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May 3, 2004

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Subject: River Bend Station – Unit 1  
Docket No. 50-458  
License No. NFP-47  
Submittal of Revisions to Emergency Implementing Procedures

File No.: G9.5, G9.20.6

RBG-46271  
RBF1-04-0072

Ladies and Gentlemen:

Pursuant 10CFR50 Appendix E, Section V, enclosed are copies of three Emergency Implementing Procedures that have been revised. A list of the revised procedures is attached. In addition, note that procedure EIP-2-015, Post Accident Sampling Operations, has been cancelled effective April 5, 2004. In accordance with 10CFR50.54(q), changes do not decrease the effectiveness of the Emergency Plan.

If you have any questions or require further information, please contact David Lorfing at (225)-381-4157.

Sincerely,

A handwritten signature in black ink, appearing to read "DNL" followed by a stylized flourish.

D. N. Lorfing  
Manager-Licensing (Acting)  
DNL  
enclosures

A045

Submittal of Revision to the RBS Emergency Implementing Procedures

May 3, 2004

RBG-46271

RBF1-04-0072

Page 2 of 2

cc: U. S. Nuclear Regulatory Commission (2)  
Region IV  
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**LIST OF REVISED  
EMERGENCY IMPLEMENTING PROCEDURES**

<b><u>PROCEDURE</u></b>	<b><u>TITLE</u></b>	<b><u>CURRENT REV.</u></b>
EIP-2-012	Radiation Exposure Controls	18
EIP-2-016	Operations Support Center	22
EIP-2-018	Technical Support Center	27

REFERENCE USE

\*P13.01



**ENTERGY**

**RIVER BEND STATION  
STATION SUPPORT MANUAL  
\*EMERGENCY IMPLEMENTING PROCEDURE**

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***\*TECHNICAL SUPPORT CENTER***

**PROCEDURE NUMBER:** **\*EIP-2-018**

**REVISION NUMBER:** **\*27**

**Effective Date:** **\* 04/05/04**

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**NOTE : SIGNATURES ARE ON FILE.**

**\*INDEXING INFORMATION**

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## **1     PURPOSE**

This procedure provides instructions for the activation, operation and deactivation of the Technical Support Center (TSC).

## **2     REFERENCES**

- 2.1     COP-1050, Post Accident Estimation of Fuel Core Damage
- 2.2     EIP-2-001, Classification of Emergencies
- 2.3     EIP-2-012, Radiation Exposure Controls
- 2.4     EIP-2-014, Offsite Radiological Monitoring
- 2.5     Deleted
- 2.6     EIP-2-024, Offsite Dose Calculations
- 2.7     EIP-2-026, Evacuation, Personnel Accountability, and Search and Rescue
- 2.8     EIP-2-028, Recovery
- 2.9     RPP-0006, Radiological Surveys
- 2.10    Commitment 15578

## **3     DEFINITIONS**

- 3.1     Activation - The process of assembling personnel, verifying equipment operability, and making a facility ready to support the emergency response.
- 3.2     Augmentation - Actions taken to support onshift personnel or the Emergency Response Organization.
- 3.3     Habitable - For the purpose of this procedure, the term habitable is based solely on radiological conditions, however, the TSC Manager may declare the facility uninhabitable based on other conditions.

- 3.4 Imminent - Mitigation actions have been ineffective and trended information indicates that the event or condition will occur within 2 hours.
- 3.5 Long Notification Message Form (LNMF) - Used for providing State and local authorities follow-up information. The LNMF is sent out as soon as possible following a SNMF. The LNMF is also sent out for any significant changes to plant conditions that do not require an emergency escalation or change in PARs. No more than 2 hours should be exceeded between any two LNMFs.
- 3.6 Operational - Status of an emergency facility declared by the appropriate facility manager upon determining that the facility is adequately staffed and equipment is set up and available to perform the emergency functions assigned to that facility.
- 3.7 Radioactive release - For the purpose of offsite notifications, and discussions with State and local authorities, a "release" will be determined to be occurring and the "Radioactive Release" on the Short and Long Notification Message Forms is marked "yes", when:

3.7.1 Any one of three effluent monitors indicates a value three times the High alarm set point

**OR**

3.7.2 Any two of the three effluent monitors indicate a value equal or greater than the High alarm set point.

The three effluent monitors are:

<u>TITLE</u>	<u>NO.</u>
Main Plant Exhaust Stack	RMS-RE125 Channel 4 (4GE125)
Radwaste Vent. Exhaust	RMS-RE006 Channel 4 (4GE006)
Fuel Bldg. Vent. Exhaust	RMS-RE005 Channel 4 (4GE005)

**OR**

- 3.7.3 An unmonitored release is detected at the site boundary by teams with survey instruments.
- 3.8 Short Notification Message Form (SNMF) - Used for declaration of an emergency classification or changes to the Protective Action Recommendations (PARs). Notification must be made to State and local

authorities within approximately 15 minutes. The Short Notification Message Form contains information about the class of emergency, whether a release is taking place, potentially affected population and areas, and whether protective measures may be necessary.

## 4 RESPONSIBILITIES

### 4.1 Emergency Director:

- 4.1.1 assess and classify emergency conditions.
- 4.1.2 authorize doses in excess of 10CFR20 limits.
- 4.1.3 direct onsite activities in support of the Control Room.
- 4.1.4 authorize departures from license conditions or Technical Specifications in accordance with 10 CFR 50.54 (x).
- 4.1.5 determine need for onsite evacuation, personnel accountability, and implement search and rescue as required.

### 4.2 Recovery Manager:

- 4.2.1 provide overall management of River Bend Station (RBS) response activities.
- 4.2.2 provide notifications and make protective action recommendations to offsite authorities.
- 4.2.3 coordinate RBS response activities as required with offsite organizations.
- 4.2.4 ensure that offsite radiological conditions are measured and monitored.
- 4.2.5 review information being released to the Joint Information Center (JIC).
- 4.2.6 establish a Recovery Organization.
- 4.2.7 terminate the emergency.

- 4.3 TSC Manager - ensures that TSC is activated, manages TSC staff/resources in mitigation efforts, assesses plant conditions and recommends potential mitigation actions, ensures that notification message forms are properly filled out and completed on time, and that



TSC staff provide support functions per the applicable section(s) of this procedure.

## 5 GENERAL

- 5.1 Attachment 20, Technical Support Center Organization Chart is a typical makeup for the TSC.
- 5.2 Attachment 21, Technical Support Center Floor Plan is a typical setup for the TSC.
- 5.3 The TSC may be activated at any time, and shall be activated at an Alert, Site Area Emergency, or General Emergency declaration. Once activated, the TSC shall become operational as soon as possible after declaration of any of these emergency classifications. When TSC minimum staffing can be accomplished with onsite personnel, it is the goal to become operational within 45 minutes. Otherwise, it is the goal to become operational in 90 minutes.
- 5.4 Situations may arise where personnel responding to an emergency will not be able to access the emergency response facilities in the protected area (e.g. terrorist event). In these situations, TSC personnel should man the Emergency Operations Facility located in the Training Center and carry out the applicable steps of this procedure. Operations Support Center personnel should be staged in the Training Center classrooms. EOF personnel will report to the Alternate EOF in Baton Rouge to assume their duties as per EIP-2-022. Joint Information Center personnel should be directed to the Alternate JIC in Baton Rouge.

## 6 PROCEDURE

### NOTE

*The actions of this procedure may be completed in any sequence, however, the sequence presented is recommended.*

- 6.1 Emergency Director
  - 6.1.1 The Emergency Director should use Attachment 1 as a guideline. Document pertinent information on Attachment 19.

- 6.2 TSC Manager
  - 6.2.1 The TSC Manager should use Attachment 2 as a guideline. Document pertinent information on Attachment 19.
- 6.3 Administrative Coordinator
  - 6.3.1 The Administrative Coordinator should use Attachment 3 as a guideline. Document pertinent information on Attachment 19.
- 6.4 Communicator
  - 6.4.1 The Communicator should use Attachment 4 as a guideline.
- 6.5 Radiation Protection Coordinator
  - 6.5.1 The Radiation Protection Coordinator should use Attachment 5 as a guideline. Document pertinent information on Attachment 19.
- 6.6 Maintenance Support Coordinator
  - 6.6.1 The Maintenance Support Coordinator should use Attachment 6 as a guideline. Document pertinent information on Attachment 19.
- 6.7 Reactor Engineer
  - 6.7.1 The Reactor Engineer should use Attachment 7 as a guideline. Document pertinent information on Attachment 19.
- 6.8 Engineering Coordinator
  - 6.8.1 The Engineering Coordinator should use Attachment 8 as a guideline. Document pertinent information on Attachment 19.
- 6.9 Mechanical/Electrical Engineers
  - 6.9.1 The Mechanical Engineers and the Electrical Engineers should use Attachment 9 as a guideline. Document pertinent information on Attachment 19.
- 6.10 Operations Support Coordinator
  - 6.10.1 The Operations Support Coordinator should use Attachment 10 as a guideline. Document pertinent information on Attachment 19.

- 6.11 Chemistry/Core Damage Assessment Coordinator
  - 6.11.1 The Chemistry/Core Damage Assessment Coordinator should use Attachment 11 as a guideline. Document pertinent information on Attachment 19.
- 6.12 Security Coordinator
  - 6.12.1 The Security Coordinator should use Attachment 12 as a guideline. Document pertinent information on Attachment 19.
- 6.13 TSC Habitability Technician
  - 6.13.1 The TSC Habitability Technician should use Attachment 13 as a guideline. Document pertinent information on Attachment 19.
- 6.14 Data Facility Coordinator
  - 6.14.1 The Data Facility Coordinator should use Attachment 14 as a guideline. Document pertinent information on Attachment 19.
- 6.15 Status Communicator
  - 6.15.1 The Status Communicator should use Attachment 15 as a guideline.
- 6.16 ENS Communicator
  - 6.16.1 The ENS Communicator should use Attachment 16 as a guideline. Document pertinent information on Attachment 19.
- 6.17 Administrative Support Personnel
  - 6.17.1 The Administrative Support Personnel should use Attachment 17 as a guideline. Document pertinent information on Attachment 19.

## **7 DOCUMENTATION**

Attachments 1-18 and 19 of this procedure will be sent to Permanent Plant Files (PPF) per EPP-2-100 by the Manager - Emergency Preparedness.

EMERGENCY DIRECTOR

ACTIVATION

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

Action Completed  
Initial

NOTE

*If the TSC has been directed to man the EOF due to inaccessibility to the protected area, refer to Attachment 22 for additional guidance.*

1. Review status of emergency with the Shift Manager including offsite notifications and any work teams dispatched out of the Control Room. \_\_\_\_\_
2. Brief the TSC/OSC staff on the status of the emergency. \_\_\_\_\_
3. Review habitability determination and if necessary provide direction on evacuation of the TSC, OSC, or CR. \_\_\_\_\_
4. When informed by the TSC Manager that minimum staffing is available and ready to perform functions, announce that the TSC is operational and inform the EOF. \_\_\_\_\_

SUBSEQUENT ACTIONS

1. Brief OSC Director on teams dispatched from the Control Room.

NOTE

*If the EOF is operational, RM duties can be transferred directly to the EOF from the Control Room.*

2. When the TSC is ready to assume control:
  - 2.1 Contact the Shift Manager.
    - 2.1.1 Ensure that message control and dose assessment is transferred to the TSC.
    - 2.1.2 Transfer RM/ED duties from the Shift Manager.
    - 2.1.3 Request Shift Manager to make a sitewide announcement of change in RM/ED duties.
  - 2.2 Announce that the TSC has assumed RM/ED duties from the Control Room.
  - 2.3 Inform the EOF that the TSC has assumed control. \_\_\_\_\_

EMERGENCY DIRECTOR

**SUBSEQUENT ACTIONS (Cont.'d)**

**NOTE**

*Items with an asterisk (\*) are only performed if responsible for Recovery Manager duties.*

3. Coordinate the transfer of Recovery Manager duties with the EOF.
4. Remain in the immediate TSC area, unless relieved by the TSC Manager.
5. Periodically update the TSC/OSC on plant conditions and emergency actions in progress.
6. Review and make emergency classification declarations in accordance with EIP-2-001, Classification of Emergencies.
7. Direct a Limited or Building Evacuation in accordance with EIP-2-026, Attachment 1, if unexpected radiological hazards or other emergency conditions occur which jeopardize personnel safety.
8. At an Alert, if desired, direct the Security Coordinator to perform a precautionary notification of all non-essential personnel, visitors, contractor personnel, and members of the public within the Owner Controlled Area.
9. At declaration of a Site Area Emergency or higher or if conditions jeopardize onsite personnel, refer to EIP-2-026, Attachment 2.
10. Determine the status of and need for persons sent to assembly areas and staging areas.
- \*11. Review and approve notification message forms for transmittal.

**NOTE**

*Protective Action Recommendations (PARs) must be developed within 15 minutes of a General Emergency or data availability which requires upgrading the PARs.*

- \*12. Issue Protective Action Recommendations as necessary.
  - a. Using Attachment 18, formulate Protective Action Recommendations (PARs) using dose projections, field monitoring data, or plant conditions. Unnecessary evacuation of the public is NOT considered a conservative decision. Do NOT recommend a PAR change that would shelter an area (PAS) that has already been recommended for evacuation.

## EMERGENCY DIRECTOR

### SUBSEQUENT ACTIONS (Cont.'d)

- b. Review and discuss the protective actions to be recommended for the general public with the RP Coordinator.
  - c. Ensure the Siren System has been enabled in the Control Room or EOF before setting the siren sounding time with the State and local parishes.
  - d. Provide PARs to State and local authorities within 15 minutes. Once State and local authorities receive the PARs, the State and local authorities will have approximately 5 minutes to review the PARs.
  - e. When the Directors of all parishes and the Operations Officer (LHLS/EP) are on the Hotline, verify the PARs (Scenario Number) each parish intends to implement.
  - f. Write the scenario number approved and initial each parish choice on the PAR Verification Checklist provided by the Communicator.
  - g. Obtain siren sounding time from Operations Officer and document on PAR Verification Checklist.
- \*13. Revise PARs based on wind shifts when advised by the Radiation Protection Coordinator.
- \*14. If doses  $\geq 1$  rem TEDE or  $\geq 5$  rem CDE are projected at 10 miles, ensure LDEQ is aware of the need for protective actions beyond 10 miles.
15. Direct development and prioritization of corrective actions to mitigate the emergency.
16. Authorize departures from a license condition or a Technical Specification in accordance with 10 CFR 50.54 (x).
17. Authorize emergency response personnel to receive radiation exposures in excess of 10 CFR 20 limits as required in accordance with EIP-2-012, Radiation Exposure Controls.
18. Keep the Recovery Manager informed of the status of onsite emergency response activities.
19. If the OSC becomes uninhabitable, it will relocate to the TSC Conference Room. As necessary, assist the OSC Director in relocation.

EMERGENCY DIRECTOR

**SUBSEQUENT ACTIONS (Cont.'d)**

20. If the EOF is relocated to the Alternate EOF, assume duties as the Recovery Manager until the Alternate EOF is operational.
21. If the TSC is relocating, refer to Relocation Actions portion of this checklist.
- \*22. Terminate the emergency in accordance with the following criteria:
  - ALERT - Terminate the emergency when the Alert conditions are no longer met and the following have been accomplished:
    1. The plant is in a stable condition.
    2. Excessive releases of radioactivity to the environment have been terminated and no further potential for significant radioactivity releases exists.
    3. No further potential for major damage to equipment exists.
  - SAE/GE- Terminate the emergency when the SAE/GE conditions are no longer met and the following has been accomplished:
    1. The reactor is shut down, is in a stable, safe configuration, and adequate core cooling is available.
    2. Excessive releases of radioactivity to the environment have been terminated and no further potential for significant radioactivity releases exists.
    3. Offsite concentrations of radioactivity in the atmosphere or in waterways have dispersed to near background levels, excluding ground deposition.
    4. The State of Louisiana, the local Parishes and the NRC concur in terminating the emergency.
- \*23. Notify the NRC and offsite authorities of the emergency termination.
- \*24. When a Site Area or General Emergency has been terminated, implement EIP-2-028, Recovery.

## EMERGENCY DIRECTOR

### RELOCATION ACTIONS

1. If the TSC becomes uninhabitable, the following personnel and their functions will transfer to the Control Room. These personnel should relocate with their facility procedure binders.

Emergency Director-	To report to the Shift Manager's desk to assume ED functions.
Reactor Engineer-	To report to the RE desk to provide support to operations.
Radiation Protection Coordinator-	To report to CADAP to perform dose assessment.
Operations Support Coordinator-	To report to the Shift Manager's desk to assist the ED.
TSC Communicator-	To report to the Communicator's desk to assume offsite communications if necessary.
ENS Communicator-	To report to the Communicator's desk to resume NRC communications.
  
2. The following personnel will report to the Main Control Room Brief Room to resume OSC functions. They should relocate with radios, SCBAs (with spare bottles), procedures, and forms.

OSC Director-	To provide briefings and control teams.
Electrician (1)	
Mechanic (1)	
I&C Technician (1)	
Radiation Protection Technician (1)	To perform habitability assessment and team coverage.
Senior Radiation Protection Technician-	To assist in team briefings and control offsite teams if necessary.
  
3. Determine with the Recovery Manager the disposition of remaining OSC and TSC personnel.
  - a. Send to EOF to be utilized as additional resources (engineers).
  - b. Send home to remain on standby.

### DEACTIVATION

1. After receiving direction from the Recovery Manager, instruct the TSC Manager to deactivate the facility.
2. Ensure that all documentation is forwarded to the TSC Manager.



TSC MANAGER

ACTIVATION

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

Action Completed

Initial

NOTE

*If the TSC has been directed to man the EOF due to inaccessibility to the protected area, refer to Attachment 22 for additional guidance.*

1. Ensure TSC PA system is turned on for the OSC to hear briefings. \_\_\_\_\_
2. Periodically announce that no eating, drinking, or chewing is allowed until habitability is determined. \_\_\_\_\_
3. Obtain status of habitability of the TSC from the RP Coordinator. Make announcement of status. \_\_\_\_\_
  - a. If the TSC is uninhabitable, obtain concurrence from the Emergency Director and implement the Relocation Action portion of this checklist. \_\_\_\_\_
4. When the TSC is determined to be habitable, make announcement. \_\_\_\_\_
5. All minimum staffing personnel have completed the activation portion of their checklist and are prepared to perform functional responsibilities: \_\_\_\_\_
  - a. Emergency Director
  - b. Operations Support Coordinator
  - c. Radiation Protection Coordinator
  - d. Communicator
  - e. Reactor Engineer (NOTE: RE may be located in Control Room.)
6. Inform the Emergency Director that the TSC is ready to be declared operational. \_\_\_\_\_

## TSC MANAGER

### SUBSEQUENT ACTIONS

#### NOTE

*Items with an asterisk (\*) are only performed if the TSC is responsible for Recovery Manager duties.*

#### NOTE

*Notifications to State and Local authorities must be made within approximately 15 minutes of a declaration of an emergency or Protective Action Recommendation (PAR) change using the Short Notification Message Form.*

1. Assist Emergency Director (ED) with transfer of RM/ED duties, as necessary.
2. Ensure status boards are updated.
3. Ensure the OSC Director has had the TSC ventilation system placed in the emergency mode.
4. Relieve the Emergency Director as necessary. Remain in the immediate TSC area when functioning as the Emergency Director and make appropriate announcements.
- \*5. Prepare the appropriate Short Notification Message Form (SNMF).
- \*6. As soon as possible following the SNMF, prepare a Long Notification Message Form (LNMF) as shown on page 5 of this attachment. Refer to page 6 of this attachment for directions on completing the LNMF.
- \*7. Prepare a LNMF when significant changes to plant conditions occur that do not require an emergency escalation or change in PARs. During extended emergencies, time between LNMFs should not exceed 2 hours.

#### NOTE

*The Technical Support Guidelines may be used to assess accident conditions.*

## TSC MANAGER

### SUBSEQUENT ACTIONS (Cont.'d)

8. Coordinate TSC staff activities:
  - a. Collection, retention, and transmittal of plant emergency conditions information.
  - b. Design and installation of short term instrumentation and controls modifications.
  - c. Design and installation of system modifications.
  - d. Development of guidance for Operations personnel on the protection of the reactor core.
9. Ensure the Administrative Coordinator develops a long-term relief rotation list for the Control Room, TSC, and OSC.
10. Keep the Emergency Director informed of all activities.
11. If the OSC becomes uninhabitable, assist OSC Director in relocation of OSC personnel to the TSC Conference Room.
- \*12. Upon termination of the emergency, ensure that notifications are made to State and local authorities using the Long Notification Message Form.

### RELOCATION ACTIONS

1. If the TSC becomes uninhabitable, the following personnel and their functions will transfer to the Control Room. These personnel should relocate with their facility procedure binders.

Emergency Director-	To report to the Shift Manager's desk to assume ED functions.
Reactor Engineer-	To report to the RE desk to provide support to operations.
Radiation Protection Coordinator-	To report to CADAP to perform dose assessment.
Operations Support Coordinator-	To report to the Shift Manager's desk to assist the ED.
TSC Communicator-	To report to the Communicator's desk to assume offsite communications if necessary.
ENS Communicator-	To report to the Communicator's desk to resume NRC communications.

**TSC MANAGER**

**RELOCATION ACTIONS (Cont.'d)**

2. The following personnel will report to the Main Control Room Brief Room to resume OSC functions. They should relocate with radios, SCBAs (with spare bottles), procedures, and forms.  
  
OSC Director- To provide briefings and control teams.  
Electrician (1)  
Mechanic (1)  
I&C Technician (1)  
Radiation Protection Technician (1)  
Senior Radiation Protection Technician-To assist in team briefings and control offsite teams if necessary.
3. Consult with the Emergency Director on disposition of remaining personnel.
  - a. Send to EOF as additional resources (engineers).
  - b. Send home to remain on standby.

**DEACTIVATION**

1. When directed by the Emergency Director, announce deactivation of the TSC.
2. Ensure that all equipment is returned. Report all damaged and/or missing equipment to the Manager - Emergency Preparedness.
3. Direct the TSC Communicator to terminate ERDS after receiving NRC concurrence.
4. Ensure that all documentation is forwarded to the Manager - Emergency Preparedness.

## TSC MANAGER

## NOTIFICATION MESSAGE FORM

1. THIS IS RIVER BEND NUCLEAR STATION WITH MESSAGE NUMBER \_\_\_\_\_

2. A. \_\_\_\_\_ / \_\_\_\_\_ B. COMM: \_\_\_\_\_ C. TEL. NO: \_\_\_\_\_  
(TIME/DATE) (NAME)

3. EMERGENCY CLASSIFICATION:  
A. ☐ NOTIFICATION OF UNUSUAL EVENT C. ☐ SITE AREA EMERGENCY E. ☐ TERMINATED  
B. ☐ ALERT D. ☐ GENERAL EMERGENCY

4. CURRENT EMERGENCY CLASSIFICATION ☐ DECLARATION ☐ TERMINATION  
Time/Date: \_\_\_\_\_ / \_\_\_\_\_

5. RECOMMENDED PROTECTIVE ACTIONS:  
A. ☐ No Protective Actions Recommended At This Time (Go to item 6).  
B. ☐ EVACUATE \_\_\_\_\_  
☐ SHELTER \_\_\_\_\_

6. INCIDENT DESCRIPTION/UPDATE/COMMENTS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. REACTOR SHUTDOWN? ☐ NO ☐ YES Time/Date: \_\_\_\_\_ / \_\_\_\_\_

8. METEOROLOGICAL DATA:  
A. Wind direction FROM \_\_\_\_\_ Degrees at \_\_\_\_\_ MPH  
B. Sectors Affected (A-R): \_\_\_\_\_  
C. Stability Class (A-G): \_\_\_\_\_  
D. Precipitation: ☐ None ☐ Rain ☐ Sleet ☐ Snow ☐ Hail ☐ Other \_\_\_\_\_

9. RELEASE INFORMATION:  
A. ☐ No Release (Go to item 13) C. ☐ A RELEASE OCCURRED BUT STOPPED; Duration \_\_\_\_\_ hrs.  
Release Stopped at \_\_\_\_\_ hrs.  
B. ☐ A RELEASE IS OCCURRING: Expected Duration \_\_\_\_\_ hrs.  
Release Started at \_\_\_\_\_ hrs.

10. TYPE OF RELEASE:  
A. ☐ Radioactive Gases B. ☐ Radioactive Airborne Particulates C. ☐ Radioactive Liquids

11. RELEASE RATE:  
A. NOBLE GASES \_\_\_\_\_ CI/s B. IODINES \_\_\_\_\_ CI/s

12. ESTIMATE OF PROJECTED OFF-SITE DOSE:  
A. Projections for \_\_\_\_\_ hours based on: ☐ Field Data ☐ Plant Data  
B. (TEDE) WB DOSE COMMITMENT (Rem) C. (CDE) THYROID DOSE COMMITMENT (Rem)  
Site Boundary \_\_\_\_\_ 5 miles \_\_\_\_\_ Site Boundary \_\_\_\_\_ 5 miles \_\_\_\_\_  
2 miles \_\_\_\_\_ 10 miles \_\_\_\_\_ 2 miles \_\_\_\_\_ 10 miles \_\_\_\_\_

13. MESSAGE APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_

14. MESSAGE RECEIVED BY: \_\_\_\_\_ TIME: \_\_\_\_\_

PR00015M.CDR

## TSC MANAGER

## GUIDELINES FOR COMPLETING THE LNMF

	ESP COMM	MANUAL METHOD
Line 1	Message Number automatic	Assign a message number. Number the messages sequentially until the emergency is terminated.
Line 2	2A Time/Date automatic upon transmission. 2B Comm: Select facility from pull-down menu. 2C Tel. No.: Indicate "hotline" unless alternate method is being used, then enter alternate method.	2A Enter Time/Date message was transmitted. 2B Comm.: Enter facility name. 2C Tel. No.: Indicate "hotline" unless alternate method is being used, then enter alternate method.
Line 3	Automatic from Short Form. If termination message, check "terminated".	Check appropriate classification or terminated.
Line 4	Automatic from Short Form. For termination, check "termination" and enter termination time/date.	Check either declaration or termination. Enter time/date of emergency declaration or termination.
Line 5	Check appropriate box(es). If PAR has been recommended, select appropriate protective actions and indicate scenario number.	Check appropriate box(es). If PARs have been recommended, indicate the scenario number.
Line 6	Enter description from Short Form. May add information as necessary. Use this line to correct any previous errors.	Enter description from Short Form. May add information as necessary. Use this line to correct any previous errors.
Line 7	Indicate if the reactor is shutdown. Information should be obtained from Operations. If yes, enter time/date.	Indicate if the reactor is shutdown. Information should be obtained from Operations. If yes, enter the time/date.
Line 8	Information for Lines 8A-C can be found on CADAP on the "values" screen. A backup to CADAP for meteorological data is the RM-21 printer in the TSC Computer Room (SB 123-04). 8A - Enter wind direction and speed. 8B - Enter the affected sectors according to the current wind direction. 8C - Enter stability class. 8D - Check appropriate box. <i>NOTE: 8 A-C are automatically completed when dose data is imported from CADAP.</i>	Information for Lines 8A-C can be found on CADAP on the "values" screen. A backup to CADAP for meteorological data is the RM-21 printer in the TSC Computer Room (SB 123-04). 8A - Enter wind direction and speed. 8B - Enter the affected sectors according to the current wind direction. 8C - Enter stability class. 8D - Check appropriate box.
Line 9	Determine if there is a release. 9A If no release, check block A and proceed to line 13. 9B/C If release has occurred or is occurring, check B or C as appropriate and enter duration and time release started/stopped. When checking B & C, be sure to import appropriate dose data.	Determine if there is a release. 9A If no release, check block A and proceed to line 13. 9B/C If release has occurred or is occurring, check B or C as appropriate and enter duration and time release started/stopped. When checking B & C, be sure to import appropriate dose data.
Line 10	Indicate the type of release. If there is no core damage, check 10A. If there is clad damage or fuel melt, check 10A & 10B. If the release is a liquid release, check 10C.	Indicate the type of release. If there is no core damage, check 10A. If there is clad damage or fuel melt, check 10A & 10B. If the release is a liquid release, check 10C.
Line 11	Imported from CADAP	Enter release rate. DRMS provides release rates in uCi/sec. These rates must be converted to Ci/sec. CADAP also provides this information through Notepad.
Line 12	12A Enter numbers of hours used and method used in dose calculation. 12B Import from CADAP.	12A Enter numbers of hours used and method used in dose calculation. 12B Obtain from CADAP results.
Line 13	Enter Recovery Manager/Emergency Director's name and "RM/ED" as title. RM/ED must review and approve NMFs prior to transmission.	Enter Recovery Manager/Emergency Director's name and "RM/ED" as title. RM/ED must review and approve NMFs prior to transmission.
Line 14	Leave blank. For use by parishes.	Leave blank. For use by parishes.

# ADMINISTRATIVE COORDINATOR

## ACTIVATION

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

Action Completed  
Initial

1. Call in Administrative personnel for the TSC and the OSC, using the Emergency Telephone Book located in the Administrative Coordinator's binder. \_\_\_\_\_
2. Verify that all required TSC staff members are present. If positions remain to be filled, obtain the Dialogics callout log from the TSC fax to determine which TSC staff members have responded. Call additional staff members as required. \_\_\_\_\_
3. Check with the TSC Data Facility Coordinator and verify that all TSC administrative equipment is functional. If problems or non-functional equipment is identified, improvise with the use of alternate equipment or initiate actions to repair or replace non-functional equipment. \_\_\_\_\_
4. Print daily report and ensure distribution.

## SUBSEQUENT ACTIONS

1. Monitor TSC gaitronics speaker volume and adjust if necessary.
2. Verify with NRC personnel that the FTS 2001 phone lines are operational. Report any problems to the NRC Operations Center using a commercial phone and the numbers listed on the NRC phone.
3. Obtain a list of personnel located in the Protected Area from Security. This information can be utilized for later shift compliments.
4. Coordinate with the Admin/Logistics Advisor the procurement of additional supplies and resources as directed by the TSC staff. Coordinate delivery with the Admin/Logistics Advisor and the Security Coordinator. Notify TSC staff personnel of Estimated Time of Arrival for requested materials or resources. If the EOF has relocated, coordinate this with the Corporate Emergency Center (CEC) on the Corporate Hotline.
5. Using pages 3-7 of this attachment develop a staffing rotation list for TSC, OSC, and Control Room personnel. Contact the EOF Admin/Logistics Advisor for EOF RP technician and Chemistry technician staffing needs and the approved access route for responding personnel. Along with the TSC Manager, determine shift times. Coordinate with the Operations Support Coordinator to identify additional operations personnel needs. Contact the individuals on the list and inform them of the time that they are scheduled to report to the site and the approved route. Unless directed to do otherwise by the Operations Support Coordinator, call out (2) additional NCOs and (2) NEOs to augment the next shift.

## ADMINISTRATIVE COORDINATOR

### SUBSEQUENT ACTIONS (Cont'd)

6. Call the Admin/Logistics Advisor for updated information on any injured personnel. Periodically update the TSC Manager on the injured person(s) status.

### RELOCATION ACTIONS

If TSC is relocating

1. Relocate as directed by the TSC Manager.

### DEACTIVATION

1. When directed by the TSC Manager, deactivate the TSC.
2. Ensure that all equipment, procedures, and drawings are properly stored.
3. Have administrative staff collect all documentation.
4. Ensure that all documentation is forwarded to the TSC Manager.



ADMINISTRATIVE COORDINATOR

OSC STAFF ROTATION  
(12-Hour Shifts)

Position	<u>1st Shift</u>	<u>2nd Shift</u>	<u>3rd Shift</u>	<u>4th Shift</u>
	Date: Time:	Date: Time:	Date: Time:	Date: Time:
OSC Director (1)				
Manager Electrical (1)				
Manager Mechanical (1)				
Manager I & C (1)				
Status Communicator (1)				
OSC Admin Support (1)				
Sr. RP Technician (1)				
Mechanical Maintenance (Ask Maint. Support Coordinator)				
Electrical Maintenance (Ask Maint. Support Coordinator)				
I&C Maintenance (Ask Maint. Support Coordinator)				

ADMINISTRATIVE COORDINATOR

OSC STAFF ROTATION (Cont.'d)  
(12-Hour Shifts)

	<u>1<sup>st</sup> Shift</u> Date: Time:	<u>2<sup>nd</sup> Shift</u> Date: Time:	<u>3<sup>rd</sup> Shift</u> Date: Time:	<u>4<sup>th</sup> Shift</u> Date: Time:
Radiation Protection Technicians      OSC  (Ask RP Coordinator)				
Chemistry Technicians  OSC				
(Ask Chemistry/Core Damage Assessment Coordinator)      EOF				

# ADMINISTRATIVE COORDINATOR

## TSC STAFF ROTATION (12-Hour Shifts)

Position	<u>1st Shift</u> Date: Time:	<u>2nd Shift</u> Date: Time:	<u>3rd Shift</u> Date: Time:	<u>4th Shift</u> Date: Time:
Emergency Director (1)				
TSC Manager (1)				
Reactor Engineer (1)				
Mechanical Engineer (Ask Engineering Coordinator)				
Electrical Engineer (Ask Engineering Coordinator)				
Engineering Coord. (1)				
Ops. Support Coord. (1)				
Maintenance Support Coordinator (1)				
Radiation Protection Coordinator (1)				
Chemistry/Core Damage Assessment Coord. (1)				
Security Coordinator (1)				
Status Communicator (1)				
Data Facility Coord. (1)				

ADMINISTRATIVE COORDINATOR

TSC STAFF ROTATION (Cont.'d)  
(12-Hour Shifts)

Position	<u>1st Shift</u>	<u>2nd Shift</u>	<u>3rd Shift</u>	<u>4th Shift</u>
	Date: Time:	Date: Time:	Date: Time:	Date: Time:
Administrative Coordinator (1)				
TSC Communicator (1)				
ENS Communicator (1)				
Administrative Support (Determined by Admin Coordinator)				

ADMINISTRATIVE COORDINATOR

CONTROL ROOM STAFF ROTATION  
(12-Hour Shifts)

Position	<u>1st Shift</u> Date: Time:	<u>2nd Shift</u> Date: Time:	<u>3rd Shift</u> Date: Time:	<u>4th Shift</u> Date: Time:
Shift Manager (1 min)				
Control Room Supervisor (1 min)				
Nuclear Control Operators (3 min)				
Nuclear Equipment Operators (4 min)				
Shift Technical Advisor (1 min)				
TSC/CR Communicator (1 min)				
Additional Support				

## COMMUNICATOR

ACTIVATION

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

Action Completed  
Initial

1. Verify activation of Emergency Response Data System (ERDS). \_\_\_\_\_
2. Verify the operability of the following communications equipment:
  - State and Local Hotline, call the Emergency Operations Center (LHLS/EP) at 361. \_\_\_\_\_
  - Emergency Shutdown Line, call the OSC at 202. \_\_\_\_\_
  - Civil Defense Radio Console, call LHLS/EP \_\_\_\_\_
  - ESP Computer \_\_\_\_\_
3. Inform TSC Manager when prepared to perform functional responsibilities. \_\_\_\_\_

SUBSEQUENT ACTIONSNOTE

*Notifications to State and local authorities must be made within approximately 15 minutes of a declaration of an emergency or Protective Action Recommendation (PAR) change using the Short Notification Message Form (SNMF).*

*Do NOT use the State/Local Hotline while a Notification Message Form is being transmitted because it will prevent receiving locations from getting a complete message.*

1. Contact the Main Control Room Communicator to receive a status on offsite notifications.
2. Assume responsibility for notifications when directed by the ED.
3. Assist the TSC Manager in completing the appropriate Notification Message Form (NMF). Ensure that the RP Coordinator reviews all dose data prior to RM/ED review and approval to transmit. When directed, make notifications of the emergency to State and local authorities.
4. Verify NMF receipt with State and local authorities. Complete a new NMF Verification Checklist (page 3) for each message sent.
5. If an agency has not received the message, obtain message receipt verification from the other agencies and re-transmit the message (ESP Computer) to the non-receiving party.
6. If the message is still not received, read it to the agency(s), line by line. Message may be faxed as needed.

## COMMUNICATOR

### SUBSEQUENT ACTIONS (Cont'd)

7. If no contact is made with a location on the Hotline, call the location on the commercial telephone to verify receipt of message. If commercial telephones are inoperable, the Civil Defense Radio may be used.
8. If Protective Action Recommendations (PARs) are issued from the TSC:
  - a. During the verification of message receipt on the Hotline, inform LHLS/EP and the Parish EOCs that you will call them back in five minutes for PAR confirmation.
  - b. After five minutes, contact LHLS/EP and the five Parish EOCs. Using the PAR Verification Checklist on page 4, verify that the Directors or the Assistant Directors of all Parishes and the Operations Officer at LHLS/EP are on the Hotline.
  - c. When verified, request the RM/ED to pick up the Hotline for PAR verification and give the RM/ED the PAR Verification Checklist.
9. Make follow-up notifications to State and local authorities as directed by the RM/ED.
10. Maintain a file of all notification message forms and verification checklists.
11. Ensure that Administrative personnel copy and distribute all Notification Message Forms to TSC staff.
12. Contact the EOF Communicator with status of offsite notifications.
13. Transfer notifications to the EOF Communicator when directed by the Emergency Director.

### RELOCATION ACTIONS

If TSC is relocating, report to Communicator's desk in the Control Room with appropriate supplies to assume offsite notifications should the need arise.

If EOF is relocating, receive turnover from EOF Communicator and resume responsibilities for offsite notifications.

### DEACTIVATION

1. When directed by the TSC Manager, deactivate the TSC.
2. Ensure all messages are cleared and ESP Computer control is returned to the Control Room.
3. Ensure all documentation is forwarded to the TSC Manager.

## COMMUNICATOR

## NMF VERIFICATION CHECKLIST

Ensure at least one of the agencies in each of the following rows receives the message.

MESSAGE # \_\_\_\_\_

FACILITY	PHONE #	Hotline #	MSG. REC'D (Y/N/NA)
La. Dept. of Environmental Quality (LDEQ) (M-F - 8AM to 4PM only, LHLS/EP will notify all other times)	9-765-0160	371	
La. Office of Homeland Security & Emergency Preparedness (LHLS/EP) (State EOC)	9-925-7500 (24-hr. pt.)	361	
West Feliciana Parish (WFP)	EOC 9-635-4792	351	
	24-HR. PT. 9-635-3241	352	
East Feliciana Parish (EFP)	EOC 9-634-7269	341	
	24-HR. PT. 9-683-5459	342	
Pointe Coupee Parish (PCP)	EOC 9-694-9014	331	
	24-HR. PT. 9-694-3737	332	
East Baton Rouge Parish (EBRP)	EOC 9-389-2100	311	
	24-HR. PT. 9-389-3300	312	
West Baton Rouge Parish (WBRP)	EOC 9-346-1581	321	
	24-HR. PT. 9-343-9234	321	
Mississippi Emergency Management Agency (MEMA)	9-1-800-222-6362 (24 hr. pt.) 9-1-601-352-9100 (alternate)	381	
Mississippi Highway Patrol (MHP)	9-1-601-987-1530 (backup)	382	

Parish EOCs and LHLS/EP Operations Officer informed  
of 5-minute PAR verification phone call

YES NO NA

Message Verified \_\_\_\_\_

Communicator Signature/KCN \_\_\_\_\_

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



## COMMUNICATOR

## PAR VERIFICATION CHECKLIST

Scenario # Recommended: \_\_\_\_\_ Date: \_\_\_\_\_

Communicator verifies that correct individuals are on line by placing a check mark on the appropriate line. The RM/ED will verify approved scenario and initial the form.

**WEST FELICIANA PARISH:****RM/ED Initial****On Line**

Director of Emergency Preparedness

Assistant Director

APPROVED SCENARIO # \_\_\_\_\_

**EAST FELICIANA PARISH:**

Director of Emergency Preparedness

Assistant Director

APPROVED SCENARIO # \_\_\_\_\_

**POINTE COUPEE PARISH:**

Director of Emergency Preparedness

Assistant Director

APPROVED SCENARIO # \_\_\_\_\_

**WEST BATON ROUGE PARISH:**

Director of Emergency Preparedness

Assistant Director

APPROVED SCENARIO # \_\_\_\_\_

**EAST BATON ROUGE PARISH:**

Director of Emergency Preparedness

Assistant Director

APPROVED SCENARIO # \_\_\_\_\_

**STATE OF LOUISIANA**

LHLS/EP Operations Officer

Siren Sounding Time: \_\_\_\_\_

RADIATION PROTECTION COORDINATOR

ACTIVATION

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

Action Completed  
Initial

NOTE

*If no release is occurring or has occurred, the TSC may be presumed to be radiologically habitable without conducting surveys.*

1. Using the following guidelines, evaluate radiological conditions and determine habitability of the TSC. Provide results to TSC Manager and post on status board. \_\_\_\_\_

Facility habitability is based on a maximum dose limit of 5 rem TEDE over an assumed 12 hour shift.

A combination of 200 mR/hr to the whole body (Deep Dose Equivalent) **plus** an airborne concentration of  $5\text{E-}6 \mu\text{Ci/cc}$  radioiodine in the facility equates to a TEDE of approximately 5 rem in 12 hours.

NOTE

*If DRMS or meteorological tower information is unavailable in the facility, have an individual dispatched to the Control Room to relay data. The onsite hotline, if available, may be used to relay this information. DRMS data may also be obtained from an ERIS computer.*

2. Ensure that the RM-11 module of the DRMS is operable, as follows: \_\_\_\_\_
  - a. Ensure that the RM-11 console and printer power switches are in the "ON" position.
  - b. Check RM-11 console screen brightness by turning "BRIGHTNESS" button.
  - c. If display does not appear on screen, flip "ALTERNATE/PRIMARY" selector switch from one position to the other.
  - d. Press any "Grid" button and display should appear on screen.

**RADIATION PROTECTION COORDINATOR**

**ACTIVATION (CONT'D)**

- e. If display does not appear on screen, perform the following:
  - 1. Obtain panel key from TSC key box.
  - 2. Proceed through door SB123-04 to room #303 (Cable chase room) to check breaker(s).
  - 3. Check breaker #27 and #29 on Panel #1VBN-PNL-06A.
  - 4. If breaker(s) has tripped, reset breaker by taking switch to "OFF" position, then to the "ON" position.
  - 5. Proceed as described in step "a." above.
- 3. Ensure that the RM-21 module of the DRMS is operable as follows: \_\_\_\_\_
  - a. Type "HELP MET" RETURN to obtain current meteorological information.  
Type "HELP RAD" RETURN to obtain plant effluent and meteorological information.  
Type "HELP" RETURN to view the "help" menus.
- 4. Verify operability of the onsite hotline. Call the OSC at 202. \_\_\_\_\_
- 5. Inform the TSC Manager when prepared to assume functional responsibilities. \_\_\_\_\_

## RADIATION PROTECTION COORDINATOR

### SUBSEQUENT ACTIONS

1. Check RP technician response to the Dialogics callout and current on-shift RP staffing. Have Administrative Coordinator contact additional technicians as necessary for the following:

#### NOTE

*Offsite teams are expected to report in 75 minutes and be ready for deployment as soon as possible but no later than 90 minutes following notification.*

- C
  - a. OSC Support (9)
  - b. EOF as Habitability Technician
  - c. TSC as Habitability Technician
  - d. Offsite teams (2)
2. Obtain status of any monitoring teams previously dispatched by the Control Room.
3. As required, ensure the distribution of pocket dosimeters and TLDs to TSC personnel and announce the frequency at which they should be read.
4. As required, direct the establishment of a TSC contamination control point outside door # SB123-19.
5. Ensure OSC dispatches qualified personnel to refill SCBA bottles.
6. Review all notification message forms containing radiological data prior to transmission.
7. Periodically assess TSC habitability.
8. Assess plant radiological conditions and effectiveness of accident mitigation strategies.
9. Review dose projection calculations with the Emergency Director and keep him informed of offsite radiological data, both real time and projected doses.
10. If the TSC is issuing Protective Action Recommendations, perform the following:
  - a. Using Attachment 18, recommend offsite Protective Action Recommendations to the Emergency Director, as necessary. Provide information without delay.
  - b. Provide information for the applicable sections of the Notification Message Forms.

## RADIATION PROTECTION COORDINATOR

### SUBSEQUENT ACTIONS (Cont'd)

- c. After initial PAR implementation, assuming no change in dose projections that would require an increase in PARs, wind shifts which change the scenario number, may trigger an increase in PARs to a higher level. To determine the appropriate PAR, review the emergency scenario maps and the National Weather Service (NWS) forecast. Do NOT recommend a PAR change that would shelter an area (PAS) that has already been recommended for evacuation. In addition, if NWS indicates continued wind shifts, consider the following:
- **Present PARs** - Evacuate 2 mile radius, evacuate 5 miles downwind, shelter the 10 mile radius and evacuate schools, institutions and recreation areas in the 5 mile radius (minimum PARs)  
  
**Wind shifts** - Evacuate 5 mile radius and shelter the 10 mile radius. (Scenario #12)
  - **Present PARs** - Evacuate 5 mile radius, evacuate 10 miles downwind, shelter the remaining 10 mile radius and evacuate schools, institutions and recreation areas in the 10 mile radius.  
  
**Wind shifts** - Evacuate 10 mile radius. (Scenario #27)
- d. When PARs are issued, provide recommended routes for personnel and deliveries into RBS.
- e. If doses  $\geq 1$  rem TEDE or  $\geq 5$  rem CDE thyroid are projected at 10 miles, estimate the projected dose at 15, 20 and 25 miles as appropriate and inform the Emergency Director of the distance and downwind areas at which a PAG is estimated to be exceeded.

Estimate radiation doses beyond 10 miles using the following factors:

These ratios may be used regardless of Stability Class, Wind Speed or Time After Shutdown when the Core State = "Fuel Melt"

Radiation Dose at 15 miles = dose at 10 miles x 0.387

Radiation Dose at 20 miles = dose at 10 miles x 0.267

Radiation Dose at 25 miles = dose at 10 miles x 0.226

Ratios are applicable to either TEDE or CDE, although CDE Thyroid will normally be the dominant factor.

## **RADIATION PROTECTION COORDINATOR**

### **SUBSEQUENT ACTIONS (Cont'd)**

11. At an Alert if the EOF is not operational, coordinate with the OSC Director to dispatch personnel for radiological and environmental monitoring in accordance with EIP-2-014, Offsite Radiological Monitoring. Even though it is **NOT** required at an Alert emergency classification, it is a good practice to assess radiological conditions near the site boundary to verify whether or not a release has occurred.
12. Upon declaration of a Site Area Emergency or higher, assist the Emergency Director in determining the evacuation egress point and assembly area to be used in the Owner Controlled Area evacuation. Dispatch two Radiation Protection Technicians, as a minimum, to perform monitoring and decontamination (see EIP-2-026).
13. Coordinate with the Security Coordinator on protective actions for security personnel.
14. Monitor for radiological release that may impact evacuees at Assembly Area or personnel at staging area. Inform Emergency Director of need to relocate evacuees or personnel, as necessary.
15. Determine personnel exposure margins. Assist the Emergency Director in authorizing emergency exposure limits in excess of 10 CFR 20 in accordance with EIP-2-012, Radiation Exposure Controls.
16. Advise the Emergency Director on the use of Potassium Iodide (KI) in accordance with EIP-2-012. KI is stored in the decontamination room, second floor services building, Main Control Room, and TSC RP lockers.
17. Assist the Radiation Protection Advisor in obtaining Emergency Director authorization for use of KI by offsite teams.

### **RELOCATION ACTIONS**

If the TSC is relocating:

1. Receive dose assessment turnover from Chemistry/Core Damage Assessment Coordinator and report to CADAP computer in control room to assume those responsibilities as needed. Take laptop dose assessment computer and battery charger located in TSC RP locker.
2. Assume normal RP Coordinator responsibilities in control room to support mitigation activities.

### **DEACTIVATION**

1. When directed by the TSC Manager, deactivate the TSC.
2. Ensure that all documentation is forwarded to the TSC Manager.

## MAINTENANCE SUPPORT COORDINATOR

### ACTIVATION

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

Action Completed  
Initial

1. Obtain the status of work teams dispatched by the Control Room and/or the OSC. \_\_\_\_\_
2. Ensure that the TSC/OSC Video link is operational. \_\_\_\_\_

### SUBSEQUENT ACTIONS

1. Ensure that OSC is placing TSC ventilation in the emergency mode.
2. Ensure that the Engineering Coordinator and TSC Manager are advised on status of repairs and corrective actions in the plant.
3. Ensure initiation of Work Orders and coordinate repair and corrective actions with the OSC Manager.
4. Coordinate work team dispatch by obtaining the work team NAME and PRIORITY from the Emergency Director.
5. Ensure that work teams receive briefings from the Engineering Coordinator or Mechanical/Electrical Engineers as applicable.
6. Post the work team on the TSC/OSC Video link, using the Video link form (Page 2 of this attachment).
7. Track personnel leaving the TSC envelope. Advise the OSC to expect their arrival in that facility and that they should be tracked as a team.

### RELOCATION ACTIONS

If TSC is relocating:

1. Relocate as directed by the TSC Manager.

### DEACTIVATION

1. When directed by the TSC Manager, deactivate the TSC.
2. Ensure that all documentation is forwarded to the TSC Manager.

MAINTENANCE SUPPORT COORDINATOR

(Typical)

Note: All teams must have a priority assigned by the Emergency Director.		
Time: _____		
Priority	Assignment	B = In Briefing O = Out



REACTOR ENGINEER

**ACTIVATION**

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

Action Completed  
Initial

1. Inform the TSC Manager if in the Control Room and estimate your time of arrival in the TSC.

\_\_\_\_\_

**SUBSEQUENT ACTIONS**

**NOTE**

*The Technical Support Guidelines may be used to assess accident conditions.*

1. Along with the Chemistry/Core Damage Assessment Coordinator and Technical Advisor analyze core parameters to determine core conditions. Use COP - 1050, Post Accident Estimation of Fuel Core Damage.
2. Review proposed plant operations and assess the effect on core condition.
3. Develop recommendations on plant operations that would improve or stabilize core conditions.
4. Keep the Chemistry/Core Damage Assessment Coordinator and Technical Advisor informed on core conditions.
5. Report to the Control Room, as necessary, and return to the TSC.

**RELOCATION ACTIONS**

If the TSC is relocating:

1. Transfer to Reactor Engineer workstation in control room and resume functions.

**DEACTIVATION**

1. When directed by the TSC Manager, deactivate the TSC.
2. Ensure that all documentation is forwarded to the TSC Manager.

## ENGINEERING COORDINATOR

### ACTIVATION

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

Action Completed  
Initial

- |    |  |       |
|----|--|-------|
| 1. | Obtain plant status from the Operations Support Coordinator.   | _____ |
| 2. | Ensure that the engineering staff are assembled and prepared to perform their functional responsibilities. | _____ |
| 3. | Contact the Engineering Support Advisor on engineering activities underway.                                | _____ |

### SUBSEQUENT ACTIONS

1. Provide advice on plant repair and corrective actions.

#### NOTE

*The Technical Support Guidelines may be used to assess accident conditions.*

2. Consult with Maintenance Support Coordinator on maintenance operations. Follow up on OSC activities.
3. Provide briefings to the work teams on maintenance operations, as necessary.
4. Direct the activities of the engineering staff.
5. Request EOF engineering assistance as needed.
6. Keep the Engineering Support Advisor and the TSC Manager informed of engineering activities.
7. Assess the need for additional engineering specialists. Make recommendations to the TSC Manager.

### RELOCATION ACTIONS

If TSC is relocating

1. Relocate as directed by the TSC Manager.

### DEACTIVATION

1. When directed by the TSC Manager, deactivate the TSC.
2. Ensure that all documentation is forwarded to the TSC Manager.

## MECHANICAL/ELECTRICAL ENGINEERS

### ACTIVATION

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

Action Completed  
Initial

- |    |   |       |
|----|---|-------|
| 1. | Obtain plant status from the Engineering Coordinator.   | _____ |
| 2. | Ensure that prints and drawings are available. If <u>not</u> , have the Data Facility Coordinator assist in obtaining what is needed. | _____ |
| 3. | Set up the flip chart for tracking engineering activities.  | _____ |
| 4. | Verify engineering computers are functional.  | _____ |
| 5. | Inform the Engineering Coordinator when prepared to perform functional responsibilities.  | _____ |

### SUBSEQUENT ACTIONS

1. Provide advice on plant repair and corrective actions.
2. Consult with the Engineering Coordinator on maintenance operations.
3. Provide repair team briefings as requested.
4. Inform the Maintenance Support Coordinator prior to leaving the TSC to go to the OSC for work team assignments.
5. Track engineering activities on the flip chart for TSC staff information.
6. Keep the Engineering Coordinator informed of activities.

### RELOCATION ACTIONS

If TSC is relocating:

1. Relocate as directed by the TSC Manager.

### DEACTIVATION

1. When directed by the Engineering Coordinator, deactivate the TSC.
2. Ensure that all documentation is forwarded to the Engineering Coordinator.

## OPERATIONS SUPPORT COORDINATOR

### ACTIVATION

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

Action Completed  
Initial

1. Verify ERIS monitor is operational. If power is not available, perform the following:
  - a. Obtain panel key from TSC key box.
  - b. Proceed through door SB123-04 to room #303 (Cable chase room).
  - c. Check breaker panel 1VBN-PNL06.
  - d. If the main breaker and/or other breakers have tripped, switch to the "OFF" position, then switch to the "ON" position.
2. If ERIS monitor is inoperable, obtain plant parameters from the Control Room. \_\_\_\_\_
3. Inform the TSC Manager when prepared to perform functional responsibilities. \_\_\_\_\_

### SUBSEQUENT ACTIONS

1. Establish contact with the TSC/CR Communicator.
2. Identify operators in the field and teams dispatched by the Shift Manager to the Maintenance Support Coordinator.
3. Ensure that the Emergency Director is kept informed of:
  - a. Current plant conditions.
  - b. Actions being performed or anticipated to mitigate the accident.
  - c. Repairs and investigations initiated.

### NOTE

*The Technical Support Guidelines may be used to assess accident conditions.*

4. Follow the EOPs/SAPs and keep the Emergency Director informed on status.
5. Keep the Operations Advisor and the Shift Manager informed of activities.
6. Review emergency classification and recommend upgrading of the emergency in accordance with EIP-2-001, Classification of Emergencies.

**OPERATIONS SUPPORT COORDINATOR**

**RELOCATION ACTIONS**

If TSC is relocating:

1. Relocate to control room to assist Emergency Director as necessary.

**DEACTIVATION**

1. When directed by the TSC Manager, deactivate the TSC.
2. Ensure that all documentation is forwarded to the TSC Manager.

**CHEMISTRY/CORE DAMAGE ASSESSMENT COORDINATOR****ACTIVATION**

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

**Action Completed**  
**Initial**

1. Verify the operability of CADAP. \_\_\_\_\_
2. Verify operability of the offsite/onsite monitoring team radio by contacting the following locations:
  - EOF on the OFF/RAD channel \_\_\_\_\_
  - OSC on the ON/RAD channel \_\_\_\_\_
3. Inform the RP Coordinator when prepared to perform functional responsibilities. \_\_\_\_\_

**SUBSEQUENT ACTIONS****NOTE**

*The Technical Support Guidelines may be used to assess accident conditions.*

1. As necessary, contact the Chemistry Technician in the Control Room to receive a turnover on dose assessment activities. Assume control of dose assessment when directed by the Emergency Director (ED).
2. Check chemistry technician response to the Dialogics callout and current on-shift chemistry technician staffing. Have Administrative Coordinator contact additional technicians as necessary for the following:
  - a. OSC support (2)
  - b. Offsite teams (2)
3. Contact the ARAC or Operations Support Coordinator to determine if any DRMS or meteorological parameters used in dose calculations are in a Limiting Condition for Operation (LCO) and inform the RP Coordinator of any limitations.
4. Perform dose assessment calculations in accordance with EIP-2-024, Offsite Dose Calculations. Provide results to RP Coordinator.
5. Keep RP Coordinator informed of changes in wind direction.
6. Coordinate with Reactor Engineer in analyzing core parameters. To determine core conditions, use COP - 1050, Post Accident Estimate of Fuel Core Damage. Provide information to the TSC Manager and Technical Advisor.

**CHEMISTRY/CORE DAMAGE ASSESSMENT COORDINATOR****SUBSEQUENT ACTIONS (cont'd)**

7. Verify operability of backup CADAP computer stored in the TSC RP locker.  
Place the lap top computer battery on charge.
8. Recommend the collection of samples using Chemistry Operating Procedures as necessary.
9. Develop and implement methods to process liquid and gaseous radioactive waste accumulated during the emergency.

**RELOCATION ACTIONS**

If the TSC is relocating:

1. Provide dose assessment turnover to RP Coordinator and relocate as directed by the TSC Manager.

**DEACTIVATION**

1. When directed by the TSC Manager, deactivate the TSC.
2. Ensure that all documentation is forwarded to the TSC Manager.

## SECURITY COORDINATOR

### ACTIVATION

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

Action Completed  
Initial

- |    |  |       |
|----|--|-------|
| 1. | Notify the alarm station(s) of presence in TSC.  | _____ |
| 2. | Ensure that the lock plates of TSC doors SB123-03 and SB123-01 are flipped and the doors are locked and signs posted. Activate card reader on door SB123-12. Ensure that TSC personnel have carded in on the accountability card reader. | _____ |
| 3. | If card reader is inoperable, prepare manual list of personnel and maintain accountability.  | _____ |
| 4. | Obtain from Security Alarm Station compensation positions and locations.   | _____ |
| 5. | Verify that the OSC card reader is activated. If inoperable, ensure that the OSC Manager maintains a manual list of personnel.   | _____ |
| 6. | Verify that the Control Room card reader is activated. If inoperable, ensure that the Shift Manager maintains a manual list of personnel.  | _____ |

### SUBSEQUENT ACTIONS

#### NOTE:

*Prior to a formal OCA evacuation, the Emergency Director may direct Security to notify members of the public known to be in the OCA to evacuate River Bend property. Security may make this notification using any communications method (i.e., telephone, direct contact, etc.).*

1. Begin preparations for possible Owner Controlled Area evacuation. Contact local law enforcement to determine any impediments to routes leaving the site (e.g. bridges out, toxic releases, etc.) Inform Emergency Director as needed.
2. Inform TSC Manager if leaving the facility.
3. Obtain alpha listing report for Administrative Coordinator.
4. Ensure that Security Shift Supervisor is advised periodically on plant emergency.
5. Coordinate with the Radiation Protection Coordinator the necessary actions to protect security personnel.
  - a. Monitor wind direction in relation to security positions.



## SECURITY COORDINATOR

### SUBSEQUENT ACTIONS (cont'd)

- b. Keep the alarm stations informed of any changes in plant conditions which could present a hazard to security personnel or cause an increase in radiological conditions.
  - c. Coordinate with the RP Coordinator the exposure limits of security personnel. Coordinate with the Security Shift Supervisor the reading of dosimetry by security personnel and take compensatory actions as appropriate.
  - d. Ensure that alarm stations maintain accountability of the security force.
- 6. At a Site Area Emergency or higher, perform evacuation and accountability in accordance with EIP-2-026.
  - 7. Keep the Emergency Director and TSC Manager informed of any security contingency events and actions in progress. Coordinate with them any ERO actions requested by the Security Shift Supervisor (ie. Evacuation requests, shelter requests, bomb search actions).
  - 8. Notify the Security Shift Supervisor of vehicles needing entry into the Protected Area.

### RELOCATION ACTIONS

- 1. Relocate as directed by the TSC Manager.

### DEACTIVATION

- 1. When directed by the TSC Manager, deactivate the TSC.
- 2. Inform the Security Shift Supervisor of the TSC deactivation.
- 3. Ensure that all documentation is forwarded to the TSC Manager.

**TSC HABITABILITY TECHNICIAN**

**ACTIVATION**

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

**Action Completed**  
**Initial**

1. Perform operational checks on monitoring equipment prior to use. \_\_\_\_\_
2. Perform radiation and airborne radioactivity surveys in accordance with RPP-0006, Radiological Monitoring or applicable attachment of EIP-2-014, Offsite Radiological Monitoring to ensure that the TSC is habitable. Report survey results to the Radiation Protection Coordinator. \_\_\_\_\_
3. Inform the RP Coordinator when prepared to perform functional responsibilities. \_\_\_\_\_

**SUBSEQUENT ACTIONS**

1. When directed by RP Coordinator, distribute pocket dosimeters and TLDs. Document on page 3 of this attachment.
2. Establish a contamination control point outside of door SB123-19, as directed. If needed, coordinate with OSC Habitability Technician the establishment of a clean path between TSC and OSC.
3. If personnel entering the TSC are contaminated, notify the RP Coordinator and arrange for decontamination by the OSC.
4. Perform periodic surveys of the TSC.
5. Keep the RP Coordinator informed of all activities.

**RELOCATION ACTIONS**

If the TSC is relocating:

1. Relocate to the control room when directed by the TSC Manager. Upon arrival resume habitability assessment and provide team coverage if necessary. Utilize supplies located in the Emergency Planning locker located in the control room.

**DEACTIVATION**

1. When directed by the RP Coordinator, deactivate the TSC.
2. Ensure that all dosimeters and TLDs that were distributed are collected.

**TSC HABITABILITY TECHNICIAN**

**DEACTIVATION** (cont'd)

3. Ensure that all monitoring instrumentation is stored and operable. Report problems to the RP Coordinator.
4. Ensure that all documentation is forwarded to the RP Coordinator.

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

[illegible]

**DATA FACILITY COORDINATOR**

**ACTIVATION**

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

**Action Completed**  
**Initial**

1. Verify availability of TSC drawings. If necessary, obtain drawings from the GSB Library, 2<sup>nd</sup> floor, or electronically from the EOI Reference Library. \_\_\_\_\_
2. Develop a list of non-functional administrative equipment and present to Administrative Coordinator. \_\_\_\_\_
3. Inform the Administrative Coordinator when prepared to perform functional responsibilities. \_\_\_\_\_

**SUBSEQUENT ACTIONS**

1. Obtain reference materials as requested.
2. Assist the Administrative Coordinator, as necessary.
3. Provide document support for the OSC, as necessary.

**RELOCATION ACTIONS**

If the TSC is relocating:

1. Relocate as directed by the TSC Manager.

**DEACTIVATION**

1. When directed by the TSC Manager, deactivate the TSC.
2. If necessary, ensure that all drawings are returned to the the GSB Library.
3. Ensure that all reference materials are returned to the appropriate storage location.
4. Ensure that all documentation is forwarded to the TSC Manager.

## STATUS COMMUNICATOR

### ACTIVATION

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

Action Completed  
Initial .

1. Ensure that the headset is operable. \_\_\_\_\_
2. Update status boards with current information from ERIS data sheets, Notification Message Forms, and headset circuit. \_\_\_\_\_
2. Have Administrative Coordinator call out another Status Communicator, if needed. \_\_\_\_\_

### SUBSEQUENT ACTIONS

1. Continually update all status boards with current information from ERIS, Notification Message Forms, and information obtained over the headset or from the Operations Support Coordinator or Maintenance Support Coordinator.
2. Ensure that the Operations Support Coordinator and TSC Manager periodically verify the accuracy of status board information.

### RELOCATION ACTIONS

If the TSC is relocating:

1. Relocate as directed by the TSC Manager.

### DEACTIVATION

1. When directed by the TSC Manager, deactivate the TSC.
2. Ensure that all documentation is forwarded to the TSC Manager.

## ENS COMMUNICATOR

### ACTIVATION

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

Action Completed  
Initial

1. Proceed to the Control Room and relieve the TSC/Control Room Communicator or Control Room Communicator of the NRC notification duties. \_\_\_\_\_
2. Inform the TSC Manager that you are in the Control Room. \_\_\_\_\_
3. When the TSC becomes operational, inform the NRC that you are relocating duties to the TSC. Report to the TSC. \_\_\_\_\_

### SUBSEQUENT ACTIONS

1. Communicate plant status as requested. Keep the NRC informed of the following:
  - a. Degradation in the level of safety in the plant or worsening plant conditions.
  - b. Results of ensuing evaluations or assessments of plant conditions.
  - c. Effectiveness of response or protective measures taken.
  - d. Information related to plant behavior that is not understood.
  - e. Changes in classifications or Protective Action Recommendations (PARs).
2. When the NRC requests, have the HPN Communicator establish contact with the NRC.
3. If in doubt about information, check with Operations Support Coordinator and TSC Manager on accuracy of your information prior to passing it on to the NRC.
4. Upon termination of the emergency, notify the NRC.

### RELOCATION ACTIONS

If TSC is relocating:

1. Report to the Communicator's desk in the control room to resume ENS duties.

### DEACTIVATION

1. When directed by the TSC Manager, deactivate the TSC.
2. Inform the NRC and obtain concurrence to deactivate ENS duties.
3. Ensure that all documentation is forwarded to the TSC Manager.

## ADMINISTRATIVE SUPPORT

### ACTIVATION

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

Action Completed  
Initial

1. Test the operability of administrative equipment which includes but is not limited to:
  - copier \_\_\_\_\_
  - fax \_\_\_\_\_
  - ERIS laser printer \_\_\_\_\_
  - Electronic document printer \_\_\_\_\_
2. Obtain all previous Notification Message Forms. Copy and distribute to TSC staff. \_\_\_\_\_
3. Assist the TSC staff in facility activation. \_\_\_\_\_
4. Inform the Administrative Coordinator when prepared to perform functional responsibilities. \_\_\_\_\_

### SUBSEQUENT ACTIONS

1. Continuously retrieve, copy and distribute ERIS data (as necessary), and Notification Message Forms.
2. Bring or fax information to the OSC as necessary.
3. Retrieve drawings, procedures, and documents.
4. Provide clerical support as directed by the Administrative Coordinator.

### RELOCATION ACTIONS

If TSC is relocating:

1. Relocate as directed by the TSC Manager.

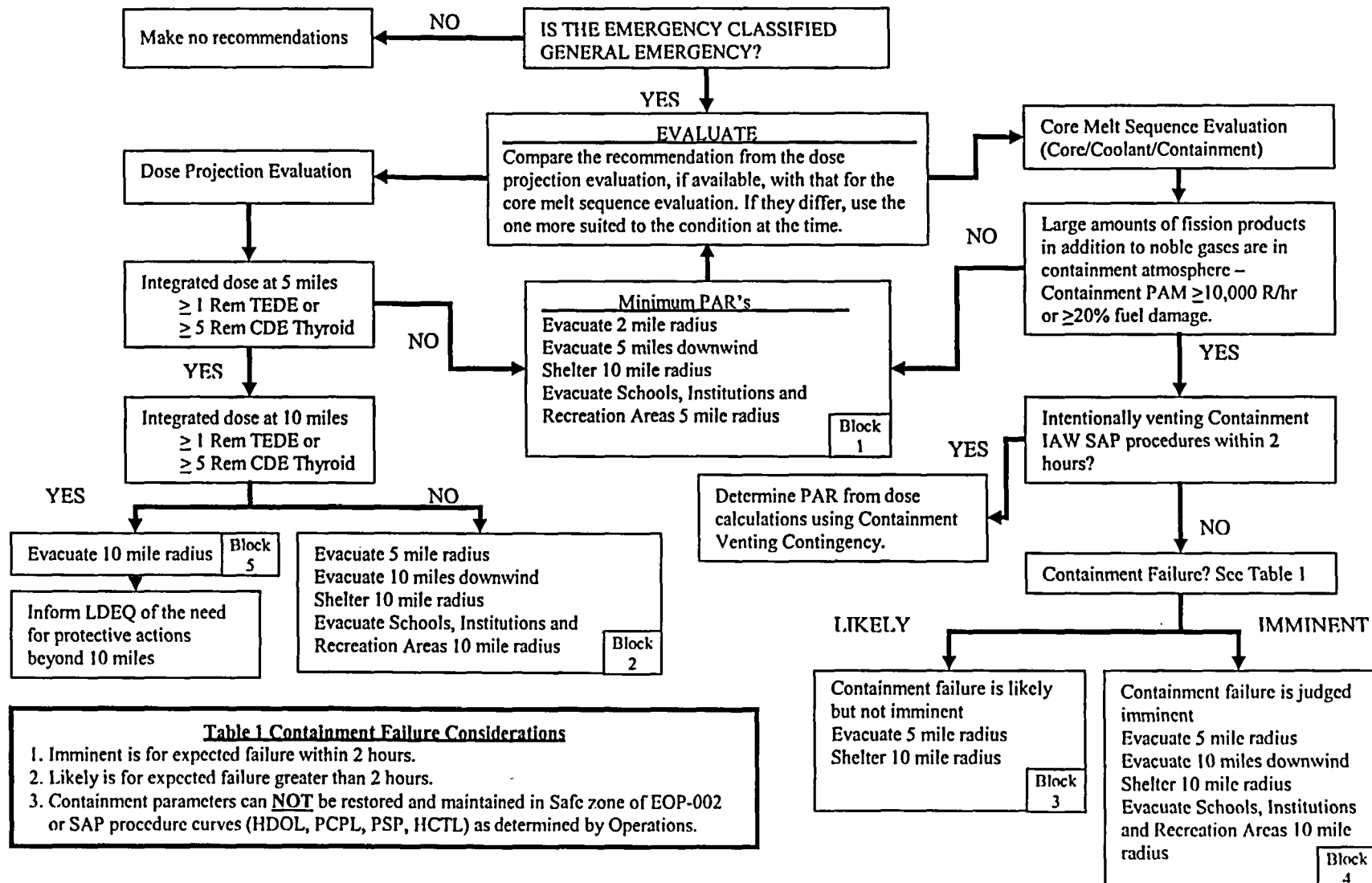
### DEACTIVATION

1. When directed by the Administrative Coordinator, deactivate the TSC.
2. Ensure that all procedures, drawings, reference materials and equipment are stored in the appropriate location and condition.
3. Ensure that all documentation is forwarded to the TSC Manager.



# PROTECTIVE ACTION RECOMMENDATIONS (PARS)

## PAR FLOW CHART



**PROTECTIVE ACTION RECOMMENDATIONS (PARS)****BLOCK 1****PROTECTIVE ACTION FLOWCHART**

EVACUATE 2 MILE RADIUS AND EVACUATE 5 MILES DOWNWIND AND SHELTER THE 10 MILE RADIUS AND EVACUATE SCHOOLS, INSTITUTIONS, RECREATION AREAS 5 MILE RADIUS.

Locate the wind direction to find the appropriate scenario number to use.

<b>DEGREES FROM</b>	<b>SCENARIO NUMBER</b>	<b>CENTERLINE SECTOR</b>	<b>SIDE SECTOR</b>
168.76-191.25	1	A	R & B
191.26-213.75	1	B	A & C
213.76-236.25	2	C	B & D
236.26-258.75	3	D	C & E
258.76-281.25	4	E	D & F
281.26-303.75	4	F	E & G
303.76-326.25	5	G	F & H
326.26-348.75	5	H	G & J
348.76-11.25	6	J	H & K
11.26-33.75	7	K	J & L
33.76-56.25	8	L	K & M
56.26-78.75	8	M	L & N
78.76-101.25	9	N	M & P
101.26-123.75	10	P	N & Q
123.76-146.25	10	Q	P & R
146.26-168.75	11	R	Q & A

**BLOCK 3****PROTECTIVE ACTION FLOWCHART**

EVACUATE 5 MILE RADIUS AND SHELTER THE 10 MILE RADIUS.

<b>DEGREES FROM</b>	<b>SCENARIO NUMBER</b>	<b>CENTERLINE SECTOR</b>	<b>SIDE SECTORS</b>
ANY	12	ALL	ALL

**PROTECTIVE ACTION RECOMMENDATIONS (PARS)****BLOCK 2 OR 4****PROTECTIVE ACTION FLOWCHART**

EVACUATE 5 MILE RADIUS AND EVACUATE 10 MILES DOWNWIND AND SHELTER THE 10 MILE RADIUS AND EVACUATE SCHOOLS, INSTITUTIONS, RECREATION AREAS 10 MILE RADIUS.

Locate the wind direction to find the appropriate scenario number to use.

DEGREES FROM	SCENARIO NUMBER	CENTERLINE SECTOR	SIDE SECTOR
168.76-191.25	13	A	R & B
191.26-213.75	14	B	A & C
213.76-236.25	15	C	B & D
236.26-258.75	15	D	C & E
258.76-281.25	16	E	D & F
281.26-303.75	17	F	E & G
303.76-326.25	18	G	F & H
326.26-348.75	19	H	G & J
348.76-11.25	20	J	H & K
11.26-33.75	21	K	J & L
33.76-56.25	22	L	K & M
56.26-78.75	23	M	L & N
78.76-101.25	24	N	M & P
101.26-123.75	25	P	N & Q
123.76-148.25	25	Q	P & R
148.26-168.75	26	R	Q & A

**BLOCK 5****PROTECTIVE ACTION FLOWCHART****EVACUATE 10 MILE RADIUS**

DEGREES FROM	SCENARIO NUMBER	CENTERLINE SECTOR	SIDE SECTOR
ANY	27	ALL	ALL

**(Typical)**

Name: \_\_\_\_\_

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

Position: \_\_\_\_\_

Page \_\_\_\_ of \_\_\_\_

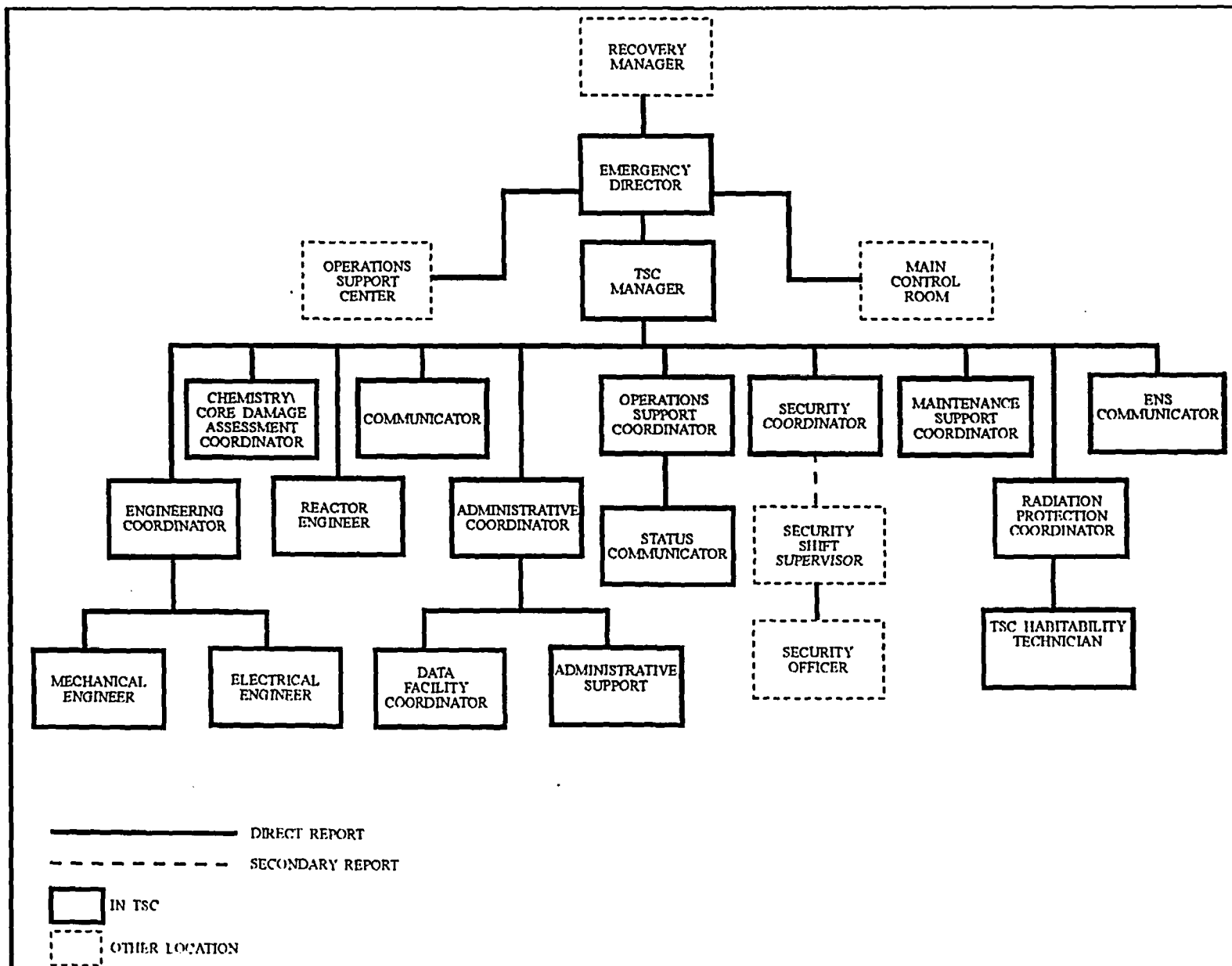
TIME

### ACTIVITY

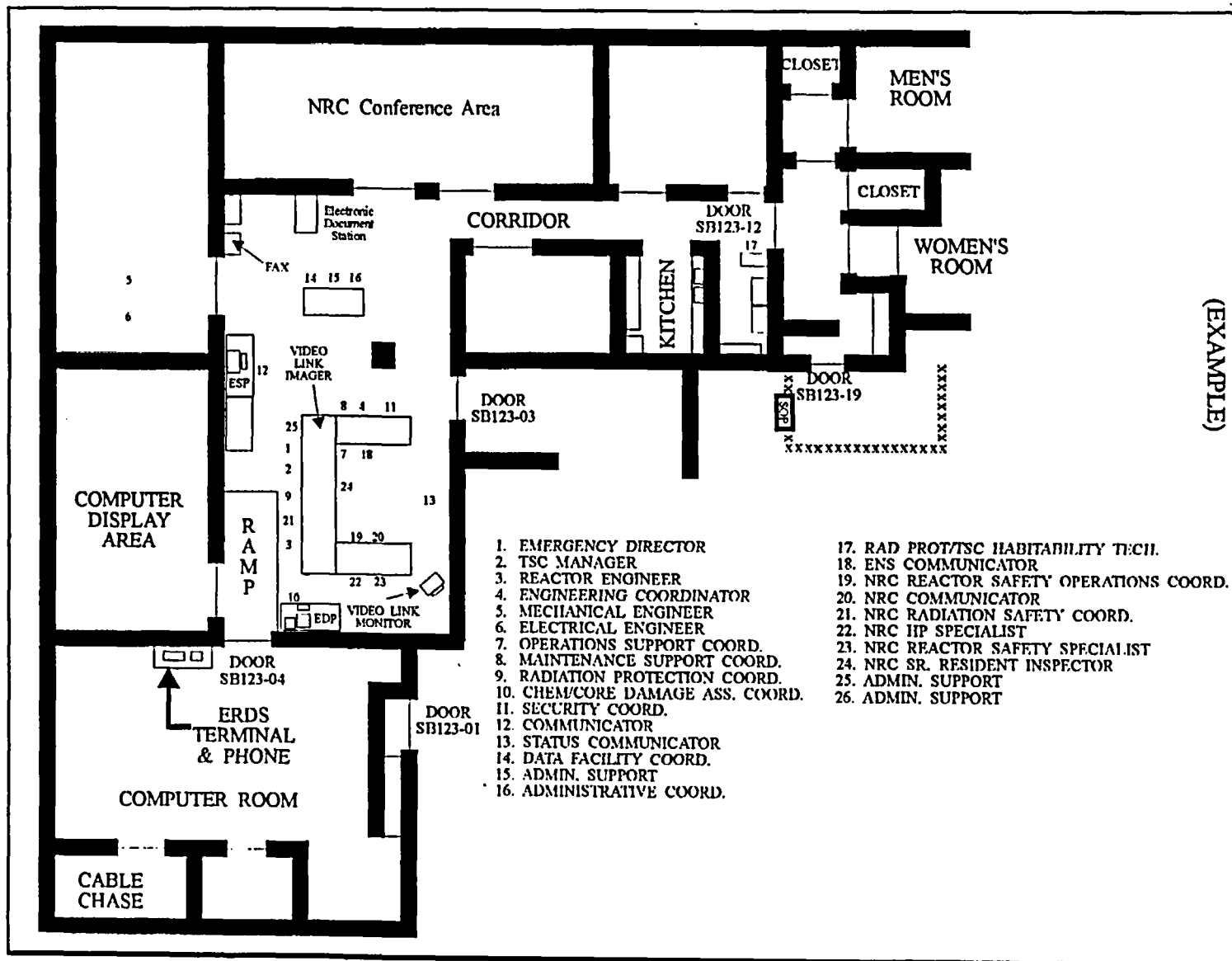
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# TECHNICAL SUPPORT CENTER ORGANIZATION CHART

PR00007M.CDR



# TECHNICAL SUPPORT CENTER FLOOR PLAN



PR00002M.CDR

**TSC STAFF TO EOF RELOCATION GUIDELINES****NOTE**

*Unforeseen factors may arise which make predetermined actions ineffective or impractical in certain circumstances. In these instances, the Emergency Director may use his discretion in taking alternate courses of action based on available information.*

Situations may arise where personnel responding to an emergency will not be able to access the emergency response facilities in the protected area (e.g. terrorist event). In these situations, TSC personnel should man the Emergency Operations Facility located in the Training Center, while Operations Support Center personnel should be staged in the Training Center classrooms. EOF personnel will report to the Alternate EOF in Baton Rouge to assume their duties as per EIP-2-022 and Joint Information Center personnel should be directed to the Alternate JIC in Baton Rouge.

Arriving TSC personnel should be directed to man the chairs normally occupied by their EOF counterparts as per the EOF floor plan contained in EIP-2-020. Personnel should be directed to carry out the applicable steps of EIP-2-018 with the following exceptions:

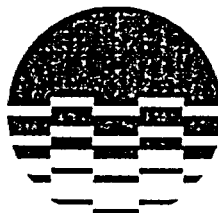
1. Reactor Engineer – locates to the dose assessment room. Monitors ERIS and DRMS and assists in core damage assessment as appropriate.
2. Security Coordinator – if a security incident, locates to the chair of the Technical Advisor and coordinates law enforcement response with plant security. Establishes controls for access to EOF. Maintains EOF accountability. Coordinates with Security Shift Supervisor responses of teams to the site.
3. Maintenance Coordinator – locates to Events Information Team chair and coordinates activities with OSC personnel and Security Coordinator. The Maintenance Coordinator should refer to the Attachment 11 of EIP-2-020 for guidance on placing the EOF ventilation in the emergency mode.
4. Operations Support Coordinator and Radiation Protection Coordinator should refer to Attachments 6 and 10 of EIP-2-020 for breaker locations for ERIS and DRMS should they not be operable.

As soon as possible, communications should be established with the Recovery Manager/Emergency Director (OSM) and a transfer made of offsite notifications and dose assessment. These responsibilities should then be transferred to the Alternate EOF upon that facility becoming operational.

Any offsite agencies whose assistance is needed should be incorporated into the site response as per established plans.

REFERENCE USE

\*P13.01



**ENTERGY**

**RIVER BEND STATION  
STATION SUPPORT MANUAL  
\*EMERGENCY IMPLEMENTING PROCEDURE**

---

***\*RADIATION EXPOSURE CONTROLS***

**PROCEDURE NUMBER:** **\*EIP-2-012**

**REVISION NUMBER:** **\*18**

**Effective Date:** **\* 04/05/04**

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**NOTE : SIGNATURES ARE ON FILE.**

**TemRev 1 AddCounter 12 Att Enc DS MSet REGULAR KWN OFF**

**\*INDEXING INFORMATION**



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## 1 **PURPOSE**

This procedure provides instructions for establishing special radiation exposure controls during an emergency.

## 2 **REFERENCES**

- 2.1 Title 10, Code of Federal Regulations, Part 20, (10 CFR 20) "Standards for Protection Against Radiation"
- 2.2 RBNP-024, River Bend Station Radiation Protection Plan
- 2.3 Company Procedure RP-205, Prenatal Monitoring
- 2.4 NCRP Report No. 55, Protection of the Thyroid Gland in the Event of Releases of Radioiodine
- 2.5 Company Procedure RP-202, Personnel Monitoring

## 3 **DEFINITIONS**

- 3.1 Committed Dose Equivalent (CDE) - The dose equivalent to organs or tissues of reference that will be received from an intake of radioactive material during the 50 year period following the intake.
- 3.2 Total Effective Dose Equivalent (TEDE) - The sum of the Deep Dose Equivalent (DDE) (from external exposure) and the Committed Effective Dose Equivalent (CEDE) (from internal exposure).

## 4 **RESPONSIBILITIES**

- 4.1 Emergency Director (ED)- The ED is responsible for authorizing individuals to receive exposures in excess of 10 CFR 20 limits and approving the issuance of potassium iodide (KI).

- 4.2 Radiation Protection Coordinator (RPC) - The RPC is responsible for advising the ED, tracking the dose history for those individuals authorized to receive exposures in excess of 10 CFR 20 limits, and notifying the Nuclear Regulatory Commission of any overexposures.
- 4.3 Senior Radiation Protection Technician (SRPT) - The SRPT is responsible for performing the duties of the RPC per this procedure until his arrival at the Technical Support Center.

## 5 GENERAL

- 5.1 During a classified emergency, the administrative exposure controls of the River Bend Station Radiation Protection Plan RBNP-024 and RP-202, Personnel Monitoring, are suspended; however, efforts shall be made to maintain personnel exposures within the limits established by 10 CFR 20.
- 5.2 Due to rapidly changing conditions during an emergency, administrative approvals for exceeding established exposure limits are suspended. Only the ED shall have the authority for authorizing exposures in excess of 10 CFR 20 limits (included as Attachment 1 for reference).
- 5.3 During the emergency phase of an accident, the Radiation Work Permit (RWP) provisions of the River Bend Radiation Protection Plan are suspended, but shall be re-implemented at the termination of an emergency when the recovery phase is initiated.
- 5.4 Potassium Iodide (KI) (thyroid blocking agent) is available in the Control Room, Technical Support Center, Decontamination Room (Second Floor of the Services Building), Emergency Operations Facility (EOF) and the Offsite Monitoring Team Emergency Kits.
- 5.5 A declared pregnant female shall not be assigned any functions during a declared emergency which may cause her to exceed the dose limits of 10CFR20.1208 (See Attachment 1); however, a female who declares herself pregnant after an emergency is declared will be expected to continue to fulfill her assignment until a qualified relief can be found. In this case every effort will be made to limit the female's TEDE to the limits specified in Attachment 1, consistent with the needs of the Emergency Response Organization.

- 5.6 Responsibility for authorizing federal, state, and local emergency workers (Ex. EMS, fire, law enforcement, National Guard, etc.) responding to RBS to incur exposures in excess of the EPA Protective Action Guides for the general population rests with the unit of government for whom the emergency worker is employed. This also applies to the issuance of potassium iodide (KI). LDEQ is the State of Louisiana's lead agency on radiological matters to include technical assessment and emergency worker's protection during events at nuclear power plants.

## 6 PROCEDURE

### NOTE

*The actions of this procedure may be completed in any sequence, however, the sequence presented is recommended.*

### NOTE

*During a declared emergency, the exposure limits for federal, state, and local emergency workers responding to RBS are the EPA Protective Action Guides. The responsibility for authorizing extensions above these limits or issuing KI to these emergency workers resides with the respective federal, state, or local governmental agency for which the emergency worker is employed.*

- 6.1 The ED should:
- 6.1.1. Use 10CFR20 exposure limits contained in Attachment 1. These limits apply to all members of the Emergency Response Organization, whether or not every person has completed Radiation Worker Training.
  - 6.1.2. When assigning members of the emergency organization to perform tasks which may result in exposures in excess of the 10 CFR 20 limits (see Attachment 1, Section A):

1. Consult with the RPC to determine the person's current exposure history to verify the amount of exposure the individual may receive without exceeding the 10 CFR 20 limit.
2. Authorize each individual a maximum exposure limit, not to exceed the limits in Attachment 1, Section B.

**NOTE**

*The Emergency Director shall initiate a log for the documentation of emergency information. The Operations Shift Manager shall use the Control Room log.*

3. Document the authorization of each individual in the ED's log.
  4. In accordance with the Entergy Operations Inc. policy concerning exposures to females who may be pregnant, no female who suspects she is pregnant should be assigned any responsibilities during an emergency which could result in exposures in excess of the 10 CFR 20 limits.
- 6.1.3. Ensure that any individual believed to have received greater than 25 rem (250 mSv) TEDE is promptly relieved from the Emergency Response Organization.

**NOTE**

*SCBA's and other masks do not preclude the consideration of the dissemination of KI.*

- 6.1.4. Authorize the use of KI, as necessary.
- 6.2 The RPC should:
- 6.2.1. Ensure that current exposure margins are readily available for the emergency organization.
  - 6.2.2. When time permits, consult with the ED on the methods available to prevent excessive exposures during the emergency.

**NOTE**

*SCBA's and other masks do not preclude the consideration of the dissemination of KI.*

- 6.2.3. Consult with the ED regarding the use of KI by emergency response personnel involved in actions to save a life of another individual, mitigate accident consequences, or prevent major releases of radioactivity to the environment I.A.W. Section 6.4
- 6.2.4. Inform emergency workers who are authorized emergency exposure in excess of 10 CFR 20 limits regarding the relative risks involved with excessive radiation exposure.
- 6.2.5. Determine the need to process emergency worker TLDs.
- 6.2.6. Initiate efforts to obtain a medical evaluation of any individual who receives greater than 25 rem (250 mSv) TEDE, during emergency operations by a physician who is familiar with acute effects of radiation exposure. These individuals shall not be subjected to any further radiation exposure until approved by the Radiation Protection Manager and the General Manager of Plant Operations.

**NOTE**

*The following notification will be made in accordance with the reporting requirements of 10 CFR 20.2202 and 20.2203.*

- 6.2.7. As soon as practical during an emergency, make oral reports of radiation overexposures to the Nuclear Regulatory Commission followed by a written report. Written reports should be provided within 30 days as provided by 10 CFR 20.2203 except when the emergency continues for more than 30 days, then the written report shall be provided within 24 hours after termination of the emergency.

- 6.2.8. Ensure that TEDE dose received during an emergency is recorded on each individual's dose history file. All occupational doses, including emergency doses, are required to be included as part of an individual's accumulated dose history and can affect the individual's allowable exposure during the current and subsequent years.
- 6.2.9. Ensure that declared pregnant females do not exceed the dose limits specified in Attachment 1, and that radiation doses to females, who declare themselves pregnant after the declaration of an emergency, are limited to the extent practical to the limits specified in Attachment 1, consistent with the needs of the Emergency Response Organization.

6.3 The SRPT should:

- 6.3.1. Assume duties of the RPC per this procedure until position is filled.
- 6.3.2. Assist in evaluating radiation exposure levels likely to be encountered during emergency operations.

### **NOTE**

*Completion of Attachment 3 is not required unless a worker's thyroid CDE is expected to be  $\geq 25$  Rem. Attachment 2 may be used as a reference without completion of Attachment 3.*

#### **6.4 Administration of Iodine Blocking Agents.**

##### **6.4.1. Assessing the Need to Issue KI**

1. If there is a potential need to issue KI, potential recipients of KI may fill out their portion of Attachment 3 in advance.
2. If a worker's thyroid CDE is expected to approach 25 Rem, obtain a copy of Attachment 2, Thyroid Committed Dose Equivalent Graph, and estimate the dose commitment for the thyroid.
3. Verify your calculations/measurements/estimates and record the results on Attachment 3, Potassium Iodide Administration Form.
4. Report the results to the ED and advise him as to the need to issue KI in accordance with this procedure.
5. The Emergency Director may approve the issuance of KI via telecon/radio.

##### **6.4.2. KI Issuance Requirements**

1. When thyroid CDE is estimated to be 25 rem or greater the following are required:
  - The ED shall designate the individuals who will receive KI.
  - The individual to receive KI shall voluntarily elect to take KI.
  - The individual to receive KI shall read Potassium Iodide precaution information provided by the drug company. The individual shall then complete the appropriate sections of Attachment 3 - Potassium Iodide Administration Form.



6.4.3. Distribution of KI

**NOTE**

*KI is stored in the following locations: Control Room, Technical Support Center, Decontamination Room (second floor of the Services Building), Emergency Operations Facility and Offsite Monitoring Team Emergency Kits.*

1. Assemble the individuals who were designated to receive KI and the individuals to administer the KI.
2. Provide the individuals designated to receive KI with copies of:
  - 1) Potassium Iodide precaution information provided by the drug company.
  - 2) Attachment 3 – Potassium Iodide (KI) Administration Form
3. Ensure personnel read and/or complete the appropriate sections of the above.

#### 6.4.4. Guidelines for the Administration of KI

##### **NOTE**

*The Emergency Director can authorize the administration of KI in the field after the Field Monitoring Team members have complied with the guidelines of this procedure. Completion of the KI documentation may be accomplished at the convenience of the Emergency Director.*

1. If possible, KI should be administered approximately one-half hour before exposure for maximum blockage.
2. Final uptake is halved if KI is administered within 3-4 hours after exposure.
3. Little benefit is gained with KI administration 10-12 hours after exposure.
4. Once the KI is taken and the Iodine concentration is verified or the calculated dose determined, the tablets should be issued for a minimum of six (6) to a maximum of ten (10) consecutive days. One tablet is issued each day.
5. Verify that each individual receiving KI has completed and signed Attachment 3.
6. Verify that there are no "YES" blocks marked for allergies or iodine sensitivity on Attachment 3, Potassium Iodide Administration Form.
7. Individuals who have answered "YES" for allergies or iodine sensitivity to those questions on Attachment 3, will initially be considered to be iodine sensitive and must be treated as follows:
  - 1) The individuals will be relocated or replaced to eliminate or minimize the uptake of radioiodine in the thyroid gland, or
  - 2) The individuals WILL NOT receive KI without the Radiation Protection Coordinator's authorization (after evaluation of the "YES" answer and the Emergency Director's concurrence).

8. Issue each individual designated to receive KI one (1) 130 mg KI tablet.
9. Forward all completed paperwork to the Radiation Protection Coordinator.

6.4.5. Final Conditions

1. Ensure that each individual whose estimated exposure to radioiodine exceeded 25 rem has been identified and administered KI, as appropriate.
2. Ensure all necessary forms are completed and reviewed by the Radiation Protection Coordinator and the Emergency Director.
3. Ensure that each individual who was exposed to radioiodine with a calculated thyroid CDE  $\geq 25$  Rem has been scheduled for bioassay analysis.

7 **DOCUMENTATION**

- 7.1 Attachment 3 of this procedure, completed during actual events shall be submitted to permanent plant files (PPF) per EPP-2-100. Attachments from exercises/drills will be used to critique and evaluate exercises/drills performance. This documentation will not be sent to PPF and may be discarded.

## RADIATION EXPOSURE LIMITS AND GUIDELINES

### A. 10CFR20 RADIATION EXPOSURE LIMITS

- 5 rem/yr. (50 mSv/yr.) Total Effective Dose Equivalent (TEDE) to the whole body.
- 50 rem/yr. (500 mSv/yr.) sum of the Deep Dose Equivalent (DDE) and the Committed Dose Equivalent (CDE) to an individual organ or tissue other than the lens of the eye.
- 15 rem/yr. (150 mSv/yr.) Eye Dose Equivalent (LDE) to the eye.
- 50 rem/yr. (500 mSv/yr.) Shallow Dose Equivalent (SDE) to the skin or an extremity.
- 50 mrem (0.5 mSv) in a one month period for a declared pregnant female, not to exceed 500 mrem (5 mSv) for the entire pregnancy period (10CFR20.1208).

### B. GUIDELINES FOR EMERGENCY EXPOSURES

1. Emergency Total Effective Dose Equivalent (TEDE) limits are:
  - a. 5 rem (50 mSv) for preplanned emergency actions.
  - b. 10 rem (100 mSv) for immediate actions taken to prevent major damage to equipment, prevent the release of radioactive materials, or control fires.
  - c. 25 rem (250 mSv) without consent and 75 rem (750 mSv) on a voluntary basis for action to save a life or to protect large populations.
2. Committed Dose Equivalent to the Thyroid

#### NOTE

*Although RBS Emergency Plan Table 13.3-10 establishes thyroid exposure guidelines, the difficulty in monitoring thyroid exposure over a short period of time prevents use of these numbers as absolute limits. Therefore, when radioiodine airborne concentrations are known, projected thyroid doses will be calculated to prevent exceeding these guidelines.*

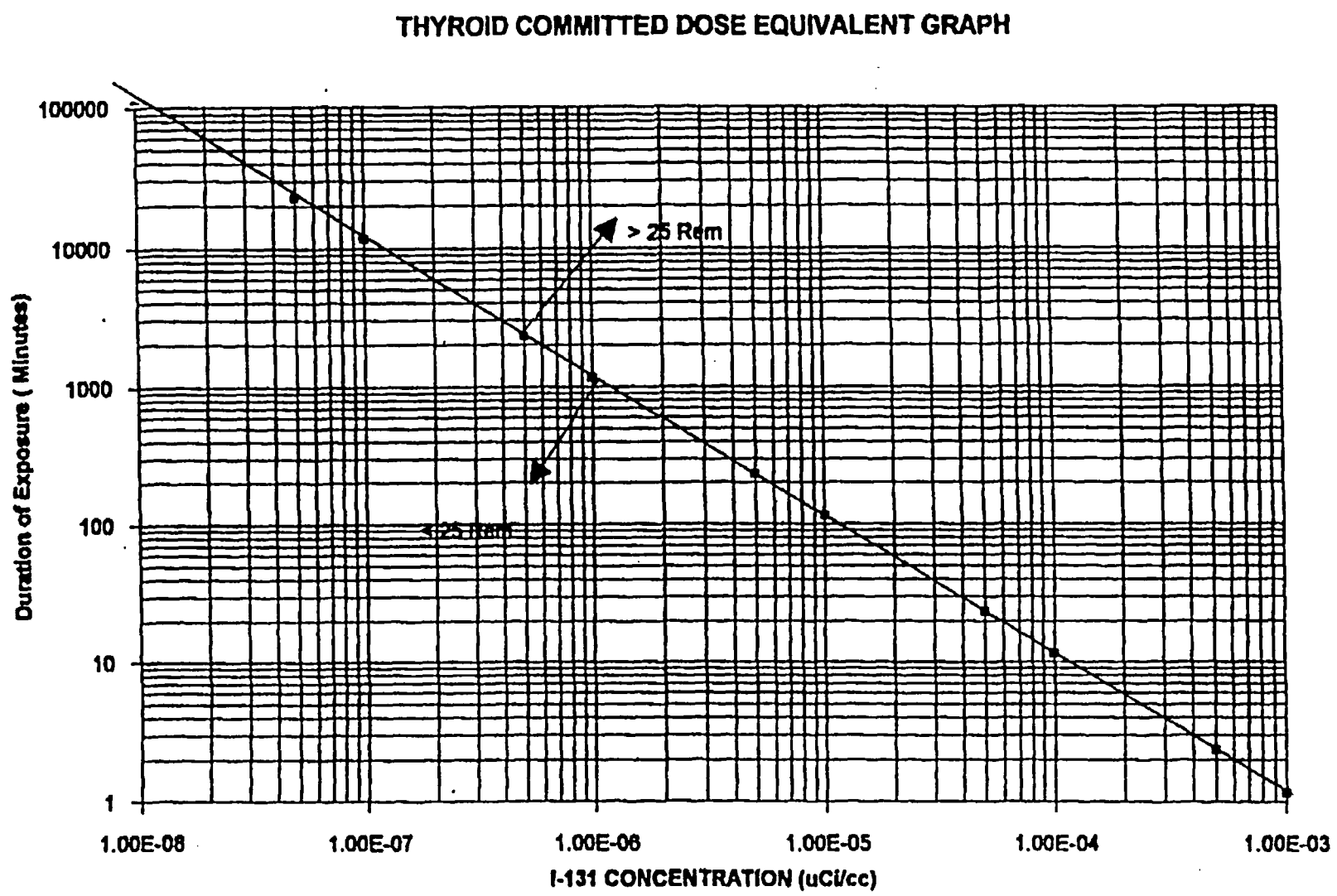
- a. To save the life of another individual there is no specified limit. Although respirators should be used where effective to control the dose to emergency workers, thyroid dose should not be a limiting factor for lifesaving missions.
  - b. To mitigate accident consequences and prevent major releases of radioactivity to the environment or control fires- 100 rem (1 Sv) Committed Dose Equivalent (CDE).
  - c. Emergency duties including decontamination and first aid, but not related to protecting equipment, the public or for lifesaving - 50 rem (500 mSv) CDE.
3. Shallow Dose Equivalent to the Extremities
    - a. To save the life of another individual, extremity exposure should not be a factor.
    - b. To mitigate accident consequences and prevent major release of radioactivity to the environment - 100 rem (1 Sv) Shallow Dose Equivalent (SDE).
    - c. When preplanned emergency actions are possible -50 rem (500 mSv) SDE.

## THYROID COMMITTED DOSE EQUIVALENT GRAPH

### Instructions for Use:

1. Determine the estimated or actual I-131 airborne concentration in the area(s) of interest. Divide this by the protection factor of the equipment used (if unknown, use 1). Locate this number on the Horizontal Axis.
2. Locate the duration of exposure in minutes on the Vertical Axis. Find the point at which this value intersects with the number from step 1.
3. If this point of intersection is located to the left (below) the line, the thyroid CDE is less than 25 rem.
4. If this point of intersection is located to the right (above) the line, the thyroid CDE is greater than 25 rem.
5. If this point of intersection is located on the line, the thyroid CDE is 25 rem.

THYROID COMMITTED DOSE EQUIVALENT GRAPH



POTASSIUM IODIDE (KI) ADMINISTRATION FORM

Name: \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Last First Middle SSN

Yes No Have you any known allergies? If so, please describe major severity of allergy and medications taken if any.

Yes No When eating seafood or shellfish, do you suffer from symptoms of stomach or bowel upset or skin eruption? If so, explain.

Yes No Has any physician told you that you have a sensitivity to iodine?

Yes No If you have ever had a gallbladder dye test, kidney x-ray requiring dye injection, thyroid isotope scan, did you have any reactions?

Please explain any Yes answers: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\* Known Iodide Allergy/Previous Allergic Reaction: (Mark One) ☐ Yes ☐ No

I verify that I have read and understand the precaution leaflet. I understand that taking thyroid blocking agent (KI) is strictly voluntary.

I (Mark One) ☐ Do ☐ Do Not choose to take KI when approved.

\_\_\_\_\_  
Signature of Individual Date

Duration of Exposure: _____ (minutes)	I-131 Concentration: _____ (μCi/cc in air)
Estimated Thyroid Dose Commitment: (Mark one)	<input type="checkbox"/> < 25 Rem <input type="checkbox"/> ≥ 25 Rem
Respiratory Protection Worn During Exposure: (Mark One)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Respiratory Protection Factor: _____	Date of Exposure: _____

CAUTION

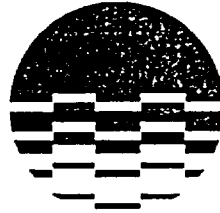
If the above allergic reaction statement \* is marked 'Yes', then do not administer KI.

Approved: \_\_\_\_\_  
Emergency Director Date/Time ☐ Mark if telecon/radio approval

Individual notified KI is approved for use: (Date/Time) \_\_\_\_\_/\_\_\_\_\_

KI taken (Date/Time) \_\_\_\_\_/\_\_\_\_\_

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**ENTERGY**

**RIVER BEND STATION  
STATION SUPPORT MANUAL  
\*EMERGENCY IMPLEMENTING PROCEDURE**

---

***\*OPERATIONS SUPPORT CENTER***

**PROCEDURE NUMBER:**                      **\*EIP-2-016**

**REVISION NUMBER:**                      **\*22**

**Effective Date:**                      **\* 04/05/04**

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**NOTE : SIGNATURES ARE ON FILE.**

**\*INDEXING INFORMATION**



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## 1 **PURPOSE**

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

## 2 **REFERENCES**

- 2.1 EIP-2-012, Radiation Exposure Controls
- 2.2 EIP-2-015, Post Accident Sampling Operations
- 2.3 RP-104, Personnel Contamination Events
- 2.4 RSP-0213, Control and Handling of Radioactive Material
- 2.5 RPP-0006, Radiological Surveys

## 3 **DEFINITIONS**

- 3.1 Activation - The process of assembling personnel, verifying equipment operability, and making a facility ready to support the emergency response.
- 3.2 Operational - Status of an emergency facility declared by the appropriate facility manager upon determining that the facility is adequately staffed and equipment is set up and available to perform the emergency functions assigned to that facility.
- 3.3 Habitable - For the purpose of this procedure, the term habitable is based solely on radiological conditions, however, the OSC Director may declare the OSC uninhabitable based upon other conditions.
- 3.4 Augmentation - Actions taken to support onshift personnel or the Emergency Response Organization.

## 4 RESPONSIBILITIES

- 4.1 OSC Director - direct and control the OSC, coordinate all OSC emergency response activities, and keep the Emergency Director informed about OSC activities.
- 4.2 OSC Manager(s) - ensure that the OSC is activated, ensure OSC Team Work Orders are completed for all work teams dispatched, assume the responsibilities of OSC Director when the OSC Director is not available, keep the OSC Director informed of the status of OSC operations, and ensure OSC staff provide support functions per the applicable section(s) of this procedure.
- 4.3 Senior Radiation Protection Technician (SRPT) - assist in making the OSC operational, coordinate the activities of Radiation Protection personnel, ensure all work teams dispatched in the plant are briefed and debriefed.
- 4.4 Status Communicator(s) - receive information pertaining to current plant parameters and action initiated by the Control Room and/or TSC and update the status board with current information and Work Team status.
- 4.5 Administrative Support Personnel - provide administrative and clerical support to the OSC staff.
- 4.6 Mechanical Maintenance Personnel - Implement repair and corrective actions as directed by the OSC Director.
- 4.7 Electrical Maintenance Personnel - Implement repair and corrective actions as directed by the OSC Director.
- 4.8 I & C Maintenance Personnel - Implement repair and corrective actions as directed by the OSC Director.
- 4.9 Operations Personnel - assist the OSC teams on plant / operational matters, fire brigade, or search and rescue as directed by the OSC Director.

- 4.10 Nuclear Chemistry Technician Personnel - support accident assessment efforts by obtaining and analyzing plant radiochemistry and chemistry samples, perform dose assessment in the Control Room until the TSC is operational and serve as a member of the offsite Radiological Monitoring Team as directed by the OSC Director.
- 4.11 Radiation Protection Technician Personnel - provide personnel monitoring and dosimetry for emergency response personnel; provide radiation protection coverage for repair and corrective actions, search and rescue, first aid, and fire fighting; assist in access control to radioactive contaminated areas; provide for personnel monitoring during an evacuation of site personnel; and assist with radiation protection tasks as directed by the Senior Radiation Protection Technician including radiological briefing and debriefing of teams.
- 4.12 Habitability Technician - complete the check of emergency equipment and perform initial and periodic habitability surveys of the Control Room and OSC; keep the Radiation Protection Coordinator and Senior Radiation Protection Technician informed of CR and OSC habitability; maintain the OSC contamination control point, and perform other actions as directed by the Senior Radiation Protection Technician .
- 4.13 Fire Brigade - provide fire suppression and protection activities as required. Fire Brigade members may perform other functions as directed when fire brigade emergency response is not required.
- 4.14 First Responder Team - provide emergency care or treatment to ill or injured personnel before medical assistance can be obtained during an emergency. First Responder Team members may perform other functions as directed when medical emergency response is not required.
- 4.15 Search and Rescue - search for missing or troubled plant personnel and return them safely to the facility. Search and Rescue Team members may perform other functions as directed when search and rescue emergency response is not required.

## 5 GENERAL

- 5.1 Attachment 10, Operations Support Center Organization Chart is a typical makeup for the OSC.

- 5.2 Attachment 11, Operations Support Center Floor Plan is a typical setup for the OSC.
- 5.3 The OSC may be activated at any time, and shall be activated at an Alert, Site Area Emergency, or General Emergency declaration. Once activated, the OSC shall become operational as soon as possible after declaration of any of these emergency classifications. When OSC minimum staffing can be accomplished with onsite personnel, it is the goal to become operational within 45 minutes. Otherwise, it is the goal to be operational in 90 minutes.
- 5.4 Situations may arise where personnel responding to an emergency will not be able to access the emergency response facilities in the protected area (e.g. terrorist event). In these situations, TSC personnel should man the Emergency Operations Facility located in the Training Center. Operations Support Center personnel should be staged in the Training Center classrooms and carry out the applicable steps of this procedure. EOF personnel will report to the Alternate EOF in Baton Rouge. Joint Information Center personnel should be directed to the Alternate JIC.

## 6 PROCEDURE

### NOTE

*The actions of this procedure may be completed in any sequence, however, the sequence presented is recommended.*

#### 6.1 OSC Director

- 6.1.1. The OSC Director should use Attachment 1 as a guideline. Document pertinent information on Attachment 9.

### NOTE

*An OSC Manager from each discipline - I&C, Mechanical, and Electrical - are assigned to respond at the ALERT level however all three are not required for minimum staffing.*

#### 6.2 OSC Manager(s)

- 6.2.1. The OSC Manager should use Attachment 2 as a guideline. Document pertinent information on Attachment 9.

6.3 Senior Radiation Protection Technician

- 6.3.1. The Senior Radiation Protection Technician should use Attachment 3 as a guideline. Document pertinent information on Attachment 9.

6.4 OSC/CR Habitability Technician

- 6.4.1. The OSC/CR Habitability Technician should use Attachment 4 as a guideline. Document pertinent information on Attachment 9 or survey forms as appropriate.

6.5 Status Communicator(s)

- 6.5.1. The Status Communicator(s) should use Attachment 5 as a guideline.

6.6 OSC Support Personnel

- 6.6.1 The OSC Support Personnel should use Attachment 6 as a guideline. Document pertinent actions on Attachment 9, Work Order or other appropriate forms such as survey forms.

7 **DOCUMENTATION**

Attachment 1-7, 9, and 13-14 of this procedure will be sent to Permanent Plant Files (PPF) per EPP-2-100 by the Manager - Emergency Preparedness.

# OSC DIRECTOR

<u>ACTIVATION</u>	Date: _____ Time: _____	<u>Actions Completed</u> <u>Initial</u>
1. Announce that no eating, drinking, or chewing is allowed until habitability is determined. Ensure that status is posted on OSC status board.		_____
2. If the OSC is determined to be uninhabitable, obtain concurrence from the Emergency Director and relocate OSC personnel to the TSC.		_____
3. Direct personnel to sign in and activate the facility.		_____
4. Receive briefing from the Emergency Director on plant and emergency status, and work teams dispatched from the Control Room.		_____
5. Brief OSC personnel on plant status.		_____
6. The OSC Manager and SRPT checklists are complete and personnel are prepared to perform functional responsibilities.		_____
7. All minimum staffing personnel are present or accounted for. Since some OSC personnel may be performing tasks in the field during OSC activation, it is not necessary for all minimum staffing personnel to be physically present in the OSC.		_____
a. Operations Support Center Director or Manager b. Senior Radiation Protection Technician c. Nuclear Chemistry Technicians (Only 1 required for minimum staffing) d. Radiation Protection Technicians (Only 1 required for minimum staffing) e. Mechanical Maintenance (Only 1 required for minimum staffing) f. Electrical Maintenance (Only 1 required for minimum staffing) g. I & C Technicians (Only 1 required for minimum staffing)		
7. Notify TSC that the OSC is operational.		_____
8. Announce to the OSC that the OSC is operational.		_____

## SUBSEQUENT ACTIONS

1. Remain in the immediate OSC area unless relieved by an OSC Manager.
2. Ensure that the TSC/OSC Video Link is operational.
3. Direct an individual to initiate a ventilation check using Attachment 7.

## OSC DIRECTOR

4. Coordinate OSC activities with the TSC Maintenance Support Coordinator as follows:
  - a. Coordinate and continuously monitor work team priorities.
  - b. Report the dispatch of work teams.
  - c. Report status of work teams dispatched.
  - d. Request any additional equipment or materials needed.
  - e. Report on work teams returning to the OSC and final status.
5. Direct the OSC Manager(s) to brief work teams on actions to be performed and to have an OSC Work Order form filled out for each work team dispatched.
6. Conduct periodic OSC briefings on plant conditions and tasks in progress.
7. Keep the Emergency Director informed on OSC operations.
8. Ensure that Work Orders are fully completed from all work teams that have completed their assignments.
9. If decision is made to relocate the OSC, implement the relocation section of this procedure.

### RELOCATION

#### NOTE

*This section is applicable if the OSC Director declares the OSC uninhabitable.*

1. Brief the OSC members of plan to relocate to the TSC. OSC personnel will normally occupy a room adjacent to the main TSC area.
2. Notify teams dispatched of OSC relocation.
3. Direct OSC Manager to ensure work orders, dispatched work team status, applicable procedures, handheld radios, respirators, SCBA's, spare SCBA bottles, and equipment as required are relocated to the TSC.
4. Direct the OSC relocation to the TSC

### DEACTIVATION

1. Deactivate the OSC when directed by the Emergency Director.
2. Direct the OSC Managers to deactivate the OSC.



OSC MANAGER

<u>ACTIVATION</u>		Date: _____ Time: _____	<u>Actions Completed</u> <u>Initial</u>
1.	Periodically announce that no eating, drinking, or chewing is allowed until habitability is determined.		_____
2.	Obtain habitability status from the SRPT.		_____
3.	Assume the OSC Director's responsibilities during absence of the OSC Director.		_____
4.	Determine the operational status of the following equipment:		_____
		(circle one)	
	• At least one River Bend CBX extension	Yes/No	
	• Inplant/Services Building Gaitronics System	Yes/No	
	• Portable radios (six)	Yes/No	
	• TSC intercom	Yes/No	
5.	Ensure OSC door # SB109-18 is locked.(See Attachment 11 for location).		_____
6.	Ensure OSC personnel have carded in on the accountability card reader or accounted for on the status board. If card reader is inoperable, prepare and maintain a list of names and badge numbers to manually maintain accountability.		_____
7.	Ensure that work teams dispatched by the Control Room are posted to the OSC status boards and accounted for.		_____
8.	Inform the OSC Director when prepared to assume functional duties.		_____

**OSC MANAGER****SUBSEQUENT ACTIONS**

1. Augment the OSC staff as necessary by contacting the TSC Administrative Coordinator. Call the Safety Representative to report to the OSC, if necessary.
2. Direct OSC support personnel to complete the OSC PERSONNEL CHECKLIST and report any activity not qualified to perform.
3. Determine the operational status of the TSC/OSC Video Link.
4. Obtain a status from the work teams dispatched by the Control Room and complete the applicable information on a Work Order, documenting teams dispatched before OSC activation. Track these work teams to completion of assignment.
5. Ensure an OSC Team Work Order is completed for all work teams dispatched. Individuals sent to perform functions in the Services Building or Control Room habitability surveys do not require an OSC Team Work Order but should be tracked.
6. Compose work teams, include a Radiation Protection Technician if necessary.
7. Check qualifications of search and rescue team members as necessary. At least 1 team member must be trained in search and rescue techniques and at least 1 team member must be trained in the use of radiation survey instruments.
8. Brief work teams on actions to be performed by the team using Attachment 12 as a guideline and direct a SRPT to provide a brief, if applicable.
9. Ensure that OSC status boards are kept updated.
10. Obtain a radio to monitor work team communications.
11. Give the work team a copy of the OSC Team Work Order. Place the original in a file and inform the OSC Director that the team has been dispatched.
12. When work teams return to the OSC, complete the OSC Team Work Order form and ensure a SRPT completes a radiological debriefing, and fills out their section of the form.
13. Review the OSC Team Work Order with the OSC Director for any further actions required. If further action is required, document it in the Task Status section of the OSC Team Work Order form and have a work team briefed and sent back to the plant.

## OSC MANAGER

### SUBSEQUENT ACTIONS (Cont'd)

14. If no further actions are required, sign or have the OSC Director sign the OSC Team Work Order form in the Task Disposition section.
15. Provide the Status Communicator with current Work Order information for status board update.
16. Maintain a file of active and completed Work Orders.
17. Establish long term relief rotation by requesting the Administrative Coordinator in the TSC to call necessary personnel.
18. Implement the relocation section of this procedure when directed by the OSC Director.

### RELOCATION

#### NOTE

*This section is applicable if the OSC Director declares the OSC uninhabitable.*

1. Direct OSC personnel to relocate work orders, work team status, applicable procedures, all handheld radios, respirators, SCBA's, spare SCBA bottles, instruments and equipment as required to the TSC.

### DEACTIVATION

1. When directed by the OSC Director, have OSC staff deactivate the OSC.
2. Ensure that all equipment is returned and report damaged or missing equipment to the Manager - Emergency Preparedness.
3. Ensure that all documentation is forwarded to the Manager - Emergency Preparedness.

# SENIOR RADIATION PROTECTION TECHNICIAN

<u>ACTIVATION</u>	Date: _____ Time: _____	<u>Actions Completed</u> <u>Initial</u>
1. Evaluate radiological conditions in the OSC and CR. Ensure that surveys are initiated, reviewed, and habitability determined, as necessary, using the following guidelines, and make appropriate recommendations to the OSC Director. Provide pertinent information to the RP Coordinator.  a. Facility habitability is based on a maximum dose limit of 5 rem TEDE over an assumed 12 hour shift.  b. A combination of 200 mR/hr to the whole body (Deep Dose Equivalent) plus an airborne concentration of 5E-6 $\mu$ Ci/cc radioiodine in the facility equates to a TEDE of approximately 5 rem in 12 hours.		_____
2. Evaluate need for temporary boundary to Emergency Locker.		_____
3. Ensure the distribution of pocket/electronic dosimeters to OSC and Control Room personnel and announce the frequency at which individuals should read their dosimeters. As necessary, direct the issuing of TLDs using page 4 of this Attachment.		_____
4. As required, establish a contamination control point to the OSC. If needed, coordinate with TSC Habitability Technician the establishment of a clean path between OSC and TSC.		_____
5. Inform the OSC Director when prepared to assume functional duties.		_____

## SENIOR RADIATION PROTECTION TECHNICIAN

### SUBSEQUENT ACTIONS

#### NOTE

*During a classified emergency, the RBS administrative controls are suspended, however, every effort shall be made to maintain personnel exposure within the limits established by 10CFR20.*

1. Ensure radiological briefings are conducted for all work teams dispatched, as appropriate. Ensure appropriate sections of the OSC Team Work Order form are completed. Other Radiation Protection personnel may be assigned to conduct radiological briefings and debriefings.
2. Ensure the work team is debriefed and the OSC Team Work Order is completed whenever work teams return and give the completed form to the OSC Manager(s).

#### CAUTION

During a Fuel Handling Accident where the spent fuel is greater than 30 days old,  $^{85}\text{Kr}$  (10.7 year half-life) is the principle gaseous isotope available for release. It is important in this case to take (RO-2/2A) open window as well as closed window readings since the primary dose from this isotope is Shallow Dose Equivalent. The  $\beta^-/\gamma$  emission ratio is approximately 240.

3. Dispatch plant monitoring teams, as requested. Keep the OSC Director informed of plant monitoring team activities and radiological conditions.
4. Review surveys, determine habitability, and make appropriate recommendations to the OSC Director.
5. Coordinate with the Radiation Protection Coordinator on the use of KI in accordance with EIP-2-012.
6. Monitor and record exposure of OSC personnel. Keep the OSC Manager and Radiation Protection Coordinator informed of exposures and margins.
7. Provide a Radiation Protection Technician or Chemistry Technician to act as Offsite Team Coordinator in the TSC when directed by the RPC.

## SENIOR RADIATION PROTECTION TECHNICIAN

### RELOCATION

#### NOTE

*This section is applicable if the OSC Director declares the OSC uninhabitable.*

1. Relocate equipment required for continued emergency response to the TSC. (Respirators, SCBA's, spare SCBA bottles, PCs, logs, exposure records, instruments, etc. as required to the TSC.)
2. Evaluate the need to move the contamination control points and relocate as necessary.
3. Relocate to the TSC as directed.

### DEACTIVATION

1. When directed by the OSC Director, deactivate the OSC.
2. Ensure that all dosimeters and TLDs that were issued are collected.
3. Ensure that all monitoring instrumentation is operable then turn power OFF and store in the proper location. Report problems to the OSC Manager.
4. Ensure that all documentation is forwarded to the OSC Manager.

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

[illegible]

## OSC/CR HABITABILITY TECHNICIAN

### ACTIVATION

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

Action Completed  
Initial

1. Perform operational checks on monitoring equipment prior to use. \_\_\_\_\_
2. Perform radiation and airborne radioactivity surveys in accordance with RPP-0006, Radiological Surveys or applicable attachments of EIP-2-014, Offsite Radiological Monitoring, to ensure that the OSC and CR are habitable. Report results to the SRPT. \_\_\_\_\_
3. Inform the SRPT when prepared to perform functional responsibilities. \_\_\_\_\_

### SUBSEQUENT ACTIONS

1. Establish a contamination control point in accordance with Radiation Protection Procedures as directed. Coordinate with the TSC Habitability Technician the establishment of a clean path between OSC and TSC, if required.
2. Periodically perform surveys of the OSC and CR.

### RELOCATION

#### NOTE

*This section is applicable if the OSC Director declares the OSC uninhabitable.*

1. Relocate to the TSC as directed.

### DEACTIVATION

1. When directed by the OSC Director, deactivate the OSC.
2. Ensure that all monitoring instrumentation is stored and operable. Report any problems to the SRPT.
3. Ensure that all documentation is forwarded to the SRPT.



## STATUS COMMUNICATOR

### ACTIVATION

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

Actions Completed  
Initial

1. Update status boards with current information. \_\_\_\_\_
2. Request information on work teams already dispatched and update status board. \_\_\_\_\_
3. Ensure that OSC personnel are logged-in on the status board. \_\_\_\_\_
4. Inform the OSC Manager when prepared to assume functional duties. \_\_\_\_\_

### SUBSEQUENT ACTIONS

1. Continually update status boards.
2. Record chronology of events on log form.
3. Ensure that work team status and priority are current.
4. Assist the OSC Manager as necessary.

### RELOCATION

#### NOTE

*This section is applicable if the OSC Director declares the OSC uninhabitable.*

1. Relocate to the TSC as directed.

### DEACTIVATION

1. When directed by the OSC Manager, deactivate the OSC.
2. Ensure that all documentation is forwarded to the OSC Manager.

OSC SUPPORT PERSONNEL

**ACTIVATION**

1. Sign in on the OSC status Board.
2. Perform duties as directed.

**SUBSEQUENT ACTIONS**

1. Radiation Protection Technicians
  - a. Perform an operability check on all survey instruments prior to use.
  - b. Assume the SRPT responsibilities when the SRPT is not available.
  - c. Assist with radiation protection tasks as directed by the SRPT, including conducting briefs and debriefs.
  - d. Provide support for fires, medical, and assembly area activities, as directed.
  - e. If the EOF is relocated, perform the duties of the Offsite Team Coordinator in the TSC, as required.
2. Chemistry Technicians
  - a. Perform an operability check on all survey instruments prior to use.
  - b. Perform samples as directed by the Chemistry/Core Damage Assessment Coordinator.
  - c. Deleted
  - d. If the EOF is relocated, perform the duties of the Offsite Team Coordinator in the TSC, as required.

OSC SUPPORT PERSONNEL

**SUBSEQUENT ACTIONS** (cont'd)

3. Maintenance Personnel
  - a. Receive task and radiological briefing before going on assignment.
  - b. Ensure that a radio is provided for communications with the OSC Director/Manager.
  - c. Ensure that you have proper tools, equipment and safety measures before going on assignment.
  - d. Ensure that debriefing is conducted on return to OSC.
  - e. Ensure that Status Board is updated to reflect your current status.
  - f. Obtain tools and equipment from the emergency locker or from the tool room as necessary to complete task.
  - g. Perform an operability check on instruments prior to use.
  - h. If qualified, perform function of Fire Brigade member and Search and Rescue Team member as directed.
4. Administrative Personnel
  - a. Assist in log keeping as necessary.
  - b. Copy and distribute material as necessary.
  - c. Establish and maintain a manual accountability list, as directed.
  - d. Verify OSC support personnel have completed OSC Personnel Checklist
  - e. Perform other duties as directed by the OSC Manager.
5. Operations Personnel
  - a. Assist the OSC teams on plant / operational matters, Fire Brigade, or Search and Rescue as directed.
6. Other personnel in the OSC perform duties as directed by the OSC Manager.

OSC SUPPORT PERSONNEL

**RELOCATION**

**NOTE**

*This section is applicable if the OSC Director declares the OSC uninhabitable.*

1. Relocate to the TSC as directed.
2. Relocate logs, tools, instruments, and equipment as directed.

**DEACTIVATION**

1. When directed by the OSC Manager, deactivate the OSC.
2. Ensure that all documentation is forwarded to the OSC Manager.

## TSC VENTILATION EMERGENCY MODE OPERATIONS

### NOTE

*During a LOCA, the TSC Ventilation System will automatically go into the emergency mode and proper system operation should be verified. For other emergency situations, the system will have to be manually placed in the emergency mode. Operation is identical during a LOCA or other emergency. SOP-0056 may also be used to shift TSC Ventilation System to the emergency mode.*

- 1 AT HVL-PNL261 VTSC PANEL, VERIFY HVL-HS420, HVL-FN1 OUTSIDE AIR FAN IS PLACED TO AUTO.
- 2 AT VTSC PANEL, VERIFY HVL-MIC-414, EMERGENCY OUTSIDE AIR MOISTURE CONT. IS PLACED TO AUTO.
- 3 AT VTSC PANEL, VERIFY HVL-HS-421, AHU-1 START-STOP SWITCH IS PLACED TO START.
- 4 AT VTSC PANEL, PLACE HVL-HS-223, STOP-NORMAL-EMER. AHU-2 TO EMERGENCY AND VERIFY THE FOLLOWING:
  - 4.1 HVL-AOD-202, EMERGENCY OUTSIDE AIR opens.
  - 4.2 HVL-FN-7, EMERGENCY OUTSIDE AIR is running.
  - 4.3 HVL-FN-8, NORMAL EXHAUST AIR AIR FAN stops.
  - 4.4 HVL-AOD-208, NORMAL OUTSIDE AIR DAMPER closes.
  - 4.5 HVL-AOD 216, NORMAL EXHAUST AIR DAMPER POS. closes.
  - 4.6 HVL-AOD 218, EMER. EXHAUST AIR DAMPER opens.
  - 4.7 HVL-FN-9, EMER. EXHAUST AIR FAN, starts.

## TSC VENTILATION EMERGENCY MODE OPERATIONS

### NOTE

*During a LOCA, the following step is not required.*

- 5 AT VTSC PANEL, PLACE HVL-HS420, HVL-FN1 OUTSIDE AIR FAN IN THE RUN POSITION.
- 6 AT VTSC PANEL, VERIFY HVL-PDI-407, BUILDING PRESSURIZATION IS READING A POSITIVE PRESSURE IN THE TSC.
- 7 IF TSC PRESSURE IS NOT POSITIVE, THEN RAISE BUILDING PRESSURE BY PERFORMING ANY OF THE FOLLOWING:
  - Adjust HVL-PDC-407, BLDG. PRESSURIZATION CONTROL.
  - Place HVL-HS-406, TOILETS EXHAUST FAN Switch in the STOP position.
  - Place HVL-HS-422, EMERGENCY OUTSIDE AIR FAN to the MAN position.
- 8 CHECK THE FOLLOWING:
  - 8.1 HVL-FN1, OUTSIDE AIR FAN is running.
  - 8.2 HVL-AOD-411, EMERGENCY OUTSIDE AIR is open.
  - 8.3 HVL-AOD-408, LOCAL OUTSIDE AIR DAMPER is closed.

### NOTE

*HVL-AOD426, REMOTE OUTSIDE AIR DAMPER is operational but is isolated with a blank plate installed on the intake side of the ductwork to prevent airflow past the damper.*

- 8.4 Verify HVL-HS-428, LOCAL-REMOTE EMER. OUTSIDE AIR selector switch is in LOCAL with the following damper indications:
  - 8.4.1. HVL-AOD-427, LOCAL AIR FILTER INLET is open.
  - 8.4.2. HVL-AOD-426, REMOTE OUTSIDE AIR DAMPER is closed.
- 8.5 HVL-AHU1, TSC AIR HANDLING UNIT is running.

## TSC/OSC VIDEO LINK

### A. MONITOR:

1. Using remote control, verify monitor powers up:  
(If monitor does not come on, ensure master power is depressed.  
If monitor still does not come on, replace batteries and/or verify  
remote switch on the back of the TV is on.)
  - a. Line A button selects (remote) ceiling mount camera.
  - b. Line B button selects Video switcher.
2. Manual Operation, when remote control fails or is not used:  
(If monitor is in standby, turn power off and then back on.)
  - a. The Main Control Key, when pressed, illuminates all control  
keys and indicators on the front panel.
  - b. Press the Main Control Key again to extinguish them.

### B. VIDEO SWITCHER: OSC LOCATION

1. Input #1 - Selects TSC Wolf Visualizer  
#2 - Selects OSC Wolf Visualizer  
#3 - Selects OSC ceiling mount camera  
#4 - Vacant
2. BNC #1 - Connection for Wolf Visualizer video output #1 cable
3. BNC #2 - Connection for Wolf Visualizer video (switched)  
output #2 cable

#### NOTE

*Spare coaxial cable is in the Emergency Supply locker.*

### D. VISUALIZER SETUP

1. Verify arm is extended upward to its full length to minimize focus problems.
2. Video output #1 connects to BNC #1, located on Video Switcher.
3. Video (switched) output #2 connects to BNC #2, located on Video Switcher.  
\* Plug in under table.

**TSC/OSC VIDEO LINK**

4. Verify main power switch (on the back of the unit) is turned on. The power indicator on the remote control should be illuminated.
5. Verify power switch on the Wolf Visualizer remote control is (ON) = [1]. (Remote is located on the slanted portion of the Visualizer.)
6. Verify Visualizer control panel "Input" switch is on.

**E. VISUALIZER AS AN OVERHEAD PROJECTOR**

1. Place your subject material on the working surface.
2. Turn the lamp on to illuminate the object by pressing the "lamp on" button on the Wolf Visualizer remote. (Remote is located on the slanted portion of the Visualizer.) If lamp does not come on, rotate the lamp selector knob on the front of the Visualizer to energize the standby lamp.
3. Tilt the reflector head so that your object is illuminated.
4. Select the enlargement required with the ZOOM keys on the remote control.
5. Adjust the sharpness with the FOCUS keys on the remote control. Should the illuminated area seem hazy, use the light focus/slide-focus control located on the side of the unit.

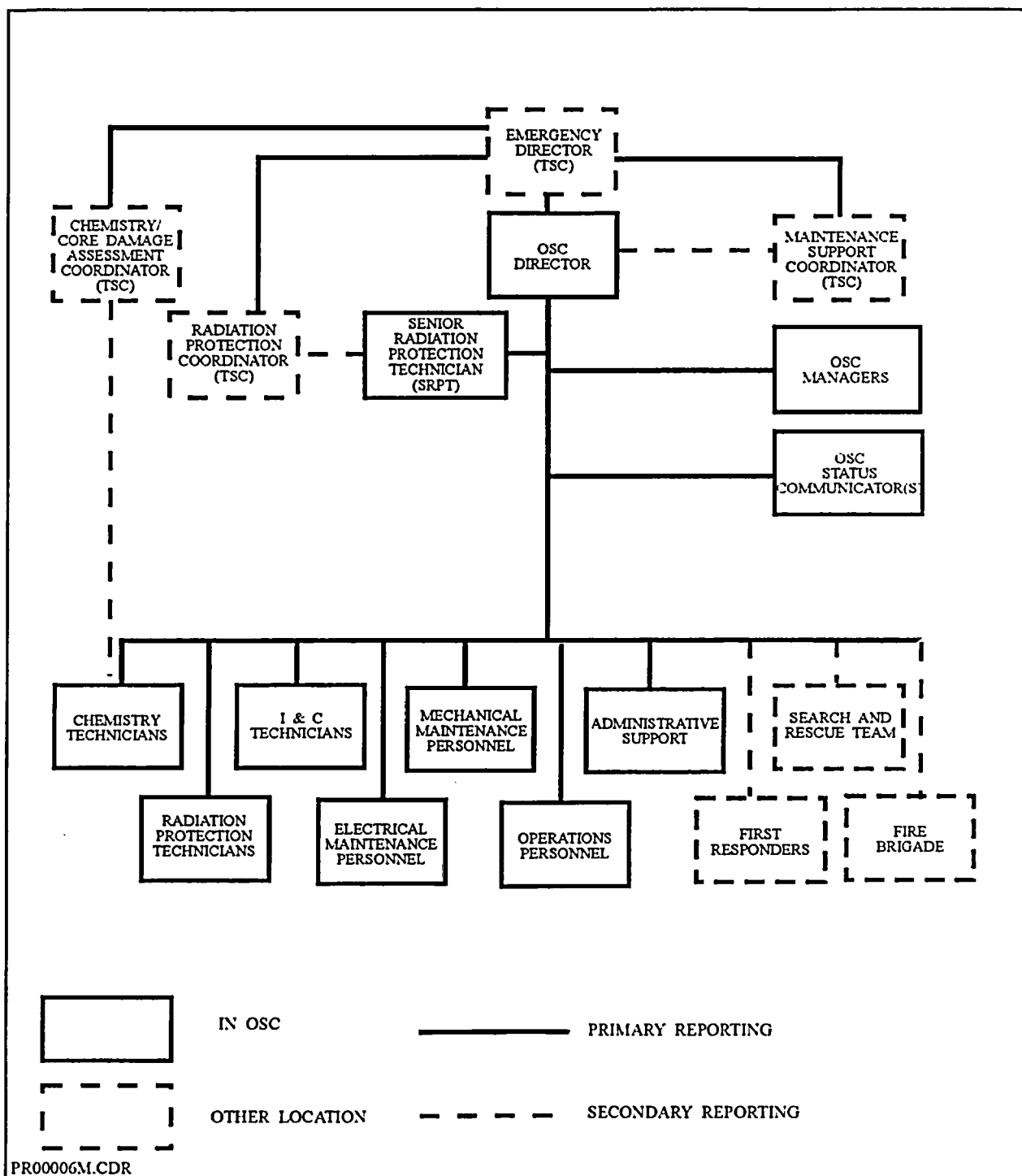
**F. VISUALIZER AS A VIDEO CAMERA TO SCAN SUBJECTS IN THE ROOM**

1. Tilt the reflector head.
2. Turn off the light with the LIGHT key on the Wolf Visualizer remote control.

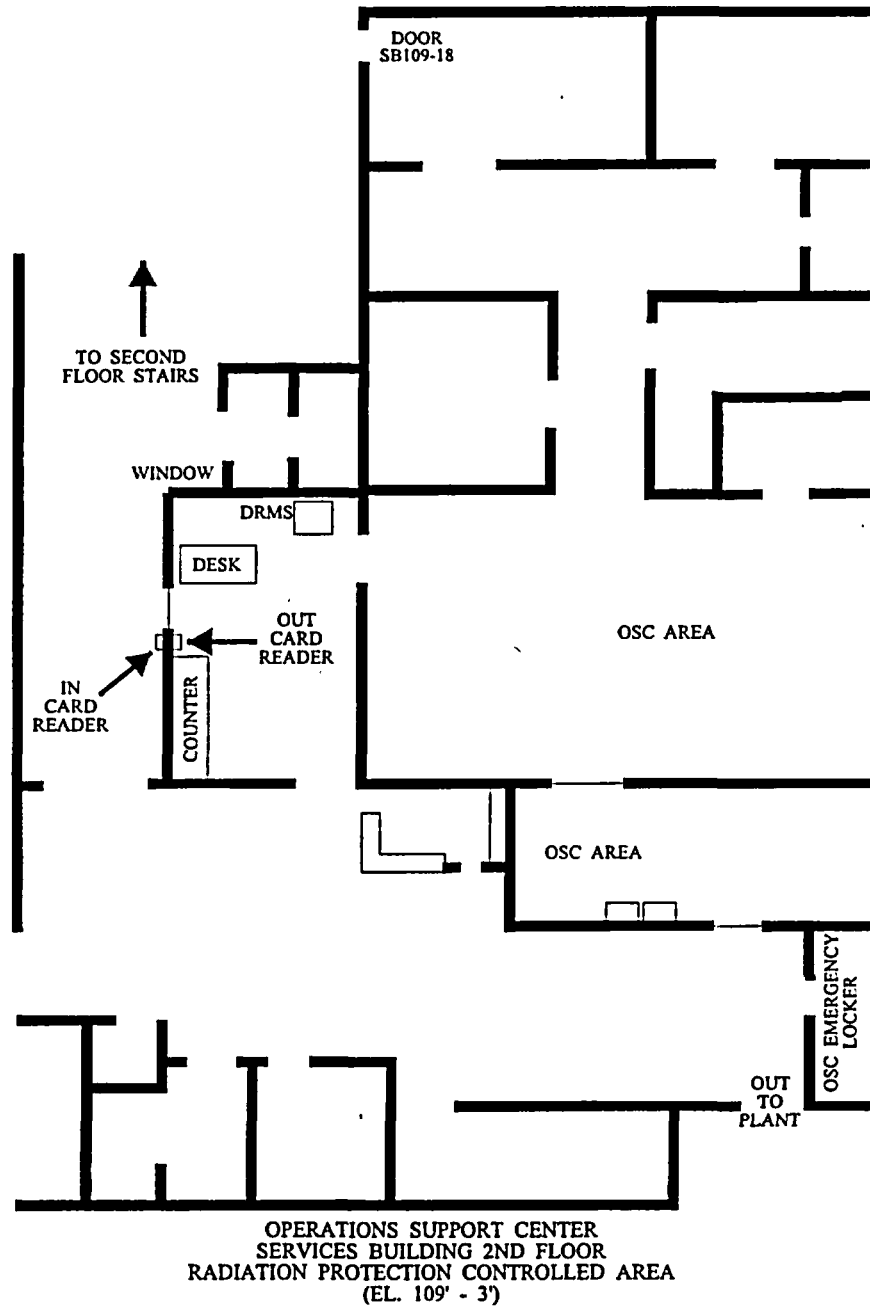




# OPERATIONS SUPPORT CENTER ORGANIZATION



OPERATIONS SUPPORT CENTER FLOOR PLAN  
(TYPICAL)



PR00005M.CDR

**OSC WORK TEAM BRIEF GUIDELINE  
(TYPICAL)**

**THE WORK TEAM BRIEF MAY INCLUDE THE FOLLOWING ITEMS:**

1. Brief on the task to be accomplished
2. Location of task and best route to get there.
3. Radiological conditions for the route and task location.
4. Radiological protection measures to be taken.
5. Other conditions (temperature, operating equipment in area, tagout required, spare parts, etc)
6. Heat stress (ADM-0068) requirements planned.
7. Procedures required and contingency if deviation required.
8. Necessary equipment, tools, instruments, etc identified and located.
9. Task role assignments made.
10. Brief on communications expectation and portable radio provided to team to communicate with the OSC.

**NOTES:**

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## OSC PERSONNEL CHECKLIST

**OSC PERSONNEL CHECKLIST (TYPICAL)**

NAME: \_\_\_\_\_ POSITION: \_\_\_\_\_

- Declared pregnant female Y / N (If Y, report to OSC Director.)

\_\_\_\_\_ Obtain TLD

\_\_\_\_\_ Logged on to RWP (if applicable)

\_\_\_\_\_ Verify Respirator/Fit Quals \_\_\_\_\_ Date

\_\_\_\_\_ Verify SCBA /Fit Quals \_\_\_\_\_ Date

\_\_\_\_\_ Obtain PD/Electronic Dosimetry

\_\_\_\_\_ Obtain Dose margin \_\_\_\_\_ mr

\_\_\_\_\_ OSC Check-in and keycard in

\_\_\_\_\_ RP meter Qualified YES / NO

\_\_\_\_\_ Qualified ( YES / NO - Circle Crafts)  
 (Mech., Elec., I & C, Ops, RP, Chem., Env.)

\_\_\_\_\_ Heat Stress Evaluation complete, if required

\_\_\_\_\_ Flashlight Obtained (Field crews)

\_\_\_\_\_ Search and Rescue Training

\_\_\_\_\_ Confined Space Training:      Entry/Technician      Rescue

\_\_\_\_\_ Hazmat Training

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

TEAM WORK ORDER (TYPICAL)

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

TASK DESCRIPTION - OSC DIRECTOR/MANAGER

TASK LOCATION: \_\_\_\_\_ BLDG. \_\_\_\_\_ AREA \_\_\_\_\_ ELEVATION \_\_\_\_\_ TASK BRIEFING COMPLETE

Team Member Name/KCN	Dept.	*Dose Margin	Time Out	Time In	** Dose Received

RADIATION PROTECTION BRIEFING/DEBRIEFING -

\_\_\_\_\_ RP COVERAGE                      \_\_\_\_\_ SCBA/SPEAK EASY                      \_\_\_\_\_ DOSIMETRY  
 \_\_\_\_\_ SURVEY DATA                      \_\_\_\_\_ SURVEY INSTRUMENTS.                      \_\_\_\_\_ TRAVEL PATH  
 \_\_\_\_\_ PC'S/RESPIRATORS                      \_\_\_\_\_ SPARE SCBA BOTTLES                      \_\_\_\_\_ EQUIP. OPER. CHECK  
 \_\_\_\_\_ \*DOSE MARGIN                      \_\_\_\_\_ KI  
 DOSE LIMIT: \_\_\_\_\_                      TURNBACK DOSE RATE: \_\_\_\_\_

\_\_\_\_\_  
RPT/KCN

\*\* DEBRIEF TEAM - OBTAIN DOSE RECEIVED.

\_\_\_\_\_  
RPT/KCN

TASK STATUS

\_\_\_\_\_  
OSC DIRECTOR/MANAGER / KCN

\_\_\_\_\_  
DATE