



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

NOV 15 1999

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

Gentlemen:

In the Matter of) Docket No. 50-390
Tennessee Valley Authority)

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 EPIPs as follows:

<u>EPIP</u>	<u>Rev</u>	<u>Title</u>	<u>Effective Date</u>
EPIP-2	11	Notification of Unusual Event	10-21-99
EPIP-3	14	Alert	10-21-99
EPIP-4	14	Site Area Emergency	10-21-99
EPIP-5	14	General Emergency	10-21-99
EPIP-6	13	Activation and Operation of the Technical Support Center	10-21-99
EPIP-7	09	Activation and Operation of the Operations Support Center	10-21-99
EPIP-9	08	Loss of Meteorological Data	10-21-99
EPIP-12	13	Emergency Equipment and Supplies	10-22-99

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U.S. Nuclear Regulatory Commission
Page 2

NOV 15 1999

Filing instructions are included with these documents.

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
Watts Bar Nuclear Plant
1260 Nuclear Plant Road
Spring City, Tennessee 37381

Mr. Robert E. Martin, 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

TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT

**EMERGENCY PLAN IMPLEMENTING
PROCEDURES**

EPIP-2

NOTIFICATION OF UNUSUAL EVENT

Revision 11

Unit 0

QUALITY RELATED

PREPARED BY: F. L. Pavlechko
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY Frank L. Pavlechko

EFFECTIVE DATE: 10/21/99

LEVEL OF USE: REFERENCE

WBN	NOTIFICATION OF UNUSUAL EVENT	EPIP-2 Revision 11 Page 2 of 12
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REVISION LOG

Revision Number	Implementation Date	Description of Revision
0	04/13/90	Superseded IP-2
1	04/01/91	Editorial and format changes
2	01/22/92	Editorial and format changes
3	02/10/93	Add Section 2.0 Responsibility. Add Site Emergency Director announcements to Section 3.0. Change Section 3.0 to reflect removal of red Emergency Notification System ring-down phones which are being replaced by NRC designated phones which will require dialing a number. Add 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	08/16/93	Editorial (non-intent) and format changes. Source notes added to the procedure.
5	05/27/94	Follow-up notification form added to the procedure. Phone numbers revised.
6	08/01/94	Initial Dose Assessment for Radiological Emergencies (EPIP-16) referenced and phone numbers to the NRC Response Center revised.
7	04/21/95	Phone number revised. Editorial (non-intent) changes made.

WBN	NOTIFICATION OF UNUSUAL EVENT	EPIP-2 Revision 11 Page 3 of 12
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Revision Number	Implementation Date	Pages Affected	Description of Revision
CN-1	09/28/95	4, 5	Phone numbers revised (new area code). Editorial (non-intent) changes made.
8	7/5/96	4,5,6,7,8	Phone number and titles revised. Procedure (TI-30) replacement identified. All revisions were evaluated to be non-intent.
9	10/10/96	3,4,5, 8,9	The following non-intent revisions were made: SM designee identified by title, OSC and TSC support personnel instruction added, a reference was added and the non-QA record instructions revised.
CN-1	3/27/97	3,5,6	TEMA additional back-up number added.
CN-2	2/2/98	3,5,7,8	SSP-4.05 was replaced by SPP-3.5 in new procedure system. Editorial.
10	6/30/98	All	Non-Intent Change. Incorporated Change Notices 1 and 2. Changed reference SSP 3.4 to SPP 3.1.
11	10/21/99	All	Non Intent Change. Moved termination of emergency step from Appendix A to Appendix B. STD-3.2 reference canceled.

WBN	NOTIFICATION OF UNUSUAL EVENT	EPIP-2 Revision 11 Page 4 of 12
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1.0 PURPOSE

- 1.1 To provide a method for timely notification of appropriate individuals when the Shift Manager (SM) or Site Emergency Director (SED), Technical Support Center (TSC) has determined by WBN, EPIP-1 that an incident has occurred which is classified as a **NOTIFICATION OF UNUSUAL EVENT**.⁵
- 1.2 To provide a method for periodic reanalysis of the current situation by the SED to determine whether the **NOTIFICATION OF UNUSUAL EVENT** action(s) should be terminated, continued or upgraded to another classification.

2.0 RESPONSIBILITY

The SED who is initially the SM (or other SM on-site during the emergency) or designee (Unit Supervisor, US) until properly relieved by the TSC SED, has the responsibility and authority for implementation of the action(s) in this instruction.⁵

3.0 INSTRUCTIONS

- 3.1 Upon determining that existing conditions are classified as a **NOTIFICATION OF UNUSUAL EVENT** according to EPIP-1 (independent evaluations by crew members may be beneficial), the SED, or designee, will:^{4,5}
1. **IF** there are personnel injuries, **IMPLEMENT** EPIP-10, "Medical Emergency Response."
 2. **COMPLETE** Appendix A, Notification Information
 3. **ANNOUNCE** to the crew: "A Notification of Unusual Event is being declared based on _____. I will be the Site Emergency Director."

WBN	NOTIFICATION OF UNUSUAL EVENT	EPIP-2 Revision 11 Page 5 of 12
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4. **NOTIFY** the ODS direct by ODS Ringdown or No. 5-751-1700 or 5-751-2495 and **PROVIDE** the information from Appendix A. **IF** the ODS cannot be contacted within 10 minutes, the Tennessee Emergency Management Agency is to be notified of the Radiological Emergency Plan activation by calling: 9-1-800-262-3300 or 9-1-615-741-0001 or 9-1-800-262-3400.²
5. **FAX** Appendix A to the ODS. (No. pre-programmed or 5-751-8620.)
6. **ANNOUNCE** to the plant, "ATTENTION ALL SITE PERSONNEL. ATTENTION ALL SITE PERSONNEL. A Notification of Unusual Event is being declared based on _____ conditions." (Repeat)
7. **NOTIFY** Duty Plant Manager, and **PROVIDE** Appendix A information (**SEE** duty list for telephone numbers). The Duty Plant Manager will call the Plant Manager or alternate.
8. **IF** TSC and OSC support is needed, **ACTIVATE** the emergency paging system (EPS).
9. **NOTIFY** NRC, using the designated NRC phone (ENS), of plan activation.

NOTE NRC notification should be made as soon as practicable, within one hour of "NOTIFICATION OF UNUSUAL EVENT" declaration. Whenever NRC requests, a qualified person must provide a continuous update to the NRC Operations Center. The following commercial numbers for the NRC Operations Center can be used as backups if the designated line is unavailable:^{3,6}

9-1-301-816-5100 (MAIN)
9-1-301-951-0550 (Backup)
9-1-301-816-5151 (FAX)

10. **EVALUATE** the need to implement EPIP-16, "Initial Dose Assessment for Radiological Emergencies," for a dose projection if radioactivity is being released through normal plant release paths.

WBN	NOTIFICATION OF UNUSUAL EVENT	EPIP-2 Revision 11 Page 6 of 12
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3.0 INSTRUCTIONS (continued)

11. **NOTIFY WBN Emergency Preparedness.** □

NOTE Notification to Emergency Preparedness should be made as soon as practicable, but only when notification does not interfere with emergency actions or notifications in progress.

Work - 3232	or	Work - 8004
Home - [REDACTED]		Home - [REDACTED]
Pager - 30374		Pager - 30388

12. **REEVALUATE** the event using WBN EPIP-1 as necessary to determine if conditions warrant reclassification. □

- A. **IF** the situation no longer exists, **TERMINATE** the emergency by informing the ODS and the Duty Plant Manager.
- B. **IF** the condition warrants upgrading to a higher classification, **INITIATE** the appropriate steps of WBN EPIPs 3, 4, or 5.
- C. **IF** other plant conditions warrant the need for follow-up information, **COMPLETE** the Follow-up Notification Form, Appendix B and **NOTIFY** the TSC/CECC (if it is staffed), or

NOTIFY the ODS direct by ODS Ringdown or No. 5-751-1700 or 5-751-2495 and **PROVIDE** the information. **IF** the ODS cannot be contacted within 10 minutes, the Tennessee Emergency Management Agency is to be notified of the information by calling:
9-1-800-262-3300 or 9-1-615-741-0001 or 9-1-800-262-3400.² □

WBN	NOTIFICATION OF UNUSUAL EVENT	EPIP-2 Revision 11 Page 7 of 12
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13. **FAX** Appendix B to the ODS.
(No. pre-programmed or 5-751-8620.)

CAUTION If there is any possibility of a radiological release, do not send personnel into areas of unknown radiological conditions without first contacting Radiological Control.

14. **ENSURE** applicable notifications required by SPP-3.5 and SPP-3.01 have been made.
15. **NOTIFY** the NRC Resident Inspector by calling 1776 and **PROVIDING** the information on Appendix A.
16. After the event is terminated, **SEND** the completed WBN EPIP-2 and associated documentation to WBN Emergency Preparedness (EP) Manager. The EP Manager shall forward documentation to DCRM for storage as appropriate.

WBN	NOTIFICATION OF UNUSUAL EVENT	EPIP-2 Revision 11 Page 8 of 12
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4.0 REFERENCES

4.1 Interfacing Documents

SPP-3.01 Corrective Action Program

SPP-3.5 Regulatory Reporting Requirements

WBN-EPIP-1 Emergency Plan Classification Flowchart

WBN-EPIP-3 Alert

WBN-EPIP-4 Site Area Emergency

WBN-EPIP-5 General Emergency

WBN-EPIP-10 Medical Emergency Response

WBN-EPIP-13 Termination of the Emergency and Recovery

WBN-EPIP-14 Radiological Control Response

WBN-EPIP-16 Initial Dose Assessment for Radiological Emergencies

CECC-EPIP-9 Emergency Environmental Radiological Monitoring Procedures

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.

ANSI N 18.7 - 1976

WBN	NOTIFICATION OF UNUSUAL EVENT	EPIP-2 Revision 11 Page 9 of 12
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5.0 APPENDIX

Appendix A, Notification Information

Appendix B, Follow-up Notification Form

6.0 RECORDS

6.1 QA Records

Entire EPIP-2, when the REP is activated, is a QA Record.

6.2 Non QA Records

All EPIP-2 records generated during the course of a drill/exercise will be assembled by the EP Manager and stored appropriately.

WBN	NOTIFICATION OF UNUSUAL EVENT	EPIP-2 Revision 11 Page 10 of 12
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APPENDIX A (Page 1 of 1)
NOTIFICATION INFORMATION

INITIAL NOTIFICATION FORM ^{1,4}

1. "THIS IS A REAL EMERGENCY. THIS IS A REAL EMERGENCY."
OR
 "THIS IS A DRILL. THIS IS A DRILL."
2. "This is _____ at the Watts Bar Nuclear Plant.
There has been a REP activation on Unit 1 Unit 2 .
3. "The emergency classification is **Notification of Unusual Event.**"
4. "The Event designator(s)/Brief Description is/are (e.g., Fire 4.1) _____."
5. "The plant conditions are: Stable Deteriorating."
6. "The radiological conditions are:
 - No Abnormal Release Offsite
 - Airborne Release Offsite
 - Liquid Release Offsite
 - Release Information Not Known."
7. "The time the classification was declared _____ / _____."
Time Date
8. "There is no Protective Action Recommendation at this time."
9. "Please repeat the information you have received to ensure accuracy."
10. _____ / _____
Signature Date

WBN	NOTIFICATION OF UNUSUAL EVENT	EPIP-2 Revision 11 Page 11 of 12
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APPENDIX B (Page 1 of 1)

WBN FOLLOW-UP INFORMATION FORM
NOTIFICATION OF UNUSUAL EVENT

1. "THIS IS A REAL EVENT" or "THIS IS A DRILL."
2. "This is _____ at the Watts Bar Nuclear Plant.
This is follow-up information regarding the Notification of Unusual Event at
Watts Bar: Unit 1 Unit 2 .
3. "Reactor: Shutdown At power
4. "Plant conditions are: Stable Deteriorating
5. "Follow-up information: (e.g., key events, status changes)

6. "The radiological conditions are:
 - No Abnormal Release Offsite
 - Airborne Release Offsite
 - Liquid Release Offsite
 - Release Information Not Known."
7. "Additional Rad information: (e.g., release duration)

8. "There is no Protective Action Recommendation at this time."
9. "The event terminated at _____ / _____."
Time Date
10. "Please repeat the information you have received to ensure accuracy."
11. _____ / _____ / _____
Signature Time Date

WBN	NOTIFICATION OF UNUSUAL EVENT	EPIP-2 Revision 11 Page 12 of 12
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SOURCE NOTES

Page 1 of 1

- | | | |
|---|---|--|
| 1 | NRC IE Information Notice 89-89 | Event Notification Worksheets |
| 2 | NRC IE Information Notice 86-97 | Emergency Communications System |
| 3 | NRC IE Information Notice 86-28 | Telephone Numbers to the NRC Operations Center and Regional Offices |
| 4 | MC 840827 00500 4A, MSC-02375, NCO 9200 30985 | Section 3.0 Instructions, 3.1, and Appendix A (Page 1 of 1). |
| 5 | ANSI N18.7-1976
Subsection 5.3.9.3: 01POR | EIPs will contain the following elements. |
| 6 | NRC Administrative Letter 94-04 | Change of NRC Operation Center commercial telephone and facsimile numbers. |

TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT

**EMERGENCY PLAN IMPLEMENTING
PROCEDURES**

EPIP-3

ALERT

Revision 14

Unit 0.

QUALITY RELATED

PREPARED BY: F. L. Pavlechko
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 10/21/99

LEVEL OF USE: REFERENCE

WBN	ALERT	EPIP-3 Revision 14 Page 2 of 12
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REVISION LOG

Revision Number	Implementation Date	Description of Revision
0	04/13/90	Superseded IP-3
1	04/01/91	Editorial and format changes.
2	01/22/92	Enhanced with human factor editorial changes and updated references.
3	02/10/93	Insert Section 2.0 Responsibility. Add Site Emergency Director announcements to Section 3.0. Change title of Plant Duty Supervisor to Duty Plant Manager. Change Section 3.0 to reflect removal of red Emergency Notification System ring-down phones which are being replaced by NRC designated phones which will require dialing a number. Modify Appendix A so that when faxed or copied, last few lines will not be excluded. Removed notes which addressed steps that have already been performed. NUREG 0654, FEMA-REP-1, Rev.1, <i>Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in support of Nuclear Power Plants.</i>
4	8/16/93	Editorial (non-intent) and format changes. Source notes added to the procedure.
5	1/1/94	Added NRC Resident call as Step 16.
6	01/11/94	Included notifying Security (CAS) on Step 9. changed wording on Step 17 to initiate WBN EPIP-13.
7	05/27/94	Followup Notification Form added to the procedure. Phone numbers revised.
8	8/1/94	Initial Dose Assessment for Radiological Emergencies (EPIP-16) referenced and phone numbers to the NRC Response Center revised.
9	10/14/94	Revised phone number.
10	04/21/95	Revised phone numbers. Editorial (non-intent) changes made.

WBN	ALERT	EPIP-3 Revision 14 Page 3 of 12
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Revision Number	Implementation Date	Pages Affected	Description of Revision
11	7/5/96	4,5,7,8	Phone number and titles revised. Procedure replacement (TI-30) identified. All revisions were evaluated to be non-intent
12	10/10/96	3,4,8,9	The following non-intent revisions were made: Shift Personnel replaced Shift Clerk to reflect additional personnel trained on the paging system, SM designee identified by title, a phone number added, a reference was added and the non-QA record instructions were revised.
CN-1	3/27/97	3,5,7	TEMA added alternate phone number.
CN-2	2/2/98	3, 5, 7, 8	SSP-4.05 was replaced by SPP-3.5 in new procedure system. Editorial changes.
13	6/30/98	All	Non-Intent Changes. Incorporated Change Notices 1 and 2. Changed reference SSP 3.4 to SPP 3.1.
14	10/21/99	All	Non Intent Change. Moved termination of emergency step from Appendix A to Appendix B. STD-3.2 referenced canceled.

WBN	ALERT	EPIP-3 Revision 14 Page 4 of 12
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1.0 PURPOSE

- 1.1 To provide a method for timely notification of appropriate individuals when the Shift Manager (SM) or Technical Support Center (TSC) Site Emergency Director (SED) has determined by WBN EPIP-1 that an incident has occurred which is classified as an ALERT.⁴
- 1.2 To provide a method for periodic reanalysis of the current situation by the SED to determine whether the ALERT should be terminated, continued or upgraded to another classification.

2.0 RESPONSIBILITY⁴

The SED who is initially the SM (or other SM onsite during the emergency) or designee (Unit Supervisor, US) until properly relieved by the TSC SED, has the responsibility and authority for implementation of the actions in this instruction.

3.0 INSTRUCTIONS⁴

- 3.1 Upon determining that existing conditions are classified as an ALERT according to EPIP-1 (independent evaluations by crew members may be beneficial), the SED, or designee, will:

1. **DIRECT** Shift Personnel to activate the Emergency Paging System (EPS) to staff the TSC and Operations Support Center (OSC). Shift Personnel should confirm activation and provide the 20 minute printed report to the SM for review.

NOTE 1 IF the EPS systems fails, call the ODS (5-751-1700) and have him activate the EPS.

NOTE 2 IF the above methods of activating the EPS fail, the Shift Personnel must use the Radiological Emergency Response Call Lists to staff the TSC and OSC. This list is located in the EPS Manual near the terminal.

2. **COMPLETE** Appendix A, Notification Information.
3. **ANNOUNCE** to the crew: "An Alert is being declared based on _____ I will be the Site Emergency Director."

WBN	ALERT	EPIP-3 Revision 14 Page 5 of 12
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3.0 INSTRUCTIONS (continued)

4. **NOTIFY** the ODS direct by ODS Ringdown or No. 5-751-1700 or 5-751-2495 and **PROVIDE** the information from Appendix A. If the ODS cannot be contacted within 10 minutes, the Tennessee Emergency Management Agency is to be notified of the Radiological Emergency Plan activation by calling 9-1-800-262-3300 or 9-1-615-741-0001 or 9-1-800-262-3400.²
5. **FAX** Appendix A to the ODS. (No. pre-programmed or 5-751-8620.)
6. **ANNOUNCE** to the plant: "ATTENTION ALL SITE PERSONNEL. ATTENTION ALL SITE PERSONNEL. An ALERT emergency has been declared based on _____ Staff the TSC and OSC." (Repeat)
7. **EVALUATE** plant conditions, and **IF** conditions warrant, **INITIATE** assembly and accountability by completing steps 8 and 9. (For additional details, go to WBN EPIP-8, "Personnel Accountability and Evacuation"). **IF** you are not going to initiate assembly and accountability, **GO TO** step 10.
8. **NOTIFY** Security (CAS) that assembly and accountability is to be conducted.

CAUTION If there is any possibility of a radiological release, do not send personnel into areas of unknown radiological conditions without first contacting Radiological Control (RADCON).

9. **ANNOUNCE** to the plant: "ATTENTION ALL SITE PERSONNEL. ATTENTION ALL SITE PERSONNEL. Report to your assembly areas for accountability" (Repeat) **AND ACTIVATE** assembly alarm for personnel assembly and accountability. **INITIATE** WBN EPIP-8, "Personnel Accountability and Evacuation."¹
10. **CALL** RADCON Lab and **SAY**: "We are in an Alert, implement WBN EPIP-14 and CECC EPIP-9."

WBN	ALERT	EPIP-3 Revision 14 Page 6 of 12
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3.0 INSTRUCTIONS (continued)

- 11. **IF** there are personnel injuries, **IMPLEMENT** WBN EPIP-10, "Medical Emergency Response."
- 12. **IF** there is a security threat, **IMPLEMENT** WBN EPIP-11, "Security and Access Control."
- 13. **NOTIFY** Duty Plant Manager, and **PROVIDE** Appendix A information (**SEE** duty list for telephone numbers). The Duty Plant Manager will call the Plant Manager or his alternate.
- 14. **EVALUATE** the need to implement EPIP-16, "Initial Dose Assessment for Radiological Emergencies," for a dose projection if radioactivity is being released through normal plant release paths.
- 15. **NOTIFY** the NRC, using designated NRC phone (ENS), of plan activation.

NOTE

NRC notification should be made as soon as practicable but within one hour of "ALERT" declaration. Whenever NRC requests, a qualified person must provide a continuous update to NRC Operations Center. The following commercial numbers for the NRC Operations Center can be used as backups if the designated line is unavailable:^{3,5}

9-1-301-816-5100 (MAIN)
9-1-301-951-0550 (BACKUP)
9-1-301-816-5151 (FAX)

- 16. **NOTIFY** the NRC Resident Inspector by calling 1776 and **PROVIDING** the information on Appendix A.

WBN	ALERT	EPIP-3 Revision 14 Page 7 of 12
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3.0 INSTRUCTIONS (continued)

17. **REEVALUATE** conditions using WBN EPIP-1 as necessary.
- A. **IF** the conditions are under control, **INITIATE** actions identified in WBN EPIP-13, "Termination of the Emergency and Recovery."
- B. **IF** the conditions warrant upgrading to a higher classification, **INITIATE** the appropriate steps of WBN EPIP-4 or EPIP-5.
- C. **IF** other plant conditions warrant the need for followup information, **COMPLETE** the Followup Notification Form, Appendix B, and **NOTIFY** the TSC/CECC (if it is staffed) or,
- NOTIFY** the ODS direct by ODS Ringdown or No. 5-751-1700 or 5-751-2495 and **PROVIDE** the information. **IF** the ODS cannot be contacted within 10 minutes, the Tennessee Emergency Management Agency is to be notified of the information by calling:
9-1-800-262-3300 or 9-1-615-741-0001 or 9-1-800-262-3400²
18. **FAX** Appendix B to the ODS.
(No. pre-programmed or 5-751-8620.)
19. **ENSURE** applicable notifications required by SPP-3.5 and SPP-3.01 have been made.
20. **SEND** the completed WBN EPIP-3 and associated documentation to the Emergency Preparedness (EP) Manager. The EP Manager shall forward documentation to DCRM for storage as appropriate.

WBN	ALERT	EPIP-3 Revision 14 Page 8 of 12
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4.0 REFERENCES

4.1 Interfacing Documents

SPP-3.5 Regulatory Reporting Requirements

SPP-3.01 Corrective Action Program

WBN-EPIP-1 Emergency Plan Classification Flowchart

WBN-EPIP-2 Notification of Unusual Event

WBN-EPIP-4 Site Area Emergency

WBN-EPIP-5 General Emergency

WBN-EPIP-10 Medical Emergency Response

WBN-EPIP-11 Security and Access Control

WBN-EPIP-13 Termination of the Emergency and Recovery

WBN-EPIP-16 Initial Dose Assessment for Radiological Emergencies

CECC-EPIP-9 Emergency Environmental Radiological Monitoring Procedures

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.

ANSI N18.7-1976

CECC-EPIP-8 Dose Assessment Staff Activities During Nuclear Plant Radiological Emergencies

WBN	ALERT	EPIP-3 Revision 14 Page 9 of 12
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5.0 APPENDIX

Appendix A, Notification Information

Appendix B, Followup Notification Form

6.0 RECORDS

6.1 QA Records

Entire WBN EPIP-3, when the REP is activated, is a QA Record.

6.2 Non-QA Records

All EPIP-3 records generated during the course of a drill/exercise will be assembled by the EP Manager and stored appropriately.

WBN	ALERT	EPIP-3 Revision 14 Page 12 of 12
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SOURCE NOTES

Page 1 of 1

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|---|--|--|
| 1 | NRC IE Information Notice No. 89-89 | <i>Event Notification Worksheets</i> |
| 2 | NRC IE Information Notice No. 86-97 | <i>Emergency Communications System</i> |
| 3 | NRC IE Information Notice No. 86-28 | <i>Telephone Numbers to the NRC Operations Center and Regional Offices</i> |
| 4 | ANSI N18.7-1976
Subsection 5.3.9.3: 01POI | <i>EPIPs will contain the following elements.</i> |
| 5 | NRC Administrative Letter 94-04 | <i>Change of NRC Operations Center commercial telephone and facsimile numbers.</i> |

TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT

**EMERGENCY PLAN IMPLEMENTING
PROCEDURES**

EPIP-4

SITE AREA EMERGENCY

Revision 14

Unit 0

QUALITY RELATED

PREPARED BY: F. L. Pavlechko
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 10/21/99

LEVEL OF USE: REFERENCE

WBN	SITE AREA EMERGENCY	EPIP-4 Revision 14 Page 2 of 12
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REVISION DESCRIPTION:

Revision Number	Implementation Date	Description of Revision
0	04/13/90	Superseded IP-4.
1	04/01/91	Editorial and format changes.
2	01/22/92	Improved human factoring (pages 2-4) and updated references. Add a step for SM Clerk to provide EPS activation confirmation to SM. Specify EAL unique identifier in event description (Attachment 1).
3	02/10/93	Add Section 2.0 Responsibility. Add Site Emergency Director announcements to Section 3.0. Change title of Plant Duty Supervisor to Duty Plant Manager. Change Section 3.0 to reflect removal of red Emergency Notification System ring-down phones which are being replaced by NRC designated phones which will require dialing a number. Modify Appendix A so that when faxed or copied, last few lines will not be excluded. Removed notes which addressed steps that have already been performed. NUREG 0654, FEMA-REP-1, Rev.1, <i>Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in support of Nuclear Power Plants</i> .
4	8/16/93	Editorial (non-intent) and format changes. Source notes added to the procedure.
5	1/1/94	Added NRC Resident Call as Step 14.
6	4/11/94	Included notifying Security (CAS) on Step 7 and changed Step 15 to initiate WBN EPIP-13. Added county contingency notifications to Step 4.
7	05/27/94	Followup Information Form added to the procedure. Phone numbers revised.

WBN	SITE AREA EMERGENCY	EPIP-4 Revision 14 Page 3 of 12
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REVISION DESCRIPTION:

Revision Number	Implementation Date	Description of Revision	
8	8/1/94	Initial Dose Assessment for Radiological Emergencies (EPIP-16) referenced and phone numbers to the NRC Response Center revised.	
9	10/14/94	Revised phone number to McMinn County.	
10	4/21/95	Revised phone numbers. Editorial (non-intent) changes made.	
Revision Number	Implementation Date	Pages Affected	Description of Revision
CN-1	9/28/95	5	Revised phone numbers. Editorial (non-intent) changes made.
11	7/5/96	4,5,7,8	Phone number and titles revised. Procedure replacement (TI-30) identified. All revisions were evaluated to be non-intent.
12	10/10/96	3,4,5,8,9,10	The following non-intent revisions were made: Shift Personnel replaced Shift Clerk to reflect additional personnel trained on the paging system, SM designee identified by title, a phone number was added, assembly and accountability instruction enhanced, a reference was added, the non-QA record instructions were revised, and wind speed and direction were added to the initial notification form per TEMA request.
CN-1	3/27/97	3,5,6,7	TEMA additional back-up number added, changed county primary and back-up numbers
CN-2	7/31/97	3,5	Phone number change.
CN-3	2/2/98	3,5,7,8	SSP-4.05 was replaced by SPP-3.5. Editorial change.
13	6/30/98	All	Non-intent changes. Incorporated Changes Notices 1, 2 and 3. Changed reference SSP 3.4 to SPP 3.1.
14	10/21/99	All	Non-intent change. Moved termination of emergency step from Appendix A to Appendix B. STD-3.2 reference canceled.

WBN	SITE AREA EMERGENCY	EPIP-4 Revision 14 Page 4 of 12
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1.0 PURPOSE⁴

- 1.1 To provide a method for timely notification of appropriate individuals when the Shift Manager (SM) or Technical Support Center (TSC) SED has determined by WBN EPIP-1 that an incident has occurred which is classified as a SITE AREA EMERGENCY.
- 1.2 To provide a method for periodic reanalysis of the current situation by the SED to determine whether the SITE AREA EMERGENCY should be terminated, continued or upgraded to a General Emergency.

2.0 RESPONSIBILITY⁴

The SED who is initially the SM (or other SM onsite during the emergency) or designee (Unit Supervisor, US) until properly relieved by the TSC SED, has the responsibility and authority for implementation of the actions in this instruction.

3.0 INSTRUCTIONS

- 3.1 Upon determining that existing conditions are classified as a SITE AREA EMERGENCY according to WBN EPIP-1 (independent evaluations by crew members may be beneficial), the SED, or designee, will:⁴
 1. **DIRECT** the Shift Personnel to activate the Emergency Paging System (EPS) to staff the TSC and Operations Support Center (OSC). Shift Personnel should confirm activation and provide the 20 minute printed report to the SM for review. □

NOTE 1 IF the EPS system fails, call the ODS (5-751-1700) and have him activate the EPS.

NOTE 2 IF the above methods of activating the EPS fail, Shift Personnel must use the Radiological Emergency Response Call Lists to staff the TSC and OSC. This list is located in the EPS Manual near the terminal.

WBN	SITE AREA EMERGENCY	EPIP-4 Revision 14 Page 5 of 12
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3.0 INSTRUCTIONS (continued)

- 2. **COMPLETE** Appendix A Notification Information.
- 3. **ANNOUNCE** to the crew: "A Site Area Emergency is being declared based on _____. I will be the Site Emergency Director, all support and job assignments must be authorized through me."
- 4. **NOTIFY** the ODS direct by ODS Ringdown or No. 5-751-1700 or 5-751-2495 and **PROVIDE** the information from Appendix A.

IF the ODS cannot be contacted within 10 minutes, then directly notify Rhea County, Meigs County, McMinn County, and the Tennessee Emergency Management Agency (TEMA) is to be notified of the classification.

Rhea County EMA	9-775-2505	____(TIME)
(Alternate)	9-775-7828	____(TIME)
Meigs County EMA	9-1-423-334-3049	____(TIME)
(Alternate)	9-1-423-334-5268	____(TIME)
McMinn County	9-1-423-744-2715	____(TIME)
(Alternate)	9-1-423-745-3140	____(TIME)
Tennessee EMA	9-1-800-262-3300	____(TIME)
(Alternate)	9-1-615-741-0001	____(TIME)
(Alternate)	9-1-800-262-3400	____(TIME)

- 5. **FAX** Appendix A to the ODS.
(No. pre-programmed or 5-751-8620.)

CAUTION **If there is any possibility of a radiological release, do not send personnel into areas of unknown radiological conditions without first contacting Radiological Control (RADCON).**

- 6. **NOTIFY** Security (CAS) that assembly and accountability is to be conducted.

WBN	SITE AREA EMERGENCY	EPIP-4 Revision 14 Page 6 of 12
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3.0 INSTRUCTIONS (continued)

7. **ANNOUNCE** to the plant: "ATTENTION ALL SITE PERSONNEL. ATTENTION ALL SITE PERSONNEL. A SITE AREA EMERGENCY has been declared based on _____. All personnel report to your assembly areas for accountability. Staff the TSC and OSC." (Repeat)
- SOUND** assembly alarm **AND**
- INITIATE** WBN EPIP-8, "Personnel Accountability and Evacuation."
8. **CALL** RADCON Lab and **SAY**: "We are in a Site Area Emergency, implement WBN EPIP-14 and CECC EPIP-9."
9. **IF** there are personnel injuries, **IMPLEMENT** WBN EPIP-10, "Medical Emergency Response".
10. **IF** there is a security threat, **IMPLEMENT** WBN EPIP-11, "Security and Access Control".
11. **NOTIFY** Duty Plant Manager, and **PROVIDE** Appendix A information (**SEE** duty list for telephone numbers). The Duty Plant Manager will call the Plant Manager or alternate.
12. **EVALUATE** the need to implement EPIP-16, "Initial Dose Assessment for Radiological Emergencies," for a dose projection if radioactivity is being released through normal plant release paths.
13. **NOTIFY** the NRC, using designated NRC phone (ENS), of plan activation.

NOTE

NRC notification should be made as soon as practicable, within one hour of "SITE AREA EMERGENCY" declaration. Whenever NRC requests, a qualified person must provide a continuous update to NRC Operations Center. The following commercial numbers for the NRC Operations Center can also be used as backups if the designated line is unavailable.^{3,5}

9-1-301-816-5100 (MAIN)
9-1-301-951-0550 (BACKUP)
9-1-301-816-5151 (FAX)

WBN	SITE AREA EMERGENCY	EPIP-4 Revision 14 Page 7 of 12
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3.0 INSTRUCTIONS (continued)

14. **NOTIFY** the NRC Resident Inspector by calling 1776 and **PROVIDING** the information on Appendix A.
15. **REEVALUATE** conditions using WBN EPIP-1 as necessary.
- A. **IF** the conditions are under control, **INITIATE** actions identified in WBN EPIP-13, "Termination of the Emergency and Recovery."
- B. **IF** conditions warrant upgrading to a higher classification, **INITIATE** the appropriate steps of WBN EPIP-5.
- C. **IF** other plant conditions warrant the need for followup information, **COMPLETE** the Followup Notification Form, Appendix B, and **NOTIFY** the TSC/CECC (if it is staffed) or,
- NOTIFY** the ODS direct by ODS Ringdown or No. 5-751-1700 or 5-751-2495 and **PROVIDE** the information. **IF** the ODS cannot be contacted within 10 minutes, the Tennessee Emergency Management Agency is to be notified of the information by calling 9-1-800-262-3300 or 9-1-615-741-0001 or 9-1-800-262-3400²
16. **FAX** Appendix B to the ODS. (No. pre-programmed or 5-751-8620.)
17. **ENSURE** applicable notifications required by SPP-3.5 and SPP-3.01 have been made.
18. **SEND** the completed WBN EPIP-4 and associated documentation to the Emergency Preparedness (EP) Manager. The EP Manager shall forward documentation to DCRM for storage as appropriate.

WBN	SITE AREA EMERGENCY	EPIP-4 Revision 14 Page 8 of 12
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4.0 REFERENCES

4.1 Interfacing Documents

SPP-3.01 Corrective Action Program

SPP-3.5 Regulatory Reporting Requirements

WBN-EPIP-1 Emergency Plan Classification Flowchart

WBN-EPIP-2 Notification of Unusual Event

WBN-EPIP-3 Alert

WBN-EPIP-5 General Emergency

WBN-EPIP-10 Medical Emergency Response

WBN-EPIP-11 Security and Access Control

WBN-EPIP-13 Termination of the Emergency and Recovery

WBN-EPIP-16 Initial Dose Assessment for Radiological Emergencies

CECC-EPIP-9 Emergency Environmental Radiological Monitoring Procedures

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.

ANSI 18.7-1976

CECC-EPIP-8 Dose Assessment Staff Activities During Nuclear Plant Radiological Emergencies

WBN	SITE AREA EMERGENCY	EPIP-4 Revision 14 Page 9 of 12
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5.0 APPENDIX

Appendix A, Notification Information

Appendix B, Followup Notification Form

6.0 RECORDS

6.1 QA Records

Entire WBN EPIP-4, when the REP is activated, is a QA Record.

6.2 Non-QA Records

All EPIP-4 records generated during the course of a drill/exercise will be assembled by the EP Manager and stored appropriately.

WBN	SITE AREA EMERGENCY	EPIP-4 Revision 14 Page 10 of 12
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APPENDIX A (Page 1 of 1)
NOTIFICATION INFORMATION¹

INITIAL NOTIFICATION FORM

1. "THIS IS A REAL EMERGENCY. THIS IS A REAL EMERGENCY."
OR
 "THIS IS A DRILL. THIS IS A DRILL."
2. "This is _____ at the Watts Bar Nuclear Plant.
There has been a REP activation on Unit 1 Unit 2 .
3. "The emergency classification is **Site Area Emergency.**"
4. "The Event designator(s)/Brief description is/are
(e.g., loss of AC 3.1)
_____."
5. "The plant conditions are: Stable Deteriorating."
6. "The radiological conditions are:

 No Abnormal Release Offsite
 Airborne Release Offsite
 Liquid Release Offsite
 Release Information Not Known."
7. "Wind Speed _____ Wind Direction from _____"
8. "The time the classification was declared _____ / _____."
Time Date
9. "There is no Protective Action Recommendation at this time."
10. "Please repeat the information you have received to ensure accuracy."
11. _____ / _____
Signature Date

WBN	SITE AREA EMERGENCY	EPIP-4 Revision 14 Page 12 of 12
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SOURCE NOTES

Page 1 of 1

- 1 NRC IE Information Notice No. 89-89 Event Notification Worksheets
- 2 NRC IE Information Notice No. 86-97 Emergency Communications System
- 3 NRC IE Information Notice No. 86-28 Telephone Numbers to the NRC Operations
Center and Regional Offices
- 4 ANSI 18.7-1976,
Subsection, 5.3.9.3: 01POI EIPs will contain the
following elements.
- 5 NRC Administrative Letter 94-04 Change of NRC Operations Center commercial
telephone and facsimile numbers.

TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT

**EMERGENCY PLAN IMPLEMENTING
PROCEDURES**

EPIP-5

GENERAL EMERGENCY

Revision 14

Unit 0

QUALITY RELATED

PREPARED BY: F. L. Pavlechko
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 10/21/99

LEVEL OF USE: REFERENCE

WBN	GENERAL EMERGENCY	EPIP-5 Revision 14 Page 2 of 14
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REVISION LOG

Revision Number	Implementation Date	Description of Revision
0	04/13/90	Superseded IP-5.
1	04/01/91	Reflect revision to AI 2.8.11 concerning SM designees for certain tasks. Convert ODS information to Attachment. Revised ODS communication methods.
2	01/22/92	Improved human factoring and updated references.
3	02/10/93	Changed coversheet. Added Section 2, Responsibility. Removed Note concerning steps previously done. In Section 3.1 included words concerning independent evaluating of crew members. Included parenthesis and changed wording to aid operators in what to say. Changed order of steps. Removed Notes 1 and 2 in Section 2.1 because of redundancy. Changed TEMA telephone number. Changed title of Plant Duty Supervisor to Duty Plant Manager. Removed (red phone) from Section 2.2 due to FTS 2000 installations. Added Step 15 to ensure applicable notification.
4	08/16/93	Editorial (non-intent) and format changes. Source notes added to the procedure.
5	1/1/94	Changes made to the Protective Action Recommendation Guidance to incorporate new 10 CFR 20 changes and EPA-400. Added NRC Resident call as Step 14.
6	4/11/94	Included notifying Security (CAS) on Step 5 and changed Step 15 to initiate WBN EPIP-13. Added contingency county notifications to Step 6.
7	5/27/94	Followup Notification Form was added to the procedure. Phone numbers revised.

WBN	GENERAL EMERGENCY	EPIP-5 Revision 14 Page 3 of 14
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REVISION LOG

Revision Number	Implementation Date	Description of Revision	
8	8/1/94	Initial Dose Assessment for Radiological Emergencies (EPIP-16) referenced and phone numbers to the NRC Response Center revised.	
9	10/14/95	Revised McMinn County phone number.	
10	4/21/95	Revised phone numbers. Editorial (non-intent) changes made.	
Revision Number	Implementation Date	Pages Affected	Description of Revision
CN-1	9-28-95	3, 5, 11	Revised phone numbers. Editorial (non-intent) changes made. All references to RM were changed to RE to make it consistent with site description documents.
11	7/5/96	4,5,6,7,8	Phone number and titles revised. Procedure replacement (TI-30) identified. All revisions were evaluated to be non-intent.
12	10/10/96	3,4,5,8,9	The following non-intent revisions were made: Shift Personnel replaced Shift Clerk to reflect additional personnel trained on the paging system, SM designee identified by title, a phone number was added, assembly and accountability instruction enhanced, a reference was added, and the non-QA record instructions were revised.
CN-1	3/27/97	3,5,6	TEMA additional back-up number added, counties changed phone numbers
CN-2	2/2/98	3,5,6,7,8	SSP-4.05 was replaced by SPP-3.5. Editorial changes were made.
13	6/30/98	All	Non-intent Changes. Incorporated Change Notices 1 and 2. Changed reference SSP 3.4 to SPP 3.1.
14	10/21/99	All	Non-intent change. Moved termination step from Appendix A to Appendix C. STD-3.2 reference canceled.

WBN	GENERAL EMERGENCY	EPIP-5 Revision 14 Page 4 of 14
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1.0 PURPOSE

- 1.1 To provide a method for timely notification of appropriate individuals when the Shift Manager (SM) or Technical Support Center (TSC) Site Emergency Director (SED) has determined by WBN EPIP-1 that an incident has occurred which is classified as a GENERAL EMERGENCY.¹¹
- 1.2 To provide a method for periodic reanalysis of the current situation by the SED to determine whether the GENERAL EMERGENCY should be terminated or continued.

2.0 RESPONSIBILITY

The SED who is initially the SM (or other SM onsite during the emergency) or designee (Unit Supervisor, US) until properly relieved by the TSC SED, has the responsibility and authority for implementation of the actions in this instruction.^{10,11}

3.0 INSTRUCTIONS

- 3.1 Upon determining that existing conditions are classified as a GENERAL EMERGENCY according to WBN EPIP-1 (independent evaluations by crew members may be beneficial), the SED, or designee, will:¹¹

1. **DIRECT** Shift Personnel to activate the Emergency Paging System (EPS) to staff the TSC and Operations Support Center (OSC). Shift Personnel should confirm activation and provide the 20 minute printed report to the SM for review.

NOTE 1 IF the EPS system fails, call the ODS (5-571-1700) and have him activate the EPS.

NOTE 2 IF the above methods of activating the EPS fail, Shift Personnel must use the Radiological Emergency Response Call Lists to staff the TSC and OSC. This list is located in the EPS Manual near the terminal.

2. **COMPLETE** Appendix A and B, Notification Information.
3. **ANNOUNCE** to the crew: "A General Emergency is being declared based on _____.
I will be the Site Emergency Director, all support and job assignments must be authorized through me."

WBN	GENERAL EMERGENCY	EPIP-5 Revision 14 Page 5 of 14
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3.0 INSTRUCTIONS (continued)

4. **IF** Assembly Alarm has not been activated, **NOTIFY** Security (CAS) that assembly and accountability is to be conducted.
- SOUND** the assembly alarm **AND**
INITIATE WBN EPIP-8, "Personnel Accountability and Evacuation".

5. **ANNOUNCE** to the plant: "ATTENTION ALL SITE PERSONNEL. ATTENTION ALL SITE PERSONNEL. A GENERAL EMERGENCY has been declared based on _____."

All plant personnel report to assembly areas for accountability. Staff the TSC and OSC." (Repeat)

6. **NOTIFY** the ODS direct by ODS Ringdown or 5-751-1700 or 5-751-2495 and **PROVIDE** the information from Appendix A.

IF the ODS cannot be contacted within 10 minutes, then directly notify Rhea County, Meigs County, McMinn County, and the Tennessee Emergency Management Agency (TEMA) of the classification.

Rhea County EMA	9-775-2505	_____ (TIME)
(Alternate)	9-775-7828	_____ (TIME)
Meigs County EMA	9-1-423-334-3049	_____ (TIME)
(Alternate)	9-1-423-334-5268	_____ (TIME)
McMinn County EMA	9-1-423-744-2715	_____ (TIME)
(Alternate)	9-1-423-745-3140	_____ (TIME)
Tennessee EMA	9-1-800-262-3300	_____ (TIME)
(Alternate)	9-1-615-741-0001	_____ (TIME)
(Alternate)	9-1-800-262-3400	_____ (TIME)

7. **FAX** Appendix A to the ODS. (No. pre-programmed or 5-751-8620.)
8. **CALL** RADCON Lab and **SAY**: "We are in a General Emergency, implement WBN EPIP-14 and CECC EPIP-9."
9. **IF** there are personnel injuries, **IMPLEMENT** EPIP-10, "Medical Emergency Response".
10. **IF** there is a security threat, **IMPLEMENT** EPIP-11, "Security and Access Control".

WBN	GENERAL EMERGENCY	EPIP-5 Revision 14 Page 6 of 14
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3.0 INSTRUCTIONS (continued)

11. **NOTIFY** Duty Plant Manager, **and PROVIDE** the Appendix A information (**SEE** duty list for telephone numbers). The Duty Plant Manager will call the Plant Manager or his alternate.
12. **EVALUATE** the need to implement EPIP-16, "Initial Dose Assessment for Radiological Emergencies," for a dose projection if radioactivity is being released through normal plant release paths.
13. **NOTIFY** the NRC by the NRC designated phone (ENS) of plan activation.

NOTE NRC notification should be made as soon as practicable, but within one hour of "GENERAL EMERGENCY" declaration. Whenever NRC requests, a qualified person must provide a continuous update to NRC Operations Center. The following commercial numbers for the NRC Operations Center can be used as backups if the designated line is unavailable:^{3,13}

9-1-301-816-5100 (MAIN)
9-1-301-951-0550 (BACKUP)
9-1-301-816-5151 (FAX)

14. **NOTIFY** NRC Resident Inspector by **CALLING** 1776 and **PROVIDING** the information on Appendix A.
15. **REEVALUATE** conditions using WBN EPIP-1 as necessary. **IF** conditions are under control, **INITIATE** actions identified in WBN EPIP-13, "Termination of the Emergency and Recovery."
 - A. **IF** other plant conditions warrant the need for followup information, **COMPLETE** the Followup Notification Form, Appendix C, and **NOTIFY** the TSC/CECC (if it is staffed) or

NOTIFY the ODS direct by ODS Ringdown or No. 5-751-1700 or 5-751-2495 **and PROVIDE** the information. **IF** the ODS cannot be contacted within 10 minutes, the Tennessee Emergency Management Agency is to be notified of the information by calling 9-1-800-262-3300 or 9-1-615-741-0001 or 9-1-800-262-3400.²
16. **FAX** Appendix C to the ODS.
(No. pre-programmed or 5-751-8620.)

WBN	GENERAL EMERGENCY	EPIP-5 Revision 14 Page 7 of 14
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CAUTION If there is any possibility of a radiological release, do not send personnel into areas of unknown radiological conditions without first contacting RADCON.

17. **ENSURE** applicable notifications required by SPP-3.5 and SPP-3.01 have been made.
18. **SEND** the completed WBN EPIP-5 and associated documentation to the Emergency Preparedness (EP) Manager. The EP Manager shall forward documentation to DCRM for storage as appropriate.

WBN	GENERAL EMERGENCY	EPIP-5 Revision 14 Page 8 of 14
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4.0 REFERENCES

4.1 Interfacing Documents

SPP-3.5 Regulatory Reporting Requirements

SPP-3.01 Corrective Action Program

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-10 Medical Emergency Response

WBN-EPIP-11 Security and Access Control

WBN-EPIP-13 Termination of the Emergency and Recovery

WBN-EPIP-16 Initial Dose Assessment for Radiological Emergencies

CECC-EPIP-9 Emergency Environmental Radiological Monitoring Procedures

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.

ANSI N18.7-1976

10 CFR 20, Standards for Protection From Radiation

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

WBN	GENERAL EMERGENCY	EPIP-5 Revision 14 Page 9 of 14
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4.2 Other Documents (continued)

Implementation of New EAL Protective Action Guides and Protective Actions for Nuclear Incidents

CECC-EPIP-8 Dose Assessment Staff Activities During Nuclear Plant Radiological Emergencies

5.0 APPENDICES

Appendix A, Notification Information

Appendix B, Protective Action Recommendation Guidance

Appendix C, Followup Information Form

6.0 RECORDS

6.1 QA Record

Entire WBN EPIP-5, when the REP is activated, is a QA Record.

6.2 Non-QA Records

All EPIP-5 records generated during the course of a drill/exercise will be assembled by the EP Manager and stored appropriately.

WBN	GENERAL EMERGENCY	EPIP-5 Revision 14 Page 10 of 14
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APPENDIX A (Page 1 of 1)
NOTIFICATION INFORMATION^{1,8}

INITIAL NOTIFICATION FORM

1. "THIS IS A REAL EMERGENCY. THIS IS A REAL EMERGENCY." OR
 "THIS IS A DRILL. THIS IS A DRILL."
2. "This is _____ at the Watts Bar Nuclear Plant.
There has been a REP activation on Unit 1."
3. "The emergency classification is **General Emergency**."
4. "The Event designator(s)/brief description is/are (e.g., Fission Product Barrier Matrix)
_____."
5. "The plant conditions are: Stable Deteriorating."
6. "The radiological conditions are:
 No Abnormal Release Offsite
 Airborne Release Offsite
 Liquid Release Offsite
 Release Information Not Known."
7. Wind Speed _____ Wind Direction FROM _____
8. "The time the classification was declared _____ / _____."
Time Date
9. "THE FOLLOWING PROTECTIVE ACTION RECOMMENDATION IS PROVIDED:"
 Recommendation 1 Recommendation 3
 Recommendation 2 Recommendation 4
10. "Please repeat the information your have received to ensure accuracy."
11. _____ / _____
Signature Date

APPENDIX B
(Page 1 of 1)

PROTECTIVE ACTION RECOMMENDATION GUIDANCE^{4,5,6,7,8,9,12}

Watts Bar Nuclear

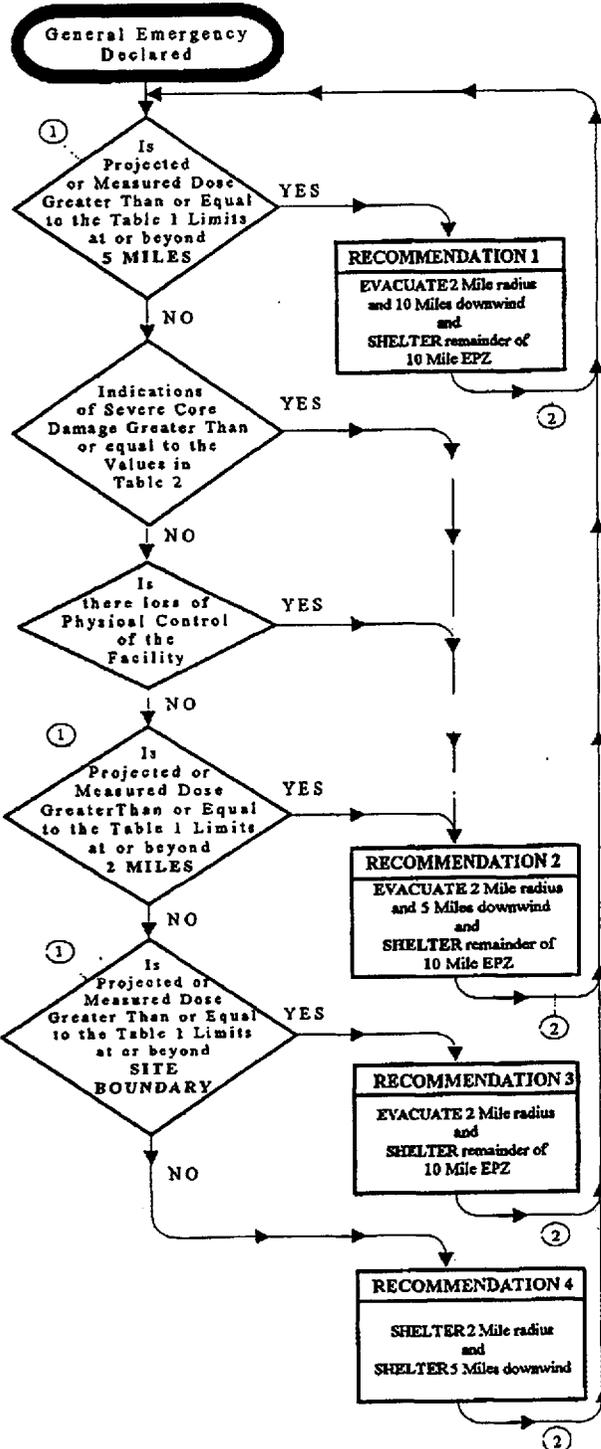
NOTES	
①	IF Conditions Are not known, Then Answer No.
②	CONTINUE ASSESSMENT. Modify protective actions based on available plant and field monitoring information. Locate and evacuate additional localized hot spots.

TABLE 1 RADIOACTIVITY RELEASE DOSE	
TYPE	LIMIT
Measured	3.9 E-6 μ Ci/cc of Iodine-131
	1 REM/hr External Dose
Projected	1 REM TEDE
	5 REM Thyroid CDE

TABLE 2 Severe Core Damage INDICATIONS	
1.	Containment radiation monitor reading * on 1-RE-90-271 and 272 equal to or greater than 9.0 E+1 R/hr or Containment radiation monitor reading * on 1-RE-90-273 and 274 equal to or greater than 7.0 E+1 R/hr.
2.	Reactor Coolant Activity of $\geq 300 \mu$ Ci/gm Dose Equivalent Iodine-131.
3.	Inadequate core cooling as indicated by "red" path from core cooling status tree.
4.	Core exit TCs greater than 1200° F

cdp/designer/WBNPAG.DRW
August 28, 1995

* Revision



WBN	GENERAL EMERGENCY	EPIP-5 Revision 14 Page 13 of 14
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SOURCE NOTES

Page 1 of 2

- | | |
|---|---|
| ¹ NRC IE Information Notice No. 89-89 | Event Notification Worksheets |
| ² NRC IE Information Notice No. 86-97 | Emergency Communications System |
| ³ NRC IE Information Notice No. 86-28 | Telephone Numbers to the NRC Operations Center and Regional Offices |
| ⁴ NRC IE Information Notice No. 83-28 | Criteria For Protective Action
Recommendations For General Emergencies |
| ⁵ MC-850321809004, MSC-00956,
NCO-920030366 | Monitor readings included in Logic Diagram for Protective Action
Recommendations App. B, Note 3. |
| ⁶ NIR-0588, DV-851601F 00001. | Include sheltering and immediate Protective Action. Appendix B (Page 1 of 1)
Recommendation 2 and Note 1 Initiating Conditions. |
| ⁷ MC-840827005037, MSC-02402. | Revision to Instructional Notes. Appendix B (Page 1 of 1) Notes 1 through 5. |
| ⁸ MC-840827005005, MSC-02376,
NCO-920030986 | Range of Protective Action
Recommendations by the Site Emergency Director. Appendix A (Page 1 of 1) Number 9.
Appendix B (Page 1 of 1) Protective Action Recommendation Guidance.
Recommendations 1 through 9. |

WBN	GENERAL EMERGENCY	EPIP-5 Revision 14 Page 14 of 14
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SOURCE NOTES

Page 2 of 2

- | | | |
|----|--|--|
| 9 | MC-840719003003, MSC-00700,
NCO-920030221 | CNTMT Rad Monitor Levels used in Protective Action Recommendations. Appendix B (Page 1 of 1) Note 3. |
| 10 | MC-840827005035A, MSC-2400. | SED duties that can not be delegated. Section 2.0 responsibility. Also see EIPs 6 and 15. |
| 11 | ANSI N18.7-1976
Subsection 5.3.9.3: 01POI | EIPs will contain the following elements. |
| 12 | 390/93-64A | 10 CFR 20 revision made to the PAR chart. |
| 13 | NRC Administrative Letter 94-04 | Change of NRC Operations Center commercial telephone and facsimile numbers. |

TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT

**EMERGENCY PLAN IMPLEMENTING
PROCEDURES**

EPIP-6

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

Revision 13

Unit 0

QUALITY RELATED

PREPARED BY: F. L. Pavlechko
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 10/21/99

LEVEL OF USE: REFERENCE

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 2 of 72
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REVISION LOG

Revision Number	Implementation Date	Description of Revision
0	04/13/90	Superseded IP-6.
1	12/17/91	Change position titles. Checklists for TSC Logkeeper and TSC Clerk. Add Appendix Y to respond to NER Item 910949 concerning small break LOCA. Consolidation and human factor enhancements. Fitness-For-Duty requirements (Section 2.3.2).
2	10/5/92	Added Section 2.0 Responsibility. Added Section 3.3.3 on minimum TSC Staffing. Removed requirement from each checklist to sign TSC FFD/Sign-in roster. Changed name of WBN EPIP-13 to "Termination and Recovery." Added NUREG 0654 and 0696 as references. Made changes to TSC Org. Chart, Appendix A. Deleted last statement on Appendix Q (now Appendix W) concerning closure of the Main Control Room Biological Shield Doors to close out WBFIR 920052. Replaced HCIs on Appendix V with Nuclear Power Health and Safety Manual. Replaced FFD Roster on Appendix AA with TSC Sign-in Roster. Changed format of word processing. Editorial changes as needed.
3	02/10/93	Editorial changes as needed.
4	8/16/93	Editorial (non-intent) and format changes. Site Vice President responsibilities revised. EP Manager responsibilities expanded. Control Room Chiller guidance under LOCA/HELB added to Appendix Z. Plant Parameter Data revised to reflect system RM-90 Numbers. Appendix R. Source notes added to the procedure. Appendix W revised to reflect new information on the Containment Sump Operation and Level Guidance. Additions made to Plant Parameter Data Sheets (Appendix H) per Chemistry request to enhance monitoring. Security controls added to MCR during an emergency.
5	1/1/94	Editorial changes and revision made to reflect new 10 CFR 20 and EPA 400 requirements.
6	05/27/94	Changed alarm criteria in 3.3.1C. Added "operations" advice to section 3.5.2. Position title changes, changes to System 90, corrected CECC EPIP-9 title on Appendix C, Added RADCON Manager responsibilities to Appendix I, added note to Appendix J, added food and lodging responsibilities to Appendix M, removed EDIS responsibility from Appendix P, new ERCW drawing in Appendix X.
CN-1	1/17/95	Source note references for the ENS and HPN were added to the text.
7	4/21/95	Appendix Z renamed to "Additional TAT Duties (Post Accident)" to support emergency actions. ERFDS references added to the procedure. Rad monitor information in Appendix R revised to reflect enhancements to System 90 (Rad monitoring). Appendix V reference material review requirements transferred from Plant Manager to Emergency Preparedness Manager. Source note added to the procedure. Editorial (non-intent) changes made. Added initial responsibility to RADCON Manager concerning TSC habitability.

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 WBP960582, 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 EIPs 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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 4 of 72
------------	---	--

1.0 PURPOSE^{8,11}

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^{2,11}

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^{4,9}

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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 5 of 72
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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 13 Page 6 of 72
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3.0 INSTRUCTIONS (continued)

3.3.2 Emergency Response Organization Call List ⁶

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
- Technical Assessment Manager (TAM) or Technical Assessment Team Leader
- RADCON Manager

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 7 of 72
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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:¹⁶

- 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

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 8 of 72
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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 TSC 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.¹⁷
- 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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 9 of 72
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3.0 INSTRUCTIONS (continued)

3.6 Long-Term Operation¹⁰

- 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 13 Page 10 of 72
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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.

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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

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 12 of 72
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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 TSC Site Emergency Director Checklist and SED Turnover Datasheet
- Appendix D Operations Manager Checklist
- Appendix E Technical Assessment Manager Checklist

5.0 APPENDICES (continued)

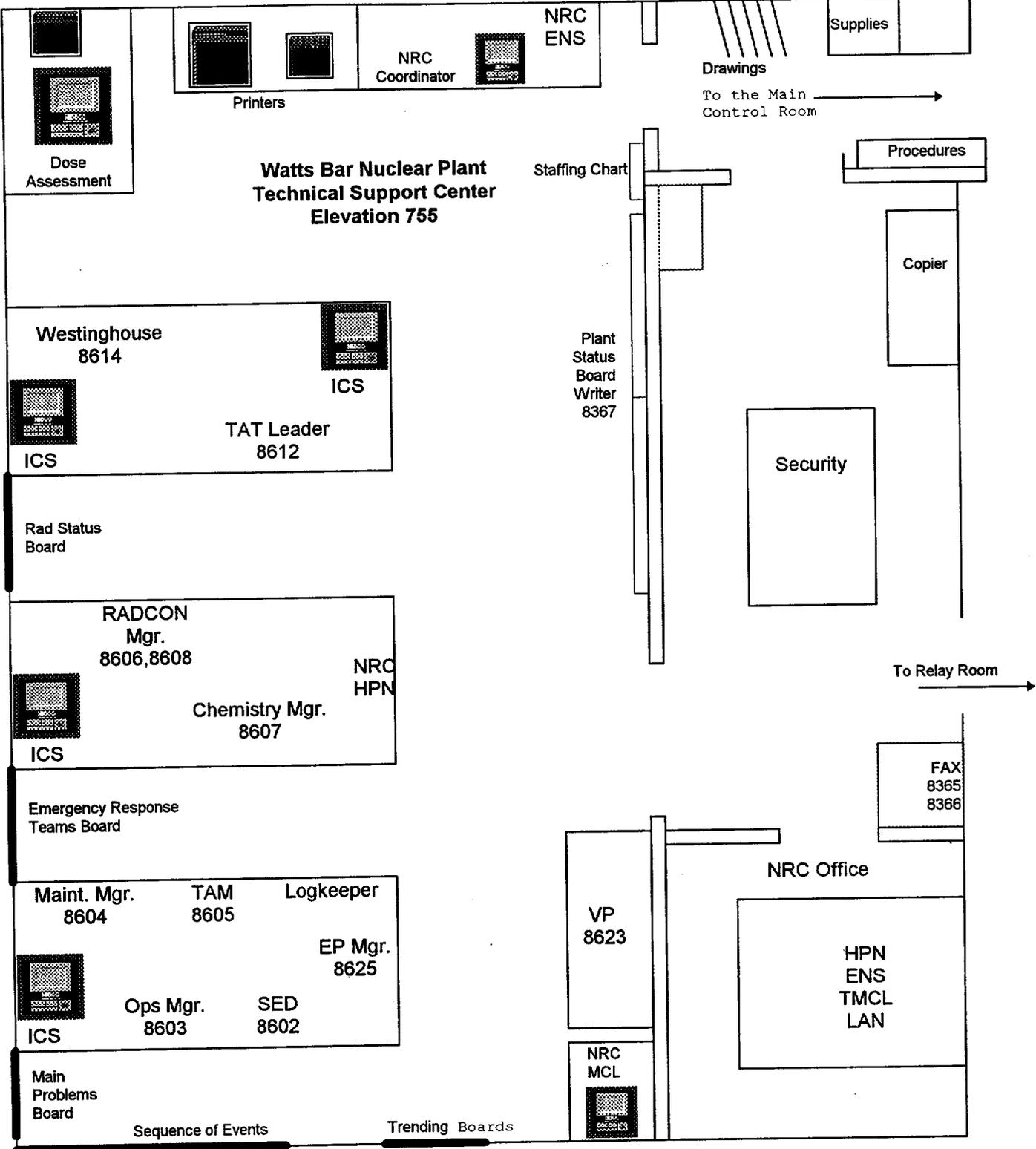
Appendix F	TSC Maintenance Manager Checklist
Appendix G	Operations Communicator Checklist
Appendix H	Nuclear Security Manager Checklist
Appendix I	RADCON Manager Checklist
Appendix J	Chemistry Manager Checklist
Appendix K	NRC Coordinator Checklist
Appendix L	Control Room Communicator Checklist
Appendix M	EP Manager Checklist
Appendix N	Nuclear Engineering Checklist (Intentionally Deleted)
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

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 14 of 72
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5.0 APPENDICES (continued)

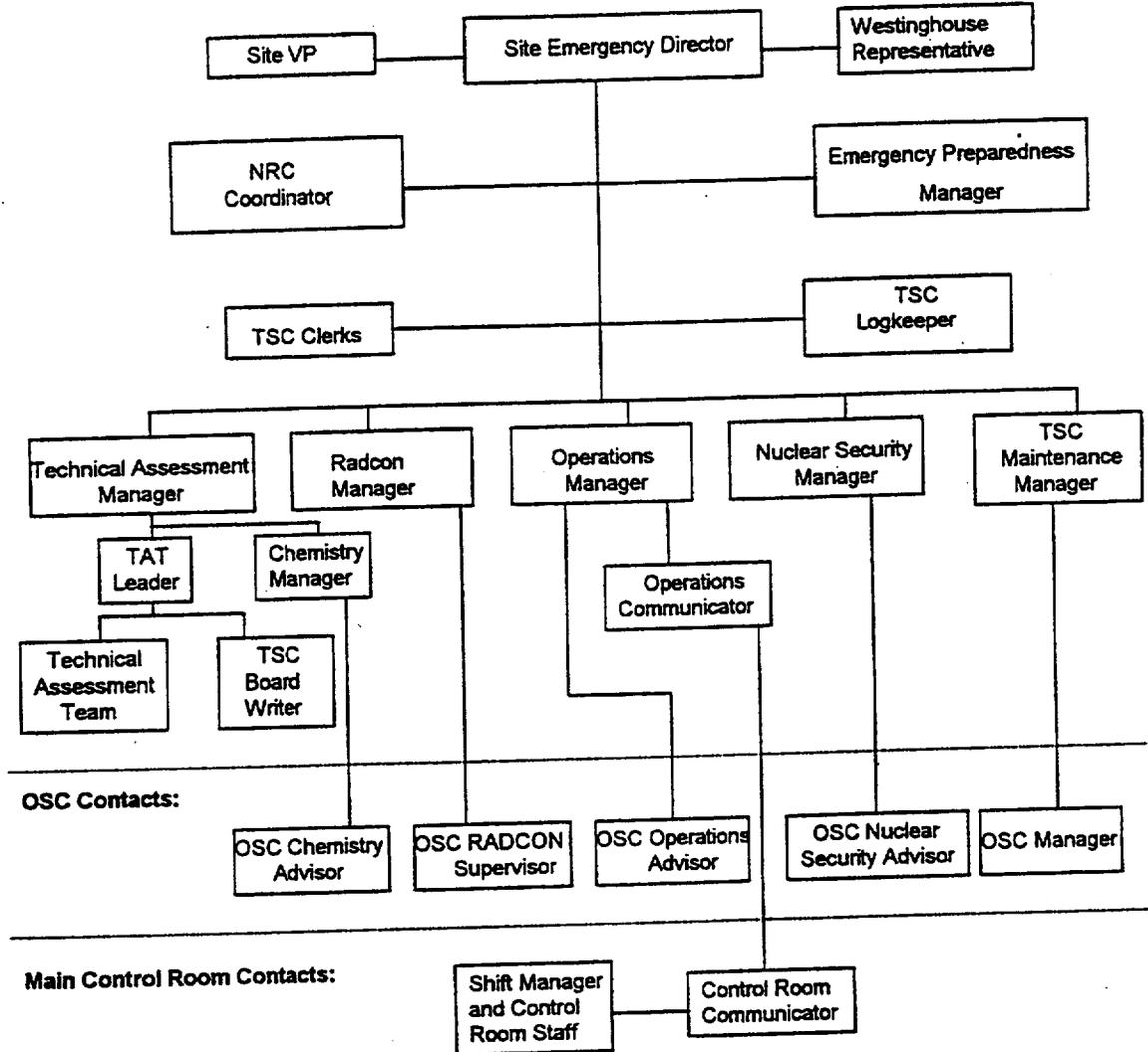
Appendix Y	Small Break LOCA Concerns
Appendix Z	Additional TAT Duties (Post Accident)
Appendix AA	Emergency Responder Notification Form
Appendix BB	WBN TSC Sign-in Roster

Appendix A, TSC Facility Layout Diagram⁴
Page 1 of 2



APPENDIX A
Page 2 of 2

TECHNICAL SUPPORT CENTER (TSC)
WBN EMERGENCY RESPONSE ORGANIZATION



WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 17 of 72
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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.)

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 18 of 72
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APPENDIX B
Page 2 of 2

SITE VICE PRESIDENT

Operational Responsibilities List

- 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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 19 of 72
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APPENDIX C
Page 1 of 7

TSC 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 (this checklist)
 - TAM or TAT Leader
 - RADCON Mgr.
- ___/___ **CONFIRM** TSC staffed and Operational.
- ___/___ **ASSUME** role of SED from SM (confirmatory phone call to the SM).

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 20 of 72
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APPENDIX C
Page 2 of 7

TSC 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."

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 21 of 72
------------	---	--

APPENDIX C
Page 3 of 7

TSC Site Emergency Director

Operational Responsibilities^{3,5}

- 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)
- 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 operation of the OSC with the OSC Manager. (See WBN EPIP-7)
- Directs activities of onsite emergency organizations.
- Consults with the CECC Director on important decisions. Use the CECC Ring-down Line to the CECC Director.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 22 of 72
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APPENDIX C
Page 4 of 7

TSC Site Emergency Director

Operational Responsibilities (continued)

- Coordinates emergency actions with onsite NRC.
- Initiates onsite protective actions. (See WBN EPIP-8)
- Authorizes the administration of Potassium Iodine (KI) to TVA personnel based on RADCON Manager's advice. (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.)

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 Medical Center
- Athens Community Hospital

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 25 of 72
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APPENDIX C
Page 7 of 7

SED TURNOVER DATASHEET (continued)

11. Status of personnel in the field:

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: _____

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 26 of 72
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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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 27 of 72
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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)

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 28 of 72
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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.

___/___

PROVIDE this completed checklist to the SED or EP Manager.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 29 of 72
------------	---	--

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.
- Evaluate procedures produced during an emergency to determine if they should be approved by the Plant Operations Review Committee (PORC) or implemented based on 10 CFR 50.54X.
- 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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 30 of 72
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APPENDIX F
Page 1 of 2

TSC 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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 31 of 72
------------	---	---

APPENDIX F
Page 2 of 2

TSC MAINTENANCE MANAGER

Operational Responsibilities

- Coordinates emergency response team assignment activities with 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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 32 of 72
-----	---	--

APPENDIX G
Page 1 of 2

OPERATIONS COMMUNICATOR

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.

___/___

OBTAIN headset and dial 4101.

___/___

CHECK operability of the Integrated Computer System (ICS) system.

___/___

PROVIDE this completed checklist to the SED or EP Manager.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 33 of 72
------------	---	--

APPENDIX G
Page 2 of 2

OPERATIONS COMMUNICATOR

Operational Responsibilities

- 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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 34 of 72
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APPENDIX H
Page 1 of 2

NUCLEAR SECURITY 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.
- ___/___ **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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 35 of 72
------------	---	--

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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 36 of 72
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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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 37 of 72
------------	---	--

APPENDIX I
Page 2 of 2

RADCON MANAGER
Operational Responsibilities

- 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.
- 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 RAC.
- 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.¹³
- 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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 38 of 72
-----	---	--

APPENDIX J
Page 1 of 2

CHEMISTRY 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 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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 39 of 72
------------	---	--

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 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 13 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).¹³
- ___/___ **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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 41 of 72
------------	---	--

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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 42 of 72
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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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 43 of 72
------------	---	--

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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 44 of 72
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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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 45 of 72
------------	---	---

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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 46 of 72
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APPENDIX O
Page 1 of 1

TSC LOGKEEPER

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.
- ___/___ **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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 47 of 72
-----	---	--

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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 48 of 72
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APPENDIX P
Page 2 of 2

TSC CLERICAL STAFF

Operational Responsibilities

- Assist in the set up of the TSC.
- Maintains accountability of TSC personnel.
- 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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 49 of 72
-----	---	--

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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 50 of 72
------------	---	---

APPENDIX Q
Page 2 of 3

TECHNICAL ASSESSMENT TEAM

Operational Responsibilities⁷

- 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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 51 of 72
------------	---	---

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.
- Evaluate procedures produced during an emergency to determine if they should be approved by the Plant Operations Review Committee (PORC) or implemented based on 10 CFR 50.54X.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 53 of 72
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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: _____

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: _____

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 μ 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: _____

APPENDIX S
Page 1 of 1
Predictive Release Data Sheet⁷

DATE: _____ TIME: _____ UNIT: _____

DATA NEEDED FOR CECC TO PERFORM PREDICTIVE RELEASE METHODOLOGY

1. PRIMARY COOLANT CONCENTRATION

	IN GAS	IN LIQ	SAMPLE DATA
ISOTOPE	μCi/cc	μCi/ml	DATE: _____ TIME: _____
I-131	_____	_____	LOCATION: _____
I-132	_____	_____	TEMPERATURE: _____ °F
I-133	_____	_____	PRESSURE _____ PSIA
I-134	_____	_____	GAS VOLUME: _____ CC
I-135	_____	_____	WATER MASS: _____ GRAM
CS-137	_____	_____	WATER LEVEL: _____
CS-138	_____	_____	
KR-85m	_____	_____	
KR-85	_____	_____	
KR-87	_____	_____	
KR-88	_____	_____	
XE-133	_____	_____	
XE-135	_____	_____	

2. CONCENTRATION OF HYDROGEN IN CONTAINMENT ATMOSPHERE

H₂ 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 PERIOD	END PERIOD	AVG POWER IN MWt	START PERIOD	END PERIOD	AVG POWER IN MWt
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

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

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

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

Send to: CECC Core Damage & CECC RAC.

DATA BY _____

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 59 of 72
------------	---	--

APPENDIX T
Page 1 of 1

*TSC Accident Assessment Summary Sheet*⁷

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

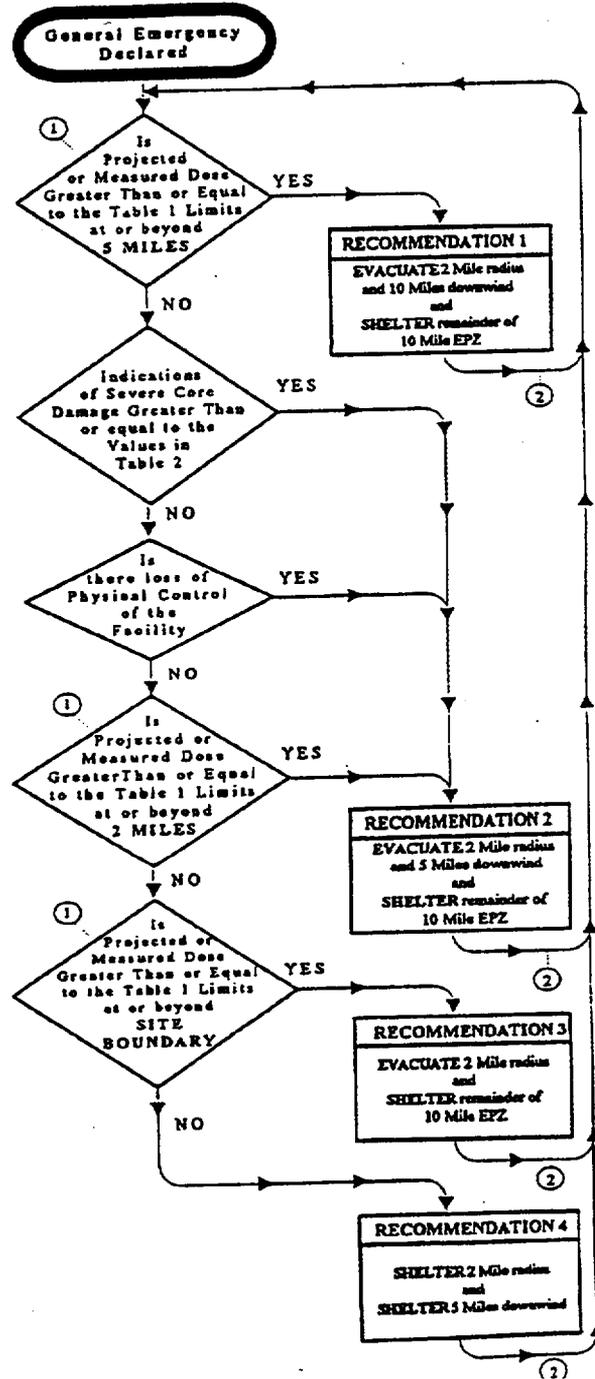
Protective Action Recommendation Guidance^{5,12}

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.

TYPE	LIMIT
Measured	3.9 E-6 μ CI/cc of Iodine-131
	1 REM/hr External Dose
Projected	1 REM TEDE
	5 REM Thyroid CDE

1. Containment radiation monitor reading • on I-RE-90-271 and 272 equal to or greater than 9.0 E+1 R/hr or Containment radiation monitor reading • on I-RE-90-273 and 274 equal to or greater than 7.0 E+1 R/hr.
2. Reactor Coolant Activity of $\geq 300 \mu$ CI/gm Dose Equivalent Iodine-131.
3. Inadequate core cooling as indicated by "red" path from core cooling status tree.
4. Core exit TCs greater than 1200° F



WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 61 of 72
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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 ¹ Below)
4. Technical Instructions (Selected). (Note ¹ 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 ² Below)
13. Hand-held calculators.
14. Office supplies for use in the TSC.

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

²Obtain copy from Site Westinghouse Representative or Master Files.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 62 of 72
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APPENDIX W
Page 1 of 1

Containment Sump Operation and Level Guidance¹

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 13 Page 63 of 72
------------	---	--

APPENDIX X
Page 1 of 3

ERCW Concerns for Technical Assessment^{1, 18}

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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 64 of 72
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APPENDIX X

Page 2 of 3

ERCW Concerns for Technical Assessment Team (continued)

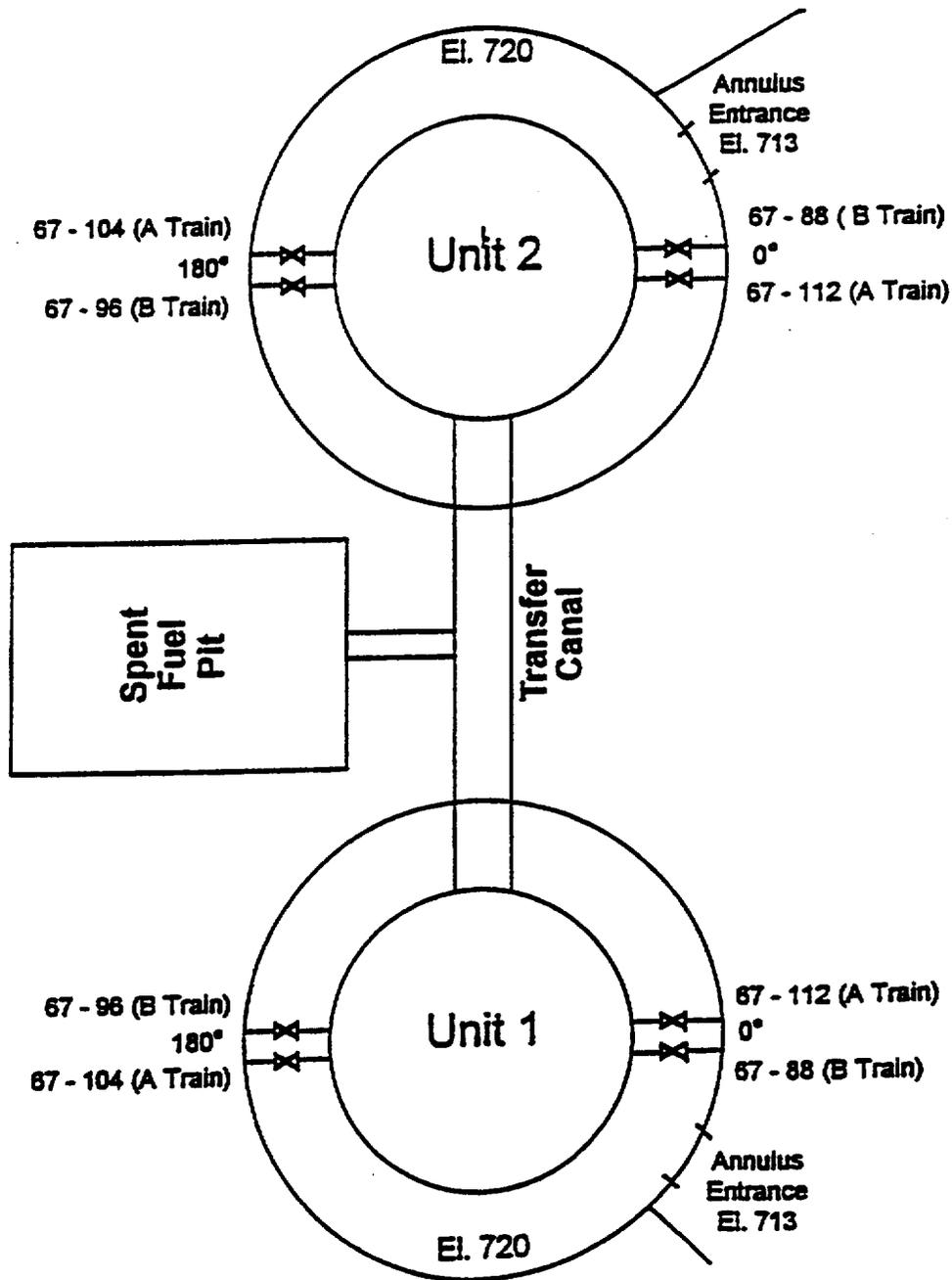
2. Monitor ERCW screens and strainers. Within 3 hours after operating basis earthquake ($\geq 1/2$ SSE), a loss of downstream dam, a stage I flood, a tornado warning or within 12 hours following a LOCA, then perform the following actions:
 - a. Isolate chlorination to ERCW.
 - b. Inspect ERCW traveling 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 13 Page 65 of 72
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APPENDIX X

Page 3 of 3

ERCW Concerns for Technical Assessment Team (continued)



WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 66 of 72
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APPENDIX Y
Page 1 of 1

SMALL BREAK LOCA CONCERNS²

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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 67 of 72
------------	---	--

APPENDIX Z
Page 1 of 2

ADDITIONAL TAT DUTIES (POST ACCIDENT)

Auxiliary Building Lighting Guidance¹⁴

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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 68 of 72
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APPENDIX Z
Page 2 of 2

Steam Generator Tube Rupture (SGTR) Recovery¹⁵

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.

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 71 of 72
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SOURCE NOTES

Page 1 of 2

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

WBN	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	EPIP-6 Revision 13 Page 72 of 72
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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
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
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. |

TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT

**EMERGENCY PLAN IMPLEMENTING
PROCEDURES**

EPIP-7

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

Revision 9
Unit 0

QUALITY RELATED

PREPARED BY: F. L. Pavlechko
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 10/21/99

LEVEL OF USE: REFERENCE

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 9 Page 2 of 56
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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	<p>Added OSC Teams Coordinator, OSC Power Stores Coordinator, DCRM Representative, TSC Coordinator to response organization. Removed note about RADCON staffing issues.</p> <p>Added 3.5 section on call out list.</p> <p>Added OSC Teams Coordinator Personnel Pool Log.</p> <p>Added NUREG 0654 and NUREG 0696 and 10 CFR 50, App. E references.</p> <p>Added page 2 to Appendix A, Alt. OSC Layout. Changed all Attachments to Appendices.</p> <p>Added OSC Mgr Briefing items to Appendix D.</p> <p>Added deactivation responsibilities to checklists.</p> <p>Added Appendix Q, OSC Personnel Coordinator Checklists.</p> <p>Added OSC Power Stores Coordinator Checklists.</p> <p>Added Work Control Boardwriter Checklists.</p> <p>Added RADCON Boardwriters Checklists.</p> <p>Added DCRM Coordinator checklists.</p>
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	<p>OSC equip., supplies, and procedures will be replenished following a drill, exercise or emergency.</p> <p>Change Briefing Form to dispatch teams out of OSC.</p>
4	09/02/94		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.

REVISION LOG
(Page 2 of 2)

Revision Number	Effective Date	Pages Affected	Description of Revision
CN-1	1/17/95	7,55	Source note referencing the capabilities of the OSC was added to the text.
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.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 9 Page 4 of 56
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1.0 PURPOSE^{1,2,3}

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

2.0 RESPONSIBILITY^{1,2}

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

3.0 INSTRUCTION^{1,2}

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 9 Page 5 of 56
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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 9 Page 6 of 56
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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 9 Page 7 of 56
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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 9 Page 8 of 56
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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

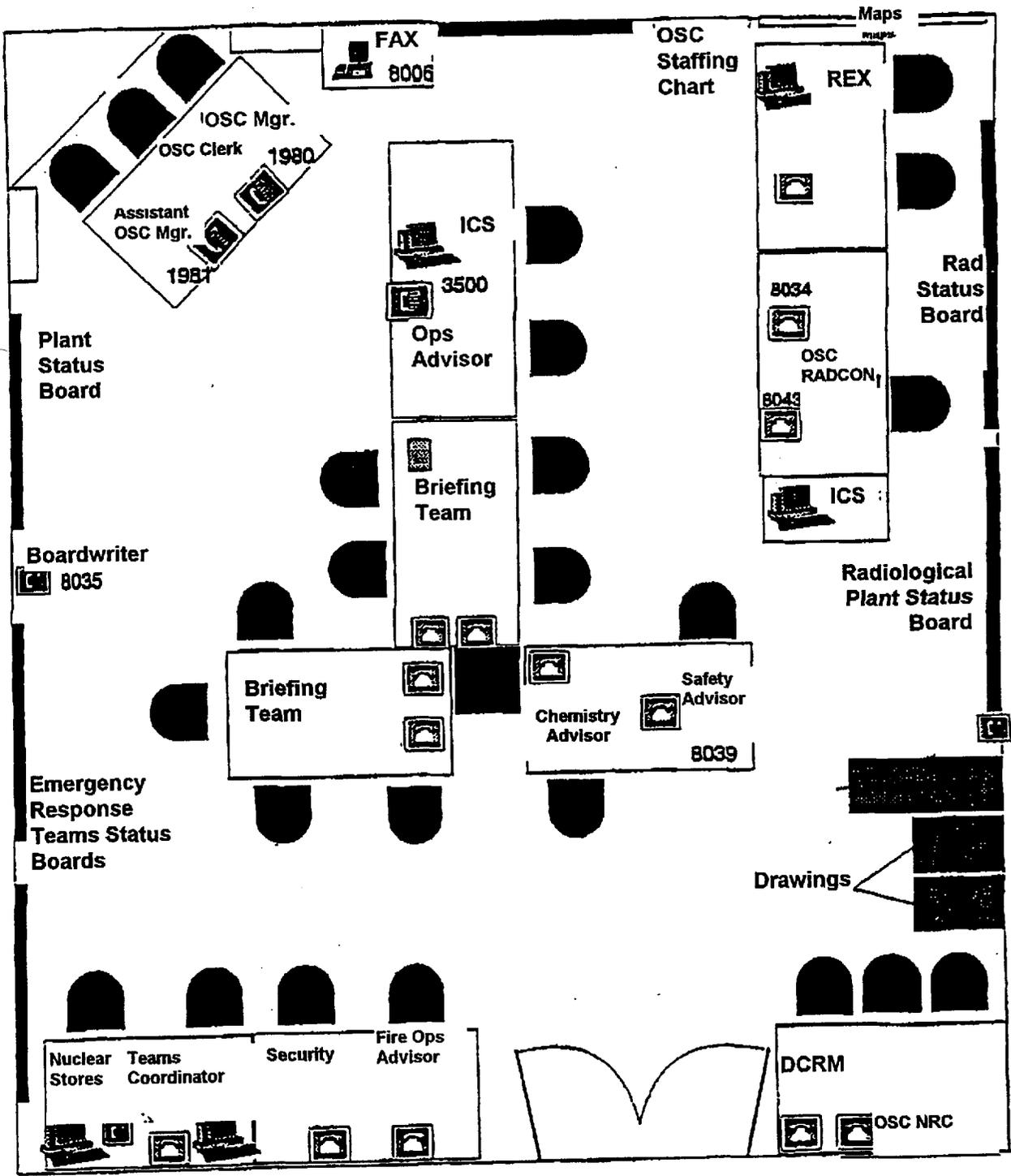
- Appendix A OSC Layout
- Appendix B OSC Organization Chart
- Appendix C OSC Manager Checklist
- Appendix D OSC Manager Briefing Outline
- Appendix E Assistant OSC Manager Checklist
- Appendix F OSC Team Tracking/Debriefing Form
- Appendix G OSC RADCON Supervisor Checklist
- Appendix H OSC RADCON Briefer 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 9 Page 9 of 56
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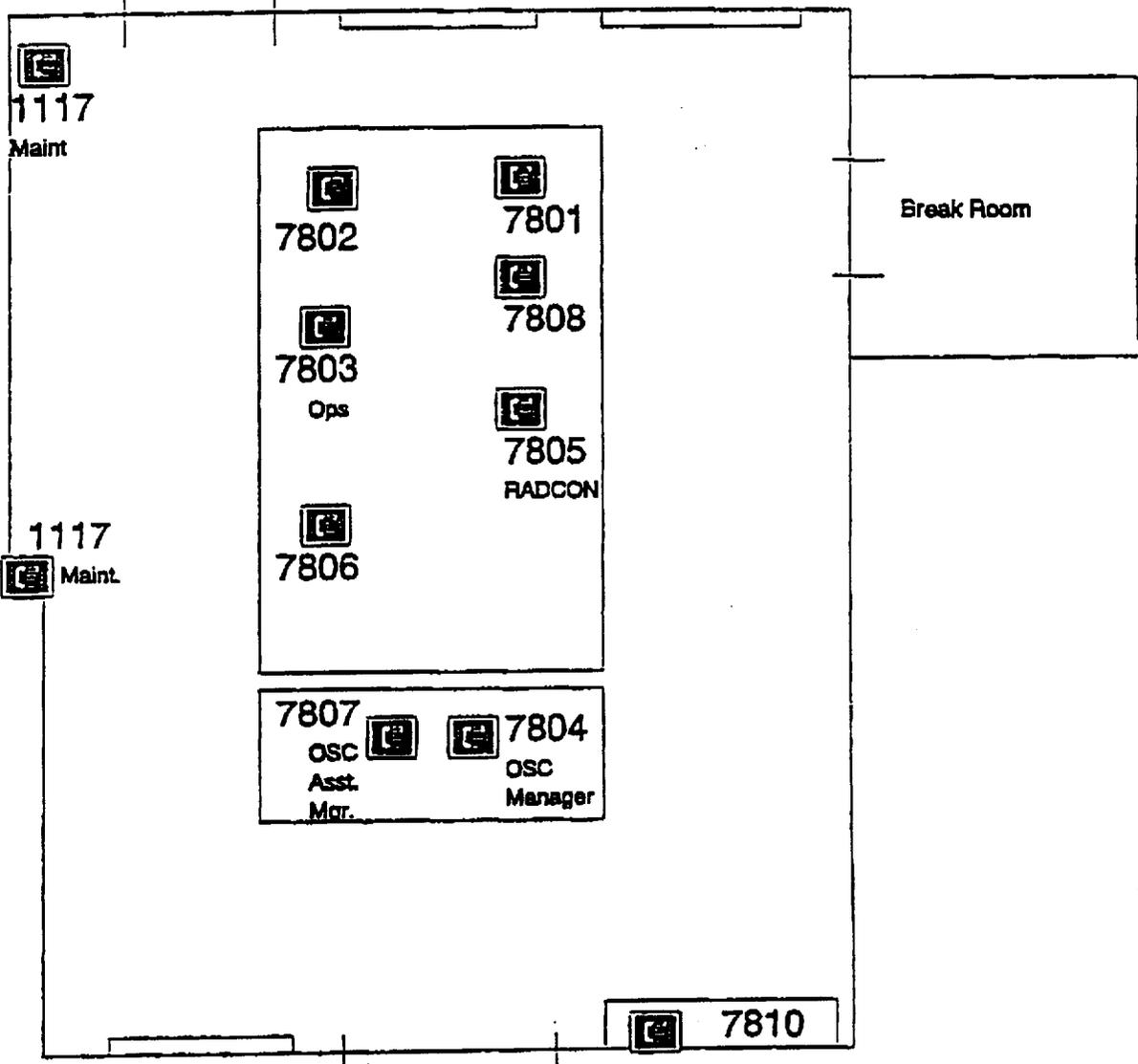
5.0 APPENDICES (continued)

- 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

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

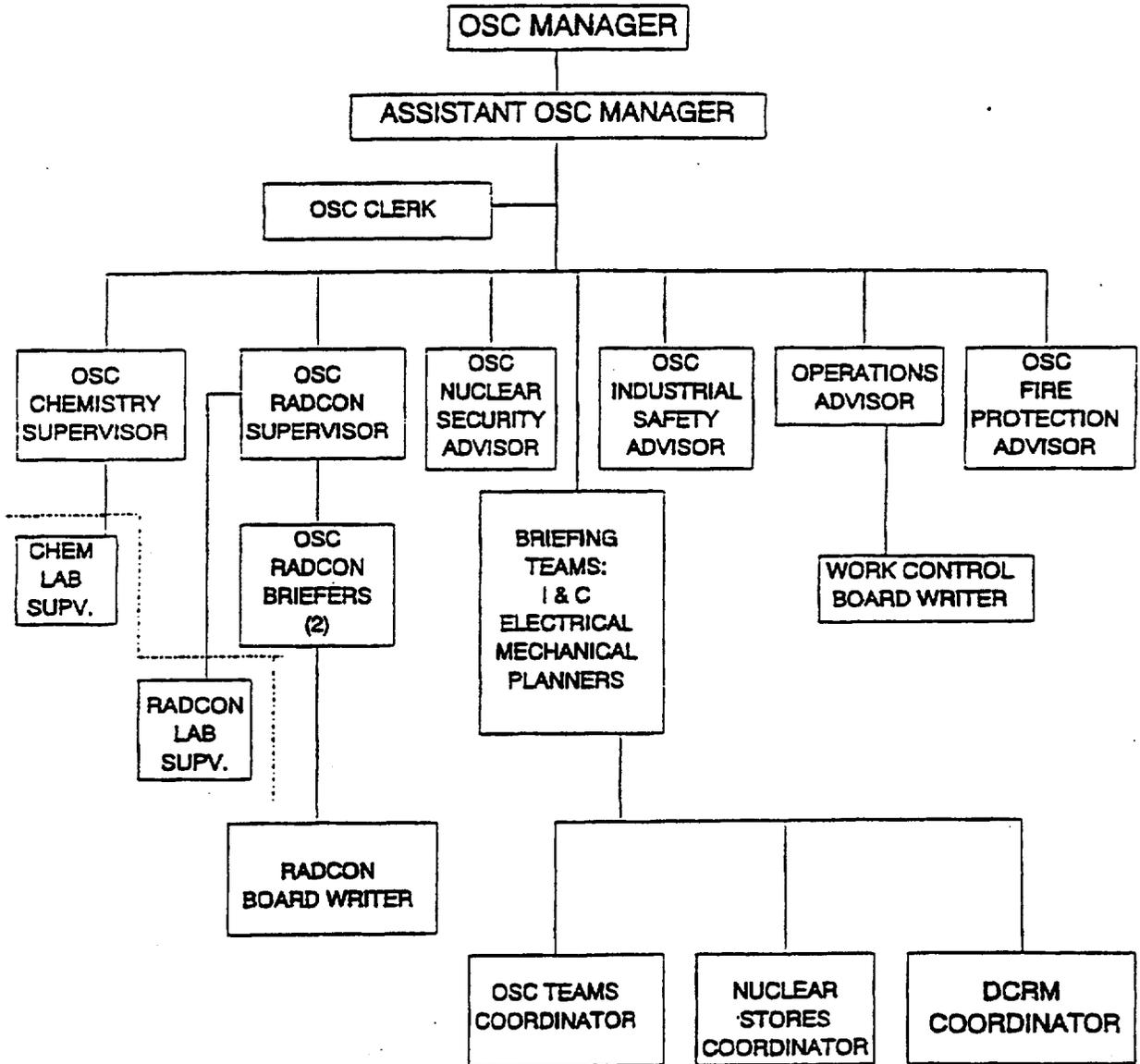


APPENDIX A
(Page 2 of 2)
WBN ALTERNATE OPERATIONS SUPPORT CENTER LAYOUT
Elevation 729, Plant Conference Room



APPENDIX B
(Page 1 of 1)

OPERATIONS SUPPORT CENTER ORGANIZATION



WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 9 Page 13 of 56
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APPENDIX C
(Page 1 of 4)

OSC MANAGER

INITIAL OSC ACTIVATION CHECKLIST

Date: _____

Inits/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 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. ⁴

___/___

ENSURE minimum staffing requirements for the OSC are met.

1 Mechanical Maintenance

1 Electrical Maintenance

1 I&C Maintenance

___/___

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 9 Page 14 of 56
-----	---	---------------------------------------

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 9 Page 15 of 56
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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 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).

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 9 Page 16 of 56
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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 9 Page 17 of 56
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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 _____
<input type="checkbox"/> Notification of Unusual Event	RCS Pres. _____	ESF STATUS _____
<input type="checkbox"/> Alert	RCS Temp. _____	
<input type="checkbox"/> Site Area Emergency		
<input type="checkbox"/> 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		
<u>YES</u> <u>NO</u>	<u>YES</u> <u>NO</u>	<u>YES</u> <u>NO</u> <u>YES</u> <u>NO</u> <u>YES</u> <u>NO</u>
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 9 Page 18 of 56
-----	---	---------------------------------------

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 9 Page 19 of 56
-----	---	---------------------------------------

APPENDIX E
(Page 1 of 3)

ASSISTANT OSC MANAGER

INITIAL OSC ACTIVATION CHECKLIST

Date: _____

Initials/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 9 Page 20 of 56
-----	---	---------------------------------------

APPENDIX E
(Page 2 of 3)

ASSISTANT OSC MANAGER

OPERATIONAL RESPONSIBILITIES

- Assist the OSC Manager in providing direction and control in the OSC.
- Oversee the operations of the OSC Teams and coordinate supporting activities.
- 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 9 Page 21 of 56
-----	---	---------------------------------------

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.

APPENDIX F
(Page 1 of 2)

WATTS BAR NUCLEAR PLANT OSC TEAM BRIEFING/DEBRIEFING FORM

TEAM: _____ Assistant OSC Mgr / _____ init/time	Task Description: Describe problem or task, drawings, known facts, precautions, etc. _____ _____ _____ _____ _____ _____ Task Location _____ <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																										
Lead Briefer _____ / _____ init/time	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Task Team</th> <th style="width: 30%;">Members</th> <th style="width: 15%;">SSN</th> <th style="width: 35%;">Discipline (IM, MM, etc.)</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>Briefing By: Lead Briefer: Init _____ RADCON Init _____</p> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Description of Problems <input type="checkbox"/> Procedures to be Used <input type="checkbox"/> Tools Needed <input type="checkbox"/> Equipment Needed <input type="checkbox"/> Clearance Required (Hold Orders) <input type="checkbox"/> Ops Support <input type="checkbox"/> Safety Evaluation of Job <input type="checkbox"/> Key(s) needed for job </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Radiation Work Permit (RWP) <input type="checkbox"/> RADCON Support <input type="checkbox"/> Hazards Between OSC and Work Location <input type="checkbox"/> Route to/from Work Area <input type="checkbox"/> Contact Briefer prior to returning from field <input type="checkbox"/> List (Read) debriefing questions to be asked <input type="checkbox"/> Copy of Briefing Form given to team with Tele #s </td> </tr> </table> <p><input type="checkbox"/> Maintain routine contact with team while in the field.</p> <p>Method of Communication: _____ TSC Results Hotline (x8611) _____ Messenger _____ Pager # _____ Phone # _____ <input type="checkbox"/> Radio (Channel: _____) Radio Sensitive Area? <input type="checkbox"/> Yes <input type="checkbox"/> No (BP-364)</p>	Task Team	Members	SSN	Discipline (IM, MM, etc.)	Team Leader	_____	_____	_____		_____	_____	_____		_____	_____	_____	Operations	_____	_____	_____	RADCON	_____	_____	_____	<input type="checkbox"/> Description of Problems <input type="checkbox"/> Procedures to be Used <input type="checkbox"/> Tools Needed <input type="checkbox"/> Equipment Needed <input type="checkbox"/> Clearance Required (Hold Orders) <input type="checkbox"/> Ops Support <input type="checkbox"/> Safety Evaluation of Job <input type="checkbox"/> Key(s) needed for job	<input type="checkbox"/> Radiation Work Permit (RWP) <input type="checkbox"/> RADCON Support <input type="checkbox"/> Hazards Between OSC and Work Location <input type="checkbox"/> Route to/from Work Area <input type="checkbox"/> Contact Briefer prior to returning from field <input type="checkbox"/> List (Read) debriefing questions to be asked <input type="checkbox"/> Copy of Briefing Form given to team with Tele #s
Task Team	Members	SSN	Discipline (IM, MM, etc.)																								
Team Leader	_____	_____	_____																								
	_____	_____	_____																								
	_____	_____	_____																								
Operations	_____	_____	_____																								
RADCON	_____	_____	_____																								
<input type="checkbox"/> Description of Problems <input type="checkbox"/> Procedures to be Used <input type="checkbox"/> Tools Needed <input type="checkbox"/> Equipment Needed <input type="checkbox"/> Clearance Required (Hold Orders) <input type="checkbox"/> Ops Support <input type="checkbox"/> Safety Evaluation of Job <input type="checkbox"/> Key(s) needed for job	<input type="checkbox"/> Radiation Work Permit (RWP) <input type="checkbox"/> RADCON Support <input type="checkbox"/> Hazards Between OSC and Work Location <input type="checkbox"/> Route to/from Work Area <input type="checkbox"/> Contact Briefer prior to returning from field <input type="checkbox"/> List (Read) debriefing questions to be asked <input type="checkbox"/> Copy of Briefing Form given to team with Tele #s																										
RADCON _____ / _____ init/time	RADCON Requirements: RWP Required: <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, RWP # _____ SCBA <input type="checkbox"/> Respirator <input type="checkbox"/> Dressout _____ Other _____ Emerg Exposure Apprl. (EPIP-15 by SED) Yes <input type="checkbox"/> (_____ REM) No <input type="checkbox"/> N/A <input type="checkbox"/> KI Approval (By TSC RADCON Manager or designee) Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>																										
OSC Mgr _____ / _____ init/time	FINAL APPROVAL to release team <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 9 Page 23 of 56
-----	---	---------------------------------------

APPENDIX F
(Page 2 of 2)

WATTS BAR NUCLEAR PLANT OSC TEAM BRIEFING/DEBRIEFING FORM

Briefer _____ / _____ init/time	Task Complete: <input type="checkbox"/> Inform OSC Manager of results <input type="checkbox"/> Inform TSC TAT of results (x8611)
Team Ldr _____ / _____ init/time Briefer _____ / _____ init/time	Debriefing <input type="checkbox"/> Was Assignment Completed? Yes___ No___ <input type="checkbox"/> Observations from the field (list below) <input type="checkbox"/> Equipment status <input type="checkbox"/> Hazards (actual or potential) <input type="checkbox"/> Radiological Conditions <input type="checkbox"/> Unusual Sounds, etc. <input type="checkbox"/> Other information <input type="checkbox"/> Personnel Directed to OSC Teams Coordinator <input type="checkbox"/> Debriefing Conducted By: _____ <input type="checkbox"/> Summary Provided to Briefer <input type="checkbox"/> Update OSC Team Tracking Board <input type="checkbox"/> Send personnel back to OSC Teams Coordinator <input type="checkbox"/> Summary Provided to OSC Manager (Give this sheet to the OSC Manager.)
OSC Mgr _____ / _____ init/time	TSC Notified: <input type="checkbox"/> Team results provided to TSC Maintenance Manager

NOTES:

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 9 Page 24 of 56
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APPENDIX G
(Page 1 of 3)

OSC RADCON SUPERVISOR

INITIAL OSC ACTIVATION CHECKLIST

Date: _____

Inits/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 REX 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 9 Page 25 of 56
-----	---	---------------------------------------

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 9 Page 26 of 56
-----	---	---------------------------------------

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 9 Page 27 of 56
-----	---	---------------------------------------

APPENDIX H
(Page 1 of 4)

OSC RADCON BRIEFER

INITIAL OSC ACTIVATION CHECKLIST

Date: _____

Inits/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 9 Page 28 of 56
-----	---	---------------------------------------

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 9 Page 29 of 56
-----	---	---------------------------------------

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 9 Page 30 of 56
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**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 9 Page 31 of 56
-----	---	---------------------------------------

Appendix I
(Page 1 of 2)

OSC OPERATIONS ADVISOR

INITIAL OSC ACTIVATION CHECKLIST

Date: _____

Inits/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.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 9 Page 32 of 56
-----	---	---------------------------------------

Appendix I
(Page 2 of 2)

OSC OPERATIONS ADVISOR CHECKLIST

OPERATIONAL RESPONSIBILITIES

- 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 9 Page 33 of 56
-----	---	---------------------------------------

APPENDIX J
(Page 1 of 2)

OSC FIRE PROTECTION ADVISOR

INITIAL OSC ACTIVATION CHECKLIST

Date: _____

Inits/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 9 Page 34 of 56
-----	---	---------------------------------------

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 9 Page 35 of 56
-----	---	---------------------------------------

APPENDIX K
(Page 1 of 2)

OSC CHEMISTRY ADVISOR

INITIAL OSC ACTIVATION CHECKLIST

Date: _____

Inits/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 9 Page 36 of 56
-----	---	---------------------------------------

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 9 Page 37 of 56
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APPENDIX L
(Page 1 of 3)

OSC CLERK

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 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 9 Page 38 of 56
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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.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 9 Page 40 of 56
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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 9 Page 41 of 56
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APPENDIX M
(Page 2 of 2)

OSC BRIEFING TEAM

OPERATIONAL RESPONSIBILITIES

- Provide Mechanical, Electrical, and Instrument technical expertise.
- 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 9 Page 42 of 56
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APPENDIX N
(Page 1 of 2)

OSC INDUSTRIAL SAFETY ADVISOR

INITIAL OSC ACTIVATION CHECKLIST

Date: _____

Inits/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 9 Page 43 of 56
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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 9 Page 44 of 56
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APPENDIX O
(Page 1 of 1)

OSC NUCLEAR SECURITY ADVISOR
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.

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.

APPENDIX P
(Page 1 of 3)

OSC TEAMS COORDINATOR

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.

___/___

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 9 Page 46 of 56
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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 REX 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.

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 9 Page 48 of 56
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APPENDIX Q
(Page 1 of 1)

OSC NUCLEAR STORES COORDINATOR

INITIAL OSC ACTIVATION CHECKLIST

Date: _____

Inits/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 9 Page 49 of 56
-----	---	---------------------------------------

APPENDIX R
(Page 1 of 2)

WORK CONTROL BOARDWRITER

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.

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 9 Page 50 of 56
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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 9 Page 51 of 56
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APPENDIX S
(Page 1 of 2)

RADCON BOARDWRITER

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.

___/___

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

WBN	ACTIVATION AND OPERATION OF THE OPERATIONS SUPPORT CENTER (OSC)	EPIP-7 Revision 9 Page 52 of 56
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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 9 Page 53 of 56
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APPENDIX T
(Page 1 of 1)

DCRM COORDINATOR

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)

___/___

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 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 9 Page 56 of 56
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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.

TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT

**EMERGENCY PLAN IMPLEMENTING
PROCEDURES**

EPIP-9

LOSS OF METEOROLOGICAL DATA

Revision 8

Unit 0

QUALITY RELATED

PREPARED BY: F.L. Pavlechko
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 10/21/99

LEVEL OF USE: REFERENCE

WBN	LOSS OF METEOROLOGICAL DATA	EPIP-9 Revision 8 Page 2 of 9
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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"

WBN	LOSS OF METEOROLOGICAL DATA	EPIP-9 Revision 8 Page 3 of 9
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REVISION DESCRIPTION (continued)

Revision Number	Implementation Date	Pages Affected	Description of Revision
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.

WBN	LOSS OF METEOROLOGICAL DATA	EPIP-9 Revision 8 Page 4 of 9
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1.0 PURPOSE²

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 RESPONSIBILITY¹

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 INSTRUCTIONS¹

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 Standard 2.5 "Standard for Determining Meteorological Information at Nuclear Power Sites" require a 90 percent annual joint data recovery rate of valid wind speed, wind direction and temperature difference.

WBN	LOSS OF METEOROLOGICAL DATA	EPIP-9 Revision 8 Page 5 of 9
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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.

WBN	LOSS OF METEOROLOGICAL DATA	EPIP-9 Revision 8 Page 6 of 9
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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-2.5-1984, "Standard for Determining Meteorological Information at Nuclear Power Sites."
- 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.

WBN	LOSS OF METEOROLOGICAL DATA	EPIP-9 Revision 8 Page 7 of 9
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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). | <input type="checkbox"/> |
| 2. | PRESS "Data" button on telephone linked to terminal (8628). | <input type="checkbox"/> |
| 3. | When the prompt "Destination" appears, PRESS the "Vax" button on telephone linked to terminal (8628). | <input type="checkbox"/> |
| 4. | PRESS "Data" button on telephone linked to printer (8615). | <input type="checkbox"/> |
| 5. | When the prompt "Destination" appears, PRESS the "Vax" button on telephone linked to printer. (8615) | <input type="checkbox"/> |
| 6. | DOUBLE PRESS "Return" on terminal key board (repeat step if necessary). | <input type="checkbox"/> |
| 7. | When the prompt "Username" is received, TYPE "WBMET" <u>and</u> PRESS "Return". | <input type="checkbox"/> |
| 8. | When the prompt "Password" is received, TYPE "TSC" <u>and</u> PRESS "Return". (NOTE: The password will NOT be seen on the screen.)
The printer will print the MET data and log off the computer. | <input type="checkbox"/> |
| 9. | Return to step 6 for additional MET data when needed. | <input type="checkbox"/> |
| 10. | USE met data printout for documentation. | <input type="checkbox"/> |

WBN	LOSS OF METEOROLOGICAL DATA	EPIP-9 Revision 8 Page 8 of 9
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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 _____

TENNESSEE VALLEY AUTHORITY

WATTS BAR NUCLEAR PLANT

**EMERGENCY PLAN IMPLEMENTING
PROCEDURES**

EPIP-12

EMERGENCY EQUIPMENT AND SUPPLIES

Revision 13

Unit 0

QUALITY RELATED

PREPARED BY: F.L. Pavlechko
(Type Name)

SPONSORING ORGANIZATION: Emergency Planning

APPROVED BY: Frank L. Pavlechko

EFFECTIVE DATE: 10/22/99

LEVEL OF USE: REFERENCE

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 2 of 21
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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.

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 3 of 21
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REVISION DESCRIPTION:

Revision Number	Effective Date	Pages Affected	Description of 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.
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>

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 4 of 21
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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 RESPONSIBILITIES³

- 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.

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 5 of 21
------------	---	---

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.²

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.²

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

2.2.4 Emergency facilities communications and equipment inspections will be conducted on a monthly basis by WBN Emergency Preparedness using Preventive Maintenance Instruction, WBN O-TEL-250-0001, PM # 01.⁴

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

<u>APPENDICES A, B, C, D, E, F, & 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

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 6 of 21
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2.3 Inventory/Inspection Instructions³

- 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.
 - 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.

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 7 of 21
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2.0 RESPONSIBILITIES (continued)

- 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.

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 8 of 21
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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) O-FPS-510-SCBA, Cleaning/Sanitizing, Maintenance, Inspection, Storage and Inventory of Positive Pressure MSA, SCBAs.²

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

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 9 of 21
------------	---	---

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)	—	—	_____
5	Marinelli beakers	—	—	_____
1	Shielded detector pig	—	—	_____
10	Silver zeolite cartridges	—	—	_____

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 10 of 21
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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	Cornmeal	___	___	_____
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.

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 11 of 21
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Appendix B
(Page 1 of 1)

RESPONSIBILITY - MEDICAL SERVICES/FIRE PROTECTION

MEDICAL EMERGENCY SUPPLIES¹

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-0-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-0-FPS-510-005, Stretcher).

3. Equipment located in the fire emergency cage and ambulance shall be available for use by MERT.

4. Copies of the signature and review sheets for PM-0-FPS-510-AMB, PM-0-FPS-510-005-Stretcher Cabinets and FPS-777-Fire Equipment shall be sent to WBN EP Manager, WTC 1P-WBN.

5. PM and FPS signature review sheets received and filed.

Signature

Date

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 12 of 21
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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:²

<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 0-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

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 13 of 21
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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

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 14 of 21
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Appendix E

**RESPONSIBILITY - EP
RHEA MEDICAL CENTER AND ATHENS REGIONAL MEDICAL CENTER
EMERGENCY CABINET INVENTORY ⁷**

SAT	Quantity	Description	Remarks
Protective Clothing			
	10 pair	Shoe covers	
	10	Dress out packages (coveralls, booties, gloves)	
	3	Surgical gowns	
	2 boxes	Surgical gloves	
	4 rolls	Surgical tape for dressout	
Facility Preparation			
	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	
	1 set	Radiological barrier rope or ribbon	
	1 set	Traffic cones	
	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	
Decontamination Supplies			
	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	
Health Physics Supplies			(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.

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 15 of 21
------------	---	--

Appendix F
(Page 1 of 4)

RESPONSIBILITY - EP

**EMERGENCY SUPPLIES
TECHNICAL SUPPORT CENTER (TSC)²**

<u>DOCUMENTS</u>	(TSC Reference Area) (Checkoff)		<u>REMARKS</u>
	<u>YES</u>	<u>NO</u>	
Plant Drawings (verify existence only)	_____	_____	_____
DCRM Controls Listing	_____	_____	_____
1 ASME Steam tables	_____	_____	_____
1 FRED Users Manual	_____	_____	_____
2 Meteorological Data Display User's Manual	_____	_____	_____
1 Meteorological 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 EIPs	_____	_____	_____
4 WBN EIPs	_____	_____	_____
1 set Position Activity Books (latest Procedure Rev.)	_____	_____	_____
1 set SOIs (System Operating Instructions)	_____	_____	_____
3 copies Unit 1 Technical Specifications	_____	_____	_____
1 copy Function Restoration Guidelines	_____	_____	_____
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 _____

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 16 of 21
------------	---	--

Appendix F
(Page 2 of 4)

RESPONSIBILITY - EP

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

<u>DOCUMENTS</u>	(TSC Reference Area) (Checkoff)		<u>REMARKS</u>
	<u>YES</u>	<u>NO</u>	
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 Operator's Manual	—	—	_____

Retain completed Appendix F in WBN EP file.

Inspection Performed By

Date

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 17 of 21
------------	---	--

Appendix F
(Page 3 of 4)

RESPONSIBILITY - EP

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

<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)	_____	_____	_____
1 Emergency Resources Manual (INPO)	_____	_____	_____
7 SAMGs	_____	_____	_____
1 copy Chattanooga Phone Directory (current edition)	_____	_____	_____
1 copy Knoxville Phone Directory (current edition)	_____	_____	_____
<u>Communications Equipment & Calculators</u>			
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 _____

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 18 of 21
------------	---	--

Appendix F
(Page 4 of 4)

RESPONSIBILITY - EP

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

<u>SUPPLIES</u>	(CHECKOFF)		<u>REMARKS</u>
	<u>YES</u>	<u>NO</u>	
3 Empty 3-ring notebooks	_____	_____	_____
2 rolls Fax Paper	_____	_____	_____
3 Tape Dispensers with tape	_____	_____	_____
5 Dryboard Erasers	_____	_____	_____
Assorted Ink Pens/Pencils/Paper Clips	_____	_____	_____
6 Dry Erase Markers - Assorted Colors	_____	_____	_____
3 Staplers	_____	_____	_____
1 Box Staples	_____	_____	_____
10 Notepads	_____	_____	_____
10 Logbooks	_____	_____	_____
1 Three-Hole Punch	_____	_____	_____
Assorted Wiping Cloths	_____	_____	_____
Keys to TSC in Main Control Room	_____	_____	_____
Cellular Telephone ⁶ (available for facility/EP use)	_____	_____	_____
Inspection Performed By: _____			Date _____
Reviewed by: _____			Date _____
WBN EP Manager			

Retain completed Appendix F in WBN EP file.

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 19 of 21
------------	---	--

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 EIPs		---	---	_____
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 Operator's Manual		---	---	_____
1 Functional Restorations Guidelines		---	---	_____
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 Rex Terminal		---	---	_____
1 Cellular Telephone ⁶ (available for facility/EP use)		---	---	_____

Retain completed Appendix G in WBN EP file.

Inspection Performed By _____ Date _____

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 20 of 21
------------	---	--

Appendix G
(Page 2 of 2)

RESPONSIBILITY - EP

**EMERGENCY SUPPLIES
OPERATIONS SUPPORT CENTER**

<u>Supplies</u>	<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	—	—	_____
10 Marker Board Markers	—	—	_____
6 Marker Board Erasers	—	—	_____
1 Book of Current OSC Briefing/Debriefing Forms	—	—	_____
<u>Tool Room</u>			
<u>EQUIPMENT</u>			
OSC (Tool Kits)			
Boilermaker	—	—	_____
Limitorque	—	—	_____
Mechanical/Machinist	—	—	_____
Instrument	—	—	_____
Electrical	—	—	_____
Steam Fitters	—	—	_____
Safety equipment	—	—	_____
Medical Supply Cabinet			
First Aid Kit	—	—	_____
1,000 Bottles of KI	—	—	_____
KI Issuance Instructions Inserts	—	—	_____
OSC Staging Area(s)			
Tables and chairs	—	—	_____
Rex Terminal	—	—	_____
Anti C clothing/supplies ⁵	—	—	_____
Speaker System	—	—	_____
Overnight Cots & Sleeping Bags	—	—	_____
Inspection Performed By: _____		Date: _____	
Reviewed By: _____		Date: _____	
EP Manager			

Retain completed Appendix G in WBN EP file.

WBN	EMERGENCY EQUIPMENT AND SUPPLIES	EPIP-12 Revision 13 Page 21 of 21
------------	---	--

SOURCE NOTES

Page 1 of 1

- | | | |
|---|--|---|
| 1 | MC-840427005015, MSC-02387,
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.
NCO-920110809
FSR-06-294
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
Subsection 5.3.9.3: 01 POI | Contents of EIPs that support the REP will contain the following elements. |
| 4 | MSC-00590, LIC COND 21 Resp
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" |