Shift personnel will normally activate the Emergency Paging System (EPS) or contact the persons designated on the Emergency Response Organization Call List.
- C. TSC personnel can also contact additional responders/replacements by phone using the Emergency Response Organization Call List available in the TSC and Appendix AA.
- D. Target activation time for Minimum TSC staffing is approximately 60 minutes.



WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 17  Page 6 of 72
-----	---	---

### 3.0 INSTRUCTIONS (continued)

#### 3.3.2 Emergency Response Organization Call List <sup>6</sup>

The Site Emergency Preparedness (EP) Manager **shall**:

1. MAINTAIN an Emergency Response Call List listing all TSC (and other emergency) personnel by organizational title, name, home and work telephone numbers, and pager numbers.
2. UPDATE the Emergency Response Organization Call List quarterly with input by the appropriate organizations. Current copies of the list will be maintained in the TSC, OSC, Main Control Room, SM Office, and Nuclear Security. Each page will be dated for revision control.

All TSC responders **shall** have unescorted protected area access and **shall** comply with fitness-for-duty policies while on-call.

#### 3.3.3 Depending on the emergency conditions, personnel required for the TSC may vary. Listed below is the minimum staff required:

- Site Emergency Director
- Operations Manager or Operations Communicator
- Technical Assessment Manager (TAM) or Technical Assessment Team Leader or TAT Team (Thermal Hydraulics, Mechanical, and Electrical) Members
- RADCON Manager

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 7 of 72</b>
------------	---	---

### **3.0 INSTRUCTIONS (continued)**

3.3.4 In addition, the following personnel should report to the TSC, or assigned TSC support location, upon announcement of an ALERT or higher emergency or at the direction of the SED:<sup>16</sup>

- Site Vice President (optional)
- Operations Manager
- Operations Communicator
- TSC Maintenance Manager
- Control Room Communicator (report to Control Room)
- Nuclear Security Manager (can initially be the Nuclear Security Shift Supervisor)
- Technical Assessment Team
- Chemistry Manager
- NRC Coordinator
- Emergency Preparedness Manager
- Media Relations Specialist (optional)
- Westinghouse Representative
- TSC Boardwriters
- Emergency Response Team Boardwriter

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 8 of 72</b>
------------	---	--

### **3.0 INSTRUCTIONS (continued)**

#### **3.4 Required Actions For Activation and Operation of the TSC**

- 3.4.1 TSC staff actions and responsibilities are described in their checklists (Appendices B-Q).
- 3.4.2 TSC responders will complete all of the applicable steps contained in the appropriate Appendix/Checklist for their position.
- 3.4.3 The Site Emergency Director or designee shall declare the TSC activated and inform the SM of the final transfer of responsibilities. A formal activation announcement shall be made plant wide to indicate the transfer of responsibility from the SM to the TSC SED.

#### **3.5 Contingencies**

- 3.5.1 If there is a loss of onsite to offsite telephone communications, cellular phone, radios or the satellite phone described in SOI-100.01 will be used.<sup>17</sup>
- 3.5.2 If the TSC becomes uninhabitable, the SED will relocate the TSC to an alternate location based on RADCON/OPERATIONS advice.
- 3.5.3 Plant procedures should be followed whenever possible. Should a situation arise where normal procedures would be inappropriate, action will be performed as determined by the SED.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17</b>  <b>Page 9 of 72</b>
------------	---	--

### **3.0 INSTRUCTIONS (continued)**

#### **3.6 Long-Term Operation<sup>10</sup>**

- 3.6.1 Long-term operation will be put into effect during emergencies which are projected to exist for more than 12 hours.
- 3.6.2 The SED will notify the Central Emergency Control Center (CECC) of the decision to begin long-term operation.
- 3.6.3 Meals and arrangements for sleeping facilities will be made at the request of the SED. These arrangements may be made by the CECC.
- 3.6.4 Additional personnel will be called in at the request of the SED to provide coverage or to ensure 12-hour or shorter shifts in the TSC. The SED will coordinate these call-ins with Nuclear Security to facilitate site access.
- 3.6.5 The SED, through the OSC Manager, will establish 12-hour (or shorter) shifts for craft personnel onsite and call in additional personnel as necessary.

#### **3.7 Termination and Deactivation**

- 3.7.1 **REFER TO** WBN-EPIP-13, "Termination of the Emergency and Recovery," for activities associated with terminating emergencies, TSC deactivation, and post-accident recovery.
- 3.7.2 All equipment, supplies, and procedures will be replenished in the TSC following a drill, exercise or emergency by applicable groups as assigned in WBN, EPIP-12.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 17  Page 10 of 72
-----	---	--

### 3.0 INSTRUCTIONS (continued)

#### 3.8 Records

##### 3.8.1 QA Records

NONE

##### 3.8.2 Non-QA Records

The Appendices and Checklists in this Procedure are necessary to demonstrate key actions during an emergency or annual NRC evaluated exercise and are considered Non-Quality Assurance (QA) records.

- 3.8.3 All original records generated during the course of a declared emergency or drill **shall** remain at each TSC responder's position after the emergency or drill is terminated. The EP Manager **shall** assemble all TSC records and ensure that they are stored appropriately.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 11 of 72</b>
------------	---	---

## **4.0 REFERENCES**

### **4.1 Source Documents:**

*Tennessee Valley Authority Nuclear Power Radiological Emergency Plan (REP)*

*SPP-1.2, Fitness For Duty*

Memo from J. B. Hosmer to R. J. Johnson dated 1/15/88  
RIMS No. B25 88011 5028

*NUREG 0654, FEMA-REP-1, Rev. 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in support of Nuclear Power Plants*

*NUREG 0696, Functional Criteria for Emergency Response Facilities, Final Report*

*ANSI Standard N 18.7-1976*

*10 CFR 20, Standards for Protection From Radiation*

*EPA 400-R-92-001, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents*

*NRC Generic Letter 96-06, Assurance of Equipment Operability and Containment Integrity During Design Basis Accident Condition*

### **4.2 Interface Documents**

*WBN-EPIP-1 Emergency Plan Classification Flowchart*

*WBN-EPIP-2 Notification of Unusual Event*

*WBN-EPIP-3 Alert*

*WBN-EPIP-4 Site Area Emergency*

*WBN-EPIP-5 General Emergency*

*WBN-EPIP-7 Activation and Operation of the Operations Support Center*

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17</b>  <b>Page 12 of 72</b>
------------	---	---

#### **4.0 REFERENCES (continued)**

##### **4.2 Interface Documents (continued)**

*WBN-EPIP-8 Personnel Accountability and Evacuation*

*WBN-EPIP-11 Security and Access Control*

*WBN-EPIP-13 Termination of the Emergency and Recovery*

*WBN-EPIP-15 Emergency Exposure Guidelines*

*WBN-EPIP-16 Initial Dose Assessment for Radiological Emergencies*

*CECC-EPIP-9 Emergency Environmental Radiological Monitoring Procedures*

*WBN, FSAR*

*SOI-30.06 Auxiliary Building Gas Treatment System (ABGTS)*

*SOI-67.01 Essential Raw Cooling Water System*

*Chemistry Manual, Chapter 13 (PASS)*

*ICS User's Manual*

*Watts Bar Nuclear Plant, Plant Lighting, N3-228-4003*

#### **5.0 APPENDICES**

Appendix A	Technical Support Center Facility Diagram and Organization Chart
Appendix B	Site Vice President Checklist
Appendix C	Site Emergency Director Checklist and SED Turnover Datasheet
Appendix D	Operations Manager Checklist
Appendix E	Technical Assessment Manager Checklist

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17</b>  <b>Page 13 of 72</b>
------------	---	---

## 5.0 APPENDICES (continued)

Appendix F	TSC Maintenance Manager Checklist
Appendix G	Operations Communicator Checklist
Appendix H	Nuclear Security Manager Checklist
Appendix I	RADCON Manager Checklist
Appendix J	Chemistry Manager Checklist
Appendix K	NRC Coordinator Checklist
Appendix L	Control Room Communicator Checklist
Appendix M	EP Manager Checklist
Appendix N	Nuclear Engineering Checklist ( <b>Intentionally Deleted</b> )
Appendix O	TSC Logkeeper Checklist
Appendix P	TSC Clerical Staff Checklist
Appendix Q	Technical Assessment Team Checklist
Appendix R	Plant Parameter Data Sheets
Appendix S	Predictive Release Data Sheet
Appendix T	TSC Accident Assessment Summary Sheet
Appendix U	Protective Action Recommendation Guidance
Appendix V	Reference Materials and Equipment List
Appendix W	Containment Sump Operation and Level Guidance
Appendix X	ERCW Concerns for Technical Assessment Team

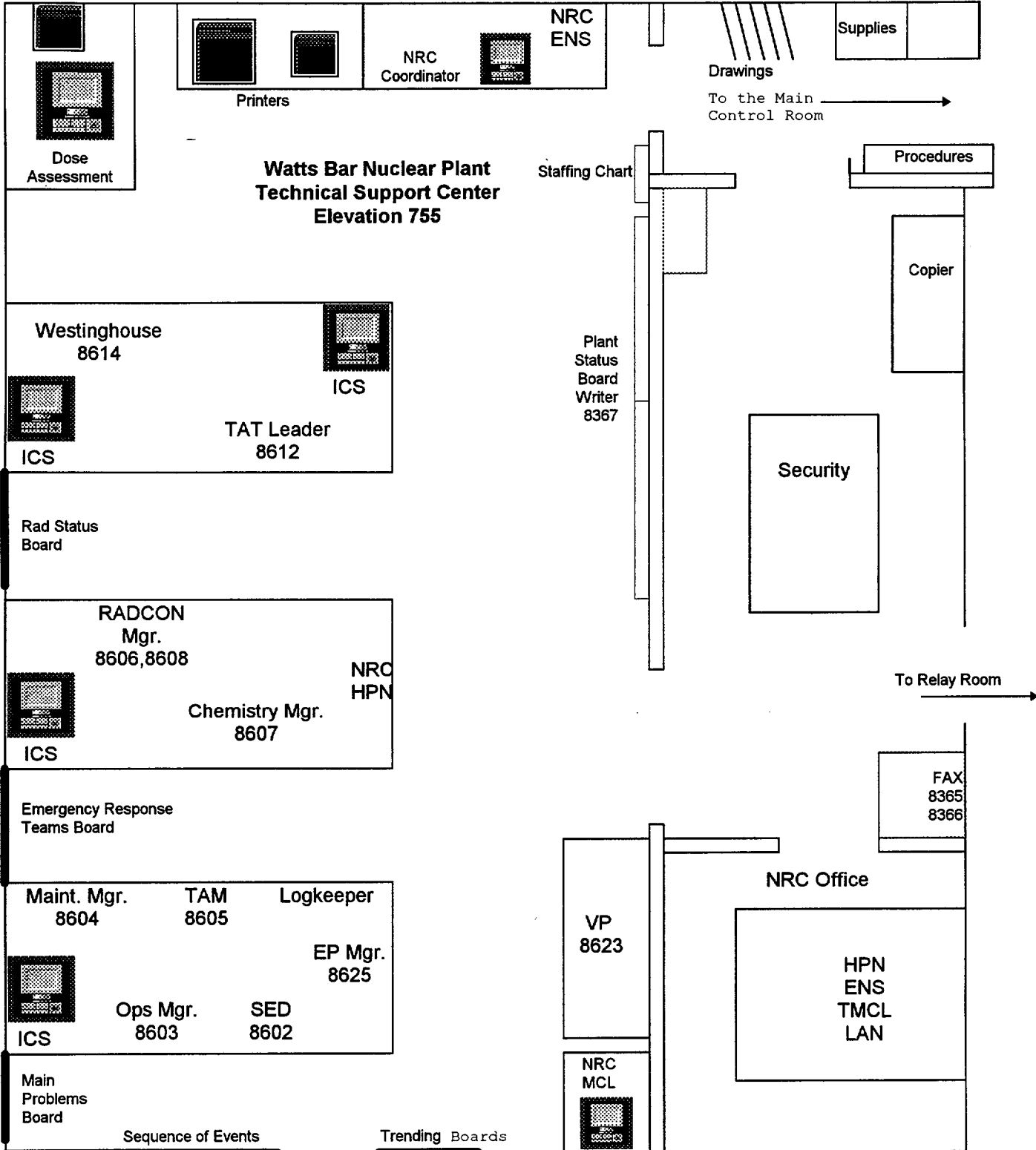


<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 14 of 72</b>
------------	---	---

## **5.0 APPENDICES (continued)**

Appendix Y	Small Break LOCA Concerns
Appendix Z	Additional TAT Duties (Post Accident)
Appendix AA	Emergency Responder Notification Form
Appendix BB	WBN TSC Sign-in Roster

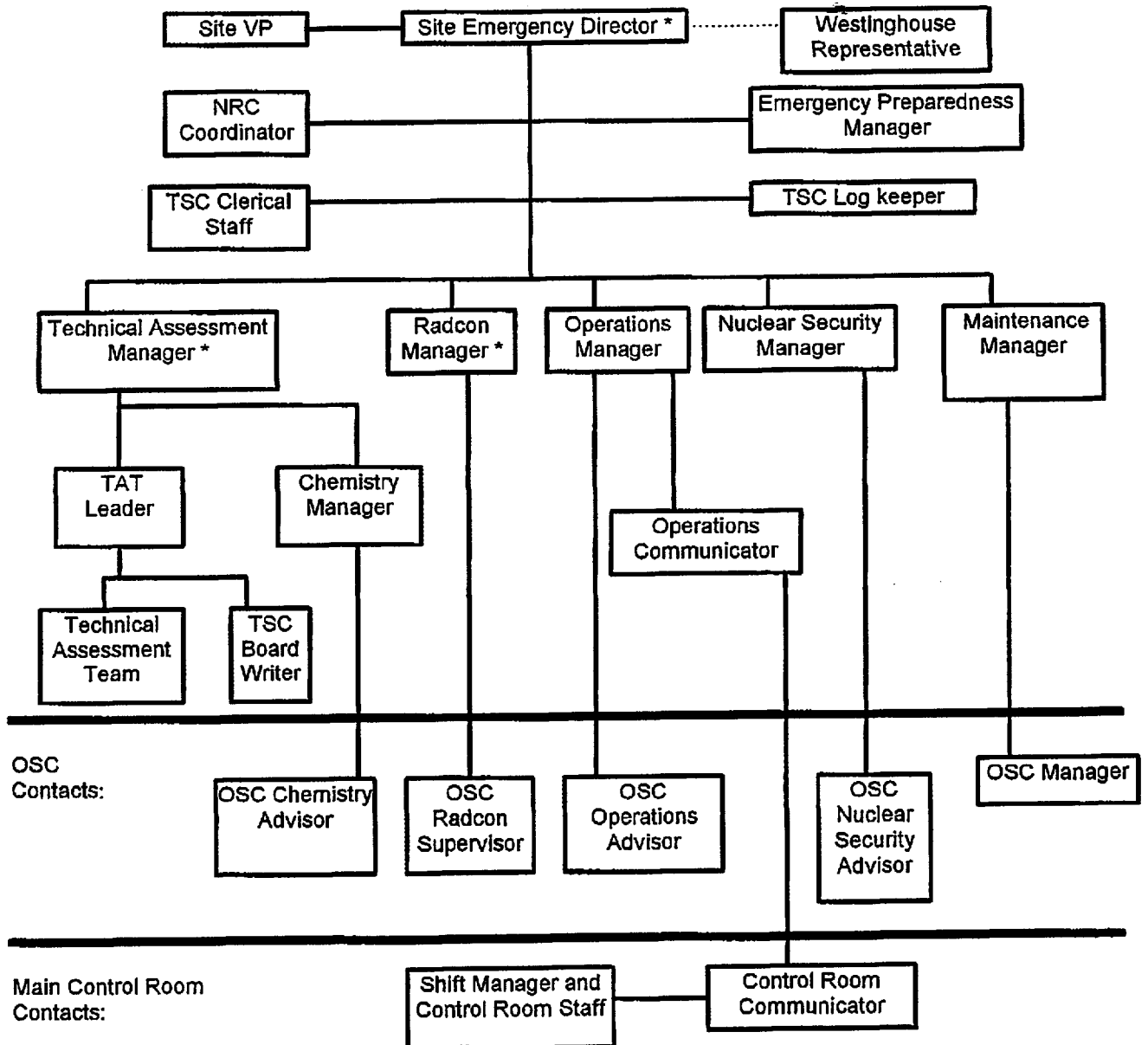
Appendix A, TSC Facility Layout Diagram<sup>4</sup>  
Page 1 of 2



APPENDIX A  
Page 2 of 2

Technical Support Center (TSC)

**WBN EMERGENCY RESPONSE ORGANIZATION**



(\*) Denotes minimum staffing position(s) per NUREG 0654.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 17 of 72</b>
------------	---	---

APPENDIX B  
Page 1 of 2

## ***SITE VICE PRESIDENT***

### **Initial TSC Activation Checklist**

Date: \_\_\_\_\_  
Inits/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Card Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_/\_\_\_ **NOTIFY** SED of arrival.
- \_\_\_/\_\_\_ **ESTABLISH** a log of communications/events.
- \_\_\_/\_\_\_ **ESTABLISH** contact with the Media Relations Specialist.
- \_\_\_/\_\_\_ **ESTABLISH** contact with the CECC Director.
- \_\_\_/\_\_\_ **CHECK** the status of emergency actions already in progress.  
(Such as accountability, site evacuation or press inquiries.)

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17</b>  <b>Page 18 of 72</b>
------------	---	---

## APPENDIX B

Page 2 of 2

# ***SITE VICE PRESIDENT***

## **Operational Responsibilities List**

- Provides TVA policy direction to the SED.
- Provides support to other emergency centers as necessary.
- Serves as the primary site representative to function as a TVA Spokesperson in the Local News Center (LNC) at the WBN Training Center (if activated).
- Directs the site resources to support the SED in the accident mitigation activities.
- Provides direct interface on overall site response activities with NRC, FEMA, other Federal organizations, the CECC Director, and onsite media.
- Provides interfaces/briefings (as needed) at offsite locations on the overall site response activities with Federal, State and Local agencies.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 19 of 72</b>
------------	---	--

APPENDIX C  
Page 1 of 7

## ***SITE EMERGENCY DIRECTOR***

### **Initial Activation of the Technical Support Center Checklist**

Date: \_\_\_\_\_  
Inits/Time

- \_\_\_/\_\_\_ **OBTAIN** turnover briefing from SM/SED. Pages 5, 6 and 7 of Appendix C, SED Turnover Data Sheet may be used as a guide.
- \_\_\_/\_\_\_ **REPORT** to the TSC **and ENTER** badge into the TSC Accountability Card Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the staffing chart **and PUT ON** position badge.
- \_\_\_/\_\_\_ **ESTABLISH** log of communications/events.
- \_\_\_/\_\_\_ **ESTABLISH** initial contact with the CECC Director.
- \_\_\_/\_\_\_ **CHECK** the status of emergency actions already in effect such as emergency notifications (NRC, State, etc.) and accountability or site evacuation.
- \_\_\_/\_\_\_ **REQUEST** checklist completion status for required positions:
- ☐ Site Emergency Director
  - ☐ Operations Manager or Operations Communicator
  - ☐ TAM or TAT Leader or TAT Team (Thermal Hydraulics, Mechanical, and Electrical) members
  - ☐ RADCON Manager
- \_\_\_/\_\_\_ **CONFIRM** TSC staffed and Operational.
- \_\_\_/\_\_\_ **ASSUME** role of SED from SM (confirmatory phone call to the SM).

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 20 of 72</b>
------------	---	--

APPENDIX C  
Page 2 of 7

## ***SITE EMERGENCY DIRECTOR***

### ***Initial TSC Activation Checklist (continued)***

\_\_\_/\_\_\_ **INFORM** the CECC Director and OSC Manager that TSC is operational and that you have assumed responsibility of the SED and provide initial briefing.

\_\_\_/\_\_\_ **MAKE** a general plant-wide announcement regarding plant condition similar to the following:

1. ACCESS the Public Address System by dialing 487.
2. COVER the following points as a minimum:
  - a. "ATTENTION ALL SITE PERSONNEL. ATTENTION ALL SITE PERSONNEL.
  - b. ☐ "This is a drill, this is a drill." OR
  - c. ☐ "This is a real emergency. This is a real emergency."
  - d. This is \_\_\_\_\_ (name) Site Emergency Director. The TSC was activated at \_\_\_\_\_ hours. Due to \_\_\_\_\_ we have classified a \_\_\_\_\_ (NOUE, Alert, Site Area Emergency, General Emergency). Plant protective actions which we are implementing include: (Evacuations, assembly and accountability, etc.) \_\_\_\_\_
  - e. Radiological release points: \_\_\_\_\_
  - f. Our plan of action at this time is to \_\_\_\_\_
  - g. The OSC (is, is not) activated. All emergency response teams will be dispatched from the OSC.
  - h. ☐ "This is a drill, this is a drill." OR  
☐ "This is a real emergency. This is a real emergency."

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 21 of 72</b>
------------	---	---

APPENDIX C  
Page 3 of 7

## ***Site Emergency Director***

### **Operational Responsibilities<sup>3,5</sup>**

- Determines the emergency classification and periodically reevaluates the classification. Changes to the classification will be reported to the CECC Director and the NRC. THE CLASSIFICATION OF THE EVENT CANNOT BE DELEGATED. (See WBN EPIP-1)
- Approves or authorizes emergency doses that may exceed applicable NRC dose limits. THIS RESPONSIBILITY CANNOT BE DELEGATED. (See WBN EPIP-15)
- Prior to the CECC being staffed, makes recommendations for protective actions to State and Local agencies through the Operations Duty Specialist. THIS RESPONSIBILITY CANNOT BE DELEGATED EXCEPT TO THE CECC DIRECTOR. Use Appendix U, Protective Action Recommendation Guidance Flowchart as a guide. (See WBN EPIP-5)
- Directs onsite emergency accident mitigation activities and periodically briefs the TSC/OSC staff on the current plant situation.
- Ensures that general plant population is periodically briefed on the emergency conditions.
- Periodically reviews priority of work operations of the OSC with the OSC Manager. (See WBN EPIP-7)
- Directs activities of onsite emergency organizations.
- Consults with the CECC Director and Site VP on important decisions. Use the CECC Ring-down Line to the CECC Director.



<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 22 of 72</b>
------------	---	---

APPENDIX C  
Page 4 of 7

## ***Site Emergency Director***

### **Operational Responsibilities (continued)**

- Coordinates emergency actions with onsite NRC.
- Initiates onsite protective actions. (See WBN EPIP-8)
- Verifies the administration of Potassium Iodine (KI) to TVA personnel based on RADCON Manager's advice/direction. (See WBN EPIP-14)
- Establishes a RADCON checkpoint for site evacuation if conditions warrant. (See WBN EPIP-8 and WBN EPIP-14)
- Initiates long-term 24 Hour/day operation.
- Assumes responsibilities for the Severe Accident Management, when directed by the Main Control Room and the TSC is functional and the SAMG Evaluators are monitoring "TSC Diagnostic Flow Chart" (DFC). The TSC must have three SAMG Evaluators monitoring SAMGs to assume the accident responsibility.
- Evaluates conditions and determines if emergency procedures should be implemented.
  - a. Emergency Environmental Radiological Monitoring Procedures CECC-EPIP-9
  - b. Medical Emergency Response WBN-EPIP-10
  - c. Security Threat Physical Security Plan
  - d. Personnel Accountability and Evacuation WBN-EPIP-8
  - e. Initial Dose Assessment for Radiological Emergencies WBN-EPIP-16

### **DEACTIVATION RESPONSIBILITIES**

Refer to WBN EPIP-13.

APPENDIX C  
Page 5 of 7

*SED Turnover Datasheet*

1. Current Emergency Classification:

UE ☐ ALERT ☐ SAE ☐ GE ☐

Time/Date Declared \_\_\_\_/\_\_\_\_

2. Event Description: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Equipment Problems: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

4. Site Radiological Problems \_\_\_\_\_

\_\_\_\_\_

5. Rad Release:      Yes      ☐      No      ☐  
                                  Filtered      ☐      Unfiltered      ☐  
                                  Monitored      ☐      Unmonitored      ☐  
                                  Controlled      ☐      Uncontrolled      ☐  
                                  Projected Duration      \_\_\_\_/\_\_\_\_ (hrs./min.)

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 24 of 72</b>
------------	---	--

APPENDIX C  
Page 6 of 7

**SED TURNOVER DATASHEET (continued)**

Wind Speed \_\_\_\_ mph      Wind Direction FROM \_\_\_\_

Projected Whole Body Dose      \_\_\_\_ mrem  $\cong$  \_\_\_\_ miles

Projected Thyroid Dose      \_\_\_\_ mrem  $\cong$  \_\_\_\_ miles

6. Protective Action Recommendations to Offsite Officials (use PAR Flowchart in App. U):

None ☐    1 ☐    2 ☐    3 ☐    4 ☐

7. Onsite Protective Actions Taken: \_\_\_\_\_

☐ SITE EVACUATION    ☐ ACCOUNTABILITY    ☐ SPECIFIC AREA EVACUATIONS

8. Field Monitoring Vans Activated: Yes ☐    No ☐

9. SM/SED Notifications Made:

Time ODS notified: \_\_\_\_ (State and other notifications)

Time NRC Notified \_\_\_\_\_

10. Injured or contaminated persons status: \_\_\_\_\_  
\_\_\_\_\_

- ☐ Rhea County Medical Center  
☐ Athens Regional Medical Center

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 25 of 72</b>
------------	---	---

APPENDIX C  
Page 7 of 7

SED TURNOVER DATASHEET (continued)

11. Status of personnel in the field:

NAME

LOCATION

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

12. SED Responsibility Transferred:

- ☐ Physically in the TSC
- ☐ TSC has minimum staffing
- ☐ Call SM to see if conditions have changed.
- ☐ Declares over the telephone, "The TSC is staffed and activated. This is \_\_\_\_\_ and I am now assuming the role of Site Emergency Director."

From: \_\_\_\_\_ to \_\_\_\_\_  
SM TSC/SED

Time: \_\_\_\_\_ Date: \_\_\_\_\_

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17</b>  <b>Page 26 of 72</b>
------------	---	---

APPENDIX D  
Page 1 of 2

**OPERATIONS MANAGER**

**.Initial Activation of The Technical Support Center Checklist**

Date: \_\_\_\_

Inits/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Card Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_/\_\_\_ **ESTABLISH** log of communications/events.
- \_\_\_/\_\_\_ **ESTABLISH** contact with the OSC Operations Advisor and the CR Communicator in the MCR.
- \_\_\_/\_\_\_ **CHECK** the status of onsite emergency actions already in effect such as Accountability or Evacuations.
- \_\_\_/\_\_\_ **REPORT** the status of inplant field activities (operations, repair, radiological, etc.) received from the OSC Operations Advisor, Maintenance Manager or SM.
- \_\_\_/\_\_\_ **VERIFY** that notification of the NRC has been accomplished and inform SED and NRC Coordinator.
- \_\_\_/\_\_\_ **DESIGNATES** a person knowledgeable of the event to establish and maintain communications with the NRC via the phone as needed. This will be the NRC Coordinator when present. **NOTIFY** the SM that responsibility for NRC contact has been transferred to the TSC.
- \_\_\_/\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 27 of 72</b>
------------	---	--

APPENDIX D  
Page 2 of 2

## **OPERATIONS MANAGER**

### **Operational Responsibilities**

- Directs operational activities.
- Informs the SED of plant status and operational problems.
- Recommends solutions and mitigating action for operational problems.
- Designates a SRO for the Technical Assessment Team, as needed.
- Provides advice regarding Technical Specifications, system response, safety limits, etc.
- Periodically reviews the emergency status with the control room. Reviews trended parameters, time history information, and status boards with the Control Room staff.
- Ensures that the Control Room is aware of TSC accident assessments and OSC repair and response activities and priorities.
- Ensures that adequate Operations staffing is currently in the Main Control Room and that oncoming control room staffing requirements are being met for the following positions (Appendix AA, Emergency Responder Notification Form, may be used to document):
  - ☐ Shift Manager
  - ☐ Unit Supervisor
  - ☐ Station Technical Advisor
  - ☐ 2 Reactor Operators
  - ☐ 5 AUOs (minimum tech specs staffing)

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 28 of 72</b>
------------	---	---

APPENDIX E  
Page 1 of 2

## ***TECHNICAL ASSESSMENT MANAGER***

### ***Initial Activation of The Technical Support Center Checklist***

Date: \_\_\_\_

Inits/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Badge Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart and **PUT ON** position badge.
- \_\_\_/\_\_\_ **ESTABLISH** log of communications/events.
- \_\_\_/\_\_\_ **CHECK** the status of emergency actions already in effect such as Accountability or Site Evacuation or Response Teams in the Plant.
- \_\_\_/\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 29 of 72</b>
------------	---	---

## APPENDIX E

Page 2 of 2

# **TECHNICAL ASSESSMENT MANAGER**

## **Operational Responsibilities**

- Designates Technical Assessment Team Leader (if necessary).
- Directs activities of the Technical Assessment Team.
- Directs onsite effluent assessment.
- Projects future plant status based on present plant conditions.
- Keeps assessment team informed of plant status.
- Provides information, evaluations, and projections to the SED.
- Coordinates assessment activities with the CECC Plant Assessment team.
- Establishes and maintains a status of significant plant problems.
- If ICS is not operable, ensures information on Appendices R, S and T is sent to the CECC to be used in the predictive release rate model.
- Coordinate with the Chemistry Manager to initiate a Post-Accident Sample (PASS) as needed for assessment of the containment atmosphere and/or fuel damage.
- Provides for trending of significant parameters.
- Assumes SAMG responsibilities, when directed by the SED. The TSC must be functional and 3 SAMG Evaluators must be monitoring the "TSC Diagnostic Flow Chart" (DFC) to assume SAMG responsibilities.



<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 30 of 72</b>
------------	---	---

APPENDIX F  
Page 1 of 2

## ***MAINTENANCE MANAGER***

### **Initial Activation of The Technical Support Center Checklist**

Date: \_\_\_\_

Inits/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Badge Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart and **PUT ON** position badge.
- \_\_\_/\_\_\_ **ESTABLISH** log of communications/events.
- \_\_\_/\_\_\_ **ESTABLISH** contact with the OSC Manager and Asst. OSC Manager.
- \_\_\_/\_\_\_ **CHECK** the status of emergency actions already in effect  
such as Accountability or Site Evacuation.
- \_\_\_/\_\_\_ **CHECK** status of deployed emergency response teams (Operations,  
Maintenance, Medical Emergency Response Teams, etc.)
- \_\_\_/\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17</b>  <b>Page 31 of 72</b>
------------	---	---

APPENDIX F  
Page 2 of 2

## ***MAINTENANCE MANAGER***

### **Operational Responsibilities**

- Coordinates emergency response team assignment activities with the SED and the OSC.
- Maintains cognizance of deployed OSC teams purpose and status.
- Assists the SED and the OSC Manager in determining the relative priorities of maintenance/repair activities.
- Ensures that damage assessment and repair priorities are coordinated with the OSC.
- Maintains the Emergency Response Teams tracking board in the TSC.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 32 of 72</b>
------------	---	--

APPENDIX G  
Page 1 of 2

## ***OPERATIONS COMMUNICATOR***

### **Initial Activation of The Technical Support Center Checklist**

Date: \_\_\_\_

Initis/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Badge Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_/\_\_\_ **OBTAIN** headset and dial 4101.
- \_\_\_/\_\_\_ **CHECK** operability of the Integrated Computer System (ICS) system.
- \_\_\_/\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 33 of 72</b>
------------	---	---

APPENDIX G  
Page 2 of 2

## ***OPERATIONS COMMUNICATOR***

### **Operational Responsibilities**

- Provides operational knowledge as needed to status evaluations of plant systems.
- Provides advise to the Operations Manager regarding Technical Specifications, Systems Response, and safety limits.
- Assist Operations Manager in development of operations recommendations to problems.
- Monitors the Control Room Communicator Party line.
- Operates TSC ICS to obtain plant status and parameters.
- Provides information from the Control Room to the Technical Support Center personnel.
- Completes portions of plant parameter data sheets (Appendices R and S) as needed.
- Monitors plant status boards.
- Obtains supplemental data as needed by the TSC, OSC, or CECC.
- Makes inquiries to the Control Room Communicator to obtain specific information as necessary.
- Maintains the "Sequence of Events" board and "Main Problems" board.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 34 of 72</b>
------------	---	--

APPENDIX H  
Page 1 of 2

## ***NUCLEAR SECURITY MANAGER***

### **Initial Activation of The Technical Support Center Checklist**

Date: \_\_\_\_

Initis/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Badge Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_/\_\_\_ **NOTIFY** SED of arrival.
- \_\_\_/\_\_\_ **ESTABLISH** log of communications/events.
- \_\_\_/\_\_\_ **ESTABLISH** contact with the Central Alarm Station (CAS) and the Secondary Alarm Station (SAS).
- \_\_\_/\_\_\_ **CHECK** the status of emergency actions already in effect such as Accountability, Site Evacuation or site being closed to visitors.
- \_\_\_/\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 35 of 72</b>
------------	---	---

APPENDIX H  
Page 2 of 2

## ***NUCLEAR SECURITY MANAGER***

### **Operational Responsibilities**

- Directs activities of Nuclear Security personnel and mobilizes additional personnel as needed.
- Reports on site accountability/evacuation as defined in WBN EPIP-8.
- Assists in establishing search teams, as required. (WBN EPIP-8)
- Provides status updates to Nuclear Security personnel.
- Reports status of Security related events to the SED.
- Controls access to the site and the Main Control Room.
- Advises incoming emergency response personnel at the gate house of any radiological, security, or environmental hazards enroute to the TSC/OSC.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 36 of 72</b>
------------	---	---

APPENDIX I  
Page 1 of 2

## ***RADCON MANAGER***

### **Initial Activation of The Technical Support Center Checklist**

Date: \_\_\_\_

Inits/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Card Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_/\_\_\_ **NOTIFY** SED of arrival.
- \_\_\_/\_\_\_ **ESTABLISH** log of communications/events.
- \_\_\_/\_\_\_ **ESTABLISH** contact with the OSC RADCON Supervisor, the plant monitoring van (if dispatched), and the CECC Radiological Assessment Coordinator (RAC).
- \_\_\_/\_\_\_ **CONTROL** eating and drinking in the TSC until habitability has been established.
- \_\_\_/\_\_\_ **CHECK** the status of offsite/onsite radiological conditions and emergency actions already in effect such as Accountability or Site Evacuation.
- \_\_\_/\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 37 of 72</b>
------------	---	---

## APPENDIX I

Page 2 of 2

### ***RADCON MANAGER***

#### **Operational Responsibilities**

- Directs onsite Radcon activities.
- IF the CECC is not staffed, utilize WBN, EPIP-16 to perform dose assessment. **REPORT** results to the SED.
- Makes recommendations for protective actions for onsite personnel to the SED and for personnel entry into radiological hazardous environments.
- Obtains MET data as needed by using ICS or CECC computer.
- Directs the issue of KI by following WBN EPIP-14 guidelines to onsite personnel after notifying the SED.
- Remains cognizant of assessments of inplant and onsite radiological conditions from the OSC RADCON Supervisor.
- Directs the radiological monitoring vans until the CECC assumes control (CECC EPIP-9).
- Provides periodic status reports to the SED on radiological conditions.
- Keeps the CECC RAC informed on site radiological conditions and Coordinates supplemental RADCON support.
- Coordinates assessment of radiological conditions offsite with CECC RAM.
- Maintains status maps of offsite radiological conditions and inplant Radiological Conditions status board (ensuring times are posted next to radiological data).
- Provides RADCON surveillance through the OSC to MET station personnel, if required by environmental releases.
- Designates a qualified/knowledgeable person to provide inplant radiological data to the NRC via the Health Physics Network (HPN) upon request.<sup>13</sup>
- Ensures outlying emergency responders (i.e. line crews, warehouse) have dosimetry and are being protected during the emergency.
- Provide radiological data to the OSC that must be obtained from the Main Control Room.



<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 38 of 72</b>
------------	---	---

APPENDIX J  
Page 1 of 2

## ***CHEMISTRY MANAGER***

### **Initial Activation of The Technical Support Center Checklist**

Date: \_\_\_\_

Initis/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Card Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_/\_\_\_ **NOTIFY** SED of arrival.
- \_\_\_/\_\_\_ **ESTABLISH** log of communications/events.
- \_\_\_/\_\_\_ **ESTABLISH** contact with the OSC Chemistry Advisor  
and the CECC Radiological Assessment Coordinator (RAC).
- \_\_\_/\_\_\_ **CHECK** the status of emergency actions already in effect  
such as chemistry sampling.
- \_\_\_/\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 39 of 72</b>
------------	---	---

APPENDIX J  
Page 2 of 2

## ***CHEMISTRY MANAGER***

### **Operational Responsibilities**

- Coordinates information and the assessment of radioactive effluents with the CECC.
- Directs and remains cognizant of OSC Chemistry Advisor's Post-Accident Sampling Activities.

**NOTE:** From the time a decision is made to take a PASS sample, the results must be obtained in three (3) hours. A PASS should not (normally) be requested until post-accident conditions are stable enough to provide for useful evaluation results.

- Determines the impact of the incident on radwaste and various effluent treatment systems.
- Assist the RADCON Manager in Dose Assessment Calculations using WBN EPIP-16.
- Maintains the release rate portion on the Chemistry Status Board.
- Completes portions of plant parameter data sheets (Appendices R and S) as needed.
- Provides assistance to the SED and Technical Assessment Manager as needed.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 17  Page 40 of 72
-----	---	--

APPENDIX K  
Page 1 of 2

## ***NRC COORDINATOR***

### **Initial Activation of The Technical Support Center Checklist**

Date: \_\_\_\_

Inits/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Card Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_/\_\_\_ **NOTIFY** SED and OPS Manager of arrival.
- \_\_\_/\_\_\_ **ESTABLISH** log of communications/events.
- \_\_\_/\_\_\_ **CHECK** the status of plant conditions and emergency actions already in effect such as Accountability or Site Evacuation.
- \_\_\_/\_\_\_ **RELIEVE** the Control Room of responsibility for maintaining contact with the NRC, (ENS).<sup>13</sup>
- \_\_\_/\_\_\_ **CALL** NRC to inform them that you have assumed responsibility for contact from the Control Room.
- \_\_\_/\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 41 of 72</b>
------------	---	--

APPENDIX K  
Page 2 of 2

***NRC COORDINATOR***

**Operational Responsibilities**

- Acts as primary liaison with onsite NRC personnel.
- Remains fully cognizant of emergency and plant conditions.
- Updates NRC personnel on plant status (use Appendix T as a guide when ICS is unavailable).
- Provides information requests from NRC to TSC personnel.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 42 of 72</b>
------------	---	---

APPENDIX L  
Page 1 of 1

**CONTROL ROOM COMMUNICATOR**

*Initial Activation of The Technical Support Center Checklist*

Date: \_\_\_\_

Inits/Time

- \_\_\_\_/\_\_\_\_ **ENTER** badge into the Accountability Card Reader.
- \_\_\_\_/\_\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_\_/\_\_\_\_ **NOTIFY** SED of arrival.
- \_\_\_\_/\_\_\_\_ **REPORT** to the TSC to obtain headset.
- \_\_\_\_/\_\_\_\_ **REPORT** to Control Room and establish the Main Control Room "party line". Obtain headset/transmitter and activate amplifier at SM console - Dial 4101 for contact.
- \_\_\_\_/\_\_\_\_ **ESTABLISH** contact with the Operations Manager and the other party line receivers (Status Board Writer, OSC OPS Advisor, TSC OPS Communicator).
- \_\_\_\_/\_\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

*Operational Responsibilities*

- Serves as the control room - operations communications interface.
- Provides key plant parameters and critical safety function conditions and other information as requested over the operations "party line" to various positions in the TSC, OSC, and CECC.
- Provides operational knowledge for status evaluation of plant systems.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 43 of 72</b>
------------	---	---

APPENDIX M  
Page 1 of 2

***EP MANAGER***

**Initial Activation of The Technical Support Center Checklist**

Date: \_\_\_\_

Inits/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Card Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_/\_\_\_ **NOTIFY** SED of arrival.
- \_\_\_/\_\_\_ **ESTABLISH** log of communications/events.
- \_\_\_/\_\_\_ **CHECK** the status of emergency actions already in effect such as Accountability or Site Evacuation.
- \_\_\_/\_\_\_ **ENSURE** checklists are distributed and are being completed. **INFORM** SED when key staff are present.
- \_\_\_/\_\_\_ **ENSURE** all essential positions are filled by qualified responders and checklists are returned.
- \_\_\_/\_\_\_ **CALL** TSC Clerks to come to the TSC as necessary.
- \_\_\_/\_\_\_ **ENSURE** all activation activities are proceeding normally.
- \_\_\_/\_\_\_ **ENSURE** operability of backup communications.
- \_\_\_/\_\_\_ **ENSURE** that initial conditions data are transmitted to the CECC. Data may include equipment status, core status, and a copy of the latest RCS coolant chemical analysis.
- \_\_\_/\_\_\_ **ANNOUNCE** activation of the TSC and provide SED (name) on the Plant PA and instruct AUOs in the plant to report to the OSC staging area once they have completed previous missions assigned by the Main Control Room.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 44 of 72</b>
------------	---	---

## APPENDIX M

Page 2 of 2

### ***EP MANAGER***

#### **Operational Responsibilities**

- Advises the SED regarding the REP, use of EPIPs, emergency equipment use and availability, and coordination with the CECC.
- Confirm completion of action steps in EPIPS 2 - 5.
- Confirms TSC and OSC are operating properly.
- Provides assistance to the SED as requested.
- Coordinates food and lodging requirements for the ERO with the CECC.
- Assist the SED by making PA announcements to update plant personnel of emergency status.
- The EP Manager is authorized to activate the TSC if the incoming SED has been delayed. The SM/SED will be notified that Emergency classifications, Protective Action Recommendations and Emergency Dose Authorizations will remain with the SM/SED.

#### **DEACTIVATION RESPONSIBILITIES**

Refer to EPIP-13.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 45 of 72</b>
------------	---	---

**APPENDIX N**

Page 1 of 1

**Intentionally Deleted**

Nuclear Engineering personnel are available on the TAT Teams and do not require a separate and repetitive Activation Checklist.

This appendix will remain in its current state/position for future use.



<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 46 of 72</b>
------------	---	---

APPENDIX O  
Page 1 of 1

***TSC LOGKEEPER***

**Initial Activation of The Technical Support Center Checklist**

Date: \_\_\_\_

Initis/Time

- \_\_\_\_/\_\_\_\_ **ENTER** badge into the TSC Accountability Card Reader.
- \_\_\_\_/\_\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_\_/\_\_\_\_ **REPORT** to the SED and begin a log of his/her activities.
- \_\_\_\_/\_\_\_\_ **RECORD** significant information on the TSC Sequence of Events board.
- \_\_\_\_/\_\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

**Operational Responsibilities**

- Maintains official logs of the events and SED activities.
- Initiates the shift turnover list as directed by the SED.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 47 of 72</b>
------------	---	--

APPENDIX P  
Page 1 of 2

**TSC CLERICAL STAFF**

*Initial Activation of The Technical Support Center Checklist*

Date: \_\_\_\_

Inits/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Card Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_/\_\_\_ **DISTRIBUTE** manuals and TSC supplies and operate equipment as requested.
- \_\_\_/\_\_\_ **ENSURE** that EIPs are at the appropriate revision level.
- \_\_\_/\_\_\_ **ASSIST** TSC personnel in obtaining their TLDs.

*Deactivation of the TSC*

- \_\_\_/\_\_\_ **COLLECT** all logs, notes, and other materials from each TSC position and **PROVIDE** them to the EP Manager for documentation and storage.
- \_\_\_/\_\_\_ **ASSIST** in the deactivation of the TSC by returning all equipment, supplies and manuals to the proper storage cabinets.
- \_\_\_/\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 48 of 72</b>
------------	---	--

APPENDIX P  
Page 2 of 2

***TSC CLERICAL STAFF***

**Operational Responsibilities**

- Assist in the set up of the TSC.
- Maintains accountability of TSC personnel and staff organization board.
- In the event of a Site Wide Evacuation, notify the TSC RADCON Manager that this is a non-radiation worker position.
- Answers telephones.
- Distributes plant parameter data sheets (Appendices R, S, & T), if ICS is unavailable.
- Uses Emergency Response Call List to obtain staff for unfilled positions or replacement staff for shift turnover using Appendix AA, "Emergency Responder Notification Form". Ensure that the following directions relative to call-in for unscheduled work per the "Fitness For Duty" (SPP-1.2) are followed: ASK responder the following questions:
  1. "Have you consumed alcohol in the past five hours?"
  2. "Are you fit for duty?"

If the first question is answered in the affirmative, call the next person on the call list unless the individual indicates that he is fit for duty in which case you should refer the determination to a supervisor.
- Operates facsimile machines.
- Operates CECC computer.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17</b>  <b>Page 49 of 72</b>
------------	---	---

APPENDIX Q  
Page 1 of 3

**TECHNICAL ASSESSMENT TEAM**

*Initial Activation of The Technical Support Center Checklist*

Date: \_\_\_\_

Inits/Time

- \_\_\_/\_\_\_ **ENTER** badge into the TSC Accountability Card Reader.
- \_\_\_/\_\_\_ **SIGN IN** on the Organizational/Staffing Chart **and PUT ON** position badge.
- \_\_\_/\_\_\_ **ESTABLISH** log of communications/events.
- \_\_\_/\_\_\_ **ESTABLISH** contact with the Technical Assessment Manager.
- \_\_\_/\_\_\_ **CHECK** the status of emergency actions already in effect such as Accountability or Site Evacuation.
- \_\_\_/\_\_\_ **PROVIDE** this completed checklist to the SED or EP Manager.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 50 of 72</b>
------------	---	---

APPENDIX Q  
Page 2 of 3

**TECHNICAL ASSESSMENT TEAM**

**Operational Responsibilities**<sup>7</sup>

- Team Leader may designate TSC Logkeeper and Board Writer as directed by the TAM.
- Prepares and provides current assessment on plant conditions and provides this information to the CECC Plant Assessment Team.
- Project future status based on present plant conditions.
- Provide technical support and recommendations to plant operations on mitigating the accident.
- Monitor containment sump level and consult Appendix W for guidance.
- Provides direction for environmental qualification operating concerns for containment cooling following a non-LOCA event inside containment (i.e., loss of secondary side coolant) per Appendix X.
- Determines the condition of the reactor and nuclear fuel.
- If ICS is unavailable, prepares accident assessment form (Appendix T) for the TAM and NRC Communicator as warranted.
- Provides Predictive Release Data Sheet (Appendix S) to the CECC as requested.
- Ensures actions in Additional TAT Duties (Post Accident), Appendix Z, are initiated as needed.
- Performs trending of key plant parameters using ICS.
- Assumes SAMG responsibilities, when directed by the TAM. The TSC must be functional and 3 SAMG Evaluators must be monitoring the "TSC Diagnostic Flow Chart" (DFC) to assume SAMG responsibilities.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 51 of 72</b>
------------	---	--

APPENDIX Q  
Page 3 of 3

***TECHNICAL ASSESSMENT TEAM***

**Operational Responsibilities (continued)**

- Verifies that all Aux. Bldg. Secondary Containment Enclosures (ABSCE) doors are closed. (Contact MCR for SOI-30.06, Checklist 3 status file or Fire Protection)
- Identifies and tracks the status of current ABSCE breaches. (Contact HVAC System Engineer for Breaching Log status)
- Verifies that all Emergency Control Room Pressurization Boundary (ECRPB) doors are closed.
- Identifies and tracks the status of current ECRPB breaches.

APPENDIX R  
Page 1 of 6

### *Plant Parameter Data Sheets*<sup>7</sup>

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ UNIT: \_\_\_\_\_

**NOTE:** Unit status updates can be gained from the ICS computer utilizing the TSC **Mimics** and the following subgroups: REP1, REP2, 2PS1, 3MS1, 4SI1, or SPDS.

**Refer** to the ICS System User's Guide for additional information. If the ICS is inoperable, utilize the sheets of this appendix to trend/track needed data.

1. CST LEVEL: (LI-2-230A)\_\_\_\_\_ (LI-2-233A)\_\_\_\_\_ GAL
2. SG HEAT SINK:    ☐ CONDENSER    ☐ ATMOSPHERE
3. AFW PUMPS RUNNING: ☐ A-A                 ☐ B-B                 ☐ TD
4. SG LEVELS: NR:    (1)\_\_\_\_\_(2)\_\_\_\_\_(3)\_\_\_\_\_(4)\_\_\_\_\_%  
                            (LI-3-39)      (LI-3-52)      (LI-3-94)      (LI-3-107)  
  
                WR:    (1)\_\_\_\_\_(2)\_\_\_\_\_(3)\_\_\_\_\_(4)\_\_\_\_\_%  
                            (LI-3-43A)      (LI-3-56A)      (LI-3-98A)      (LI-3-111A)
5. SG PRESSURES:    (1)\_\_\_\_\_(2)\_\_\_\_\_(3)\_\_\_\_\_(4)\_\_\_\_ PSIG  
                            (PI-1-2A)      (PI-1-9A)      (PI-1-20A)      (PI-1-27A)
6. RVLIS: DYNAMIC RANGE \_\_\_\_\_%    STATIC \_\_\_\_\_%
7. PZR LEVEL: (LI-68-335A)\_\_\_\_\_(LI-68-320)\_\_\_\_\_%  
                            (COLD CAL)      (HOT CAL)
8. PZR PRESSURE: (PI-68-342A)\_\_\_\_\_ (PI-68-340A)\_\_\_\_\_ PSIG
9. RCS PRESSURE: (LOOP 3 HOT LEG)                 (PI-68-64)\_\_\_\_\_ PSIG
10. HL TEMP: WR (1)\_\_\_\_\_(2)\_\_\_\_\_(3)\_\_\_\_\_(4)\_\_\_\_ °F  
                            (TI-68-1)      (TI-68-24A)      (TI-68-43)      (TI-68-65)
11. CL TEMP: WR (1)\_\_\_\_\_(2)\_\_\_\_\_(3)\_\_\_\_\_(4)\_\_\_\_ °F  
                            (TI-68-18)      (TI-68-41)      (TI-68-60)      (TI-68-83)

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 17  Page 53 of 72
-----	---	--

APPENDIX R  
Page 2 of 6

Plant Parameter Data Sheets

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ UNIT: \_\_\_\_\_

12. RCS FLOW: RCP's RUNNING: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ NATURAL CIRC

13. ECCS STATUS: ☐ STANDBY ☐ INJECT ☐ RECIRC ☐ SPRAY

14. RWST LEVEL: (LI-63-50) \_\_\_\_\_ GAL (LI-63-51) \_\_\_\_\_ GAL

15. CNTMT SUMP LEVEL: (LI-63-176) \_\_\_\_\_ %

16. FLOWRATE: (FI-62-93) \_\_\_\_\_ GPM (FI-63-170) \_\_\_\_\_ GPM  
CHARGING BIT

17. CNTMT PRESSURE: NR (PI-30-44) \_\_\_\_\_ (PI-30-45) \_\_\_\_\_ PSID

18. INCORE THERMOCOUPLES:

QUAD 1 - (1 of #41,28,24,56,55,29,6) \_\_\_\_\_ °F

QUAD 2 - (1 of #44,22,58,21,16,63,64) \_\_\_\_\_ °F

QUAD 3 - (1 of #54,12,8,40,4,3,7) \_\_\_\_\_ °F

QUAD 4 - (1 of #60,9,45,6,46,42,36) \_\_\_\_\_ °F

19. NIS SOURCE RANGE: (N-131) \_\_\_\_\_ CPS (N-132) \_\_\_\_\_ CPS

20. SUB COOLING MARGIN \_\_\_\_\_ °F \_\_\_\_\_ °F  
(TI-68-105) (TI-68-115)

21. STATUS TREE INDICATING:

RED ☐ REASON: \_\_\_\_\_

ORANGE ☐ REASON: \_\_\_\_\_

DATA BY: \_\_\_\_\_



<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 54 of 72</b>
------------	---	---

APPENDIX R  
Page 3 of 6

Plant Parameter Data Sheets

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ UNIT: \_\_\_\_\_

RADIATION MONITORS

**NOTE:** UNIT STATUS UPDATE SHEETS (FOR USE WHEN TSC/ICS COMPUTER IS INOPERABLE)

1. LOWER CNTMT (1-RE-90-106) (A) PARTICULATE \_\_\_\_\_ CPM  
☐ ISOLATED ☐ TO LOWER (B) TOTAL GAS \_\_\_\_\_ CPM  
☐ TO UPPER
  
2. UPPER CNTMT (1-RE-90-112) (A) PARTICULATE \_\_\_\_\_ CPM  
☐ ISOLATED ☐ TO UPPER (B) TOTAL GAS \_\_\_\_\_ CPM  
☐ TO LOWER (C) IODINE \_\_\_\_\_ CPM
  
3. SHIELD BLDG VENT (1&2-RE-90-400) TOTAL GAS U1 \_\_\_\_\_ U2 \_\_\_\_\_  $\mu$ Ci/cc  
FLOW \_\_\_\_\_ CFM
  
4. AUXILIARY BLDG VENT (0-RE-90-101) (A) PARTICULATE \_\_\_\_\_ CPM  
☐ ISOLATED (B) TOTAL GAS \_\_\_\_\_ CPM  
FLOW \_\_\_\_\_ CFM (C) IODINE \_\_\_\_\_ CPM
  
5. CONDENSER EXHAUST (LR) \_\_\_\_\_ CPM FLOW \_\_\_\_\_ CFM  
(1-RE-90-119) (FT-2-256)

**NOTE:** ICS radiation monitor(s) RE identifications may be referenced as RM in the MCR.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 55 of 72</b>
------------	---	---

APPENDIX R

Page 4 of 6

Plant Parameter Data Sheets

6. STEAM LINE RAD MONITORS: 1-RE-90-421 \_\_\_\_\_ mR/hr  
1-RE-90-422 \_\_\_\_\_ mR/hr  
1-RE-90-423 \_\_\_\_\_ mR/hr  
1-RE-90-424 \_\_\_\_\_ mR/hr

STEAMFLOW (MCR)

1-FI-1-3A(3B) SG1 \_\_\_\_\_ 1bm/hr.  
1-FI-1-10A(10B) SG2 \_\_\_\_\_ 1bm/hr.  
1-FI-1-21A(21B) SG3 \_\_\_\_\_ 1bm/hr.  
1-FI-1-28A(28B) SG4 \_\_\_\_\_ 1bm/hr.

7. SERVICE BLDG VENT \_\_\_\_\_ CPM FLOW \_\_\_\_\_ CFM  
0-RE-90-132
8. SG BLOWDOWN: \_\_\_\_\_ CPM \_\_\_\_\_ CPM  
1-RE-90-120 1-RE-90-121
9. ERCW DISCHARGE: HEADER A: \_\_\_\_\_ CPM \_\_\_\_\_ CPM  
0-RE-90-133 0-RE-90-140
- HEADER B: \_\_\_\_\_ CPM \_\_\_\_\_ CPM  
0-RE-90-134 0-RE-90-141

10. Additional monitors in alarm (trend as needed).

DATA BY: \_\_\_\_\_

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 56 of 72</b>
------------	---	---

APPENDIX R  
Page 5 of 6

Plant Parameter Data Sheets

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ UNIT: \_\_\_\_\_

POST-ACCIDENT RADIATION MONITORS

**NOTE** UNIT STATUS UPDATE (FOR USE WHEN TSC/ICS COMPUTER IS INOPERABLE)

1. UPPER CNTMT: (TOP OF #2 & #3 SG) 1-RE-90-271: \_\_\_\_\_ R/hr  
(TOP OF #1 & #4 SG) 1-RE-90-272: \_\_\_\_\_ R/hr
2. LOWER CNTMT: (BETWEEN #2 & #3 SG) 1-RE-90-273: \_\_\_\_\_ R/hr  
(BETWEEN #1 & #4 SG) 1-RE-90-274: \_\_\_\_\_ R/hr
3. COND VAC EXHAUST: (mid.R/1-RE-90-404A)\_\_\_\_(HR/1-RE-90-404B)\_\_\_\_ CPM
4. Additional monitors in alarm (trend as needed):

DATA BY: \_\_\_\_\_

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 57 of 72</b>
------------	---	---

APPENDIX R  
Page 6 of 6

*Plant Parameter Data Sheets*

**NOTE:** Unit status update sheets (for use when TSC/ICS computer is inoperable).

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ UNIT: \_\_\_\_\_

**RADIOLOGICAL RELEASE DATA**

1. RELEASE POINT: \_\_\_\_\_

2. RELEASE RATES: CIRCLE ONE: DECREASING STABLE INCREASING UNKNOWN

-----AIRBORNE-----LIQUID RELEASE -----

RELEASES $\mu$ Ci/SEC		ISO- TOPE	CONCENTRATION VALUE	UNITS	FLOWRATE VALUE	UNITS	TOTAL-RELEASE VALUE	UNITS
NOBLE GAS _____		_____	_____	_____	_____	_____	_____	_____
IODINES _____		_____	_____	_____	_____	_____	_____	_____
PARTICULATE _____		_____	_____	_____	_____	_____	_____	_____
_____ COMBINED RELEASE		_____	_____	_____	_____	_____	_____	_____
ISOTOPE	RELEASE RATE	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

3. RELEASE BEGAN \_\_\_\_\_ EXPECTED TO END \_\_\_\_\_ EST/EDT. DURATION \_\_\_\_\_ HR  
RELEASE POTENTIAL: \_\_\_\_\_ Ci, IN VOLUME OF \_\_\_\_\_ (CU FT OR GAL)

4. METEOROLOGICAL CONDITIONS: (IF REQUESTED DUE TO MET DATALINK INOPERABLE)

DATE	TIME	WIND SPEED (MPH or METERS)	DIRECTION (DEGREES)	ELEVATION (METERS)	TEMPERATURE DIFFERENTIAL
____/____/____	____/____	_____	_____	_____	_____
____/____/____	____/____	_____	_____	_____	_____
____/____/____	____/____	_____	_____	_____	_____

5. REMARKS/COMMENTS:

\_\_\_\_\_

DATA BY: \_\_\_\_\_

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 58 of 72</b>
------------	---	---

APPENDIX S

Page 1 of 1

Predictive Release Data Sheet<sup>7</sup>

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ UNIT: \_\_\_\_\_  
**DATA NEEDED FOR CECC TO PERFORM PREDICTIVE RELEASE METHODOLOGY**

1. PRIMARY COOLANT CONCENTRATION

	IN GAS	IN LIQ	SAMPLE DATA	
ISOTOPE	$\mu\text{Ci/cc}$	$\mu\text{Ci/ml}$	DATE: _____	TIME: _____
I-131	_____	_____		
I-132	_____	_____		
I-133	_____	_____		
I-134	_____	_____		
I-135	_____	_____		
CS-137	_____	_____		
CS-138	_____	_____		
KR-85m	_____	_____		
KR-85	_____	_____		
KR-87	_____	_____		
KR-88	_____	_____		
XE-133	_____	_____		
XE-135	_____	_____		

LOCATION: \_\_\_\_\_

TEMPERATURE: \_\_\_\_\_ °F

PRESSURE \_\_\_\_\_ PSIA

GAS VOLUME: \_\_\_\_\_ CC

WATER MASS: \_\_\_\_\_ GRAM

WATER LEVEL: \_\_\_\_\_

2. CONCENTRATION OF HYDROGEN IN CONTAINMENT ATMOSPHERE

H<sub>2</sub> CONC (MOLE %): \_\_\_\_\_ DATE: \_\_\_\_\_

CNTMT TEMP: \_\_\_\_\_ °F TIME: \_\_\_\_\_

CNTMT PRESS \_\_\_\_\_ PSI LOCATION: \_\_\_\_\_

3. OPERATING POWER HISTORY (IF CECC/ICS DATALINK INOPERABLE)

DATE/TIME OF SHUTDOWN: \_\_\_\_\_

START	END	AVG POWER	START	END	AVG POWER
PERIOD	PERIOD	IN MWt	PERIOD	PERIOD	IN MWt
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

4. CORE EXIT THERMOCOUPLE READINGS (IF CECC/ICS DATALINK INOPERABLE)

THERMOCOUPLE	DATE	TIME	READING	NOTES:
NUMBER			(F)	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

5. REACTOR WATER LEVEL HISTORY (IF CECC/ICS DATALINK INOPERABLE)

DATE	TIME	READING	RCS VOL	NOTES:
		(UNITS)	(CU FT)	
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Send to: CECC Core Damage & CECC RAC.

DATA BY \_\_\_\_\_

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17  Page 59 of 72</b>
------------	---	--

APPENDIX T  
Page 1 of 1

*TSC Accident Assessment Summary Sheet*<sup>7</sup>

**NOTE:** This Status Update Sheet is for use when the TSC ICS/ERDS data systems are inoperable.

TO: Tech. Assmt. Mgr. & NRC Coordinator and CECC Plant Assessment Team  
FROM: WBN Tech. Assmt. Team

I. HEAT REMOVAL CAPABILITY (Core Cooling, Heat Sink, RSC Inventory):  
Status Tree: \_\_\_\_\_

II. FUEL INTEGRITY (Subcriticality, RCS Radionuclide):

III. RADIOACTIVITY IN CONTAINMENT;

IV. CONTAINMENT INTEGRITY:  
Status Tree: \_\_\_\_\_

V. OVERALL ASSESSMENT & RECOMMENDATIONS:

Prepared by \_\_\_\_\_ WBN /EXT \_\_\_\_\_

Time \_\_\_\_\_

## APPENDIX U

Page 1 of 1

Protective Action Recommendation Guidance<sup>5,12</sup>*Watts Bar Nuclear*

## NOTES

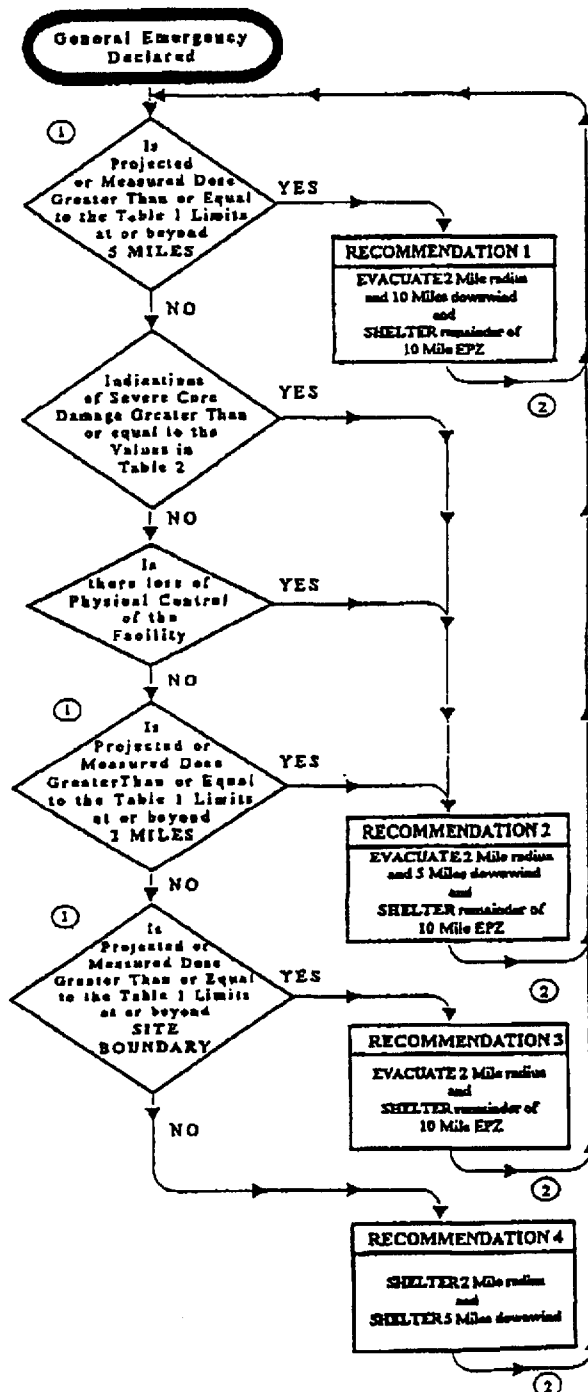
- ① IF Conditions Are not known, Then Answer No.
- ② CONTINUE ASSESSMENT  
Modify protective actions based on available plant and field monitoring information. Locate and evacuate additional localized hot spots.

TABLE 1  
RADIOACTIVITY  
RELEASE DOSE

TYPE	LIMIT
Measured	3.9 E-6 $\mu$ CI/sec of Iodine-131
	1 REM/yr External Dose
Projected	1 REM TEDE
	5 REM Thyroid CDE

TABLE 2  
Severe Core Damage  
INDICATIONS

- Containment radiation monitor reading
  - on I-RE-90-271 and 272 equal to or greater than 74 R/hr
  - or
  - Containment radiation monitor reading
    - on I-RE-90-273 and 274 equal to or greater than 59 R/hr
- Reactor Coolant Activity of  $\geq 300 \mu$ CI/gm Dose Equivalent Iodine-131.
- Inadequate core cooling as indicated by "red" path from core cooling status tree.
- Core exit TCs greater than 1200° F



<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 61 of 72</b>
------------	---	---

APPENDIX V  
Page 1 of 1

*Reference Materials and Equipment List*

The following reference materials are provided in the TSC:

1. Watts Bar Nuclear Plant FSAR.
2. Watts Bar Nuclear Plant Technical Specifications (Unit 1).
3. Surveillance Instructions (Selected). (Note <sup>1</sup> Below)
4. Technical Instructions (Selected). (Note <sup>1</sup> Below)
5. Radiological Control Instructions.
6. System Operating Instructions.
7. General Operating Instructions.
8. REP and WBN and CECC Emergency Plan Implementing Procedures
9. Plant Functional Drawings.
10. Abnormal Operating Instructions.
11. Emergency Operating Procedures.
12. Westinghouse Emergency Response Guidelines. (Note <sup>2</sup> Below)
13. Hand-held calculators.
14. Office supplies for use in the TSC.

**NOTE:** <sup>1</sup>Selection to be made by Technical Assessment Team Leader(s) or Technical Assessment Manager(s) and approved by the Emergency Preparedness Manager.

<sup>2</sup>Obtain copy from Site Westinghouse Representative or Master Files.



<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 62 of 72</b>
------------	---	---

APPENDIX W  
Page 1 of 1

Containment Sump Operation and Level Guidance<sup>1</sup>

**NOTE:** Revised Engineering Analysis on the WBN Containment Sump Operation and Level Guidance has made the information previously provided in this Appendix no longer applicable.

Information on the Containment Sump Operation and Level Guidance can be gained through the following sources:

- FSAR 6.3 Emergency Core Cooling System
- System Description N3-63-4001 Safety Injection Systems
- ES-1.3 Transfer to RHR Containment Sump

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 17  Page 63 of 72
-----	---	--

## APPENDIX X

Page 1 of 3

### ERCW Concerns for Technical Assessment<sup>1, 18</sup>

#### MSLB and LOCA Events:

The LCC fans will be operated throughout all events except LOCA and MSLB. Following a MSLB, the LCC fans (four total - 2 Train A and 2 Train B) are started between 1.5 and 4 hours after event initiation. Within 2 hours of event initiation, contingent upon no ERCW available to operating LCC units, operators will initiate plant cooldown at a minimum rate of 19°F per hour in the RCS and 25°F per hour in the Pressurizer, to at least 350°F in the RCS and 450°F in the Pressurizer.

**CAUTION:** Prior to reinitiating ERCW flow to the LCC coils, the potential for waterhammer and two phase flow must be considered. Parameters to be considered are containment temperature which can cause boiling within the coils, available system pressure to prevent boiling, and maintenance of system integrity after reinitiating ERCW flow.

If ERCW is supplied to operating units, the cooldown specified here is not required, if containment temperature is maintained below 120°F.

#### Non-LOCA Events:

1. Provide direction for environmental qualification operating concerns for containment cooling following a non-LOCA event (e.g. loss of secondary coolant) inside containment. Items which should be addressed are listed below:
  - a. Cooldown the RCS to less than 350 degrees F within 12 hours and continue as conditions allow.
  - b. In case of failure of the normal RHR suction valves to open, continue cooldown using the steam generators.
  - c. Within one to four hours after event initiation, place at least two lower containment coolers in service. Ensure ERCW is aligned before placing coolers in service. This action will require entry into the annulus to manually open the ERCW valve if one train of power is lost. Preferable, all lower containment coolers should be placed in service.
    - (1) If A-train power is lost, A-train valves FCV-67-104 and FCV-67-112, located in the annulus (approx. el 713) will have to be manually operated in order to place the B-train ERCW header to the B-train lower compartment coolers in service. See Appendix X, page 3 of 3 for the specific location of these valves.
    - (2) If B-train power is lost, B-train valves FCV-67-88 and FCV-67-96, located in the annulus (approx. el 713) will have to be manually operated in order to place the A-train ERCW header to the A-train lower compartment coolers in service. See Appendix X, page 3 of 3 for the specific location of these valves.
  - d. Evaluate containment heat loads. If a reactor coolant pump is running, then at least three lower containment coolers should be in service.
  - e. Evaluate ERCW flow to the lower containment coolers and, if required, consider reducing flow to other equipment such as the containment spray heat exchangers.
  - f. In case of failure of both the CVCS letdown and excess letdown flow paths, then evaluate use of the reactor vessel head vent system or pressurizer PORV.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 64 of 72</b>
------------	---	---

**APPENDIX X**

Page 2 of 3

**ERCW Concerns for Technical Assessment Team (continued)**

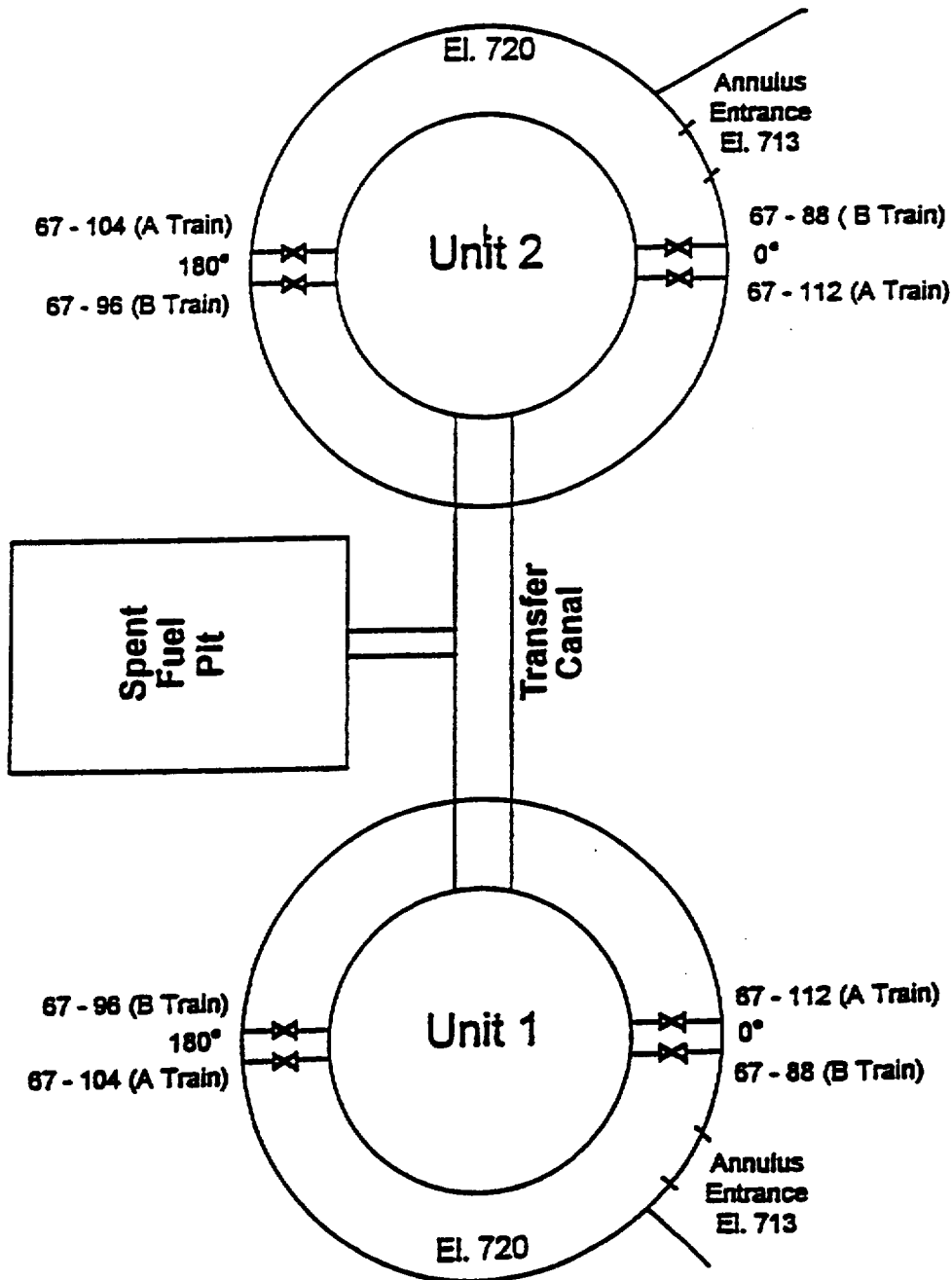
2. Monitor ERCW screens and strainers. Within 3 hours after operating basis earthquake ( $\geq 1/2$  SSE), a loss of downstream dam, a stage I flood, a tornado warning or within 12 hours following a LOCA, then perform the following actions:
  - a. Isolate chlorination to ERCW.
  - b. Inspect ERCW traveling screens and place screens into continuous backwash.
  - c. Inspect ERCW strainers differential pressure and place into continuous backwash.
3. For events other than those listed in previous step, then maintain the normal monitoring and cleaning frequency of the ERCW screens and strainers per SOI-67.01.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 17  Page 65 of 72
-----	---	--

APPENDIX X

Page 3 of 3

ERCW Concerns for Technical Assessment Team (continued)



<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 66 of 72</b>
------------	---	---

APPENDIX Y  
Page 1 of 1

***SMALL BREAK LOCA CONCERNS<sup>2</sup>***

As a result of a review of Sequoyah II-91-094, Nuclear Experience Review, it has been noted that the potential exists to have a loss of containment sump inventory as a result of lifting the relief (SRV-62-649) on the CCP miniflow recirculation line which would divert sump water inventory to the VCT/HUT. This scenario is potentially valid whenever the RHR pumps are providing makeup to the charging pumps in the recirculation mode.

Evaluate the conditions to determine if:

- A RCS Loss of Coolant accident is in progress.
- The unit is to the point of going on RHR Recirculation and RWST inventory is depleted and inventory for suction of the CCPs is from the containment sump.

If these conditions exist, then consider:

- Monitoring VCT level (this is the relief point of SRV-62-649)
- Determine if miniflow valve FCV-62-98 or FCV-62-99 should be closed to preclude loss of inventory to the VCT.
- If entry into Auxiliary Building is required to manually close the miniflow valve, have RADCON evaluate potential dose for performing this function.
- If loss of containment sump inventory to the HUT is occurring, actions must be taken to add water to RWST.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 67 of 72</b>
------------	---	---

## APPENDIX Z

Page 1 of 2

### ADDITIONAL TAT DUTIES (POST ACCIDENT)

#### Auxiliary Building Lighting Guidance<sup>14</sup>

In order to support the results of the Auxiliary Building temperature heat-up calculation (reference 7.2.21), normal lighting in the following rooms should be turned off within 12 hours of an Auxiliary Building isolation (ABI) resulting from a LOCA/MSLB inside primary containment, if temperatures in these rooms cannot be maintained below 128°F:

##### Elevation 757.0

A10 (Old Reverse Osmosis Rm)  
A11 (U1 Reactor Bldg. Equip Hatch)  
A12 (U1 Reactor Bldg. Access Rm)

##### Elevation 782.0

A1 (U1 MG Set Rm)  
A2 (PZR Header Xfmr Rm-Train A)

Lights must be turned off via the wall switch in the rooms and not at the circuit breaker in the lighting cabinet. Room 757.0-A11 has one 1500 watt light located at A5-A6 and W-X that is not switched and should not be turned off at LC156 (breaker 13) as this breaker also controls an emergency battery pack.

**NOTE:** Should emergency repair work be conducted in any of these rooms, repair teams should be instructed to turn the lights off upon departure.

#### Control Room Chiller Guidance

Operator Action will be required following a LOCA/HELB (inside containment) to assure that temperatures in the Main Control Room and in the Shut Down Board Rooms remain below the Maximum Limits.

The Technical Assessment Team will assure the following actions are taken.

Within 24 hours of the start of the LOCA/HELB, switch from the operating Train to the Standby train on the following systems:

- Main Control Room AHU
- Shut Down Board Room A & B Chiller

Continue to alternate trains every 24 hours.

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 68 of 72</b>
------------	---	---

APPENDIX Z  
Page 2 of 2

**Steam Generator Tube Rupture (SGTR) Recovery**<sup>15</sup>

Operator action will be required to dispose of contaminated water on the plant's secondary side after a SGTR.

To assist Plant Operations the Technical Assessment Team will assure the following actions are taken.

- Ensure the station sump is aligned to the unlined pond (in accordance with AOI-33, E-3 or ECA-3 series) and unlined pond releases are performed in accordance with the Offsite Dose Calculation Manual (ODCM).

**NOTE:** Hotwell level indication may be inadequate if the hotwell level is high.

- Evaluate having temporary level indication installed to provide accurate indication of hotwell level.
- The hotwell may be processed (cleaned up) in accordance with SOI-14.03, Condensate Demineralizer Waste Disposal.
- The A Condensate Storage Tank (CST) may be processed (cleaned up) in accordance with SOI-2&3.01, Condensate and Feedwater System.
- Any contaminated Steam Generator may be processed in accordance with SOI-15.01, Steam Generator Blowdown System.





APPENDIX BB

Page 1 of 1

*WBN TSC Sign-In Roster*

NAME (Print)	Social Security Number	Signature	Replacement within 12 hours Yes/No	Replacement notified Yes/No

\_\_\_\_\_  
Date of TSC Activation

\_\_\_\_\_  
WBN EP Records Coordinator

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6 Revision 17</b>  <b>Page 71 of 72</b>
------------	---	---

## SOURCE NOTES

Page 1 of 2

- |   |  |  |
|---|--|--|
| 1 | NRC IE Notice 87-52-02,<br>Weakness No. 1, NCO-870324038 | Operation of ERCW<br>screens/strainers to be consistent with NE<br>USQD (Appendix W)   |
| 2 | NER Item 910949  | Small Break LOCA Concerns (Appendix Y)   |
| 3 | DV-847100 F00021, NIR-0560.                              | SEDs Responsibilities. Section 2.0<br>Responsibility, 3.3 Activation of the TSC,<br>Appendix C (Pages 1 through 7).                                  |
| 4 | MC-840827005041A, MSC-02407.                             | Physical TSC Layout and Communications.<br>Section 3.0 Instruction, 3.1 General. Appendix<br>A (pages 1 and 2).                                      |
| 5 | MC-840827055035A, MSC-2400.                              | SED duties that cannot be delegated Appendix<br>C (page 3 of 7) Also see EIPs 5 and 15.  |
| 6 | MC-840827005055, MSC-02419,<br>NCO-920042076.            | Quarterly Update of WBN Emergency<br>Organization. Section 3.0 Instructions,<br>Section 3.3.2 Emergency Response Call List.                          |
| 7 | GR-823300000006, GLT-0015,<br>NCO-920033014.             | Plant Parameters Essential to EOF (CECC)<br>Function. Appendix Q, R, S, T.   |
| 8 | GLT-0011, NCO-920053011.                                 | Activation and Operation of the TSC. All<br>Sections and Appendices.   |
| 9 | MC-810914022080, MSC-04144.<br>NCO-920042275             | TSC will be operational by Fuel Load<br>(NUREG 0737 Upgrade). Entire procedure<br>supports the upgrade requirements. Also see<br>ERFDS Users Manual. |

<b>WBN</b>	<b>ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER</b>	<b>EPIP-6</b> <b>Revision 17</b>  <b>Page 72 of 72</b>
------------	---	---

## SOURCE NOTES

Page 2 of 2

- |     |   |   |
|-----|---|---|
| 10  | FRS-06-293.   | The MCRHS area is designed for long term occupation by personnel required during emergency operation. Section 3.6 Long Term Operation, 3.6.3. Also see EPIP-12. |
| 11. | ANSI Standard N.18.7-1976<br>Subsection 5.3.9.3: 01 POI | EIPs will contain the following elements.   |
| 12. | 390/93-64A  | 10 CFR 20 Revisions   |
| 13. | MSC-02859, NCO 920042546                                | Radiological Emergency Plan Site Procedures shall designate site personnel who shall staff the ENS and HPN communication systems.                               |
| 14. | WBPER 950118  | Turn off lights in key Auxiliary Building rooms after a LOCA/MSLB inside containment.   |
| 15. | SOER-93.0001  | Cleanup secondary side following a SGTR. Add temporary Hotwell Level Indication due to high level in Hotwell.   |
| 16. | WB PER960582<br>requirements of RC Mgr.                 | Remove statement concerning reportability   |
| 17. | NRC Information Notice 97-05                            | Offsite Notification Capabilities when site communication capabilities are lost   |
| 18. | NRC Generic Letter (GL) 96-06                           | MSLB/LOCA: Prior to reinitiating ERCW flow to LCC Coils, potential for waterhammer and two phase flow must be considered.                                       |

# FILING INSTRUCTIONS

51

DOCUMENT NUMBER EPIP-7

REMOVE REVISION 11 INSERT REVISION 12

Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**TENNESSEE VALLEY AUTHORITY**

**WATTS BAR NUCLEAR PLANT**

**EMERGENCY PLAN IMPLEMENTING  
PROCEDURES**

**EPIP-7**

**ACTIVATION AND OPERATION OF THE  
OPERATIONS SUPPORT CENTER (OSC)**

Revision 12  
Unit 0

**QUALITY RELATED**

PREPARED BY: Benjamin McNew  
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 01/24/2001

LEVEL OF USE: REFERENCE

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 2 of 57
-----	---	---------------------------------------

**REVISION LOG**  
(Page 1 of 2)

Revision Number	Effective Date	Pages Affected	Description of Revision
0	N/A	New WBN EPIP	Supersedes IP-7.
1	02/10/93	4  4 5 6 8  11  18,19 17,22,28,31,3 3,35,37,39,40 47	Added OSC Teams Coordinator, OSC Power Stores Coordinator, DCRM Representative, TSC Coordinator to response organization. Removed note about RADCON staffing issues. Added 3.5 section on call out list. Added OSC Teams Coordinator Personnel Pool Log. Added NUREG 0654 and NUREG 0696 and 10 CFR 50, App. E references. Added page 2 to Appendix A, Alt. OSC Layout. Changed all Attachments to Appendices. Added OSC Mgr Briefing items to Appendix D. Added deactivation responsibilities to checklists.  Added Appendix Q, OSC Personnel Coordinator Checklists. Added OSC Power Stores Coordinator Checklists. Added Work Control Boardwriter Checklists. Added RADCON Boardwriters Checklists. Added DCRM Coordinator checklists.
2	08/16/93	All	Editorial (non-intent) and format changes. Repetitive non-used information removed. New OSC Team Briefing/Debriefing Form added. Source notes added to the procedure. Revised RADCON Briefers' responsibilities. Non-pager contacts for Asst. OSC Manager reduced. TSC Coordinator position discontinued due to lack of need for the position. OSC Logkeeper Appendix was repeated twice, one of the Appendix was removed. Contact information for Maintenance personnel added to the OSC Teams Coordinator position. Nuclear Stores duties enhanced.
3	10/04/93	6  21,22,23	OSC equip., supplies, and procedures will be replenished following a drill, exercise or emergency. Change Briefing Form to dispatch teams out of OSC.
4	09/02/94	All	Added Fitness For Duty note in Section 3.2.3, A. Added WBN EIPs 12, 15, and 16 to the references section. Changed briefing form, Appendix F, to move OSC Manager's signature to front of the form. Added responsibilities to Appendices G, K, N, and O. Other editorial changes were made. Added optional OSC RADCON Briefer's Emergency Response Teams Staging Area orientation to Appendix H. Added responsibility of faxing Emergency Response Teams board status to Main Control Room to Appendix L.
CN-1	1/17/95	7,55	Source note referencing the capabilities of the OSC was added to the text.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 3 of 57
-----	---	---------------------------------------

REVISION LOG  
(Page 2 of 2)

Revision Number	Effective Date	Pages Affected	Description of Revision
5	4/21/96	3,11,19,20,22, 24,46, 52,54	Minor editorial changes concerning eating and drinking in the OSC, notification of non-pager wearing responders, changes to OSC roster and additions to OSC Teams Coordinator's responsibilities. Phone number revisions.
6	10/10/96	3, 4, 5, 6, 7, 9, 13, 14, 19, 24, 26, 27, 31, 33, 35, 37, 38, 39, 40, 41, 42, 44, 45, 48, 49, 51, 53, 55	The following non-intent and editorial revisions were made: Shift Clerk revised to Shift Personnel to reflect additional trained responders on shift, enhanced OSC activation instructions, added pager number to ERO call list, revised organizational title as needed, when to card in on the assembly card readers revised, and staffing of the OSC, redundant material/information removed, typographical errors corrected, fitness for duty instructions enhanced, activation time for minimum staffing of the OSC included, SM replaced SOS, non-QA records instructions enhanced, additional duty added to App. G, App. V added to the procedure, mainframe computer reference replaced with Curator, and editorial and grammatical enhancements made to assist human factoring.
CN-1	2/15/97	9, 38, 53	Operational responsibility added to Appendix L and T. Typographic error corrected on appendix list.
CN-2	2/10/98	3,5, 8,15, 22, 34	Satellite phone, NP-STD-1.6 changed to SPP-1.2 for FFD, key check-off for briefers , App. J removed "initiate" fire response.
7	6/30/98	All	Non-intent Changes. Incorporated Change Notices 1 & 2. SM FAX # changed. Alternate OSC number revised.
8	2/28/99	All	Non-intent change. Revised ERFDS to ICS and referenced OSC alternate locations in Appendix C.
9	10/21/99	All	Non-intent change. Developed new landscape tables for App L and P to replace scanned tables. Added step to OSC clerk's responsibilities (App L) to ensure all sign roster.
10	02/07/00	All	Non-intent changes. Revised APP. F OSC Team Briefing/Debriefing Form per corrective actions for PER-00-000177-000. Added steps to Appendix I, Initial Activation Checklist and Operational Responsibilities. Corrected typo on Appendix L. Added step to Appendix M, Operational Responsibilities. Revised Appendix P pg. 3 of 3 to enhance OSC Teams Dispatch.
11	06/14/00	All	Non-intent changes. Removed REX references and replaced it with HIS-20. Added wording to OSC Mgr., Assistant OSC Mgr., OPS Advisor and Nuclear Stores Coordinator responsibilities/titles to reflect wording in the REP. Corrected one typo and text alignments. Identified removal of QA records from MDB to EQB to resolve problems identified in PER980610. This revision also corrects problems from WBN PER006394.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 4 of 57
-----	---	---------------------------------------

REVISION LOG  
(Page 2 of 2)

Revision Number	Effective Date	Pages Affected	Description of Revision
12	01/24/01	All Pg. 11,13,42	Plan effectiveness determination reviews indicate the following revisions do not reduce the level of effectiveness of the procedure or REP: Revised locations of alternate OSC to Team Room (App. A). Added additional position to OSC minimum staffing to support REP activities and standardize staffing across TVAN (App. C). Added ARW column to OSC team coordinator's checklist (App. P). Non-intent change.



WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 5 of 57
-----	---	---------------------------------------

## 1.0 PURPOSE<sup>1,2,3</sup>

This procedure provides instructions for the Operations Support Center (OSC) activation, organization, operation, termination, and deactivation.

## 2.0 RESPONSIBILITY<sup>1,2</sup>

The OSC Manager and OSC staff are responsible for activation, operation and deactivation of the OSC.

## 3.0 INSTRUCTION<sup>1,2</sup>

### 3.1 General

At ALERT, SITE AREA EMERGENCY, or GENERAL EMERGENCY classifications, the OSC Manager **will report** directly to the OSC and **shall** be responsible for implementing this Procedure.

### 3.2 Initiating Conditions

- 3.2.1 The OSC is to be activated and operated when an emergency is declared and classified as an ALERT, a SITE AREA EMERGENCY, or a GENERAL EMERGENCY.
- 3.2.2 This Procedure may be activated at any other time as deemed necessary by the Site Emergency Director.
- 3.2.3 The Shift Manager (SM) will activate the OSC by announcing the emergency condition by one or more of the following methods.

- A. Plant Public Address (PA) announcement.

**NOTE:** The Radiological Emergency Response Organization Call List is handled in accordance with the TVA Fitness For Duty Program.

- B. Shift personnel will normally activate the Emergency Paging System (EPS) or contact the persons designated on the Radiological Emergency Response Organization Call List.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 6 of 57
-----	---	---------------------------------------

### 3.0 INSTRUCTION (CONTINUED)

- C. OSC personnel can also contact additional responders/replacements by phone utilizing the Emergency Response Organization Call List available in the OSC and Appendix V.
- D. Target activation time for minimum OSC staffing is approximately 60 minutes.
- E. IF the normal phone system and radio systems are not functioning, the satellite phone system will be used as described in SOI-100.01.

#### 3.3 Activation of the OSC

- 3.3.1 The OSC Manager **shall** assume responsibility for implementing this Procedure and directing OSC personnel and activities.
- 3.3.2 Personnel with OSC Emergency Preparedness assignments **REPORT** to their response positions, (**SEE** Appendix A, OSC Layout, and Appendix B, Alternate OSC Layout). Activation of the facility is required at the **ALERT OR** higher emergency classification or at the discretion of the Site Emergency Director.
- 3.3.3 Other plant staff the OSC Manager determines to be necessary to support OSC functions will be called:
  - (1) OSC Clerk
  - (2) Maintenance/Craft personnel as needed
  - (3) Operations personnel as needed
  - (4) RADCON personnel as needed
  - (5) Transmission/Power Supply Group personnel as needed
  - (6) Others, as needed.

#### 3.4 Required OSC Actions

- 3.4.1 OSC organization (Appendix B), staff actions and responsibilities are provided in Appendices C-T.
- 3.4.2 OSC responders will complete all of the applicable steps contained in the appropriate Appendices.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 7 of 57
-----	---	---------------------------------------

### 3.0 INSTRUCTION (CONTINUED)

- 3.4.3 Plant procedures should be followed whenever possible. Should a situation arise where normal procedures would be inappropriate, action will be performed as determined by the OSC Manager. Nonconformance with plant procedures should be documented and action/steps taken. Also, deviations may warrant initiation of a Problem Evaluation Report (PER) or other Corrective Action Plan (CAP).

### 3.5 Emergency Response Organization Call List

The WBN Emergency Preparedness Manager shall maintain the Emergency Response organization call list listing key OSC personnel by Emergency Response Organization Title, name, home and work telephone numbers and pager numbers. The call list will be updated at least quarterly with input by the appropriate section/group supervisors. The list will be available to shift personnel to use in case of the failure of the Emergency Paging System.

### 3.6 Long-Term Operation

Additional personnel will be called in at the request of the OSC Manager to provide coverage or to ensure 12-hour or shorter shifts in the OSC. The OSC Manager will coordinate these call-ins with Nuclear Security to facilitate site access.

### 3.7 Termination and Deactivation

- 3.7.1 Deactivation will be implemented using WBN EPIP-13, "Termination of the Emergency and Recovery," when plant conditions are such that: (1) the emergency has been terminated; (2) the OSC has been deactivated; and (3) OSC personnel have been relieved of emergency response duties.
- 3.7.2 All records generated during the operation of the OSC will be reviewed by the OSC Manager and forwarded to the Emergency Preparedness Manager.
- 3.7.3 All equipment and usable supplies will be returned to their storage locations.
- 3.7.4 All equipment, supplies and procedures will be replenished in the OSC following a drill, exercise or emergency by applicable groups as assigned in WBN EPIP-12, "Emergency Equipment and Supplies."

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 8 of 57
-----	---	---------------------------------------

### 3.0 INSTRUCTION (CONTINUED)

#### 3.8 Records

##### 3.8.1 QA Records

NONE

##### 3.8.2 Non-QA Records

- The appendices and checklist in this procedure are necessary to demonstrate key actions during an emergency or NRC evaluated exercise(s) and are considered Non-Quality Assurance (QA) records.
- All original records generated during the course of an emergency drill/exercise will be assembled by the Emergency Preparedness Manager and stored appropriately.

### 4.0 REFERENCES

- 4.1 *TVA Nuclear Power Radiological Emergency Plan (NP REP)*
- 4.2 WBN-EPIP-6      *Activation and Operation of the Technical Support Center*
- 4.3 WBN-EPIP-8      *Personnel Accountability and Evacuation*
- 4.4 WBN-EPIP-10      *Medical Emergency Response*
- 4.5 WBN-EPIP-12      *Emergency Equipment and Supplies*
- 4.6 WBN-EPIP-13      *Termination of the Emergency and Recovery*
- 4.7 WBN-EPIP-14      *Radiological Control Response*
- 4.8 WBN-EPIP-15      *Emergency Exposure Guidelines*
- 4.9 WBN-EPIP-16      *Initial Dose Assessment for Radiological Emergencies*

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 9 of 57
-----	---	---------------------------------------

#### **4.0 REFERENCES**

- 4.7 *Tennessee Valley Authority Nuclear Power Radiological Emergency Plan (REP)*
- 4.8 *SPP-1.2, Fitness For Duty*
- 4.9 *NUREG 0654, FEMA-REP-1, Rev. 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in support of Nuclear Power Plants*
- 4.10 *NUREG 0696, Functional Criteria for Emergency Response Facilities, Final Report*
- 4.11 Title 10 Code of Federal Regulations, Part 50, Appendix E
- 4.12 ANSI Standard N 18.7-1976
- 4.13 SOI-100.01 Communications Systems

#### **5.0 APPENDICES**

- Appendix A OSC Layout
- Appendix B OSC Organization Chart
- Appendix C OSC Manager Checklist
- Appendix D OSC Manager Briefing Outline
- Appendix E Assistant OSC Manager Checklist
- Appendix F OSC Team Tracking/Debriefing Form
- Appendix G OSC RADCON Supervisor Checklist
- Appendix H OSC RADCON Briefer Checklist
- Appendix I OSC Operations Advisor Checklist
- Appendix J OSC Fire Protection Advisor Checklist

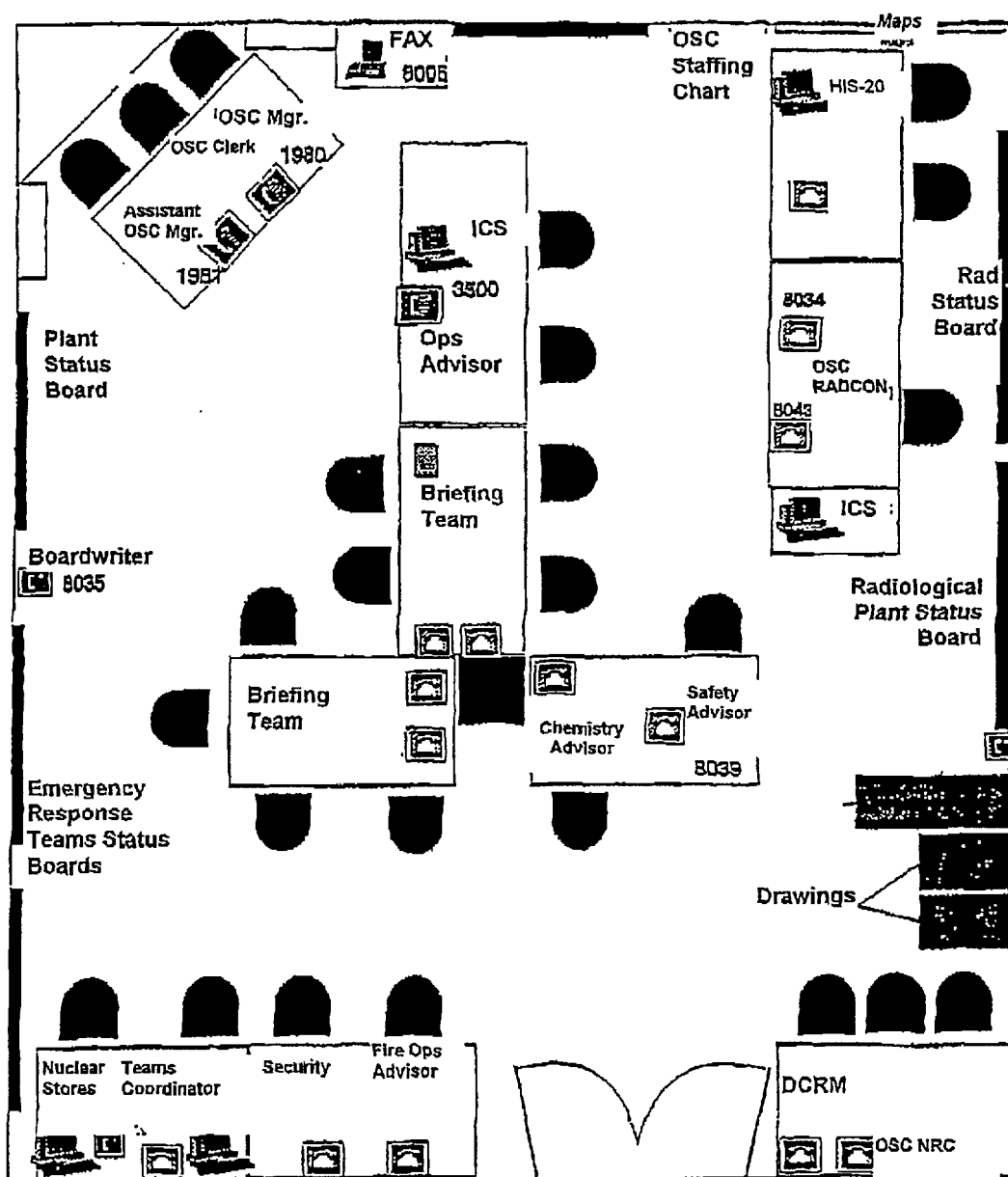
WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 10 of 57
-----	---	--

## 5.0 APPENDICES (continued)

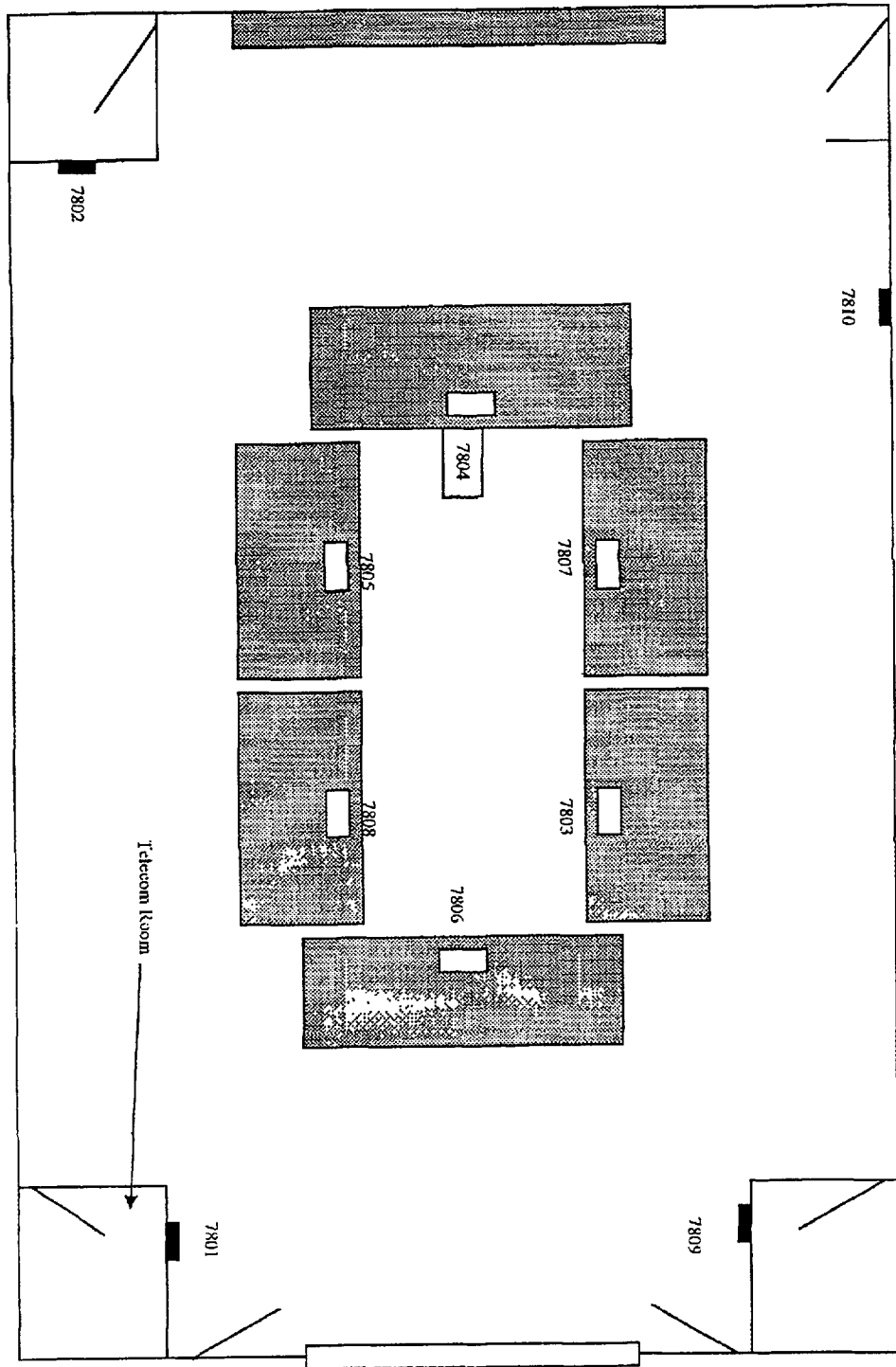
Appendix K	OSC Chemistry Advisor Checklist
Appendix L	OSC Clerk Checklist
Appendix M	OSC Briefing Team Checklist
Appendix N	OSC Industrial Safety Advisor Checklist
Appendix O	OSC Nuclear Security Advisor Checklist
Appendix P	OSC Teams Coordinator Checklist
Appendix Q	OSC Nuclear Stores Coordinator Checklist
Appendix R	Work Control Boardwriter Checklist
Appendix S	RADCON Boardwriter Checklist
Appendix T	DCRM Coordinator Checklist
Appendix U	WBN OSC Roster
Appendix V	Emergency Responder Notification Form

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 11 of 57
-----	---	--

APPENDIX A  
(Page 1 of 2)  
**OPERATIONS SUPPORT CENTER LAYOUT**  
Elevation 713 Radcon Lab Area



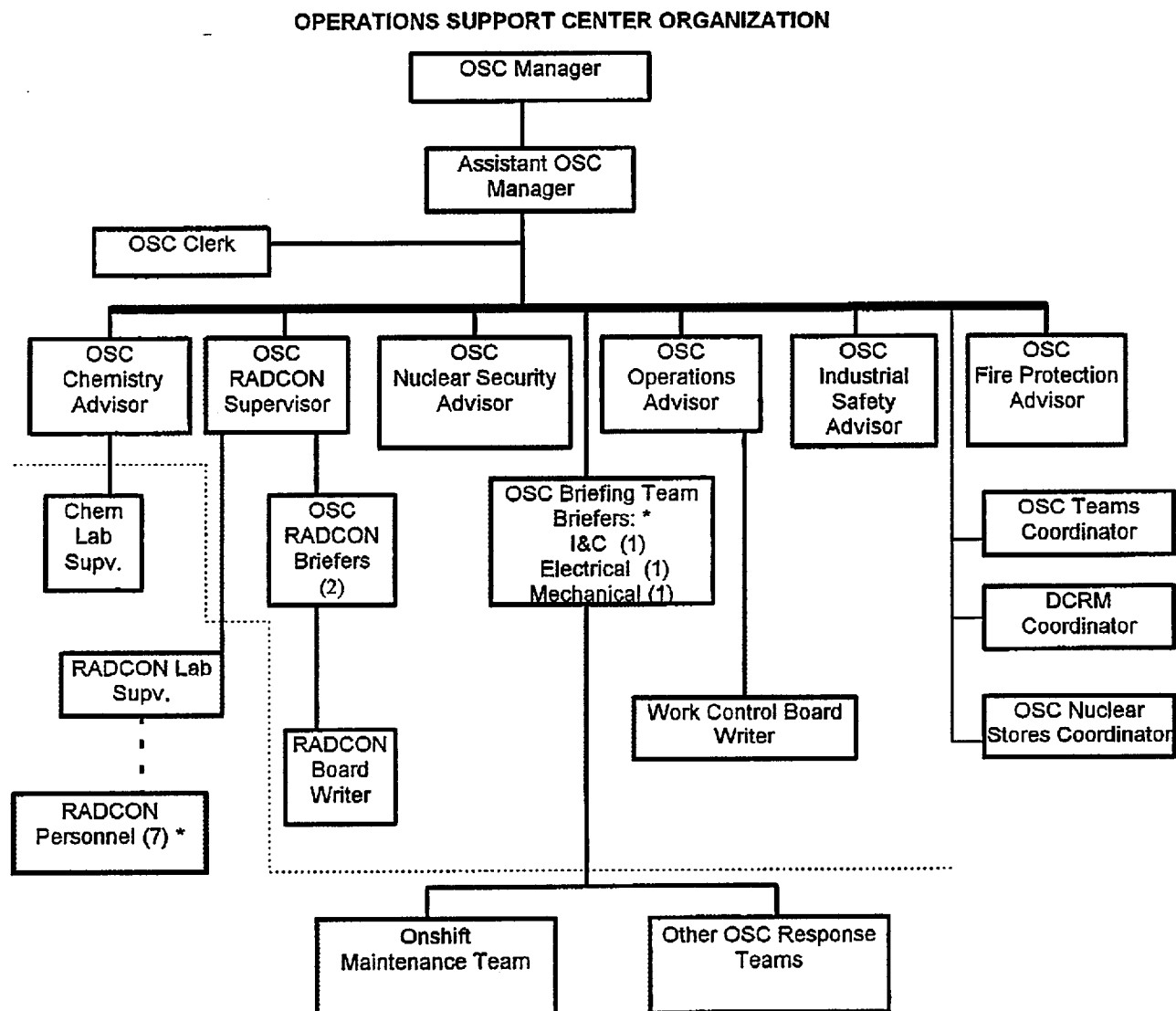
APPENDIX A  
(Page 2 of 2)  
**WBN ALTERNATE OPERATIONS SUPPORT CENTER LAYOUT**  
**Elevation 729, Plant Team Conference Room**





APPENDIX B  
(Page 1 of 1)

OPERATIONS SUPPORT CENTER ORGANIZATION



(\*) Denotes minimum staffing position(s) per NUREG 0654.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 14 of 57
-----	---	--

APPENDIX C  
(Page 1 of 4)

## OSC MANAGER

### INITIAL OSC ACTIVATION CHECKLIST

Date: \_\_\_\_\_

Initis/Time

\_\_\_/\_\_\_

**ENTER** keycard into the Accountability Badge Reader.

\_\_\_/\_\_\_

**SIGN** in OSC on the staffing chart and put on position badge.

\_\_\_/\_\_\_

**SIGN** the OSC Roster. (Appendix U)

\_\_\_/\_\_\_

**ESTABLISH** a log of activities and communications.

\_\_\_/\_\_\_

**CALL** the SED in the TSC and **OBTAIN** an update of emergency conditions.

\_\_\_/\_\_\_

**RELOCATE** to OSC Alternate location (Main Office Building Team Conference room) if OSC is not habitable.

**NOTE:** The location of the Alternate OSC/RADCON Lab will depend on inplant radiological conditions. The TSC RADCON Manager, after consultation with the SED, will make the decision on location transfer. Possible locations that will be considered are the **Alternate** OSC in the Main Office Building and the **Relay Room** 755' level next to the Control Room and the TSC or the WBN Training Center.<sup>4</sup>

\_\_\_/\_\_\_

**ENSURE** minimum staffing requirements for the OSC are met.

- \_\_\_ OSC Manager
- \_\_\_ RADCON Supervisor (onshift)
- \_\_\_ Mechanical Maintenance Supervisor or Briefer
- \_\_\_ Electrical Maintenance Supervisor or Briefer
- \_\_\_ I&C Maintenance Supervisor or Briefer

\_\_\_/\_\_\_

**ENSURE** OSC support personnel are notified as needed. This includes anyone who is needed to mitigate the incident. SED can authorize personnel onsite who have not been REP trained.

\_\_\_/\_\_\_

**BRIEF** OSC on personnel, radiological and plant conditions and expected actions. Use Appendix D as a guide.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 15 of 57
-----	---	--

APPENDIX C  
(Page 2 of 4)

## OSC MANAGER

### INITIAL OSC ACTIVATION CHECKLIST

- \_\_\_/\_\_\_ **BRIEF** the OSC regarding the OSC and initial information.
- \_\_\_/\_\_\_ **INFORM** the TSC of encountered plant conditions and the status of any emergency actions already in progress.
- \_\_\_/\_\_\_ **CONFIRM** that the OSC is staffed with qualified personnel and operational.  
(Will be up to discretion of OSC Manager. Minimum staffing positions must be met.)
- \_\_\_/\_\_\_ **INFORM** the SED that the OSC is operational.
- \_\_\_/\_\_\_ **REQUIRE** OSC personnel to use WBN EPIP-7 checklists to perform their assigned duties.
- \_\_\_/\_\_\_ **DETERMINE** the location and function of persons/teams currently and previously tasked by the TSC/Main Control Room and ensure assignment of Team Tracking Letters.
- \_\_\_/\_\_\_ **ESTABLISH** shift rotations to fill the OSC positions IF duration is expected to exceed 12 hours.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 16 of 57
-----	---	--

APPENDIX C  
(Page 3 of 4)

## **OSC MANAGER**

### OPERATIONAL RESPONSIBILITIES

- Demonstrate command and control of the OSC throughout the emergency.
- Brief the OSC staff on current conditions, as needed.
- Update the SED and TSC Maintenance Manager as needed.
- Authorize OSC personnel to form emergency response teams.
- Direct the dispatching of emergency response teams (Medical Emergency Response Teams, emergency repair teams, search and rescue teams, fire protection teams, Post Accident Sampling Teams, radiological monitoring teams, damage assessment teams, and others as necessary.)
- Brief, track and coordinate Emergency Response teams which are being dispatched by the Control Room.
- Ensure that team activities are continually prioritized and synchronized with the TSC.
- Coordinate with the SED, TSC RADCON Manager, and OSC RADCON Supervisor authorizing exposures in excess of occupational limits. (Use WBN EPIP-15).
- Coordinates maintenance teams and ensures they have received proper briefings and are all accompanied by a Radcon Technician (as necessary).

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 17 of 57
-----	---	--

APPENDIX C  
(Page 4 of 4)

## **OSC MANAGER**

### OPERATIONAL RESPONSIBILITIES

- Coordinate with the SED, TSC RADCON Manager, and OSC RADCON Supervisor in the issuance of KI. (Use WBN EPIP-14).
- Provide supplemental staffing for the OSC as needed.
- Initiate long-term 24 hour/day operation.
- Relocate the OSC as habitability conditions dictate.
- Deactivate the OSC when directed by the SED.  
(Ensure that all assigned tasks have been completed or terminated as needed, and all emergency response teams have been properly debriefed.)
- Review OSC records to ensure completeness and accuracy prior to collection by the WBN Emergency Preparedness Manager.
- Maintain log of communications and activities.
- Provide adequate turnover when a shift change occurs.

### DEACTIVATION RESPONSIBILITIES

- Terminate in accordance with WBN EPIP-13, "Termination of the Emergency and Recovery."
- Ensures all teams are accounted for and properly debriefed.
- Ensures all logs and team briefing forms are completed and signed.
- Assists in forming re-entry and recovery plans.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 18 of 57
-----	---	--

## APPENDIX D

(Page 1 of 2)

### **OSC MANAGER BRIEFING OUTLINE**

The following may be used as a guide for OSC Manager briefings:

1. "This is a real emergency. This is a real emergency." **OR**  
"This is a drill. This is a drill. We need to treat this exercise as if it were a real emergency."
2. "This is \_\_\_\_\_. I am the OSC Manager."  
"The OSC was activated at \_\_\_\_\_ hours."  
"The TSC (is/is not) activated. \_\_\_\_\_ is the Site Emergency Director."
3. "The following is a summary of conditions at this time:

#### Emergency Classification:

Date \_\_\_\_\_ Time Updated \_\_\_\_\_ PZR Level \_\_\_\_\_  
 \_\_\_\_\_ Notification of Unusual Event RCS Pres. \_\_\_\_\_ ESF STATUS \_\_\_\_\_  
 \_\_\_\_\_ Alert RCS Temp. \_\_\_\_\_  
 \_\_\_\_\_ Site Area Emergency  
 \_\_\_\_\_ General Emergency

#### Event Description: \_\_\_\_\_

Status--Unit 1 \_\_\_\_\_

Status--Unit 2 \_\_\_\_\_

Time Event Started: \_\_\_\_\_

#### Primary Plant Condition: \_\_\_\_\_

Mode: 1 2 3 4 5 6

(circle one)

Electrical Lineup: \_\_\_\_\_

#### Description of any abnormal lineup

YES	NO	YES	NO	YES	NO	YES	NO	YES	NO
DG1A Operating?	DG2A Operating?	DG1B Operating?	DG2B Operating?	Offsite Pwr Avail.?					

#### Major Mechanical Problems: \_\_\_\_\_

Major Electrical Problems: \_\_\_\_\_

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 19 of 57
-----	---	--

APPENDIX D  
(Page 2 of 2)

## ***OSC MANAGER BRIEFING OUTLINE***

4. "We are analyzing the work that was in progress at the time of the incident to determine if work should be continued, escalated, postponed or discontinued."
5. "Our plan of action at this time is to \_\_\_\_\_."
6. "Please maintain an orderly atmosphere in the OSC. Listen to briefings and make information flow to the appropriate organizations."
7. "The status of Emergency Response teams in the field is \_\_\_\_\_:  
(Examples: Fire, Medical, damages, repairs. . . . ) More information will be provided as it becomes available."
8. "This is a real emergency. This is a real emergency." **OR**  
"This is a drill. This is a drill."

Recorded by: \_\_\_\_\_

Time: \_\_\_\_\_

Date: \_\_\_\_\_

Major Instrument and \_\_\_\_\_  
Control Problems: \_\_\_\_\_

Environmental Problems High Rad Areas: \_\_\_\_\_

Toxic Gas: \_\_\_\_\_

High Press. Steam: \_\_\_\_\_

Other: \_\_\_\_\_

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 20 of 57
-----	---	--

APPENDIX E  
(Page 1 of 3)

## ***ASSISTANT OSC MANAGER***

### **INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time:

\_\_\_/\_\_\_

**ENTER** keycard into the Accountability Badge Reader.

\_\_\_/\_\_\_

**SIGN** OSC Staffing Chart and PUT ON position badge.

\_\_\_/\_\_\_

**SIGN** the OSC Roster (Appendix U).

\_\_\_/\_\_\_

**ENSURE** Plant Status Board is initially completed.

\_\_\_/\_\_\_

**ESTABLISH** logbook and communications.

\_\_\_/\_\_\_

**ENSURE** that qualified (properly trained) OSC personnel are "signed-in" on the OSC Staffing Chart and the OSC Roster.

\_\_\_/\_\_\_

**REQUEST** checklist completion status from OSC personnel. (Checklists are not optional.)

\_\_\_/\_\_\_

**CONTACT** the following non-pager carrying OSC Support personnel:

1. OSC Clerk/Logkeeper
2. Communications Support (as needed)
3. Computer Support (as needed)



WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 21 of 57
-----	---	--

APPENDIX E  
(Page 2 of 3)

***ASSISTANT OSC MANAGER***

**OPERATIONAL RESPONSIBILITIES**

- Assist the OSC Manager in providing direction and control in the OSC.
- Maintain communications with the TSC.
- Oversee the operations of the OSC Teams and coordinate supporting activities.
- Assign TSC developed task(s) to the team briefer(s) and ensure emergency teams are properly briefed using Appendix F, OSC Team Briefing/Debriefing Form.
- Authorize the dispatching of emergency response teams (includes signing briefing form, Appendix F).
- Ensure emergency teams are properly debriefed, in a timely manner, using Appendix F, OSC Team Briefing/Debriefing Form.
- Ensure the Plant Status Board, Emergency Response Team Tracking Boards, and OSC Staffing Chart are kept current.
- Coordinate with OSC RADCON Supervisor and Operations Advisor as needed regarding OSC Team activities (determine if teams need RADCON or Operations support).
- Authorize issuance of equipment and document issuance as necessary.
- Assist in authorizing emergency exposures and the issuance of KI for emergency response teams.
- Maintain log of communications and activities.
- Provide adequate turnover when a shift change occurs.
- Assist the OSC Manager in coordinating shift changes and 24 hour/day OSC operations as needed.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 22 of 57
-----	---	--

APPENDIX E  
(Page 3 of 3)

***ASSISTANT OSC MANAGER***

**DEACTIVATION RESPONSIBILITIES**

- Ensures all teams are accounted for.
- Ensures all logs and team briefing forms are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.
- Assists in forming re-entry and recovery plans.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 23 of 57
-----	---	--

# APPENDIX F

(Page 1 of 2)

## WATTS BAR NUCLEAR PLANT OSC TEAM BRIEFING/DEBRIEFING FORM

<b>TEAM:</b>  Assistant OSC Mgr / init/time	<b>Task Description:</b> Describe problem or task, drawings, known facts, precautions, etc. <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <b>Task Location</b> _____ <input type="checkbox"/> Inform OSC Manager of Team Request From TSC <input type="checkbox"/> Assign to Briefing Team: Lead Briefer: _____ <input type="checkbox"/> Heads-up to Briefer(s): <input type="checkbox"/> Ops <input type="checkbox"/> RADCON <input type="checkbox"/> Safety <input type="checkbox"/> Other <input type="checkbox"/> Enter Team Information on OSC Team Tracking Board																																								
<b>Lead Briefer</b> / init/time	<table border="0"> <tr> <td><b>Task Team</b></td> <td><b>Members</b></td> <td><b>SSN</b></td> <td><b>Discipline</b> (IM, MM, etc.)</td> </tr> <tr> <td>Team Leader</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Operations</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>RADCON</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </table> <b>Briefing By:</b> Lead Briefer: Init _____ RADCON Init _____ <table border="0"> <tr> <td><input type="checkbox"/> Description of Problems</td> <td><input type="checkbox"/> Radiation Work Permit (RWP)</td> </tr> <tr> <td><input type="checkbox"/> Procedures to be Used</td> <td><input type="checkbox"/> RADCON Support</td> </tr> <tr> <td><input type="checkbox"/> Tools Needed</td> <td><input type="checkbox"/> Hazards Between OSC and Work Location</td> </tr> <tr> <td><input type="checkbox"/> Equipment Needed</td> <td><input type="checkbox"/> Route to/from Work Area</td> </tr> <tr> <td><input type="checkbox"/> Clearance Required (Hold Orders)</td> <td><input type="checkbox"/> Contact Briefer prior to returning from field</td> </tr> <tr> <td><input type="checkbox"/> Ops Support</td> <td><input type="checkbox"/> List (Read) debriefing questions to be asked</td> </tr> <tr> <td><input type="checkbox"/> Safety Evaluation of Job</td> <td><input type="checkbox"/> Copy of Briefing Form given to team with Tele #s</td> </tr> <tr> <td><input type="checkbox"/> Key(s) needed for job</td> <td></td> </tr> </table> <input type="checkbox"/> Maintain routine contact with team while in the field. <b>Method of</b> _____ <b>TSC Results Hotline (x8611)</b> _____ <b>Messenger</b> <b>Communication:</b> _____ <b>Pager #</b> _____ <b>Phone #</b> _____ _____ <b>Radio (Channel: )</b> <b>Radio Sensitive Area?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <div style="text-align: right;">(BP-364)</div>	<b>Task Team</b>	<b>Members</b>	<b>SSN</b>	<b>Discipline</b> (IM, MM, etc.)	Team Leader	_____	_____	_____		_____	_____	_____		_____	_____	_____	Operations	_____	_____	_____	RADCON	_____	_____	_____	<input type="checkbox"/> Description of Problems	<input type="checkbox"/> Radiation Work Permit (RWP)	<input type="checkbox"/> Procedures to be Used	<input type="checkbox"/> RADCON Support	<input type="checkbox"/> Tools Needed	<input type="checkbox"/> Hazards Between OSC and Work Location	<input type="checkbox"/> Equipment Needed	<input type="checkbox"/> Route to/from Work Area	<input type="checkbox"/> Clearance Required (Hold Orders)	<input type="checkbox"/> Contact Briefer prior to returning from field	<input type="checkbox"/> Ops Support	<input type="checkbox"/> List (Read) debriefing questions to be asked	<input type="checkbox"/> Safety Evaluation of Job	<input type="checkbox"/> Copy of Briefing Form given to team with Tele #s	<input type="checkbox"/> Key(s) needed for job	
<b>Task Team</b>	<b>Members</b>	<b>SSN</b>	<b>Discipline</b> (IM, MM, etc.)																																						
Team Leader	_____	_____	_____																																						
	_____	_____	_____																																						
	_____	_____	_____																																						
Operations	_____	_____	_____																																						
RADCON	_____	_____	_____																																						
<input type="checkbox"/> Description of Problems	<input type="checkbox"/> Radiation Work Permit (RWP)																																								
<input type="checkbox"/> Procedures to be Used	<input type="checkbox"/> RADCON Support																																								
<input type="checkbox"/> Tools Needed	<input type="checkbox"/> Hazards Between OSC and Work Location																																								
<input type="checkbox"/> Equipment Needed	<input type="checkbox"/> Route to/from Work Area																																								
<input type="checkbox"/> Clearance Required (Hold Orders)	<input type="checkbox"/> Contact Briefer prior to returning from field																																								
<input type="checkbox"/> Ops Support	<input type="checkbox"/> List (Read) debriefing questions to be asked																																								
<input type="checkbox"/> Safety Evaluation of Job	<input type="checkbox"/> Copy of Briefing Form given to team with Tele #s																																								
<input type="checkbox"/> Key(s) needed for job																																									
<b>RADCON</b> / init/time	<b>RADCON Requirements:</b> RWP Required: <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, RWP # _____ SCBA _____ Respirator _____ Dressout _____ Other _____ Emerg Exposure Apprl. (EPIP-15 by SED) Yes <input type="checkbox"/> ( _____ REM) No <input type="checkbox"/> N/A _____ KI Approval (By TSC RADCON Manager or designee) Yes <input type="checkbox"/> No <input type="checkbox"/> N/A _____																																								
<b>OSC Mgr</b> / init/time	<b>FINAL APPROVAL to release team</b> <input type="checkbox"/> Team Necessary <input type="checkbox"/> Radiological Conditions have not changed since briefing <input type="checkbox"/> Announce to OSC areas: "Is there any reason that we should not dispatch this team at this time?"																																								



WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 25 of 57
-----	---	--

APPENDIX G  
(Page 1 of 3)

***OSC RADCON SUPERVISOR***

INITIAL OSC ACTIVATION CHECKLIST

Date: \_\_\_\_\_

Initis/Time

\_\_\_/\_\_\_

**ENTER** keycard into the Accountability Badge Reader.

\_\_\_/\_\_\_

**SIGN** in on the OSC Staffing Chart and PUT ON position badge.

\_\_\_/\_\_\_

**SIGN** the OSC Roster. (Appendix U)

\_\_\_/\_\_\_

**ESTABLISH** a log of communications and activities.

\_\_\_/\_\_\_

**ESTABLISH** communications with the TSC RADCON Manager.

\_\_\_/\_\_\_

**ESTABLISH** communications with the RADCON Lab Supervisor.

\_\_\_/\_\_\_

**ENSURE** adequate RADCON staffing available for emergency response (dosimetry support, RWP support, boardwriter, clerical).

\_\_\_/\_\_\_

**CONTROL** eating and drinking in the OSC until habitability has been established.

\_\_\_/\_\_\_

**ENSURE** habitability surveys are current for the OSC areas, TSC, and Control Room and assembly areas as listed in WBN EPIP-8.

\_\_\_/\_\_\_

**ASSIGN** HIS-20 computer operator.

\_\_\_/\_\_\_

**ENSURE** that RADCON Techs are called in from home to provide staffing as required by WBN EPIP-14.

\_\_\_/\_\_\_

**LOCATE** all RADCON persons/teams currently and previously tasked and ensure they are tracked on the Emergency Response Teams Board.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 26 of 57
-----	---	--

APPENDIX G  
(Page 2 of 3)

## ***OSC RADCON SUPERVISOR***

### **OPERATIONAL RESPONSIBILITIES**

- Provide and coordinate RADCON resources as necessary.
- Provide direction to the RADCON Lab.
- Ensure RADCON Teams are dispatched through the OSC. (Tracked on Emergency Response Teams Board.)
- Ensure emergency response teams have adequate RADCON/dosimetry coverage.
- Brief the OSC Manager and OSC Staff of radiological conditions as needed.
- Provide immediate radiological information to OSC staff as conditions change.
- Brief the TSC RADCON Manager of the RADCON resources and radiological conditions as needed.
- Ensure "Environmental Problems" segment of Plant Status Board is correct.
- Ensure that all predressed OSC staging area teams are issued proper dosimetry and have been evaluated for radiological access.
- Provide assistance to the OSC Manager as needed.
- Periodically check habitability of TSC, OSC, and Control Room, if radiological conditions warrant.
- Administer KI to emergency response teams according to WBN EPIP-14. (Forward Potassium Iodine Issue Report, to the TSC RADCON Manager.)
- Maintain log of communications and activities.
- Provide adequate turnover when a shift change occurs.
- Log-on to Integrated Computer System (ICS).

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 27 of 57
-----	---	--

APPENDIX G  
(Page 3 of 3)

***OSC RADCON SUPERVISOR***

**DEACTIVATION RESPONSIBILITIES**

- Ensures all teams are accounted for and properly debriefed.
- Ensures all logs and team briefing forms are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.
- Assists in forming re-entry and recovery plans.
- Ensures outlining emergency response groups (i.e., line crews, warehouse) have dosimetry and are being protected throughout the emergency.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 28 of 57
-----	---	--

**APPENDIX H**  
**(Page 1 of 4)**

***OSC RADCON BRIEFER***

**INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time

\_\_\_/\_\_\_

**ENTER** keycard into the Accountability Badge Reader.

\_\_\_/\_\_\_

**SIGN** in OSC on the Staffing Chart.

\_\_\_/\_\_\_

**SIGN** the OSC Roster. (Appendix U)

\_\_\_/\_\_\_

**ESTABLISH** a log of communications and activities.

\_\_\_/\_\_\_

**NOTIFY** the OSC RADCON Supervisor of arrival.

\_\_\_/\_\_\_

**ACCESS** RADCON Party Line (4103) as necessary.

\_\_\_/\_\_\_

**ENSURE** that personnel reporting to the OSC teams staging area are briefed as time allows using page 3 of 4 of Appendix H as an orientation for responders.



WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 29 of 57
-----	---	--

**APPENDIX H**  
**(Page 2 of 4)**

***OSC RADCON BRIEFER***

**OPERATIONAL RESPONSIBILITIES**

- Provide radiological technical assistance to the Briefing Teams.
- Provide radiological conditions analysis of the job assigned to the emergency response teams.
- Assist with portions of the OSC Team Briefings.
- Complete applicable portions of Appendix F, the OSC Team Tracking/Briefing/Debriefing Form.
- Ensure radiological data is collected and reported back to the OSC in an expeditious manner for planning and prioritizing further emergency response activities.
- Ensure TLDs are collected and processed from returning team members.
- Assist in the administration of KI according to WBN-EPIP 14.
- Maintain log of communications and activities.
- Provide adequate turnover when a shift change occurs.
- Ensures that the radiological information on the OSC status board is accurate.
- Ensures that personnel reporting to the OSC Teams Staging Area are briefed as time allows using page 3 of 4 of Appendix H as an orientation for responders.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 30 of 57
-----	---	--

**APPENDIX H**  
**(Page 3 of 4)**

***OSC RADCON BRIEFER***

**EMERGENCY RESPONSE TEAMS STAGING AREA ORIENTATION**

(RADCON will brief responders as conditions allow on the contents of this list.)

- Stay continuously aware of REP status and in plant conditions.
- Plan contingencies when assigned a team (anticipate needs and hazards) prior to entering accident area.
- Communicate with briefers on a regular basis. Be aware of radio dead spots in the Plant (e.g., El. 676, RHR pump rooms). Perform functional check of radio and equipment prior to entering Auxiliary Building or accident area. Use repeat-backs for effective transfer of information. BP-364 lists radio sensitive areas of the plant.
- Perform applicable pathway surveys to and from work location.
- Relay data promptly and frequently to the OSC! This information is critical in assessing plant conditions and protection of personnel. Consideration should be given to designating a runner to telephone data if necessary.
- If on pathway the team encounters a field of >1000 mrem/HR advise the OSC.
- If when arriving to destination team encounters a field of >1000 mrem/HR, return to lower dose area and advise OSC.
- Stay together as a team for accountability.
- In-plant conditions are dynamic, OSC will continually advise the team of any changes while in the field.
- If for some reason the scope of the job changes while in the field, notify the OSC.
- Note any unusual plant conditions (frisker increases, liquid leaks, poor visibility, etc.), advise OSC.
- Use appropriate techniques to reduce exposure and maximize safety.
- When in the field, use available supplies in RADCON cabinets if needed.
- Contact RADCON briefer upon completion of task.
- Primary accident condition RWPS are available; please familiarize yourself with them, RADCON will brief the team on the RWP.
- If possible, keep a written log of team activities while in the field.
- Contact RADCON or OSC for return route in the event of change of event conditions, etc.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 31 of 57
-----	---	--

**APPENDIX H**  
**(Page 4 of 4)**

***OSC RADCON BRIEFER***

**DEACTIVATION RESPONSIBILITIES**

- Ensures all teams are accounted for and properly debriefed.
- Ensures all logs and team briefing forms are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.
- Assists in forming re-entry and recovery plans.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 32 of 57
-----	---	--

**Appendix I  
(Page 1 of 2)**

## ***OSC OPERATIONS ADVISOR***

### **INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time

\_\_\_/\_\_\_

**ENTER** into the Accountability Badge Reader.

\_\_\_/\_\_\_

**SIGN** in on the OSC Staffing Chart.

\_\_\_/\_\_\_

**SIGN** the OSC Roster. (Appendix U)

\_\_\_/\_\_\_

**ESTABLISH** a log of activities and communications.

\_\_\_/\_\_\_

**ESTABLISH** communications with the TSC Operations Manager for updates and to obtain Operations support.

\_\_\_/\_\_\_

**CALL-IN** AUOs\Operations personnel from offshift to support OSC activities (Minimum of 3 AUOs is usually needed in the OSC).

\_\_\_/\_\_\_

**ESTABLISH** communications with the Control Room Communicator via the Control Room party-line.

\_\_\_/\_\_\_

**LOG ON** to Integrated Computer System (ICS) terminal.

\_\_\_/\_\_\_

**ANNOUNCE** on the portable radio: "AUO's report to the OSC." (repeat)

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 33 of 57
-----	---	--

**Appendix I**  
**(Page 2 of 2)**

## ***OSC OPERATIONS ADVISOR CHECKLIST***

### **OPERATIONAL RESPONSIBILITIES**

- Direct AUO's to maintain a log, and listen to the Operations Party Line to remain current on Plant Status.
- Provide plant operations advice to support the OSC Manager.
- Provide Operational advice to support the entire OSC, including Briefing Teams as needed. (Additional AUOs can be used to assist in briefing teams.)
- Provide personnel for any operations actions that may be required while in the field.
- Keep the TSC Operations Manager, and Operations Communicator appraised of the OSC Team activities while in the field.
- Operate ICS terminal in the OSC as needed.
- Ensure the OSC Plant Status Board is correct.
- Maintain log of communications and activities.
- Provide adequate turnover when a shift change occurs.

### **DEACTIVATION RESPONSIBILITIES**

- Ensures all teams are accounted for and properly debriefed.
- Ensures all logs and team briefing forms are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.
- Assists in forming re-entry and recovery plans.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 34 of 57
-----	---	--

**APPENDIX J**  
**(Page 1 of 2)**

***OSC FIRE PROTECTION ADVISOR***

**INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time

\_\_\_/\_\_\_ **ENTER** keycard into the Accountability Badge Reader.

\_\_\_/\_\_\_ **SIGN** in on the OSC Staffing Chart.

\_\_\_/\_\_\_ **SIGN** OSC Roster. (Appendix U)

\_\_\_/\_\_\_ **ESTABLISH** a log of activities and communications.

\_\_\_/\_\_\_ **ESTABLISH** communications with the Fire Operations Unit or the Fire Station to provide plant status updates.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 35 of 57
-----	---	--

**APPENDIX J**  
**(Page 2 of 2)**

***OSC FIRE PROTECTION ADVISOR***

**OPERATIONAL RESPONSIBILITIES**

- Monitor plant status and fire response.
- Support WBN-EPIP-10, Medical Emergency Response, as needed.
- Initiate and provide first response for hazardous material containment.
- Initiate personnel search and rescue in hazardous areas.
- Maintain log of communications and activities.
- Provide adequate turnover when a shift change occurs.

**DEACTIVATION RESPONSIBILITIES**

- Ensures all teams are accounted for and properly debriefed.
- Ensures all logs and team briefing forms are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.
- Assists in forming re-entry and recovery plans.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 36 of 57
-----	---	--

**APPENDIX K**  
**(Page 1 of 2)**

***OSC CHEMISTRY ADVISOR***

**INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time

\_\_\_\_/\_\_\_\_

**ENTER** keycard into the Accountability Badge Reader.

\_\_\_\_/\_\_\_\_

**SIGN** in on the OSC Staffing Chart.

\_\_\_\_/\_\_\_\_

**SIGN** OSC Roster. (Appendix U)

\_\_\_\_/\_\_\_\_

**ESTABLISH** a log of activities and communications.

\_\_\_\_/\_\_\_\_

**ESTABLISH** communications with the TSC Chemistry Manager.

\_\_\_\_/\_\_\_\_

**ESTABLISH** communications with Chemistry Lab staff.

\_\_\_\_/\_\_\_\_

**CALL** the assigned Chemistry Engineer to support OSC operations.



WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 37 of 57
-----	---	--

**APPENDIX K**  
**(Page 2 of 2)**

***OSC CHEMISTRY ADVISOR***

**OPERATIONAL RESPONSIBILITIES**

- Provide and coordinate Chemistry personnel needed to support the OSC.
- Provide Chemistry technical content in emergency team briefings as necessary.
- Dispatch the Post-Accident Sampling (PAS) team as directed by the TSC.
- Maintain a communications link with the TSC Chemistry Manager.
- Maintain log of communications and activities.
- Provide adequate turnover when a shift change occurs.
- Provide/assist in obtaining Release/Pathway information as needed.
- Provide Chemistry data (primary and secondary) of initiating conditions and provide ongoing Chemistry information.

**DEACTIVATION RESPONSIBILITIES**

- Ensures all teams are accounted for and properly debriefed.
- Ensures all logs and team briefing forms are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.
- Assists in forming re-entry and recovery plans.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 38 of 57
-----	---	--

**APPENDIX L**  
**(Page 1 of 3)**

***OSC CLERK***

**INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time

\_\_\_/\_\_\_ **ENTER** keycard into the Accountability Badge Reader.

\_\_\_/\_\_\_ **SIGN** in on the OSC Staffing Chart.

\_\_\_/\_\_\_ **SIGN** the OSC Roster. (Appendix U)

\_\_\_/\_\_\_ **ESTABLISH** a log of activities and communications.

\_\_\_/\_\_\_ **NOTIFY** other staff to report to the OSC as determined by the OSC Manager.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 39 of 57
-----	---	--

**APPENDIX L**  
**(Page 2 of 3)**

***OSC CLERK***

**OPERATIONAL RESPONSIBILITIES**

- Ensure the OSC Status Boards are continuously updated to reflect current plant conditions.
- Ensure OSC responders have signed the OSC roster.
- Ensure a log is maintained of all important OSC activities.
- In the event of a Site Wide Evacuation, notify the OSC RADCON Supervisor that this is a non-radiation worker position.
- Collect and maintain all original copies of OSC generated records.
- Provide records to the WBN Emergency Preparedness (EP) Manager when the OSC is deactivated.
- Maintain log of communications and activities.
- Provide OSC team status reports to the control room on a periodic basis.
- Provide adequate turnover when a shift change occurs, and utilizes Appendix V to activate additional OSC responders.
- Assist OSC responders in obtaining their TLDs.

**DEACTIVATION RESPONSIBILITIES**

- Ensures all teams are accounted for and properly debriefed.
- Ensures all logs and team briefing forms are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.
- Assists in forming re-entry and recovery plans.

**APPENDIX L**  
**(Page 3 of 3)**

FROM: \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

**FAX to the SM (8463) and TSC (8365)  
(For drills FAX to the SM/simulator at x8363).**

[illegible]

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 41 of 57
-----	---	--

**APPENDIX M**  
**(Page 1 of 2)**

***OSC BRIEFING TEAM***

**INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Inits/Time

- \_\_\_\_/\_\_\_\_ **ENTER** keycard into the Accountability Badge Reader.
- \_\_\_\_/\_\_\_\_ **SIGN** in on the OSC Staffing Chart.
- \_\_\_\_/\_\_\_\_ **SIGN** the OSC Roster. (Appendix U)
- \_\_\_\_/\_\_\_\_ **ESTABLISH** a log of communications and activities.
- \_\_\_\_/\_\_\_\_ **REPORT** any conditions in the plant which may be related to the emergency condition.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 42 of 57
-----	---	--

**APPENDIX M**  
**(Page 2 of 2)**

***OSC BRIEFING TEAM***

**OPERATIONAL RESPONSIBILITIES**

- Provide Mechanical, Electrical, and Instrument technical expertise.
- Notify Mechanical, Electrical, Instrument Foremen to report with crews to the OSC Staging Area.
- Evaluate job conditions (including RADCON, Fire Operations, and Operational aspects of the task) and analyze the necessary precautions and methods best suited to safe performance of the task.
- Brief the OSC Teams based on the analysis of the job.
- Track, communicate and monitor safety of the OSC Teams while in the field.
- Debrief the OSC Teams after completion of the task.
- Complete applicable portions of Appendix F, OSC Team Briefing/Debriefing Form.
- Operates Curator computer as needed to provide OSC team briefing information.
- Maintain log of communications and activities.
- Provide adequate turnover when a shift change occurs.

**DEACTIVATION RESPONSIBILITIES**

- Ensures all teams are accounted for and properly debriefed.
- Ensures all logs and team briefing forms are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 43 of 57
-----	---	--

**APPENDIX N**  
**(Page 1 of 2)**

***OSC INDUSTRIAL SAFETY ADVISOR***

**INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time

\_\_\_\_/\_\_\_\_

**ENTER** keycard into the accountability card reader.

\_\_\_\_/\_\_\_\_

**SIGN** the OSC Staffing Chart.

\_\_\_\_/\_\_\_\_

**SIGN** the OSC Roster. (Appendix U)

\_\_\_\_/\_\_\_\_

**ESTABLISH** a log of communications and activities.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 44 of 57
-----	---	--

**APPENDIX N**  
**(page 2 of 2)**

***OSC INDUSTRIAL SAFETY ADVISOR***

**OPERATIONAL RESPONSIBILITIES**

- Ensure the OSC Manager/OSC Staff are aware of safety hazards that could affect emergency response activities.
- Assist Briefing Teams in preparing applicable portions of Appendix F, OSC Team Tracking/Debriefing Form.
- Assist Briefing Teams in briefing process. Ensure teams have adequate safety apparel and equipment to complete emergency team assignments.
- Assist in obtaining/procuring adequate safety equipment.
- Assist in the team debriefing process as needed.
- Ensure safety hazard information obtained from returning teams flows back into the OSC in a timely expeditious manner. Incorporate significant information into the prioritizing and emergency team briefing process.
- Maintain log of communications and activities.
- Provide adequate turnover when a shift change occurs.

**DEACTIVATION RESPONSIBILITIES**

- Ensures all teams are accounted for and properly debriefed.
- Ensures all logs and team briefing forms are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.



WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 45 of 57
-----	---	--

**APPENDIX O**  
**(Page 1 of 1)**

***OSC NUCLEAR SECURITY ADVISOR***  
***INITIAL OSC ACTIVATION CHECKLIST***

Date: \_\_\_\_\_

Initi/Time

\_\_\_\_/\_\_\_\_ **ENTER** keycard into the Accountability Badge Reader. ➡

\_\_\_\_/\_\_\_\_ **SIGN** in on the OSC Staffing Chart.

\_\_\_\_/\_\_\_\_ **SIGN** the OSC Roster. (Appendix U)

\_\_\_\_/\_\_\_\_ **ESTABLISH** a log of communications and activities.

**OPERATIONAL RESPONSIBILITIES**

- Ensure the OSC Manager/OSC Staff are aware of security hazards that could affect emergency response activities.
- Provide assistance to briefing teams as needed.
- Ensure security provides expeditious emergency entries and exits for teams dispatched from the OSC.
- Ensure adequate staffing is available to support WBN EPIP-8, "Personnel Accountability and Evacuation," when implementing assembly and accountability or evacuations.
- Provide Security support for search and rescue operations and other necessary emergency response actions.
- Maintain log of communications and activities.
- Provide adequate turnover when a shift change occurs.

**DEACTIVATION RESPONSIBILITIES**

- Ensures all teams are accounted for and properly debriefed.
- Ensures all logs and team briefing forms are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 46 of 57
-----	---	--

**APPENDIX P**  
**(Page 1 of 3)**

***OSC TEAMS COORDINATOR***

**INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time

\_\_\_\_/\_\_\_\_

**ENTER** keycard into the Accountability Badge Reader.

\_\_\_\_/\_\_\_\_

**SIGN** in on the OSC Staffing Chart.

\_\_\_\_/\_\_\_\_

**SIGN** the OSC Roster. (Appendix U)

\_\_\_\_/\_\_\_\_

**ESTABLISH** a log of communications and activities.

\_\_\_\_/\_\_\_\_

**USE** Page 3 of 3 of this Appendix to organize an OSC Teams Staging Area.

\_\_\_\_/\_\_\_\_

**ENSURE** OSC tool kits have been moved from the Toolroom in the Maintenance Shop to the OSC Teams Staging Area.

\_\_\_\_/\_\_\_\_

**ENSURE** the following minimum number of personnel come to the prestaging area (these numbers are approximate depending on plant conditions):

4 Electrical Maintenance

6 Mechanical Maintenance

2 I&C Maintenance

3 AUOs from Main Control Room Kitchen (or from home)

**NOTE:** This is not a comprehensive list. The emergency may or may not require all of these positions to be prestaged. This is only a suggested list.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 47 of 57
-----	---	--

**APPENDIX P**  
**(Page 2 of 3)**

## ***OSC TEAMS COORDINATOR***

### **OPERATIONAL RESPONSIBILITIES**

- Maintain contact with Assistant OSC Manager.
- Manage the Emergency Response Team staging area by:
  1. Directing responders (potential OSC teams) to check-in with the HIS-20 Operator.
  2. Requiring all potential OSC team members to dress out.
  3. Prepare emergency responders to be dispatched.
- Ensure that OSC briefers know who is available in the OSC Teams Staging Area by periodically distributing lists of personnel awaiting assignments.
- Ensure that every team is debriefed upon returning.

### **DEACTIVATION RESPONSIBILITIES**

- Ensures all teams are accounted for and properly debriefed.
- Ensures all logs and team briefing forms are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.

MMG RLAs	MEG FOPs	MIG AUOs	FIN RCTs
-------------	-------------	-------------	-------------

[illegible]

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 49 of 57
-----	---	--

**APPENDIX Q**  
**(Page 1 of 1)**

## ***OSC NUCLEAR STORES COORDINATOR***

### **INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time

\_\_\_\_/\_\_\_\_

**ENTER** keycard into the Accountability Badge Reader.

\_\_\_\_/\_\_\_\_

**SIGN** in on the OSC Staffing Chart.

\_\_\_\_/\_\_\_\_

**SIGN** OSC Roster. (Appendix U)

\_\_\_\_/\_\_\_\_

**ESTABLISH** a log of communications and activities.

### **OPERATIONAL RESPONSIBILITIES**

- Provides coordination between Power Stores and the OSC.
- Provides materials as expeditiously as possible for emergency response activities.
- Operates mainframe computer to determine materials availability.

### **DEACTIVATION RESPONSIBILITIES**

- Ensures all records (anything written down during the OSC activation) are completed and signed.
- Leave all papers at your station which will be collected and properly stored by WBN Emergency Preparedness.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 50 of 57
-----	---	--

**APPENDIX R**  
**(Page 1 of 2)**

***WORK CONTROL BOARDWRITER***

**INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time

\_\_\_\_/\_\_\_\_

**ENTER** keycard into the Accountability Badge Reader.

\_\_\_\_/\_\_\_\_

**SIGN** in on the OSC Staffing Chart.

\_\_\_\_/\_\_\_\_

**SIGN** the OSC Roster. (Appendix U)

\_\_\_\_/\_\_\_\_

**ESTABLISH** a log of communications and activities.

\_\_\_\_/\_\_\_\_

**PROVIDE** a status of current work control plant activities to the OSC for immediate analysis to:

- Determine if any ongoing work is related to the emergency.
- Determine if current jobs should be continued, expedited or stopped.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 51 of 57
-----	---	--

**APPENDIX R**  
**(Page 2 of 2)**

***WORK CONTROL BOARDWRITER***

**OPERATIONAL RESPONSIBILITIES**

- Maintain contact on control room party line on x4102.
- Maintain OSC status boards.

**DEACTIVATION RESPONSIBILITIES**

- Ensures all records (anything written down during the OSC activation) are complete and signed.
- Leave all papers at work station which will be collected and properly stored by WBN Emergency Preparedness.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 52 of 57
-----	---	--

**APPENDIX S**  
**(Page 1 of 2)**

***RADCON BOARDWRITER***

**INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time

\_\_\_\_/\_\_\_\_

**ENTER** keycard into the Accountability Badge Reader.

\_\_\_\_/\_\_\_\_

**SIGN** in on the OSC Staffing Chart.

\_\_\_\_/\_\_\_\_

**SIGN** the OSC Roster. (Appendix U)

\_\_\_\_/\_\_\_\_

**ESTABLISH** a log of communications and activities.

\_\_\_\_/\_\_\_\_

**ESTABLISH** contact on the RADCON Party-line by dialing 4103.



WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 53 of 57
-----	---	--

**APPENDIX S**  
**(Page 2 of 2)**

***RADCON BOARDWRITER***

**OPERATIONAL RESPONSIBILITIES**

- Maintains the radiological status boards by providing a radiological sequence of events.
- Maintains copies of radiological status board as conditions change.
- Notifies the OSC RADCON Supervisor of changes in radiological conditions.
- Maintains contact on RADCON Party Line (4103).
- Maintains radiological status elevation maps to provide a clear status of radiological conditions at all times.
- Maintains a clear status of eating and drinking in the OSC areas on the Radiological Status Board.

**DEACTIVATION RESPONSIBILITIES**

- Ensures all records (anything written down during the OSC activation) are complete and signed.
- Leaves all papers at work station which will be collected and properly stored by WBN Emergency Preparedness.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 54 of 57
-----	---	--

**APPENDIX T**  
**(Page 1 of 1)**  
***DCRM COORDINATOR***

**INITIAL OSC ACTIVATION CHECKLIST**

Date: \_\_\_\_\_

Initis/Time

\_\_\_/\_\_\_

**ENTER** keycard into the Accountability Badge Reader.

\_\_\_/\_\_\_

**SIGN** in on the OSC Staffing Chart.

\_\_\_/\_\_\_

**SIGN** the OSC Roster (Appendix U).

\_\_\_/\_\_\_

**ENSURES** that current WBN EPIP-7 copies are available for all OSC responders.

\_\_\_/\_\_\_

**ESTABLISH** a log of communications and activities.

\_\_\_/\_\_\_

**ENSURE** OSC Manager has a controlled copy of the WBN-EIPs on his desk.

**OPERATIONAL RESPONSIBILITIES**

- Provides DCRM expertise as needed.
- Provides drawings, documents, vendors manuals as requested by OSC.
- In the event of a station flood, ensure that designated QA records located in the MDB vault are removed to the second floor of EQB.
- In the event of a Site Wide Evacuation, notify the OSC RADCON Supervisor that this is a non-radiation worker position.
- Assists in OSC logistics as requested.

**DEACTIVATION RESPONSIBILITIES**

- Ensures all records (anything written down during the OSC activation) are complete and signed.
- Leaves all papers at work station which will be collected and properly stored by WBN Emergency Preparedness.





WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 12 Page 57 of 57
-----	---	--

## SOURCE NOTES

Page 1 of 1

- 1 MC-840827005001, MSC-02371. Revise OSC procedure duties and responsibilities. See entire procedure with all appendices.
2. ANSI N18.7-1976  
Subsection 5.3.9.3: 01 POI Implementing procedures will include the following elements.
3. MSC-02853, NCO-920042521 Each site will have an OSC. Communications will be available to the TSC. The OSC will establish and maintain appropriate communications with any team that may enter the plant for assessment or repair.
4. WBPER 98016506 Alternate OSC locations.

# FILING INSTRUCTIONS

DOCUMENT NUMBER EP1 P-9

REMOVE REVISION 8 INSERT REVISION 9  
\_\_\_\_\_

Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**TENNESSEE VALLEY AUTHORITY**  
**WATTS BAR NUCLEAR PLANT**

**EMERGENCY PLAN IMPLEMENTING  
PROCEDURES**

**EPIP-9**

**LOSS OF METEOROLOGICAL DATA**

Revision 9

Unit 0

**QUALITY RELATED**

PREPARED BY: Benjamin McNew  
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 01/24/2001

LEVEL OF USE: REFERENCE

<b>WBN</b>	<b>LOSS OF METEOROLOGICAL DATA</b>	<b>EPIP-9 Revision 9 Page 2 of 9</b>
------------	--	--

**REVISION DESCRIPTION:**

Revision Number	Implementation Date	Description of Revision	
0	02/10/93	New Procedure	
1	08/16/93	Format (non-intent) and Editorial changes. Source notes added to the procedure.	
2	05/27/94	Changed User name and password on Appendix A.	
3	4/21/95	Editorial (non-intent) changes made. Phone numbers revised. Instructions revised (FRED) to enhance clarity. Source Note added to the procedure.	
Revision Number	Implementation Date	Pages Affected	Description of Revision
CN-1	9/28/95	4, 7	(Non-intent) , phone numbers revised (new area code).
4	7/5/96	3,4,7	Revised computer network method for acquiring MET data identified in Appendix B. New shift titles identified. This revision was evaluated to be non-intent
5	2/15/97	4,5,6,7,8	Non-intent editorial changes made. Typographical errors corrected. Added Records Section to the procedure. Revised location of MET Tower keys. Revised Knoxville computer access information to correspond to new screen instructions. Dose Assessment computer name revised to CECC computer
CN-1	2/2/98	2,4,5,8	Changed "Knoxville" to "Chattanooga"



<b>WBN</b>	<b>LOSS OF METEOROLOGICAL DATA</b>	<b>EPIP-9 Revision 9 Page 3 of 9</b>
------------	--	--

**REVISION DESCRIPTION (continued)**

<b>Revision Number</b>	<b>Implementation Date</b>	<b>Pages Affected</b>	<b>Description of Revision</b>
6	4/28/98	2,3,4,5	Revised Field Support team name. Deleted Knoxville MET computer contact and replaced it with SQN MCR source of information. Deleted use of Tower Strip Charts for ALARA/time constraint purposes.
7	2/28/99	All	Non-intent changes. Revised ERFDS to ICS.
8	10/21/99	All	Non-intent change. New alternate MET data screen replaced old screen in Appendix A. The new screen enhancement is for Operations and TSC personnel. Combined steps A & B for MET tower in-operability.
9	01/24/01	All Pg. 4 & 6	Plan effectiveness determinations reviews indicate the following revisions do not reduce the level of effectiveness of the procedure or REP: Revised ANSI/ANS reference. Non-intent change.

<b>WBN</b>	<b>LOSS OF METEOROLOGICAL DATA</b>	<b>EPIP-9 Revision 9 Page 4 of 9</b>
------------	--	--

## **1.0 PURPOSE<sup>2</sup>**

This Procedure provides instructions to ensure appropriate actions are taken by the Shift Manager (SM) for Main Control Room outages of onsite meteorological data.

## **2.0 RESPONSIBILITY<sup>1</sup>**

Daily meteorological channel checks are performed by the SM to verify operability. IF an outage is detected, the SM shall take necessary actions to check backup displays, track the outage, and to initiate repair request.

Emergency Planning (EP) Field Support is responsible for operating the meteorological data system and for making the data signal available to the plant.

## **3.0 INSTRUCTIONS<sup>1</sup>**

### **3.1 Background**

Requirements for onsite meteorological data are:

- A. The Offsite Dose Calculation Manual (ODCM) requires that two of three wind speed channels, two of three wind direction channels, and one of three air temperature differences be operable at all times to support estimation of routine and accident doses. A special report to the NRC is to be prepared for outages of more than seven (7) days.
- B. Emergency action level event (5.2 tornado) and protective action decision making of the Radiological Emergency Plan (REP) require use of meteorological data.
- C. R.G. 1.23 "Onsite Meteorological Programs" and ANSI/ANS Standard 3.11-2000 "Determining Meteorological Information at Nuclear Facilities" require a 90 percent annual joint data recovery rate of valid wind speed, wind direction and temperature difference.

<b>WBN</b>	<b>LOSS OF METEOROLOGICAL DATA</b>	<b>EPIP-9 Revision 9 Page 5 of 9</b>
------------	--	--

### 3.0 INSTRUCTIONS (continued)

#### 3.2 Met Tower Inoperability

- 3.2.1 **IF** Met data is unavailable in the Main Control Room or from the ICS Terminals in the TSC & OSC (METDATA), use the CECC computer terminal in the TSC to get Met Data from the MET Tower using Appendix A of this Procedure.

**NOTE 1:** I&C should be contacted to fix the problem with the ICS display.

- 3.2.2 **IF** the minimum required data (See background 3.1) is not available from these methods, declare the system inoperable and begin appropriate tracking. **NOTIFY** EP Field Support (normal business hours or next working day, whichever is applicable) at x8450.

- 3.2.3 **IF** specific Met data is still needed (i.e., WBN EPIP-1, emergency action levels), the remaining steps for obtaining data should be used in the following order:

- STEP A:**
- 1) Call the SQN Control Room (843-6211) and request the needed meteorological information.
  - 2) **THEN REQUEST** the Operations Duty Specialist (ODS) page the duty CECC Meteorologist. The CECC Meteorologist has backup procedures to estimate missing data using established relationships between onsite data and other sources of data.

**STEP B:** **CALL** the Morristown National Weather Service at 9-1-(423)-586-8400 and request the wind speed and wind direction.

**NOTE 2:** This information will be from the 10 meter elevation but is still usable.

#### 3.3 Met Tower Repair

- A. **AFTER** notification that the Met Tower outage is completed, **DOCUMENT** the closure of any tracking initiated.

<b>WBN</b>	<b>LOSS OF METEOROLOGICAL DATA</b>	<b>EPIP-9 Revision 9 Page 6 of 9</b>
------------	--	--

#### **4.0 REFERENCES**

- A. Watts Bar Nuclear Plant Offsite Dose Calculation Manual.
- B. Watts Bar Nuclear Plant Environmental Data Station Manual.
- C. Watts Bar Nuclear Plant Emergency Plan Implementing Procedure 1, "Emergency Planning Classification Flowchart."
- D. U.S.N.R.C. Regulatory Guide 1.23, "Onsite Meteorological Programs."
- E. American Nuclear Society Standard ANSI/ANS-3.11-2000, "Determining Meteorological Information at Nuclear Facilities."
- F. Meteorological Data Print Program Users Manual.
- G. Radiological Emergency Notification Directory (REND).
- H. Watts Bar Nuclear Plant Nowcast Manual, October 1991.
- I. ANSI N18.7-1976

#### **5.0 APPENDICES**

Appendix A - CECC Computer and Printer Use

#### **6.0 RECORDS**

- A. QA Records  
  
None.
- B. Non-QA Records

All original records/printouts generated during the course of a declared emergency or drill, will be sent to the EP Manager for retention.

<b>WBN</b>	<b>LOSS OF METEOROLOGICAL DATA</b>	<b>EPIP-9 Revision 9 Page 7 of 9</b>
------------	--	--

APPENDIX A  
(Page 1 of 2)

**TSC CECC COMPUTER AND PRINTER USE**

Note: If computer is already on, go to step (6)

1. **TURN ON** computer terminal (switch is located in front). ☐
2. **PRESS** "Data" button on telephone linked to terminal (8628). ☐
3. When the prompt "Destination" appears, **PRESS** the "Vax" button on telephone linked to terminal (8628). ☐
4. **PRESS** "Data" button on telephone linked to printer (8615). ☐
5. When the prompt "Destination" appears, **PRESS** the "Vax" button on telephone linked to printer. (8615) ☐
6. **DOUBLE PRESS** "Return" on terminal key board (repeat step if necessary). ☐
7. When the prompt "Username" is received, **TYPE** "WBMET" and **PRESS** "Return". ☐
8. When the prompt "Password" is received, **TYPE** "TSC" and **PRESS** "Return". (NOTE: The password will NOT be seen on the screen.) The printer will print the MET data and log off the computer. ☐
9. **Return** to step 6 for additional MET data when needed. ☐
10. **USE** met data printout for documentation. ☐

<b>WBN</b>	<b>LOSS OF METEOROLOGICAL DATA</b>	<b>EPIP-9 Revision 9 Page 8 of 9</b>
------------	--	--

APPENDIX A  
(Page 2 of 2)

EXAMPLE REPORT  
WATTS BAR NUCLEAR PLANT  
METEOROLOGICAL DATA

DATE: 4-OCT-99 TIME: 11:30:48 (Central)  
REF: 49 LOCATION: CECC COMPUTER

DESCRIPTION	INSTRMENT	TS LIMIT	DATE (Last 15 min)
WIND SPEED	10m Elevation	Operable and Channel Check	3.5 mph
	46m Elevation		5.4 mph
	91m Elevation		6.3 mph
WIND DIRECTION	10m Elevation		233.7 deg
	46m Elevation		222.4 deg
	91m Elevation		219.3 deg
AIR Delta T(1)	10 to 46m		-1.1 F(1)
	10 to 91m		-1.9 F(1)
	46 to 91m		-0.9 F(1)

- (1) To calculate Delta T, subtract the Lower elevation temperature value from the higher elevation temperature value (ex: (91m value) - (10m value)).

Performers Initials \_\_\_\_\_

SROs Initials \_\_\_\_\_

<b>WBN</b>	<b>LOSS OF METEOROLOGICAL DATA</b>	<b>EPIP-9 Revision 9 Page 9 of 9</b>
------------	--	--

**SOURCE NOTES**  
Page 1 of 1

- |   |   |   |
|---|---|---|
| 1 | ANSI N18.7-1976<br>Subsection 5.3.9.3: 01 POI | EIPs will include the following elements.   |
| 2 | NCO 920042341, MSC 04181                      | TVA will have backup procedures to provide MET DATA needed for dose calculations. |

# FILING INSTRUCTIONS

DOCUMENT NUMBER EP-12

REMOVE REVISION 14 INSERT REVISION 15

Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**TENNESSEE VALLEY AUTHORITY**

**WATTS BAR NUCLEAR PLANT**

**EMERGENCY PLAN IMPLEMENTING  
PROCEDURES**

**EPIP-12**

**EMERGENCY EQUIPMENT AND SUPPLIES**

Revision 15

Unit 0

**QUALITY RELATED**

PREPARED BY: Benjamin F. McNew, Jr.  
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 01/24/2001

LEVEL OF USE: REFERENCE

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 2 of 22</b>
------------	---	---

**REVISION DESCRIPTION:**

Revision Number	Effective Date	Pages Affected	Description of Revision
0	12/04/90		New WBN EPIP, Supersedes IP-17.
1	02/10/93		General Revision.
2	8/16/93		Editorial (non-intent) and format changes. Additional equipment/documents added to key inventory check offs. Non needed equipment/documents removed from inventory check offs. New location of SCBA equipment identified OSC Inventory revised to reflect the new facility. Source notes added to the procedure.
3	01/01/94		Added EOIs, AOIs, SOIs, Es, ECAs to Appendix G. Changed "Appendix" to "Attachment" on Appendix D to concur with CECC EPIP-9, and made some editorial changes.
4	04/11/94		Added specific numbers for required kits and spare bottles, deleted number of SCBAs required in RADCON Lab, corrected referenced procedure to O-FPS-510-SCBA, and change from Signature and Review Sheet to Required Emergency SCBA Inventory Sheet. These changes made to Appendix C and Section 4.2. Added OSC medical supplies cabinet to Appendix G. Added RCI-109 references to Appendix E. Added Section 2.2.4 to use PMI to check facility communications and equipment.
5	10/14/94		Inventory supplies revised to reflect current equipment and references maintained in the TSC, OSC, and RADCON Lab area. Decon supplies added to Appendix A.
CN-1	1/17/95		Source note referencing the PM communication test was added to the text.
6	2/23/95		Reference added. Non-intent format changes made. Additions to inventories in TSC and OSC added. OSC staging area equipment identified.
CN-1	4/1/95		Source note referencing Operator protective clothing.
7	7/21/95	6,10,12,13, 14,17	Minor editorial changes (all non-intent) made to the procedure. Athens Hospital name revised. Locations of MCR SCBAs enhanced. Electric dosimeters at support hospitals referenced to replace pocket chambers. Ten TLDs (emergency use only) added to TSC inventory.
CN-1	8/15/95	11	Revised Appendix D to reflect CECC EPIP-9 revision.
8	2/29/96	3, 10, 18, 21	Minor (non-intent) changes made to the procedure. Fire Services (FPS) numbers revised to reflect current PMs. Additions to OSC inventory made. NRC plan removed from the TSC at their direction.

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 3 of 22</b>
------------	---	---

**REVISION DESCRIPTION:**

Revision Number	Effective Date	Pages Affected	Description of Revision
9	10/10/96	3, 5, 7, 10, 12, 16, 17, 18, 19, 20, 21, 23	The following non-intent revisions were made: App. H deleted and included in section 2.2 of this procedure, section 3.0 Records, added to the procedure, cellular phone(s) were added to TSC and OSC inventories, FPS-510 SCBA title was revised, sign offs were added to App. F, EP Manager address revised.
CN-1	2/10/98	3, 10, 16, 18, 19, 20, 21	App. F- added satellite phone to TSC inventory, added ref. PAI-4.01, App.G-removed Spectralink phones in OSC and added Unidens, other editorials as needed.
10	6/30/98	All	Non-intent Changes. Incorporated Change Notice 1. Added references to the TSC and OSC.
11	09/16/98	All	The following non-intent changes were made: combined EPIP-12 and 14 RADCON inventory list's items to Appendix A of this procedure; revised RCI-109 to RCDP-8; clarified the use of EP equipment identified in Appendix A; identified DCRM/EP responsibilities to maintain latest revision's of procedures in the emergency facilities. Removed MSPL due to procedure cancellation.
12	2/28/99	All	Non-intent change. Revised ERFDS to ICS.
13	10/22/99	All	<p>The following intent change was made: The medical supplies stored at the two support hospitals were reduced for the following reasons 1) patient handling processes were improved to reduce unneeded materials; 2) the hospitals requested the unnecessary supplies be removed to enhance storage space in the emergency cabinets; 3) the hospitals have sufficient supplies available due to blood born pathogen prevention programs to provide additional supplies as needed.</p> <p>The following non-intent changes were made: Enhanced titles on two OSC toolboxes and cell phones in the TSC/OSC can be utilized by EP personnel while on duty. ESIs and PAI-13.01 PCP were removed from the TSC inventory as no longer needed for REP response. Added SAMGs to TSC/OSC inventory.</p>
14	6/14/00	All	Non Intent changes. Revised reference to REX to HIS-20. Revised monthly to calendar monthly to match wording in the REP. Fire Operations inspection monthly/quarterly cycle added for clarification. App. A, five (5) calculators moved to OSC from lab for security purposes. App. E, numbers added to hospital set for clarification. App. F, three (3) titles revised on referenced documents and added referenced to the inventory. App. G, titles of two references revised. New KI packets identified. This resolves problems identified in WBN PER, 006394.

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12</b> <b>Revision 15</b> <b>Page 4 of 22</b>
------------	---	---

**REVISION DESCRIPTION:**

<b>Revision n Number</b>	<b>Effective Date</b>	<b>Pages Affected</b>	<b>Description of Revision</b>
15	01/24/01	All Pg. 5,17,18,20	<p>Plan effectiveness determination revisions indicate the following revisions do not reduce the level of effectiveness of the procedures or REP:</p> <p>Revised communications/equipment inspection(s) into calendar monthly and quarterly requirements to support REP activities and standardize these tests across TVAN. This revision also brings these tests in line with requirements in NUREG 0654 (Section 2.2).</p> <p>Removed INPO Resource Manual from TSC. It is online and no longer issued in hard copy (App. F).</p> <p>Revised office and dry board supplies descriptions to standardize across TVAN (App. F &amp; G).</p> <p>Revised fire protection PM retention information to provide the WID number for easier tracking on EMPAC (App. B). Non-intent change.</p>

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 5 of 22</b>
------------	---	---

## **1.0 PURPOSE**

This Emergency Plan Implementing Procedure (EPIP) provides instructions for required periodic inspections/inventories and maintenance of emergency equipment and supplies.

## **2.0 RESPONSIBILITIES<sup>3</sup>**

- 2.1.1 Responsible organizations shall establish programs/procedures to ensure the inventories for which they are responsible are scheduled and conducted at specified frequencies.
- 2.1.2 Organizations performing inventory and/or inspection shall ensure the following upon completion:
  - A. Seals or break-away locking devices are in place on cabinets which are not routinely used to provide a means of determining if a cabinet has been opened.
  - B. Signatures of persons performing inventory and/or inspection are obtained.
  - C. Deficiencies noted in the inventory are corrected.
  - D. Completed inventory lists are submitted to the Emergency Preparedness (EP) Manager.
- 2.1.3 Radiological Control (RADCON) shall be responsible for inventory or inspection of equipment listed in Appendices A and D.

**NOTE:** Radiological equipment identified in Appendix A is considered available for use and not dedicated equipment. This equipment can also be utilized for routine plant operations.

- 2.1.4 Medical Services is responsible for providing supplies and shall assist Fire Protection (FP) in the inventory or inspection of equipment listed in Appendix B.
- 2.1.5 Fire Protection shall be responsible for the inventory or inspection of equipment and supplies listed in Appendices B and C.
- 2.1.6 EP shall be responsible for inventory or inspection of equipment and supplies listed in Appendices E, F and G.

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 6 of 22</b>
------------	---	---

## **2.0 RESPONSIBILITIES (continued)**

2.1.7 The WBN EP Manager shall review completed inventory lists (Appendices), investigate deficiencies, provide signature (if required) and maintain file copies.

## **2.2 Inventory/Inspection Frequency**

2.2.1 Emergency Preparedness shall ensure that the contents of emergency equipment and supply cabinets are inventoried, inspected, and checked for operability and/or material condition each calendar quarter unless otherwise specified. After drills, exercises, or real emergencies, equipment and supplies will be replenished as soon as possible by WBN Emergency Preparedness.<sup>2</sup>

2.2.2 Portable radiation monitoring instruments shall be inventoried and calibrated routinely in accordance with RCDP-8. Instruments should be replaced if they require service/calibration prior to the date of the next inventory.<sup>2</sup> These instruments are inventoried on a calendar monthly basis.

2.2.3 Self-Contained Breathing Apparatus (SCBA) units shall be inventoried monthly in accordance with applicable plant procedures and more often as needed.<sup>2</sup>

2.2.4 Medical/Emergency supplies shall be inventoried monthly/quarterly with applicable plant procedures or more if needed.

**NOTE:** Fire Operations monthly inventories follow a 28 day cycle and  
Fire Operations quarterly inventories follow a 12 week cycle.

2.2.5 Emergency facilities communications and equipment inspections will be conducted on a calendar monthly and calendar quarterly basis by WBN Emergency Preparedness using Preventive Maintenance Instruction, WBN O-TEL-250-0001, File # 01 and WBN O-TEL-250-0002, File #02.<sup>4</sup>

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 7 of 22</b>
------------	---	---

**RESPONSIBILITIES FOR EMERGENCY EQUIPMENT AND SUPPLIES  
INVENTORY AND MAINTENANCE SUMMARY**

<u>APPENDICES A, B, C, D, E, F, &amp; G</u>		<u>FREQUENCY</u>	<u>RESPONSIBLE</u>
A.	Radiological Control Lab	Monthly	Radiological Control
B.	Medical/Emergency Supplies	Monthly/Quarterly	Fire Protection/Medical
C.	Self-Contained Respiratory Equipment	Monthly	Fire Protection
D.	Emergency Van	Quarterly	Radiological Control
E.	Hospital Emergency Room Cabinet	Quarterly	EP Program Manager
F.	Technical Support Center Cabinets References & Supplies	Quarterly	EP Program Manager
G.	Operations Support Center Cabinets References & Supplies	Quarterly	EP Program Manager

## **2.3 Inventory/Inspection Instructions<sup>3</sup>**

2.3.1 Emergency response facility cabinets shall be inventoried against the list of required items (see Appendices).

2.3.2 Special checks of certain material(s) in the cabinets shall be performed as follows:

- A. Copies of procedures maintained at the emergency response facilities (see Appendices) shall be checked/maintained by DCRM to verify latest revisions.
- B. TSC and OSC position activity books are maintained/verified by EP.
- C. SCBA units and spare bottles shall be verified ready for use.
- D. Protective clothing and heat or moisture-sensitive items shall be checked for deterioration.
- E. Flashlights shall be checked for power/operability.
- F. Potassium Iodide (KI) in the OSC medical supply cabinet shall be checked for expiration date as indicated on Appendix G. Stock should be replaced if it expires prior to next projected inventory.

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 8 of 22</b>
------------	---	---

### 2.3.2 Continued

- G. As necessary, replace batteries with fresh batteries from Power Stores.  
(Do not discard batteries. Return them to the Toolroom.)

### 2.3.3 Emergency response facility cabinet inventory lists (Appendices) shall be completed as follows:

- A. If items are present, in sufficient quantities, and in good working condition, check YES column.
- B. If a deficiency is noted, check the NO column. Make appropriate corrections and describe the corrective action in the REMARKS column.
- C. Deficiencies should be corrected immediately. If circumstances do not allow immediate correction, the EP Manager shall be notified. When deficiencies are corrected, the list (Appendix) is initialed and dated.
- D. Forward completed signature and review list (Appendix) to the EP Manager for confirmation and records management. Original documentation of inventories of medical supplies in the fire emergency equipment cage and ambulance and SCBA equipment will be retained by Fire Protection or Document Control.
- E. Sealed cabinets or kits do not have to be inventoried unless they contain items which require periodic replacement or pressure checks (for example, batteries and SCBA bottle pressure) or calibration.

## 3.0 Records

### 3.1 QA Records

None

### 3.2 Non-QA-records

The inventory(s)/inspection(s) in this instruction are Non-QA documents and will be retained by the WBN Emergency Planning Manager for at least two years.



<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 9 of 22</b>
------------	---	---

## **4.0 REFERENCES**

### **4.1 Interfacing Documents**

RCDP-8, Radiological Control Departmental Procedure: "Radiological Instrumentation and Equipment Controls"

NP Radiological Emergency Plan (REP)

ANSI Standard N18.7-1976

WBN FSAR Chapter Six

### **4.2 Other Documents**

NUREG 0654, Revision 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants

Preventive Maintenance Instruction (PMI) 0-FPS-510-SCBA, Cleaning/Sanitizing, Maintenance, Inspection, Storage and Inventory of Positive Pressure MSA, SCBAs.<sup>2</sup>

FPS-510-AMB, FPS-777 - Fire Equip, FPS-510-005 Stretcher, FPS-510-0010 Fire Truck

## **5.0 APPENDICES**

Appendix A, RADCON Emergency Equipment

Appendix B, Medical Emergency Supplies

Appendix C, Emergency Use Pressure Demand Self-Contained Respiratory Equipment

Appendix D, Radiological Monitoring Van Emergency Equipment

Appendix E, Rhea County Medical Center and Athens Regional Medical Center Emergency Cabinet Inventory

Appendix F, Technical Support Center Emergency Supplies

Appendix G, Operations Support Center Emergency Supplies

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 10 of 22</b>
------------	---	--

Appendix A  
(Page 1 of 2)

**RESPONSIBILITY - RADCON  
RADCON EMERGENCY EQUIPMENT**

**Date:** \_\_\_\_\_

Location: Radiological Control Laboratory and support areas - Service Building, EI 713'

<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>YES</u>	<u>NO</u>	<u>REMARKS</u>
1	Alpha Survey Meter (500,000 cpm)			_____
1	Neutron dose rate survey meter (0.025 eV - 10 MeV) (5,000 mrem)			_____
2	Teletector or equivalent (1,000 rem/hr. with 13-foot extendable probe)			_____
6	ION Chamber Survey Meter (50 rem/hr.)			_____
1	ION Chamber Survey Meter (20,000 rem/hr.)			_____
5	High Volume Air Sampler (and support equipment)			_____
10	Frisker Type Survey Meters (0-50,000 cpm)			_____
5	Low-Volume Air Sampler (and support equipment)			_____
1	Portable Mini Scaler			_____
5	Calculators (hand-held) (in OSC cabinet)			_____
5	Marinelli beakers			_____
1	Shielded detector pig			_____
10	Silver zeolite cartridges			_____

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12</b> <b>Revision 15</b> <b>Page 11 of 22</b>
------------	---	--

Appendix A  
(Page 2 of 2)

**RESPONSIBILITY - RADCON**  
**RADCON EMERGENCY EQUIPMENT (continued)**

Date \_\_\_\_\_

**Decontamination Supplies:**

Location: Radiological Control Laboratory - Service Building, EI 713'

<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>YES</u>	<u>NO</u>	<u>REMARKS</u>
2 boxes	Surgeon Gloves	___	___	_____
1, 60 cc	Syringe	___	___	_____
2 boxes	Gauze Pads	___	___	_____
1 box	Cotton Q-Tips	___	___	_____
2 bottles	Saline Solution	___	___	_____
5	Surgical Brushes	___	___	_____
1 bottle	Shampoo	___	___	_____
5 bars	Soap	___	___	_____
1 bottle	Soap (liquid abrasive)	___	___	_____
1 can	Mechanic's Hand Cleaner	___	___	_____
1 can	Shaving Cream	___	___	_____
5	Razors	___	___	_____
3 bags	Commeal	___	___	_____
1 box	Paper Bath Towels	___	___	_____
25	Towels	___	___	_____
1 pair	Scissors	___	___	_____
1	Catch Containment w/drain tubing	___	___	_____
2 gallon	Poly Bottle	___	___	_____
5	Petri Dishes	___	___	_____
1	Radcon Spill Kit	___	___	_____
1	Frisker w/wound probe	___	___	_____
2 rolls	Duct Tape	___	___	_____
1 box	Facial Tissue	___	___	_____
10	Paper Coveralls	___	___	_____

Inspection performed by:

RADCON Representative \_\_\_\_\_ Date \_\_\_\_\_

Reviewed by:

EP Manager \_\_\_\_\_ Date \_\_\_\_\_

Send completed Appendix A to WBN EP Manager, WTC 1P, WBN.

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 12 of 22</b>
------------	---	--

Appendix B  
(Page 1 of 1)

## **RESPONSIBILITY - MEDICAL SERVICES/FIRE PROTECTION**

### **MEDICAL EMERGENCY SUPPLIES<sup>1</sup>**

1. A sealed trauma kit and other medical supplies for exclusive use by the Medical Emergency Response Team (MERT) shall be located in both the fire emergency equipment cage and ambulance maintained by Fire Protection (FP). Medical Services (MS) identifies and provides the minimum necessary materials to be kept in the kits. FP performs a inventory/inspection of the kits quarterly or after each use of the kit with assistance from MS. FP provides documentation of those inspections. FP will restock kits as necessary. (See PM-O-FPS-510-AMB and FPS-777 Fire Equip., Fire Truck FPS-510-0010.) ☐
2. Stretchers are placed at strategic locations throughout the plant for use by MERT for transportation of seriously ill or injured persons. FP will perform and document quarterly inspections of stretcher locations and their associated equipment. (See PM-O-FPS-510-005, Stretcher). ☐
3. Equipment located in the fire emergency cage and ambulance shall be available for use by MERT. ☐
4. Work Implementing Document (WID) number for the following completed packages shall be sent to WBN EP Manager, WTC 1P-WBN: PM-O-FPS-510-AMB, PM-O-FPS-510-005-Stretcher Cabinets and FPS-777-Fire Equipment.. ☐
5. WID numbers for completed PM's received and filed. ☐

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 13 of 22</b>
------------	---	--

Appendix C  
(Page 1 of 1)

## RESPONSIBILITY - FIRE PROTECTION

### EMERGENCY USE PRESSURE DEMAND SELF-CONTAINED RESPIRATORY EQUIPMENT

Self-contained Breathing Apparatus (SCBA) equipment used for radiological emergency conditions are stored at the following locations:<sup>2</sup>

<u>LOCATION</u>	<u>REQUIRED SCBA KITS</u>	<u>NUMBER SPARE BOTTLES</u>
1. Main Control Room (located in El. 755 Relay Room)	10	0
2. Auxiliary Building, El 757', Fire Cage	6	6
3. Service Building, El 729', Fire Cage	6	6
4. Service Building, El 713', Racks	20	20
5. Fire Truck and other Response Vehicles (fire protection)	5	4
6. SCBA equipment is inspected and inventoried in accordance with O-FPS-510-SCBA, Cleaning/Sanitizing, Maintenance, Inspection, Storage and Inventory of Positive Pressure MSA, SCBAs.		
7. Send completed copy of Required Emergency SCBA Inventory Sheet to WBN EP Manager. One copy will be maintained in WBN EP files.		
8. Required Emergency SCBA Inventory Sheet received and filed.		

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 14 of 22</b>
------------	---	--

Appendix D  
(Page 1 of 1)

## **RESPONSIBILITY - RADCON**

### **RAD MONITORING VAN EMERGENCY EQUIPMENT**

1. See CECC-EPIP-9, Attachment J.
2. A copy of Attachment J (completed) will be forwarded to the WBN EP Manager, WTC 1P-WBN, for review and retention in the WBN EP files.
3. CECC Attachment J reviewed and filed.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 15 of 22</b>
------------	---	--

Appendix E  
RESPONSIBILITY - EP  
RHEA MEDICAL CENTER AND ATHENS REGIONAL MEDICAL CENTER  
EMERGENCY CABINET INVENTORY <sup>7</sup>

SAT	Quantity	Description	Remarks
<b>Protective Clothing</b>			
	10 pair	Shoe covers	
	10	Dress out packages (coveralls, booties, gloves)	
	3	Surgical gowns	
	2 boxes	Surgical gloves	
	4 rolls	Surgical tape for dressout	
<b>Facility Preparation</b>			
	1 set	Floor coverings (see hospital specific booklet)	
	20 ft	3 ft approx. wide paper	
	2 rolls	2 inch approx. duct tape	
	2 roll	Radiation Warning symbol tape (2")	
	2	Step off pads	
	1 set	Radiological barrier posting signs (5 in set)	
	1 set	Radiological barrier rope or ribbon	
	1 set	Traffic cones (5 in set)	
	10	Large rad waste plastic bags (trash can size)	
	10	Medium rad waste plastic bags	
	2 copies	Hospital specific booklet	
	1	Radioactive material label tape	
<b>Decontamination Supplies</b>			
	1	Decontamination table, backboard and bottles (min. total capacity of 10 gallons)	
	1	Flexible funnel with drain hose	
	1	Decontamination media /soap product	
	1	NCRP # 65 Reference Handbook	
	12	Cotton swabs	
	20	Zip lock bags for sample collection	
	10	Labels for sample bags	
	2	Scissors	
	1	Wall poster with decontamination steps	
<b>Health Physics Supplies</b>			(Serial # and cal due)
	1	Bicron ISM (RSO-5 or 50)	
	2	Bicron Surveyor 50	
	1	Wound probe with cable	
	10	TLDs	
	10	Electronic dosimeters and tray	
	200	Smears	
	12	Radioactive Material tags	
	1	Masslin mop and 20 cloths	

Inspected by: \_\_\_\_\_

Date: \_\_\_\_\_

\* A copy of completed Appendix E will be retained in the WBN EP files.

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12</b> <b>Revision 15</b> <b>Page 16 of 22</b>
------------	---	--

Appendix F  
(Page 1 of 4)  
RESPONSIBILITY - EP

**EMERGENCY SUPPLIES  
TECHNICAL SUPPORT CENTER (TSC)<sup>2</sup>**

(TSC Reference Areas) (Checkoff)			
<u>DOCUMENTS</u>	<u>YES</u>	<u>NO</u>	<u>REMARKS</u>
Plant Drawings (verify existence only)	_____	_____	_____
DCRM Controls Listing	_____	_____	_____
1 ASME Steam tables	_____	_____	_____
1 FRED Users Manual	_____	_____	_____
2 Meteorological Data Display Programs User's Manual	_____	_____	_____
1 Meteorological Data Print Program User's Manual	_____	_____	_____
1 WBN Environmental Data Station Manual	_____	_____	_____
3 Emergency Paging System User's Manual (1 in MCR)	_____	_____	_____
3 NP REP (Radiological Emergency Plan)	_____	_____	_____
2 REND (Radiological Emergency Notification Directory)	_____	_____	_____
2 CECC EPIPs	_____	_____	_____
4 WBN EPIPs	_____	_____	_____
1 set Position Activity Books (latest Procedure Rev.)	_____	_____	_____
1 set SOIs (System Operating Instructions)	_____	_____	_____
3 copies Unit 1 Technical Specifications	_____	_____	_____
1 copy Function Restoration Instructions	_____	_____	_____
2 copy Emergency Instructions	_____	_____	_____
1 copy Emergency Contingency Actions	_____	_____	_____
1 Safety and Health Manual	_____	_____	_____

Retain completed Appendix F in WBN EP file.

Inspection Performed By \_\_\_\_\_

Date \_\_\_\_\_



<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 17 of 22</b>
------------	---	--

Appendix F  
(Page 2 of 4)

RESPONSIBILITY - EP

**EMERGENCY SUPPLIES  
TECHNICAL SUPPORT CENTER (TSC)**

<b><u>DOCUMENTS</u></b>	<b>(TSC Reference Areas) (Checkoff)</b>		<b><u>REMARKS</u></b>
	<b><u>YES</u></b>	<b><u>NO</u></b>	
10 WBN Phone Directories (latest edition)	_____	_____	_____
10 TVA Phone Directories (latest edition)	_____	_____	_____
1 WBN FSAR (Updated)	_____	_____	_____
1 State of Tennessee Multijurisdictional REP Response Plan	_____	_____	_____
1 WBN ODCM	_____	_____	_____
2 set AOIs (Abnormal Operating Instructions)	_____	_____	_____
1 set TIs (Technical Instructions) (Index/EPP Selected)	_____	_____	_____
1 set GOIs (General Operating Instructions)	_____	_____	_____
1 Master Fuse List, Vol. 1 & 2	_____	_____	_____
1 (set) System Description Manual	_____	_____	_____
3 ICS System User's Guide	_____	_____	_____
1 (set) Annunciator Response Instructions	_____	_____	_____

Retain completed Appendix F in WBN EP file.

Inspection Performed By \_\_\_\_\_

Date \_\_\_\_\_

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 18 of 22</b>
------------	---	--

Appendix F  
(Page 3 of 4)

RESPONSIBILITY - EP

**EMERGENCY SUPPLIES  
TECHNICAL SUPPORT CENTER (TSC)**

(TSC Reference Areas) (Checkoff)			
<u>DOCUMENTS</u> (continued)	<u>YES</u>	<u>NO</u>	<u>REMARKS</u>
RCIs (Radiological Control Instructions) 2 books	_____	_____	_____
1 ECIs Environmental Control Instructions (EPP Selected)	_____	_____	_____
1 Chemistry Manual (EPP Selected)	_____	_____	_____
1 Periodic Instructions (EPP Selected)	_____	_____	_____
7 SAMGs	_____	_____	_____
3 SAMG Set Point and Comp Aid Basis	_____	_____	_____
1 copy Chattanooga Phone Directory (current edition)	_____	_____	_____
1 copy Knoxville Phone Directory (current edition)	_____	_____	_____
<b><u>Communications Equipment &amp; Calculators</u></b>			
3 Communications Head Sets	_____	_____	_____
1 Telephone (Cordless) (ac power)	_____	_____	_____
6 TI-55 Calculators (or equivalent)	_____	_____	_____
1 Spectralink Phone System	_____	_____	_____
1 Video Recorder	_____	_____	_____
10 Emergency TLDs	_____	_____	<u>Expiration Date:</u> _____
1 Satellite Phone and Accessories	_____	_____	_____

Retain completed Appendix F in WBN EP file.

Inspection Performed By \_\_\_\_\_

Date \_\_\_\_\_

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 19 of 22</b>
------------	---	--

Appendix F  
(Page 4 of 4)

RESPONSIBILITY - EP -

**EMERGENCY SUPPLIES  
TECHNICAL SUPPORT CENTER (TSC)**

(TSC Reference Areas)			
<u>SUPPLIES</u>	(Checkoff)		<u>REMARKS</u>
	<u>YES</u>	<u>NO</u>	
Assorted Dryboard Supplies	_____	_____	_____
2 rolls Thermal Paper	_____	_____	_____
Assorted Desk Top Supplies	_____	_____	_____
Assorted Office Supplies	_____	_____	_____
Keys to TSC in Main Control Room	_____	_____	_____
Cellular Telephone <sup>6</sup> (available for facility/EP use)	_____	_____	_____
Inspection Performed By: _____		Date _____	
Reviewed by: _____ WBN EP Manager		Date _____	

Retain completed Appendix F in WBN EP file.

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 20 of 22</b>
------------	---	--

Appendix G  
(Page 1 of 2)  
RESPONSIBILITY - EP  
EMERGENCY SUPPLIES  
OPERATIONS SUPPORT CENTER

<u>DOCUMENTS</u>	OSC Areas (CHECKOFF)		<u>YES</u> <u>NO</u>	<u>REMARKS</u>
1 set Position Activity Books (latest revision)			— —	
Plant Drawings (verify existence only)			— —	
DCRM controls listing)				
1 WBN EPIPs			— —	
10 WBN Telephone Book (latest edition)			— —	
5 TVA Telephone Book (latest edition)			— —	
1 Nuclear Power Safety and Health Manual (NPSHM)			— —	
1 set Vendor Manual Cross References			— —	
1 set Maintenance Instructions (MIs) (selected, see EPP)			— —	
1 set Emergency Contingency Actions (ECAs)			— —	
1 set Abnormal Operating Instructions (AOIs)			— —	
1 set System Operating Instructions (SOIs)			— —	
1 set Emergency Instructions (EIs)			— —	
2 ICS System User's Guide			— —	
1 Functional Restorations Instructions			— —	
Master Fuse List Vol. 1 & 2			— —	
BP-364, Control of Portable Two-way Radios			— —	
CHEM 13.0 & 13.15			— —	
1 SAMG			— —	
<u>Communications Equipment</u>				
3 Auto dial telephones			— —	
1 Fax machine			— —	
2 ICS Terminals			— —	
3 Computer Terminals			— —	
1 LaserJet V Printer			— —	
4 Portable Phones			— —	
1 HIS-20 Terminal			— —	
1 Cellular Telephone <sup>6</sup>			— —	
(available for facility/EP use)				

Retain completed Appendix G in WBN EP file.

Inspection Performed By \_\_\_\_\_

Date \_\_\_\_\_

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 21 of 22</b>
------------	---	--

Appendix G  
(Page 2 of 2)

RESPONSIBILITY - EP

**EMERGENCY SUPPLIES  
OPERATIONS SUPPORT CENTER**

<u>Supplies</u>	OSC Areas (Checkoff)	<u>YES</u>	<u>NO</u>	<u>REMARKS</u>
Keys to OSC in Main Control Room		—	—	_____
2 Easels		—	—	_____
Assorted desktop supplies for all positions		—	—	_____
6 Status Boards		—	—	_____
Assorted Dryboard Supplies		—	—	_____
Assorted Office Supplies		—	—	_____
1 Book of Current OSC Briefing/Debriefing Forms		—	—	_____
5 Calculators		—	—	_____
	<u>Tool Room</u>			
<u>EQUIPMENT</u>				
OSC (Tool Kits)				
Boilermakers		—	—	_____
Limitorque		—	—	_____
Mechanical/Machinist		—	—	_____
Instrument		—	—	_____
Electrical		—	—	_____
Steam Fitters		—	—	_____
Safety equipment		—	—	_____
Medical Supply Cabinet				
First Aid Kit		—	—	_____
2,000 tablets of KI		—	—	_____
KI Issuance Instructions Inserts		—	—	_____
OSC Staging Area(s)				
Tables and chairs		—	—	_____
Rex Terminal		—	—	_____
Anti C clothing/supplies <sup>5</sup>		—	—	_____
Speaker System		—	—	_____
Overnight Cots & Sleeping Bags		—	—	_____
Inspection Performed By: _____	Date: _____			
Reviewed By: _____	Date: _____			
EP Manager				

Retain completed Appendix G in WBN EP file.

<b>WBN</b>	<b>EMERGENCY EQUIPMENT AND SUPPLIES</b>	<b>EPIP-12 Revision 15 Page 22 of 22</b>
------------	---	--

## SOURCE NOTES

Page 1 of 1

- |   |  |   |
|---|--|---|
| 1 | MC-840427005015, MSC-02387,<br>NCO-920042683.                          | Onsite Ambulance complete and in service. Section Appendix B (page 1 of 1). Also see EPIP-10.   |
| 2 | FSR-06-293 FSR-06-294.<br>NCO-920110809<br>FSR-06-294<br>NCO-920057401 | The MCRHS area is designed for long-term occupation by personnel required during emergency operations. Supplies and equipment are provided Section 2.2 Inventory/Inspection Frequency, 2.2.3, also see Section 4.2. Other documents Appendix C Emergency Use Pressure Demand S.C.B.A.s and Appendix F, Technical Support Center Emergency Supplies. Also see EPIP-6 Section 3.6 Long Term Operations 3.6.3. |
| 3 | ANSI Standard N18.7-1976<br>Subsection 5.3.9.3: 01 POI                 | Contents of EPIPs that support the REP will contain the following elements.   |
| 4 | MSC-00590, LIC COND 21 Resp<br>NCO 920030105                           | In reference to Licensing Condition 21, communication system required by the Facility Emergency Plan are tested once per year during an emergency drill.  |
| 5 | HEO 219  | Operator protective clothing maintained in the OSC.   |
| 6 | PERWB960582  | Added cellular phone to OSC and TSC inventories.  |
| 7 | NCRP #9  | "Management of Persons Accidentally Contaminated with Radionuclides"  |

# FILING INSTRUCTIONS

DOCUMENT NUMBER EPI p. 14

REMOVE REVISION 13 INSERT REVISION 14  
\_\_\_\_\_

Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**TENNESSEE VALLEY AUTHORITY**

**WATTS BAR NUCLEAR PLANT**

**EMERGENCY PLAN IMPLEMENTING  
PROCEDURES**

**EPIP-14**

**RADIOLOGICAL CONTROL RESPONSE**

Revision 14

Unit 0

**QUALITY RELATED**

PREPARED BY: Benjamin F. McNew, Jr.  
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 01/24/2001

LEVEL OF USE: REFERENCE



<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 2 of 26</b>
------------	--	---

**REVISION DESCRIPTION:**

Revision Number	Implementation Date	Description of Revision	
0	05/02/90	New WBN EPIP. Supersedes IP-14.	
1	08/27/90	Include note to address Kr-85 Hazards from Decayed Fuel Per NRC IE 90-08. Correct spelling in header. Update reference titles.	
2	05/20/91	Add additional respiratory protection equipment to Section 2.2. Clarify responsibilities and duties of RADCON Lab personnel. Add new Attachment 6. Add Source Note Page.	
3	02/10/93	Added Responsibilities section. Changed response time for 7 RADCON Techs to 60 minutes. Removed responsibilities of RADCON Manager. Refer to WBN EPIP-6. Removed section on responsibilities and duties of RADCON Personnel Assigned to the OSC. Refer to WBN EPIP-7. Removed reference to the Lead HP Tech in 2.6.1.	
4	8/16/93	Editorial (non-intent) and format changes. Additional information provided on the alternate lab (RADCON) location. Source notes added to the procedure. In-plant Rad monitors revised. Appendices realigned for easy use.	
5	1/1/94	Changes made to the procedure to incorporate new 10 CFR 20 and EPA 400 Guidance.	
6	4/11/94	Added ARW statement in Section 3.2.11.	
7	2/23/95	Editorial (non-intent) and format changes.	
8	4/21/95	Rad monitor list enhanced in Appendix C. Form revised in Appendix F to allow for signatures. Editorial non-intent changes made.	
Revision Number	Implementation Date	Pages Affected	Description of Revision
9	2/15/97	4,5,6,7,9,11,12,13,15, 18, 22	Editorial and non-intent changes made ( i.e. grammatical /typographical). Instruction information in the procedure reformatted in some sections to make it more user friendly. Hospital name revised. Location of site KI locker identified. Revised Occupational Dose From Inhalation of Iodine 131 chart to emphasize the more limiting thyroid vs. whole body. New location of KI inventory paperwork in EPIP-12 identified. Respiratory protection guidelines revised so that they correspond with guidance provided in RCI-120. Duplicate/redundant instructions were combined. Reference to pocket chamber dosimetry replaced with the enhanced electronic dosimeters. TRN 30 reference removed from the procedure due to it no longer being applicable. RADCON callout information enhanced and printout location (TSC) of the ERO pager activation list added to the procedure.

<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 3 of 26</b>
------------	--	---

#### REVISION LOG

Revision Number	Implementation Date	Pages Affected	Description of Revision
CN-1	2/18/98	3, 6, 7, 14, 15, 19	Made instructions in 3.7.5 more descript with current Radcon procedures and instruments, renumbered steps 3.7.5 through 3.7.9, referenced EPIP-10 in 3.8.4, other editorials
10	6/30/98	All	Non-intent Changes. Incorporated Change Notice 1. Typographical corrections made. Added concerning radiation injuries to 3.8.3. Added ANSI Qualified per source note 7 in Appendix A. Added RCI-120 reference.
11	9/16/98	All	The following non-intent changes were made: revised KI instructions on Appendix E; consolidated inventory list for RADCON equipment in EPIP-12, "Emergency Equipment and Supplies" to eliminate repetitive instructions; typographical corrections made.
12	2/28/99	All	Non-intent change. Revised ERFDS to ICS and referenced alternate OSC location.
13	6/14/00	All	Non Intent change. Clarified number of Radcon personnel to be called in, in addition to onshift staff. Included use of RWP 911 and 912 to cover entry teams in drills and emergencies. Added a step in the Alert actions to notify SQN, Radcon to dispatch their monitoring van (as needed) to support WBN. Added the OSC to the emergency paging printout locations for easier access by the Radcon SS. Replaced KI bottle information to reflect new packaging. Revised medical center title for Rhea Hospital. Revised reference of ANSI qualified "Techs" to "personnel" to clarify acceptable staffing. This revision resolves problems identified in WBN PER006394.
14	01/24/01	All Pg. 5,8,12,15, 19,21	Plan effectiveness determination reviews indicated the following revisions do not reduce level of effectiveness of the procedure or REP: Clarified use of RWP 911 & 912 to match wording in RCDP-3 Section 3.6.7 Typographical addition (') made to elevation 713'. Deleted reference to RE-90-280 & RE-290-293 per direction of DCN 50482-A & SA WBP LEE-00-052. Non-intent change.

<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 4 of 26</b>
------------	--	---

## **1.0 PURPOSE**

This Procedure describes the actions and responsibilities of the Watts Bar Radiological Control (RADCON) Section in the event of a radiological emergency.

## **2.0 RESPONSIBILITIES <sup>4</sup>**

Emergencies classified by the Site Emergency Director will require that the WBN Radiological Control Section perform functions and actions defined in this procedure.

## **3.0 INSTRUCTIONS**

### **3.1 General Instructions<sup>1,4,6</sup>**

3.1.1 The response to radiological emergencies by RADCON personnel will depend upon the type and magnitude of the existing emergency condition. This can range from a minimal response requiring one or two people to a total manpower mobilization. In addition, it should be noted radiological problems may not be associated with a given emergency [as defined in the Radiological Emergency Plan (REP)]. Natural phenomena, security threats, or other events not involving radiological problems could be the cause for the emergency status.

3.1.2 **IF** an ALERT, SITE AREA EMERGENCY, or GENERAL EMERGENCY is classified, RADCON is required to assemble a specific number of personnel as described below.

- A. During normal and off-shifts, an ALERT will be announced over the public address system and the emergency pagers will be activated. (In the event of a SITE AREA EMERGENCY or GENERAL EMERGENCY, the offsite sirens will be activated by the state.)
- B. The RADCON Lab will be contacted by the SM. The Radiological Control Shift Supervisor (RCSS) will determine the number of RADCON personnel currently onsite and will ensure at least a total of seven (7) additional are available onsite within approximately 60 minutes.

WBN	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14</b> <b>Revision 14</b> <b>Page 5 of 26</b>
-----	--	---

### 3.0 INSTRUCTIONS (continued)

#### 3.2 Precautions and Limitations <sup>2,4</sup>

During a radiological emergency established radiological control procedures will normally be utilized to cover most situations. Since the magnitude of the problem(s) may be more severe, it is imperative that all requirements for entry into affected plant areas be met. This section summarizes items that will need to be addressed prior to entry into the affected areas and during recovery operations.

3.2.1 Plant accidents involving core damage may produce excessive dose rates and airborne activity concentrations within plant areas. Radiological precautions must be followed under these conditions until available data indicates otherwise.

3.2.2 These precautions could include the following:

- The use of respiratory equipment,
- Issuance of KI,
- Multiple layers of protective clothing,
- The use of electronic dosimeters, multiple TLDs and extremity TLDs as appropriate.
- The use of RWP (911) for drills and (912) for actual emergencies should be utilized to cover the entry team(s).
- Personnel will be instructed to monitor their dosimetry frequently to prevent overexposure.

3.2.3 **IF** core damage is suspected or if for any other reason elevated airborne activity concentrations are present, then appropriate respiratory protection will be required. Initial entry will probably require the use of respiratory equipment, since iodines may be present in significant quantities.

**CAUTION** **IF** spent fuel damage is involved, be aware of the potential for significant skin doses from Kr-85. After spent fuel has decayed greater than 190 days, Kr-85 is the predominant gaseous nuclide. Consequently, the dose to the skin could be approximately 150 times the whole body dose. [Reference 4.0]

3.2.4 The following respiratory guidelines will be considered during emergency incidents:

WBN	RADIOLOGICAL CONTROL RESPONSE	EPIP-14 Revision 14 Page 6 of 26
-----	-------------------------------------	--

### 3.0 INSTRUCTIONS (continued)

## **WBN EMERGENCY RESPIRATOR ISSUE GUIDELINES**

**NOTE:** THESE GUIDELINES ARE RECOMMENDATIONS ONLY, SUBJECT TO THE JUDGEMENT OF RADCON AND EMERGENCY MANAGEMENT PERSONNEL. THESE GUIDELINES ARE APPLICABLE ONLY TO PROTECTION FROM AIRBORNE RADIOACTIVE MATERIAL AND DO NOT APPLY TO RESPIRATORS/SCBAs ISSUED FOR PROTECTION FROM INDUSTRIAL OR CHEMICAL HAZARDS OR ATMOSPHERES IMMEDIATELY HAZARDOUS TO LIFE OR HEALTH.

**TASKS TO SAVE A LIFE:  
OR PREVENT SIGNIFICANT  
DAMAGE TO PLANT**

-Respirator/SCBA not required to enter airborne radioactivity areas provided resulting internal dose plus external dose will not result in TEDE exceeding NRC dose limits or, if approved by the SED, doses up to the TVA emergency dose limits (i.e., up to 25 rem/10 rem) (this can include uptakes > 1 ALI)

**HIGH PRIORITY TASKS:**  
(priority 1 or 2)

-Respirator/SCBA not required to enter airborne areas if the the following are true:

**NOTE: IF INDIVIDUAL'S  
TOTAL INTAKE FOR THE  
YEAR TO DATE EXCEEDS  
200 DAC-HRS., DOSE  
RESULTING FROM ALL  
INTAKES FOR THE YEAR  
TO DATE MUST BE ASSESSED  
IN DETERMINING THE TEDE.**

-Individual's internal dose plus external dose will not result in TEDE exceeding NRC annual dose limit;

and

-Delays or hindrances caused by issuing or wearing respirators/SCBAs will jeopardize the success or timeliness of the task;

or

-Use of a respirator/SCBA will result in a higher TEDE to the responding individuals.

**LOW or MID PRIORITY:  
TASKS**

-Use WBN RCI-120, attachments 1 and 2, for respirator issue guidance.

**NOTE**

Protective requirements may be revised at the discretion of the TSC RADCON Manager as sample data becomes available.

WBN	RADIOLOGICAL CONTROL RESPONSE	EPIP-14 Revision 14 Page 7 of 26
-----	-------------------------------------	--

### 3.0 INSTRUCTIONS (continued)

- 3.2.5 Special precautions must be taken when obtaining samples. Smears may have significant dose rates (in the REM/hr range). High airborne activity could result in significant activity concentrations being collected onto the filter media. **FOLLOW** standard RADCON procedures, should samples be considered radiological hazards.
- 3.2.6 **ENSURE** all electronic dosimeters are properly processed for each worker. **MAKE** arrangements to have TLDs read, as soon as possible. **IF** possible, **RESTRICT** repetitive entries of workers. **SUBSTITUTE** other qualified personnel for team members, on reentry's, to distribute exposures. Employee's remaining allowable dose shall be verified by RADCON prior to entry into plant areas.
- 3.2.7 **IF** plant conditions are such that radiological conditions are changing rapidly, it may not be possible to use previous data in order to determine protective requirements. This factor must be considered prior to allowing survey teams into affected plant areas.
- 3.2.8 The "**Buddy System**" shall be utilized for initial entries into any area where radiological conditions are not known or any area where radiological conditions could be changing due to plant conditions. At least one person of the buddy system must be qualified in radiological controls procedures. Monitoring teams should maintain communication capabilities with the RADCON Lab.
- 3.2.9 **Habitability** surveys of OSC, TSC, and assembly areas shall be performed as necessary.
- 3.2.10 Advanced Radiation Worker (**ARW**) trained personnel will respond (upon request) to the Radiological Control Shift Supervisor during a radiological emergency and provide support and surveillance as needed during the initial phase.

<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 8 of 26</b>
------------	--	---

### **3.0 INSTRUCTIONS (continued)**

#### **3.3 Response Classification Guidelines <sup>4</sup>**

##### **3.3.1 NOTIFICATION OF UNUSUAL EVENT**

- A. No offsite radiological problems are postulated during a NOTIFICATION OF UNUSUAL EVENT.
- B. These events require a certain notification to be made to offsite agencies. These events will not have any major impact on RADCON.
- C. RADCON will follow standard practices and procedures during response work.

##### **3.3.2 ALERT**

- A. A limited radiological release is possible during an ALERT situation. Onsite emergency teams will be activated and offsite agencies contacted.
- B. IF the assembly alarm is activated, RADCON personnel shall secure work in a safe manner and report to the 713' RADCON Lab for assembly and accountability.
- C. RADCON Techs. will be dispatched to survey assembly and accountability areas as necessary.
- D. It should be noted that an ALERT situation may require the evacuation of a certain plant area and/or building. RADCON shall ensure these areas are properly posted and arrangements are made with Nuclear Site Security to restrict all unauthorized access to the affected area(s).
- E. RADCON personnel will assist in the development of all recovery plans as necessary. Recommendations will be made to keep exposures As Low As Reasonably Achievable (ALARA) and to approve recovery activities.
- F. An offsite survey team may be dispatched from SQN, if coverage is necessary. Site RCSS will contact SQN Radcon Lab as soon as possible for assistance.  
**(Refer to CECC EPIP-9)**

WBN	RADIOLOGICAL CONTROL RESPONSE	EPIP-14 Revision 14 Page 9 of 26
-----	-------------------------------------	--

### 3.0 INSTRUCTIONS (continued)]

#### 3.3.3 SITE AREA EMERGENCY

- A. During a SITE AREA EMERGENCY, there may be releases to the environment requiring RADCON response.
- B. A SITE AREA EMERGENCY may require the evacuation of a plant building or buildings.
- C. Personnel will be notified to assemble for accountability. RADCON shall secure work in a safe manner and proceed to the 713' RADCON Lab.
- D. An accountability will be made in accordance with WBN EPIP-8. Information shall be gathered describing the emergency situation; RADCON representatives shall be sent to the assembly areas to determine if any workers were in the affected plant areas at the time of the event. These people shall be separated from other plant workers and personnel contamination surveys initiated for all personnel.
- E. As reports become available regarding the details of the emergency, RADCON personnel shall prepare all necessary equipment needed and ready a survey team(s) for entry into the affected area(s).
- F. Upon notification from the Technical Support Center (TSC), survey team(s) may be dispatched from the OSC to various areas of the plant. It should be noted that depending on the type of accident, initial survey(s) may not be performed until hours or days after an event. In this case, procedures may be developed describing the reentry steps to be followed.
- G. A site boundary survey may be required. The details of the survey shall be coordinated with the TSC. The emergency van should be utilized while performing these surveys.
- H. An offsite survey team may be dispatched from SQN, if coverage is necessary. Site RCSS will contact the SQN RADCON Lab as soon as possible for assistance. (REFER TO CECC EPIP-9.)



WBN	RADIOLOGICAL CONTROL RESPONSE	EPIP-14 Revision 14 Page 10 of 26
-----	-------------------------------------	---

### 3.0 INSTRUCTIONS (continued)

- I. Precautions may be required to prevent personnel overexposures. These exposures could result directly from radiation emitted from the plume and/or due to submersion in the plume. (**REFER TO** Section 3.6, Issuance of KI, of this Procedure.)
- J. **RECORD** all survey results. All findings shall be reported to the TSC or Central Emergency Control Center (CECC) (if activated). If results indicate offsite contamination, the survey areas may need to be extended. **OBTAIN** further instructions and **PERFORM** required surveillance(s).
- K. Additional manpower support and equipment may be obtained from other TVA nuclear facilities.

#### 3.3.4 GENERAL EMERGENCY

- A. During a GENERAL EMERGENCY, there may be radiation releases to the environment requiring RADCON response. These releases may require the implementation of evacuation procedures.
- B. An extensive RADCON response will be required during a GENERAL EMERGENCY.
- C. The actions described under SITE AREA EMERGENCY will be applicable to a GENERAL EMERGENCY condition as well.
- D. During a GENERAL EMERGENCY, conditions in the RADCON Lab may be such that evacuation is warranted. If this situation develops, a RADCON Lab would need to be established within an area of low background radiation. Alternate locations (such as the various equipment rooms in the Control Building or portions of the WBN Training Center) will be considered (the RADCON Manager in the TSC is responsible for making this determination). The Site Emergency Director shall be informed when it becomes necessary to evacuate the RADCON Lab. The alternate lab would be equipped with necessary supplies and instrumentation needed to perform minimum radiological surveys and analyses required during an emergency (**SEE Appendix B**).<sup>5</sup>

WBN	RADIOLOGICAL CONTROL RESPONSE	EPIP-14 Revision 14 Page 11 of 26
-----	-------------------------------------	---

### 3.0 INSTRUCTIONS (continued)

- E. If it is necessary to evacuate the RADCON lab, the personnel stationed in the lab will secure the equipment listed in Appendix A of EPIP-12. This equipment will be brought to the alternate lab by RADCON. This list is a minimum, and if time permits and manpower allows, efforts should be made to transport additional equipment and supplies to the alternate lab.
- F. All subsequent offsite activities will be coordinated with offsite support agency survey teams to make the best use of available manpower. **REPORT** all survey results as soon as possible to the TSC or CECC (if activated) so recommendations to the proper agencies can be made to initiate any required protective actions.

### 3.4 Duties of RADCON Personnel Assigned to the TSC <sup>4</sup>

- 3.4.1 The TSC is activated during an ALERT, SITE AREA EMERGENCY, or GENERAL EMERGENCY.
- 3.4.2 The RADCON Manager is the designated RADCON TSC Manager. Approved alternates rotate this Emergency Respond Organization (ERO) duty. Additional, suitably trained and qualified personnel are listed on the ERO call list. It should be noted that the duty RCSS may serve as the TSC representative during the initial stages of an emergency until relieved by a duly qualified individual
- 3.4.3 The responsibilities and duties of the TSC RADCON Manager are summarized in WBN EPIP-6.

<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 12 of 26</b>
------------	--	--

### **3.0 INSTRUCTIONS (continued)**

#### **3.5 Duties of RADCON Personnel Assigned to the RADCON Lab.**

- 3.5.1 The RADCON Shift Supervisor (RCSS) or qualified designee is responsible for managing the activities of the 713' Lab. Appendix A of this procedure can be used as a guide by the RCSS during REP activities.
- 3.5.2 Survey teams are dispatched from the OSC staging areas. The RCSS is responsible for ensuring survey teams are properly equipped and protected and are aware of any special precautions, plant conditions, or requirements, (e.g., RWP).
- 3.5.3 The RCSS will ensure all entries are properly coordinated and approved by the OSC.
- 3.5.4 The RCSS is responsible for ensuring adequate numbers of RADCON personnel are available to support emergency activities. When an Alert or higher emergency has been classified, ensure seven (7) additional RADCON personnel have responded to the emergency page (printout in OSC/TSC). For a summary of minimal assignments during emergency see Appendix G of this Procedure.
- 3.5.5 The RCSS is responsible for preparing and designating an onsite RADCON monitoring team. Team members will prepare the monitoring van in accordance with CECC-EPIP-9. For immediate offsite monitoring, the RCSS should request assistance from SQN.
- 3.5.6 The RCSS will dispatch survey teams to assembly areas, the OSC, and TSC to evaluate radiological conditions and monitor radiation levels as conditions dictate. These survey teams will be responsible for monitoring contamination levels (both on personnel and floor/equipment areas) and implementing corrective actions (e.g., decontamination or zoning) as necessary.
- 3.5.7 The RCSS will monitor the 713' Lab for habitability and will coordinate evacuation activities to the alternate lab location (Appendix B) if warranted.
- 3.5.8 The RCSS may use ICS or Appendix C to track radiological conditions in the plant.

WBN	RADIOLOGICAL CONTROL RESPONSE	EPIP-14 Revision 14 Page 13 of 26
-----	-------------------------------------	---

### 3.0 INSTRUCTIONS (continued)

#### 3.6 Issuance of Potassium Iodide (KI) <sup>3,6</sup>

- 3.6.1 IF the TSC RADCON Manager or designee has reason to believe a person's projected cumulative dose to the thyroid from inhalation of radioactive iodine might exceed 10 rem, the exposed person should be started immediately on a dose regimen of potassium iodide (KI). Anyone authorized to administer KI shall be familiar with the Food and Drug Administration's approved package insert and be sure each proposed recipient is similarly informed. KI recipients will acknowledge their understanding of the consequences of taking or refusing KI by signing-in on the "Potassium Iodide Issue Report" (Appendix F). The initial dose of KI should not be delayed and those who begin therapy should continue the 10-day course of KI unless their thyroid dose is determined not to have exceeded 10 rem. An adequate supply of KI for the site is stored at the OSC staging area. **FOLLOW** dosage schedules as outlined on the package insert.
- 3.6.2 Projected cumulative doses to the thyroid from inhalation of radioactive iodine can be determined using Appendix D, "Occupational Dose from Inhalation of Iodine-131."
- 3.6.3 KI is stored in the Emergency Medical Supply cabinet (OSC staging area). KI has an approved shelf-life with the expiration date listed on each tablet package. To ensure the KI supply is valid, these dates will be inspected during the quarterly OSC emergency supply inventory identified in WBN EPIP-12 and the KI will be replaced as necessary.
- 3.6.4 A copy of the Food and Drug Administration approved package insert shall accompany the issuance of KI. Dosage schedules and other pertinent information are outlined on the package insert and should be followed closely (Appendix E).
- 3.6.5 The issuing agent shall complete the "Potassium Iodide (KI) Issue Report," (Appendix F) for KI when issued. A copy of this report will be routed to the TSC RADCON Manager in a timely manner.

WBN	RADIOLOGICAL CONTROL RESPONSE	EPIP-14 Revision 14 Page 14 of 26
-----	-------------------------------------	---

### 3.0 INSTRUCTIONS (continued)

#### 3.7 Radioiodine Sample Acquisition

- 3.7.1 During accident conditions, noble gas concentrations may be present in significant quantities. The collection of these noble gases on charcoal cartridges during iodine sampling will interfere with subsequent iodine analysis. Silver zeolite (AgZ) cartridges are provided for use during periods of high noble gas concentrations.

**CAUTION 1** RCI-101 should be referenced for hazards associated with Silver Zeolite cartridge use.

**CAUTION 2** Sample cartridges may exhibit high dose rates after sampling during accident conditions. Exercise good ALARA practices when handling, storing, and disposing of these cartridges.

- 3.7.2 Radioiodine samples should be collected at 30 liters per minute (LPM) for daily or weekly samples. Grab samples may be collected at 30 or 60 LPM based upon the type of air sampler used and the conditions in the sample location.
- 3.7.3 Radioiodine sample volumes of less than 900 liters may be performed if it is known or suspected that dose rates on the AgZ cartridges will exceed 10 mrem/hr. During these instances, sample duration's may be reduced to 5 minutes. Sample duration's less than 5 minutes may be used for ALARA purposes but shall be pre-approved by the RCSS.
- 3.7.4 Upon completion of sampling activities, the air sample should be returned to the RADCON Lab for analysis as soon as possible. Prior to departing the RCA, a radiation survey of the sample head shall be performed to determine the contact dose rate. The results of this survey shall determine any special handling or packaging requirements during analysis.
- 3.7.5 IF the iodine sample activity is  $\geq 1$  mrem/hr., a contact dose rate should be taken by using a Ludlum 14-C or equivalent GM survey instrument with the beta window closed. The radioiodine air activity can be approximated by using the following formula:

$$\mu\text{Ci/ml} = \frac{[\text{Average of the Front and Back Contact Dose Rate (mrem/hr)} \times 5.1 \text{ E-3}]}{\text{Volume (liters)}}$$

WBN	RADIOLOGICAL CONTROL RESPONSE	EPIP-14 Revision 14 Page 15 of 26
-----	-------------------------------------	---

### 3.0 INSTRUCTIONS (continued)

- 3.7.6 Radioiodine cartridges with contact gamma dose rates greater than or equal to 100 mrem/hr shall not be delivered to the Chemistry Lab without prior approval of the Chemistry Count Room Supervisor and the RCSS.
- 3.7.7 RADCON personnel shall inform Chemistry personnel of the contact dose rates of the samples. RADCON personnel should provide radiological coverage during handling, analysis and disposal if samples read greater than 100 mrem/hr. The RCSS will approve disposal methods and location for all samples reading greater than 100 mrem/hr.
- 3.7.8 Gamma analysis results shall be reported to the RCSS as soon as possible.
- 3.7.9 Accident related radioiodine samples should be documented and analyzed in accordance with RCI-101 or CECC-EPIP-9 as appropriate.

### 3.8 Personnel Decontamination and Facilities

- 3.8.1 RCI-102 describes the procedures to be used for personnel decontamination.
- 3.8.2 Contaminated personnel are normally decontaminated at the 713' elevation decon facility. This facility is equipped with a wash sink, shower, and all necessary supplies. These supplies normally include various decontamination agents and soaps, towels, clean clothing, and other miscellaneous supplies.
- 3.8.3 Concerning radiation injuries, grossly contaminated personnel with injuries are normally treated at the 713' elevation prior to transfer to an offsite medical facility unless the injury requires immediate transportation.
- 3.8.4 Contaminated personnel requiring offsite medical attention are treated at either of the agreement hospitals (Rhea County Medical Center [Dayton] or Athens Regional Medical Center [Athens]). The hospital(s) have a complete staff and have been trained in the handling and care of contaminated patients. Refer to WBN EPIP-10 for guidance on transporting contaminated and radiation injuries to REACTs in Oak Ridge. Watts Bar maintains a supply cabinet at each hospitals' Emergency Room which contains posting materials and various other supplies.

<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 16 of 26</b>
------------	--	--

#### **4.0 REFERENCES**

##### **4.1 Interfacing Documents**

CECC-EPIP-9, "Emergency Radiological Monitoring Procedures"

WBN EPIP-6, "Activation and Operation of the Technical Support Center (TSC)"

WBN EPIP-7, "Activation and Operation of the Operations Support Center (OSC)"

WBN EPIP-8, "Personnel Accountability and Evacuation"

WBN EPIP-10, "Medical Emergency Response"

WBN EPIP-11 "Security and Access Control"

WBN EPIP-12, "Emergency Equipment and Supplies"

WBN EPIP-13, "Termination of the Emergency and Recovery"

WBN EPIP-15, "Emergency Exposure Guidelines"

WBN EPIP-16, "Initial Dose Assessment for Radiological Emergencies"

NRC Information Notice 90-08, Kr-85 Hazards from Decayed Fuel

##### **4.2 Other Documents**

10 CFR 50.72 Immediate Notification Requirements for Operating Nuclear Power Reactors

NUREG 0654, FEMA-REP-1, Rev. 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants

RCI-101, Radiation Contamination, and Airborne Surveys

RCI-102, Contamination and Hot Particle Control

RCI-120, Respirator Minimization Process

ANSI N18.7-1976

<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 17 of 26</b>
------------	--	--

#### 4.2 Other Documents (continued)

10 CFR 20 Standards for Protection Against Radiation

EPA 400-R-92-001, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents

ICS System User's Guide

### 5.0 APPENDICES

Appendix A, "RADCON Shift Supervisor"

Appendix B, "Alternate RADCON Lab Location"

Appendix C, "Selected Key In-plant Radiation Monitors"

Appendix D, "Occupational Dose From Inhalation of Iodine-131"

Appendix E, "Potassium Iodide Administration Instructions"

Appendix F, "Potassium Iodide Issue Report"

Appendix G, "RADCON Emergency Staffing Function/Times"

### 6.0 RECORDS

#### 6.1 QA Records

NONE

#### 6.2 Non-QA Records

Appendixes A, C, and F will be retained for real emergencies and the NRC Graded Exercise by the WBN EP Manager.



<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 18 of 26</b>
------------	--	--

## APPENDIX A

Page 1 of 1

### RADCON SHIFT SUPERVISOR CHECKLIST

**IF** The RCSS has been contacted of a REP activation, the following checklist may be used as a guide to complete actions.

1. **INITIATE** immediate requested actions by the Main Control Room (MCR). ☐
2. **IF** activation is ALERT or higher, ensure seven (7) additional ANSI Qualified RADCON personnel have responded to the emergency page. (Printout in OSC/TSC). Follow FFD directions for call-in of unscheduled work per EPIP-7.<sup>7</sup> ☐
3. **CONTACT** SQN to dispatch Offsite survey team per CECC-EPIP-9. ☐
4. **IF** time allows, prepare the Radiological Sampling Van to be dispatched per CECC-EPIP-9. ☐
5. **INITIATE** CECC-EPIP-9, as requested by the SM, TSC or CECC. ☐
6. **IF** following 2 conditions are met, go to the TSC and perform TSC RADCON Manager's functions until relieved. (Ref. WBN EPIP-6) ☐
  - ☐ RCSS functions can be performed from the TSC.
  - ☐ TSC RADCON Manager is not in the TSC.
7. **IF** Assembly Alarm has been activated, dispatch RADCON personnel to assembly areas (as needed) per WBN EPIP-8 to survey assembly areas. ☐
8. **DISPATCH** RADCON personnel for search and rescue teams into the plant (as needed) per WBN EPIP-8. ☐
9. **ENSURE** radiological habitability in the MCR, TSC and OSC throughout the REP activation. ☐
10. **DIRECT** radiological field monitoring teams until relieved by TSC RADCON Manager. ☐
11. **IF** evacuation of the RADCON Lab is required, relocate emergency equipment in Appendix B of this procedure. ☐

<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 19 of 26</b>
------------	--	--

## **APPENDIX B**

Page 1 of 1

### **ALTERNATE RADCON LAB/OSC LOCATION**

The location of the Alternate RADCON Lab/OSC will depend on inplant radiological conditions. The TSC RADCON Manager, after consultation with the SED, will make the decision on location transfer. Possible locations that will be considered are the **Alternate** OSC in the Main Office Building Team Room and the **Relay Room** 755' level next to the Control Room and the TSC or the WBN Training Center.<sup>5,8</sup>

Equipment identified in EPIP-12 Appendix A, will be moved to the alternate RADCON Lab if conditions warrant the evacuation of the 713' Lab.

<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 20 of 26</b>
------------	--	--

## APPENDIX C

Page 1 of 2

**RADCON** personnel should first utilize the Integrated Computer System (ICS) to assist them in tracking in-plant radiological conditions. Key radiation monitoring information can be found in the following TSC Mimics or ICS system group.

4RM1 In-plant radiation monitors  
4RM2 In-plant radiation monitors  
EFF1 Radiation monitors associated with the plant's release paths  
Group - System Group Menu - SYS-90-RAD MON

Questions on the ICS can be referenced in the ICS User's Manual which are located in the TSC/OSC.

Should the ICS not be available, then the worksheets of this appendix can be utilized (as needed) to track in-plant radiological conditions.

### SELECTED KEY IN-PLANT RADIATION MONITORS

DESCRIPTION	IDENTIFIER	BACKGROUND  READING	UPDATED READINGS, CPM, mR/Hr., or R/Hr.			
			Date	Date	Date	Date
			Time	Time	Time	Time
O-M-12 Spent Fuel Pit Area (El. 757)	1&2-RE-90-1					
Upper Containment RB (El. 757)	1-RE-90-2					
Spent Fuel Pool Skimmer (El. 737) Filter Area Monitor	0-RE-90-5					
CCW Heat Exchangers (El. 737)	1&2-RE-90-6					
Hot Sample Room (El. 713)	1&2-RE-90-7					
AFW Pump Area (El. 713)	1&2-RE-90-8					
Waste Condensate Tanks (El. 692)	0-RE-90-9					
CVCS Board Area (El. 692)	1&2-RE-90-10					
CS & RHR Pump Area (El. 676)	0-RE-90-11					
RB Low Compt Inst Rm (El. 736)	1-RE-90-61					

<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 21 of 26</b>
------------	--	--

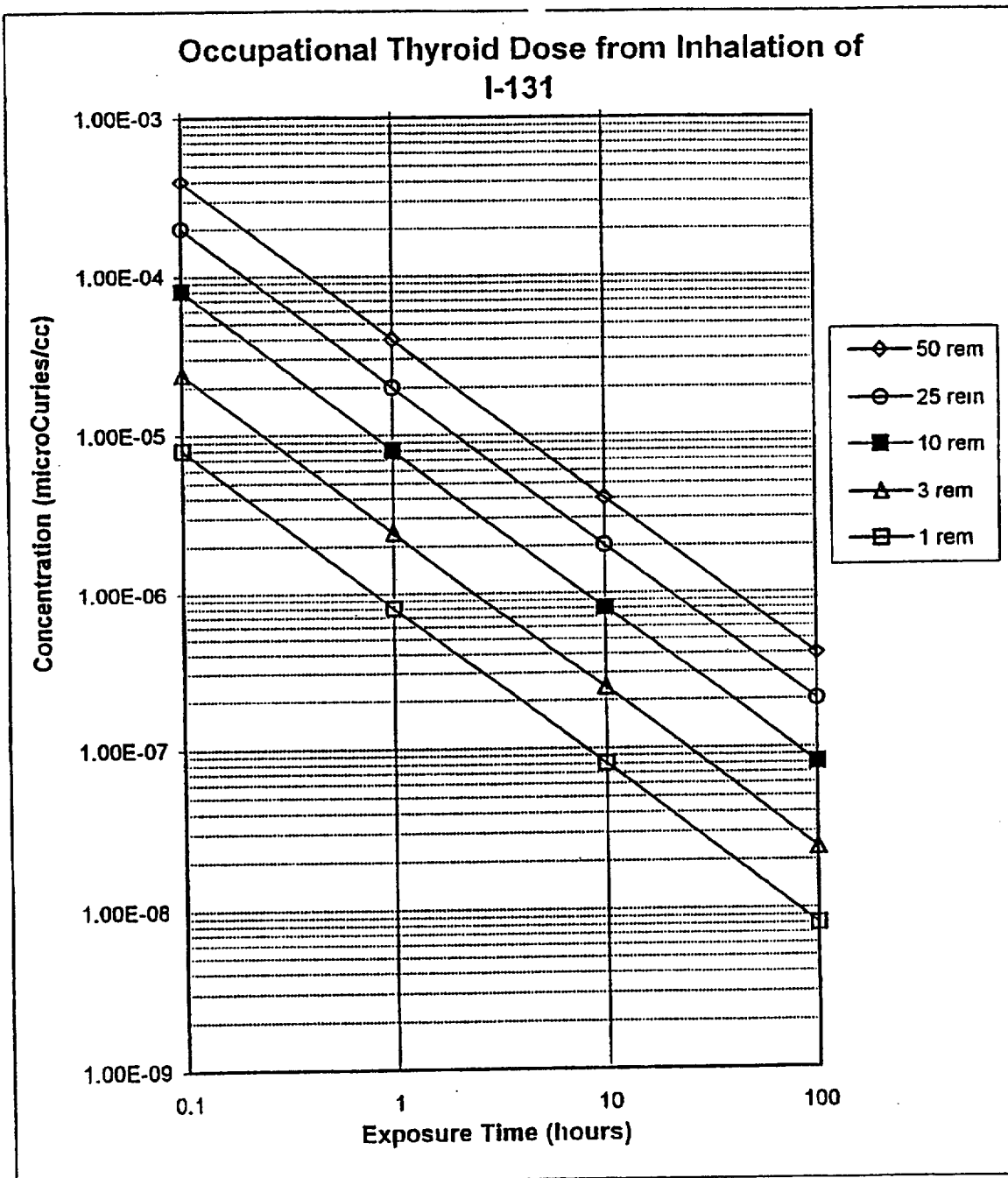
APPENDIX C  
Page 2 of 2

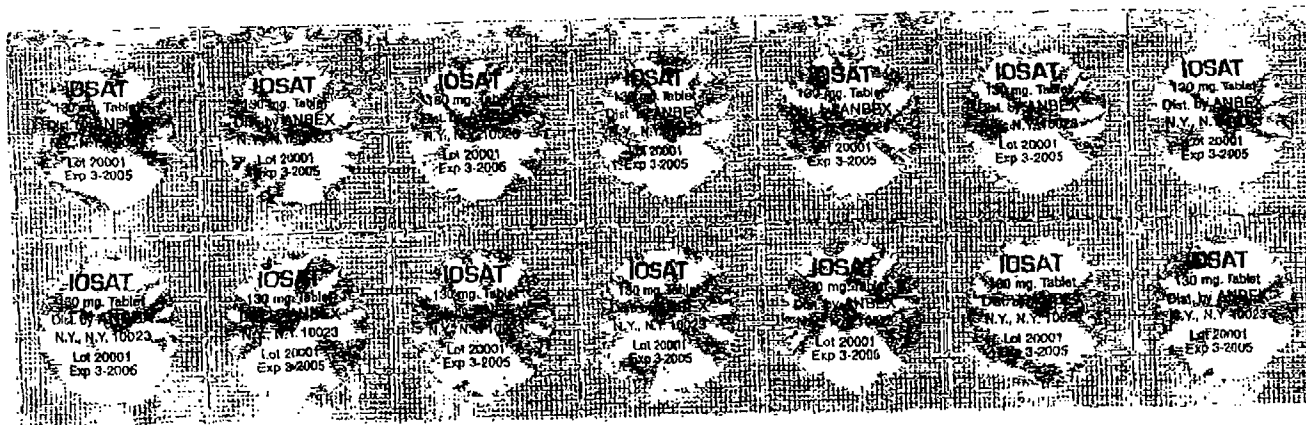
**SELECTED KEY IN-PLANT RADIATION MONITORS**

DESCRIPTION	IDENTIFIER	BACKGROUND  READING	UPDATED READINGS, CPM, mR/Hr., or R/Hr.			
			Date	Date	Date	Date
			Time	Time	Time	Time
Inside RB-Upper Containment (El. 737)	1-RE-90-112					
Inside RB-Lower Containment (El. 737)	1-RE-90-106					
Condensate Demin (El. 685)	0-RE-90-230 0-RE-90-231					
(Space for additional monitors)						

WBN	RADIOLOGICAL CONTROL RESPONSE	EPIP-14 Revision 14 Page 22 of 26
-----	-------------------------------------	---

APPENDIX D  
Page 1 of 1





## IOSAT™ Tablets

### IOSAT™ Tablets

(Potassium Iodide Tablets, U.S.P.)  
(Pronounced pae-TASS-e-um- EYE-oh-dyed)  
(Abbreviated KI)

TAKE POTASSIUM IODIDE ONLY WHEN PUBLIC HEALTH OFFICIALS TELL YOU. IN A RADIATION EMERGENCY RADIOACTIVE IODINE COULD BE RELEASED INTO THE AIR. POTASSIUM IODIDE (A FORM OF IODINE) CAN HELP PROTECT YOU.

IF YOU ARE TOLD TO TAKE THIS MEDICINE, TAKE IT ONE TIME EVERY 24 HOURS. DO NOT TAKE IT MORE OFTEN. MORE WILL NOT HELP YOU AND MAY INCREASE THE RISK OF SIDE EFFECTS. DO NOT TAKE THIS DRUG IF YOU KNOW YOU ARE ALLERGIC TO IODIDE (SEE SIDE EFFECTS BELOW).

#### INDICATIONS

THYROID BLOCKING IN A RADIATION EMERGENCY ONLY

#### DIRECTIONS FOR USE

Use only as directed by State or local public health authorities in the event of a radiation emergency.

#### DOSE

ADULTS AND CHILDREN ONE YEAR OF AGE OR OLDER: One (1) tablet once a day. Crush for small children.

INFANTS UNDER ONE YEAR OF AGE: One-half (1/2) tablet once a day. Crush first.

**DOSAGE:** Take for 10 days unless directed otherwise by State or local public health authorities. Store at controlled room temperature

between 16° and 30°C (59° to 86°F). Keep package dry and foil packets intact.

#### WARNING

POTASSIUM IODIDE SHOULD NOT BE USED BY PEOPLE ALLERGIC TO IODIDE. Keep out of the reach of children. In case of overdose or allergic reaction, contact a physician or public health authority.

#### DESCRIPTION

Each IOSAT™ Tablet contains 130 mg. of potassium iodide.

#### HOW POTASSIUM IODIDE WORKS

Certain forms of iodine help your thyroid gland work right. Most people get the iodine they need from foods like iodized salt or fish. The thyroid can "store" or hold only a certain amount of iodine.

In a radiation emergency, radioactive iodine may be released in the air. This material may be breathed or swallowed. It may enter the thyroid gland and damage it. The damage would probably not show itself for years. Children are most likely to have thyroid damage.

If you take potassium iodide, it will fill up your thyroid gland. This reduces the chance that harmful radioactive iodine will enter the thyroid gland.

#### WHO SHOULD NOT TAKE POTASSIUM IODIDE

The only people who should not take potassium iodide are people who know they are allergic to iodine. You may take potassium iodide even if you are taking medicines for a thyroid problem (for example, a thyroid hormone or antithyroid drug). Pregnant and nursing women and babies and children may also take this drug.

#### HOW AND WHEN TO TAKE POTASSIUM IODIDE

Potassium iodide should be taken as soon as possible after public health officials tell you. You should take one dose every 24 hours. More will not help you because the thyroid can "hold" only limited amounts of iodine. Larger doses will increase the risk of

side effects. You will probably be told not to take the drug for more than 10 days.

#### SIDE EFFECTS

Usually, side effects of potassium iodide happen when people take higher doses for a long time. You should be careful not to take more than the recommended dose or take it for longer than you are told. Side effects are unlikely because of the low dose and the short time you will be taking the drug.

Possible side effects include skin rashes, swelling of the salivary glands, and "iodism" (metallic taste, burning mouth and throat, sore teeth and gums, symptoms of a head cold, and sometimes stomach upset and diarrhea).

A few people have an allergic reaction with more serious symptoms. These could be fever and joint pains, or swelling of parts of the face or body and at times severe shortness of breath requiring immediate medical attention.

Taking iodine may rarely cause overactivity of the thyroid gland, underactivity of the thyroid gland, or enlargement of the thyroid gland (goiter).

#### WHAT TO DO IF SIDE EFFECTS OCCUR

If the side effects are severe or if you have an allergic reaction, stop taking potassium iodide. Then, if possible, call a doctor or public health authority for instructions.

#### HOW SUPPLIED

IOSAT Tablets (Potassium Iodide Tablets, U.S.P.): packages of 14 tablets (NDC51803-001-01): Each white, round, scored tablet contains 130 mg. potassium iodide

Distributed by  
ANBEX, INC.

15 W. 75th St., New York, N.Y. 10023

**INDICATIONS: THYROID BLOCKING  
IN A RADIATION EMERGENCY ONLY.**

POTASSIUM IODIDE (KI) ADMINISTRATION INSTRUCTIONS<sup>3</sup>

APPENDIX E  
Page 1 of 1

WBNI	RADIOLOGICAL CONTROL RESPONSE	EP1P-14 Revision 14 Page 23 of 26
------	-------------------------------------	---



<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 25 of 26</b>
------------	--	--

# APPENDIX G

Page 1 of 1

## RADCON EMERGENCY STAFFING FUNCTIONS/TIMES

<u>Major Task</u>	<u>On Shift</u>	<u>30 minutes</u>	<u>60 minutes</u>
A. In-Plant Surveys	1	1	1
B. Radiation Protection:*	2**	2**	2
1. Access Control			
2. HP Coverage for Repair Corrective Action, Search and Rescue, First Aid and Fire fighting			
3. Personnel Monitoring			
4. Dosimetry			
C. Onsite (Out-of-Plant)	-	1**	1
D. Offsite Surveys	-	2***	2†
E. Senior Health Physics Expertise		1****	

†Coverage can be provided by the SQN RADCON Monitoring Van.

\*May be provided by Shift personnel assigned other functions.

\*\*May be provided by task specific trained personnel.

\*\*\*Driver may not be a RADCON Tech if enough RADCON Techs. are not available.

\*\*\*\*RCSS will report to TSC if able to manage the RADCON Lab from there.



<b>WBN</b>	<b>RADIOLOGICAL CONTROL RESPONSE</b>	<b>EPIP-14 Revision 14 Page 26 of 26</b>
------------	--	--

#### **SOURCE NOTES**

Page 1 of 1

- <sup>1</sup> MC-840827005009, MSC-02381  
NCO-920030990

Include priority for Radiological Surveillance Support. General Instruction Section 3.1, 3.1.2, 3.2.10, Alert 3.3.2, Site Area Emergency 3.3.3, General Emergency 3.3.4, Section 3.4 Duties of Radcon Personnel assigned to the TSC, 3.5.4 Duties of Radcon personnel assigned to the Radcon Lab.
- <sup>2</sup> MC-840827005010, MSC-02382  
NCO-920030991

Issuance of Dosimetry devices to those personnel remaining inside the fence. Precautions and limitations Section 3.2, 3.2.2, and 3.2.7.
- <sup>3</sup> MC-840827005028, MSC-02394  
NCO-920030995

SED is responsible for recommended issuance of KI for projected doses exceeding 24 REM. Section 3.6 Issuance of Potassium Iodine 3.6.1, Appendix E (pp. 1 and 2). Also see EPIP-6 App. I (pg. 2 of 2).
- <sup>4</sup> ANSI N18.7-1976  
Subsection 5.3.9.3: 01 POI

EPIPs will contain the following elements.
- <sup>5</sup> MC-840827005029, MSC-02395  
NCO-840115012

Alternate lab (potential) locations.
- <sup>6</sup> 390/93-64A

10 CFR 20 revisions.
- <sup>7</sup> SQ970202PER

Reference ANSI Qualified.
- <sup>8</sup> WBPEN 98016506

OSC Alternate Locations.