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Enclosure 1 Contains Personal Information.

W3F1-2001-0121
A4.05
PR

December 17, 2001

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

Subject: Waterford 3 SES
Docket No. 50-382
License No. NPF-38
Emergency Plan Implementing Procedures

Gentlemen:

In accordance with Appendix E of 10CFR50 and 10CFR50.4(b)(5), Entergy is submitting revisions to Waterford 3 Emergency Plan Implementing Procedures. These revised procedures were reviewed in accordance with 10CFR50.54(q) requirements and were determined not to decrease the effectiveness of the emergency plan.

Included in this submittal are the following procedures:

1. EP-002-101 (Revision 26), Operational Support Center (OSC) Activation, Operation, and Deactivation. This revision incorporates several administrative changes to this procedure.
2. EP-004-010 (Revision 8), Toxic Chemical Contingency Procedure. Reformatted procedure as well as other administrative changes.

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Enclosure 1 Contains Personal Information.

Emergency Plan Implementing Procedures

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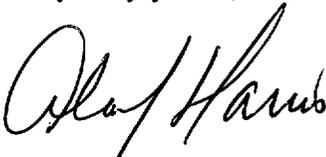
Please note that pages 55 & 71 of EP-004-010 (Revision 8), Toxic Chemical Contingency Procedure, contains telephone numbers which are considered personal information. Enclosure 1 contains the pages with the personal information; it is requested that this information be withheld from the public pursuant to 10CFR2.790. Enclosure 2 contains no personal information and may be considered public copies.

This letter does not contain any commitments.

Should you have any questions concerning these procedures, please contact Mr. J.J. Lewis, Emergency Planning Manager, at (504) 739-6624.

I declare under penalty of perjury that the foregoing is true and correct. Executed on December 17, 2001.

Very truly yours,



A.J. Harris
Director,
Nuclear Safety Assurance

AJH/DCM/ssf

Enclosure 1: (Contains Personal Information)

Enclosure 2: EP-002-101, Revision 26
EP-004-010, Revision 8

cc: (w/Enclosures 1 and 2)
E.W. Merschoff, NRC Region IV (2 copies)

(w/o Enclosures 1 and 2)
N. Kalyanam (NRC-NRR), P.J. Elkmann (NRC Region IV), J. Smith,
N.S. Reynolds, NRC Resident Inspectors Office

**ENCLOSURE 2 TO
W3F1-2001-0121**

**EP-002-101, Revision 26
Operational Support Center (OSC) Activation, Operation, and Deactivation**

**EP-004-010, Revision 8
Toxic Chemical Contingency Procedure**

REQUEST/APPROVAL PAGE

SAFETY RELATED

Required Review Level (check one)

- PORC
 QUALIFIED REVIEWER

PROCEDURE NUMBER: EP-002-101 REVISION: 26 CHANGE: 0 DEVIATION: 0

TITLE: Operational Support Center (OSC) Activation, Operation, and Deactivation

EFFECTIVE DATE/MILESTONE: N/A
 (N/A If Same as Approval Date)

PROCEDURE OWNER: Emergency Planning Manager
 (Position Title)

PREPARER (Print Name / Initial): A.S. Lubinski / [Signature] DATE: 11/19/01

ACTION:

- New Procedure
 Deletion
 Revision
 Change

EC? N/A
 (Applicable W2.109 Step Numbers)

Deviation Expiration Date/Milestone: N/A
 Temporary Procedure Applicable Conditions: N/A

DESCRIPTION AND JUSTIFICATION OF CHANGE:

Revised Step 5.1.5 and Attachment 7.9 directing first responders to place the step off pad by the frisking station instead of setting it up, since the step off pad is not required to be set up until the OSC HP determines the need for frisking. Added Step 5.1.7 (also added to Attachment 7.9) to place the electronic dosimeters at the control access terminal to allow for dispatching personnel prior to the arrival of the OSC HP. Changed TSC Lead Communicator to TSC Supervisor in Steps 5.3.2.3, 5.3.2.4, NOTE in Step 5.3.2.5 and Attachment 7.10 since the OSC Supervisor's contact in the TSC is the TSC Supervisor. Added reference to Emergency Team Debriefing Sheet in Step 5.9.2.5 and Attachment 7.13 as a reminder to the RCC to complete the Debriefing Sheet. Added "as warranted" to Step 5.10.1.2D and Attachment 7.14 to allow the OSC HP to determine when frisking is required. Added Step 5.10.1.2G to provide direction for issuance of SRDs. This was also added to Attachment 7.14. Split Attachment 7.9 into three pages and added clarifying information for ease of use. Added clarifying information to Attachments 7.10 and 7.11 for ease of use. Underlined the word "and" three times on Attachment 7.2 and added two commas to Attachment 7.3. Revision bars were not used on Attachment 7.2 or 7.3 because they are not required for minor formatting changes. Added NOTE on Attachment 7.12 in the Operation Section.

Request/Approval Page Continuation Sheet(s) attached.

EC SUPERVISOR	APPROVAL:	<u>N/A</u>	DATE:	<u> </u>
50.59 REVIEWER Required? <input checked="" type="checkbox"/>	REVIEW:	<u>[Signature]</u>	DATE:	<u>11-26-01</u>
<input type="checkbox"/> PROGRAMMATICALLY EXCLUDED	PORC Mtg. No.:	<u>N/A</u>	DATE:	<u> </u>
50.54 REVIEWER Required? <input checked="" type="checkbox"/>	REVIEW:	<u>[Signature]</u>	DATE:	<u>11-29-01</u>
TECHNICAL REVIEWER	REVIEW:	<u>[Signature]</u>	DATE:	<u>11-26-01</u>

Change Notice (CN)? N/A

CHANGE NOTICE (CN) SUPERVISOR	APPROVAL:	<u>N/A</u>	DATE:	<u> </u>
CHANGE NOTICE (CN) ON-SHIFT SM/CRS	APPROVAL:	<u>N/A</u>	DATE:	<u> </u>
2 Week Final Approval			DATE:	<u> </u>

QUALIFIED REVIEWER Required? <input checked="" type="checkbox"/>	REVIEW:	<u>[Signature]</u>	DATE:	<u>11/27/01</u>
GROUP/DEPT. HEAD REVIEW <input type="checkbox"/> or APPROVAL <input checked="" type="checkbox"/>		<u>[Signature]</u>	DATE:	<u>11-29-01</u>
GM, PLANT OPERATIONS REVIEW <input type="checkbox"/> or APPROVAL <input type="checkbox"/>		<u>N/A</u>	DATE:	<u> </u>
VICE PRESIDENT, OPERATIONS APPROVAL:		<u>N/A</u>	DATE:	<u> </u>

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Informational Use

1.0 PURPOSE

- 1.1 This procedure provides guidance for the Operational Support Center (OSC) staff in the activation, operation and deactivation of the Operational Support Center.

2.0 REFERENCES

- 2.1 Waterford 3 SES Emergency Plan
- 2.2 Emergency Management Resources Book
- 2.3 EP-002-030, Emergency Radiation Exposure Guidelines and Controls
- 2.4 EP-002-031, In-Plant Radiological Controls and Surveys During Emergencies
- 2.5 EP-002-032, Monitoring and Decontamination
- 2.6 EP-002-034, On-Site Surveys During Emergencies
- 2.7 EP-002-060, Radiological Field Monitoring
- 2.8 EP-002-071, Site Protective Measures
- 2.9 EP-002-130, Emergency Team Assignments
- 2.10 EP-002-140, Reentry
- 2.11 EP-002-150, Emergency Plan Implementing Records
- 2.12 EP-002-170, Recovery
- 2.13 EP-002-190, Personnel Accountability
- 2.14 EP-003-040, Emergency Equipment Inventory
- 2.15 FP-001-020, Fire Emergency/Fire Report
- 2.16 UNT-004-032, Control of Emergency Vehicles
- 2.17 UNT-007-018, First Aid and Medical Care

3.0 RESPONSIBILITIES

3.1 OSC First Responders

- 3.1.1 Responsible for initiation of this procedure.
- 3.1.2 Responsible for performing the steps in Section 5.1.

3.2 OSC Supervisor

- 3.2.1 Responsible for implementation of this procedure.
- 3.2.2 Has the overall responsibility for ensuring that actions outlined in this procedure are carried out.

3.3 Radiological Controls Coordinator (RCC)

- 3.3.1 Responsible for ensuring that activities related to the -4 Control Point personnel are conducted in accordance with this procedure.

3.4 OSC Supervisor Assistant

- 3.4.1 Reports to the OSC Supervisor.
- 3.4.2 Ensure the OSC First Responder actions in Section 5.1 are completed.
- 3.4.3 Ensure accountability actions are performed in accordance with EP-002-190.
- 3.4.4 Ensure OSC status boards are kept current.
- 3.4.5 Assist the OSC Supervisor in the coordination of other activities as needed.

3.5 OSC Supervisor Communicator

- 3.5.1 Reports to the OSC Supervisor.
- 3.5.2 Establish and maintain communications with the TSC or Control Room.
- 3.5.3 Maintain a continuous log of OSC activities.
- 3.5.4 Ensure the OSC Supervisor is kept informed of priorities and goals established by the TSC.

3.6 OSC Electrical, I&C and Mechanical Leads

- 3.6.1 Report to the OSC Supervisor.
- 3.6.2 Responsible for the formation, briefing and debriefing of maintenance emergency response teams.
- 3.6.3 Responsible for the coordination of maintenance emergency response team activities in the plant, including continuous accountability.
- 3.6.4 Responsible for the coordination of maintenance emergency response team activities with the Security Superintendent and the OSC Health Physics Liaison.
- 3.6.5 Ensure the OSC Supervisor is kept informed of the status of the maintenance emergency response teams.

3.7 OSC Information Technology (IT) Representative

- 3.7.1 Reports to the OSC Supervisor, as requested.
- 3.7.2 Coordination of troubleshooting and repairs of telecommunications equipment.
- 3.7.3 Coordinate troubleshooting and repair of Information Technology hardware and software.
- 3.7.4 Coordinate support for computer applications problems.

3.8 Security Superintendent

- 3.8.1 Reports to the Emergency Coordinator.
- 3.8.2 Directs the W3SES Security Force.
- 3.8.3 Responsible for plant personnel accountability.
- 3.8.4 Coordinates emergency access for OSC emergency teams.

3.9 OSC Health Physics Technician

- 3.9.1 Responsible for coordinating OSC activities with the Radiological Controls Coordinator (RCC).
 - 3.9.1.1 Ensure the RCC is kept informed of the staffing and dispatching of emergency teams.
 - 3.9.1.2 Assist the OSC Supervisor in the briefing of emergency teams on plant radiological conditions.
- 3.9.2 Monitor OSC habitability.

3.10 All Other Personnel Responding to the OSC

- 3.10.1 Responsible for ensuring that activities in their areas are conducted in accordance with this procedure.

4.0 INITIATING CONDITIONS

4.1 This procedure is to be initiated upon any of the following conditions:

- 4.1.1 At the direction of the Emergency Coordinator.
- 4.1.2 Declaration of any of the following emergency conditions:
 - 4.1.2.1 Alert
 - 4.1.2.2 Site Area Emergency
 - 4.1.2.3 General Emergency

5.0 PROCEDURE

NOTE

If the Backup OSC is to be activated, then GO TO Attachment 7.2.

5.1 OSC First Responders

NOTE

Normally the on-shift maintenance personnel perform the duties of the First Responder. Attachment 7.1, Attachment 7.8 and Attachment 7.9 may be used during the performance of these duties.

- 5.1.1 Obtain the OSC Master key from the OSC keybox.
 - 5.1.1.1 Unlock the MSB Cafeteria doors, OSC Command Room doors and OSC Storage Room doors.
 - 5.1.1.2 Return the OSC Master key to the OSC keybox.
- 5.1.2 Remove the Manpower Area Coordinator boxes from the OSC Storage Room and set up the three Manpower Area Coordinator stations.
 - 5.1.2.1 Set up the tables for the Manpower Area Coordinators.
 - 5.1.2.2 Set up and test the Manpower Area Coordinator telephones.
 - 5.1.2.3 Set up and test the Manpower Area Coordinator radio base stations.
- 5.1.3 Roll the radio cart from the OSC Storage Room into the Manpower Area.
 - 5.1.3.1 Plug in the radio power strip and ensure the portable radio charging lights are lit.
 - 5.1.3.2 Test the operation of the remote radios.
- 5.1.4 Post the OSC Access Control door signs and the stairway access barriers in accordance with Attachment 7.8.
- 5.1.5 Remove the Step Off Pad materials from the OSC Storage Room and place the Step Off Pad by the OSC frisking station.
- 5.1.6 Remove the constant particulate airborne monitor from the OSC Emergency Locker and place it in the MSB Hallway by the OSC frisking station.
- 5.1.7 Place the box of OSC electronic dosimeters (from the OSC Storage Room) on the shelf of the Control Access Terminal.
- 5.1.8 Roll the OSC drawing cart from the 2nd Floor MSB Library into the OSC.

- 5.1.9 Adjust the page speaker volume controls such that the system can be heard throughout the OSC.
- 5.1.10 Obtain the key from the OSC Storage Room and unlock the OSC planner PC cabinet.
- 5.1.11 Ensure the OSC clocks in the Command Room and Manpower Areas are synchronized.
- 5.1.12 Post the appropriate classification sign in the OSC Command Room and the cafeteria.
- 5.1.13 Unlock the sliding window between the Command Room and the Manpower Area.
- 5.1.14 When Steps 5.1.1 through 5.1.13 are completed, then notify the OSC Supervisor Assistant of the completion of OSC First Responder activities.

5.2 General Instructions for all Personnel

NOTE

Prior to the activation of the TSC or the OSC, the Emergency Coordinator may request support from the personnel assembled in the OSC.

- 5.2.1 Perform a hands and feet frisk as required by posted instructions.
- 5.2.2 Maintenance personnel check in with the appropriate Manpower Area Coordinator or Maintenance Lead.
 - 5.2.2.1 After check in, standby in the OSC Manpower Area and await further instructions.
- 5.2.3 Miscellaneous OSC personnel (Operations, Field Team Drivers, Chemistry, Document Control, Warehouse, etc.) report to the OSC Supervisor Assistant in the OSC Manpower Area.
 - 5.2.3.1 After reporting in, standby in the OSC Manpower Area and await further instructions.
- 5.2.4 Radiation Protection personnel report to the Radiological Controls Coordinator at the -4 Control Point.
- 5.2.5 Assembly Area Supervisor reports to the Backup OSC and performs duties in accordance with EP-002-071.

NOTE

If Manpower Area Coordinators are not assigned, then the Maintenance Leads perform the activities in section 5.2.6.

- 5.2.6 Manpower Area Coordinators (I&C, Electrical & Mechanical) report to the OSC Manpower Area.
 - 5.2.6.1 Each Manpower Area Coordinator establishes communications with the appropriate Maintenance Lead in the OSC Command Room and coordinates staffing of emergency teams as directed.
 - 5.2.6.2 Manpower Area Coordinators ensure maintenance personnel card in on the "Accountability Keycard Reader" as directed by the Maintenance Leads.

5.3 OSC Supervisor

NOTE

1. Attachment 7.10 may be used during the performance of these activities.
2. The OSC Supervisor Assistant may perform the actions in section 5.3 in the absence of the OSC Supervisor.

5.3.1 Activation

5.3.1.1 Ensure OSC First Responders activities (Section 5.1) are being completed in a timely manner.

- A. Check with the shift maintenance technicians, or the OSC Supervisor Assistant, to determine the status.

5.3.1.2 Contact the TSC Supervisor and discuss the following:

- A. Current plant conditions and emergency status.
- B. Current goals and priorities.
- C. Status of repair activities in progress.
 1. Determine if any maintenance personnel are presently working in the plant.
- D. OSC manpower needed to support the present and projected emergency activities.

NOTE

Minimum staffing to declare OSC activated includes the OSC Supervisor, or OSC Supervisor Assistant, and at least two maintenance technicians from each discipline.

5.3.1.3 Determine the status of OSC staffing.

- A. Number of maintenance technicians present.
- B. OSC Supervisor Assistant.
- C. OSC Electrical Lead.
- D. OSC Mechanical Lead.
- E. OSC I&C Lead.
- F. OSC Supervisor Communicator.
- G. Assembly Area Supervisor.
- H. Operations Support.

- 5.3.1.4 When sufficient OSC manpower is available to support the existing emergency conditions, then declare the OSC activated.
- A. Make the following announcement over the plant page system:
- ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL! THE OSC IS ACTIVATED.
(INSERT NAME) IS THE OSC SUPERVISOR. MAINTENANCE PERSONNEL WORKING IN
THE PLANT CONTACT THE OSC AT EXTENSION 2140 OR 6094.
- 5.3.1.5 If any OSC positions (B through G in Step 5.3.1.3) are not staffed, then request the TSC to check the status of filling OSC positions as indicated on the VNS printout.
- A. Begin calling out additional personnel to fill positions, or support plant emergency activities, as required. (Refer to the Emergency Management Resources Book for names and telephone numbers.)
- B. Coordinate staffing of additional Chemistry personnel (EFAT support) with the TSC Supervisor and the TSC Operations Coordinator.
- C. Coordinate staffing of additional Operations support with the TSC Operations Coordinator.
- D. Keep the TSC Supervisor informed of additional OSC capabilities as they become available.
- 5.3.1.6 Establish Communications with the Radiological Controls Coordinator (RCC) at the -4 Control Point.
- A. Ensure the RCC has dispatched a Health Physics technician to the OSC Command Room to serve as the OSC Health Physics Liaison.
- B. Discuss current radiological conditions and identify any potential hazards which could affect OSC operations.
- 5.3.1.7 Ensure the OSC Supervisor Assistant establishes OSC accountability in accordance with EP-002-190.
- 5.3.1.8 Ensure the OSC Supervisor Communicator establishes and maintains communications with the TSC Supervisor or TSC Supervisor Communicator to discuss the following:
- A. Priorities and goals.
- B. Plant conditions.
- C. Requests for emergency teams.
- D. Status of OSC emergency teams (time dispatched, prognosis of equipment failures, estimated time of equipment repair, etc.).
- E. Requests for engineering assistance with emergency team activities.

5.3.1.9 Make arrangements for personnel from the following support areas to report to the OSC in the event of a site evacuation:

- A. Document Control
- B. Tool Room
- C. Hot Tool Room
- D. Warehouse (including 7B warehouse)
- E. Construction crafts (for scaffold erection, etc.)
- F. Maintenance Planners
- G. OSC IT Representative (as needed)

5.3.2 Operation

NOTE

Attachment 7.6 is a guideline for briefing the relieving OSC Supervisor during a shift change. Both parties sign the checklist to document the turnover of OSC Supervisor duties.

5.3.2.1 Update OSC Personnel on emergency conditions, radiological conditions and priorities, using the OSC Building Page System, at regular intervals or as conditions change.

NOTE

Any time an Emergency Team is to be dispatched into any area that has been evacuated for any reason, refer to EP-002-140.

5.3.2.2 Dispatch emergency teams promptly as requested by the TSC.

- A. If the OSC becomes aware of a problem, or potential problem, then an emergency team may be assembled in anticipation of a request from the TSC.
- B. Evaluate the need for a backup emergency team for each emergency team assigned.
 - 1. Consider backup emergency teams for all priority tasks, any task requiring the use of respirators or any task where stay times may limit the team's activities.
 - 2. If possible, then brief the backup emergency team at the same time as the primary team.
 - 3. Ensure dispatch of the primary emergency team is not delayed while waiting for a backup team to be assigned.
- C. If a team is requested to respond to the Emergency Operations Facility (EOF), then request the TSC Supervisor to coordinate EOF access with the EOF Administration/ Logistics Coordinator.
 - 1. Provide the names and badge numbers of each team member to the TSC Supervisor.

- 5.3.2.3 When notified the EFAT is staffed, then notify the TSC Supervisor of the names and badge numbers of the EFAT members.
- A. If a medical emergency occurs, then the TSC Lead Communicator dispatches the EFAT in accordance with UNT-007-018 and assumes responsibility for the EFAT.
 - B. The OSC provides additional personnel to support the EFAT as requested by the TSC.
- 5.3.2.4 When notified the Fire Brigade is staffed, then notify the TSC Supervisor of the names and badge numbers of the Fire Brigade members.
- A. If a fire occurs, then the TSC Lead Communicator dispatches the Fire Brigade in accordance with FP-001-020 and assumes responsibility for the Fire Brigade.
 - B. The OSC provides additional personnel to support the Fire Brigade as requested by the TSC.
- 5.3.2.5 Ensure radiological controls are maintained in the OSC and habitability is assessed by the OSC Health Physics Liaison.
- A. If radiation levels are greater than or equal to 100 mrem/hr, or airborne concentration levels are greater than or equal to 10 DAC, and there is no indication these levels may significantly decrease during the next four hours, then consider evacuating the OSC
 - B. Accumulated doses to personnel are taken into account.
1. If 10CFR20 limits (see EP-002-030) are approached and there is no indication that conditions may improve before limits are exceeded, then consider evacuating the OSC.

NOTE

If conditions warrant an evacuation of the OSC, then stage the Fire Brigade at the +7 RAB and inform the TSC Supervisor of their location. The TSC Lead Communicator assumes responsibility for the Fire Brigade at that time.

- C. If radiation levels are greater than or equal to 500 mrem/hr or airborne concentrations are greater than or equal to 100 DAC, then evacuate the OSC.
- D. If the OSC is evacuated to the Backup OSC, then GO TO Attachment 7.2.

- 5.3.2.6 Coordinate the activities of the Assembly Area Supervisor.
- A. The Assembly Area Supervisor is staged in the Backup OSC (or another area of the Administration Building) to allow rapid response to the designated offsite assembly area for a site evacuation.
 - B. If a site evacuation occurs (or has occurred), then ensure the Assembly Area Supervisor is dispatched (or has been dispatched by the Emergency Coordinator) to the selected offsite assembly area.
 - C. Coordinate activities with the RCC to determine if Health Physics support is required at the offsite assembly area to survey and decontaminate vehicles and personnel.
 - D. Ensure communications are established and maintained with the Assembly Area Supervisor at the offsite assembly area.
 - 1. The Assembly Area Supervisor may communicate with the OSC using a cellular phone or the Assembly Area Supervisor radio frequency.
 - 2. If communicating using the radio, then consider assigning a person to assist the OSC Health Physics Liaison in manning this radio circuit.
 - 3. Refer to Attachment 7.15 for correct radio switch settings.
 - E. Coordinate with the TSC to determine the need to contact site personnel at the offsite assembly area.
 - F. After personnel at the offsite assembly area have been assembled and contamination is under control, then coordinate securing assembly area activities with the TSC as appropriate.
- 5.3.2.7 As requested by the RCC, provide support for Radiological Field Monitoring teams.
- A. Ensure the OSC Supervisor Assistant dispatches field team drivers in a timely manner.
 - B. If the designated emergency vehicles are not available, then provide other company vehicles for the use of the field monitoring teams.
- 5.3.2.8 Inform the TSC Supervisor of the status of OSC activities, priorities and goals and support overall plant activities as directed.
- A. Inform the RCC of OSC activities, priorities and goals.
- 5.3.2.9 Ensure OSC status boards are up-to-date and the correct Emergency Classification is displayed on the Emergency Classification sign.
- 5.3.2.10 Ensure all documentation is maintained in accordance with EP-002-150.
- A. The OSC Supervisor Communicator is responsible for maintaining a narrative facility log of overall OSC activities.
 - B. All OSC staff positions maintain a narrative facility log or an Emergency Telephone/Radio Log.

5.3.2.11 Prepare for continuous manning of the OSC.

- A. Continuously assess OSC manpower needs and only retain sufficient personnel to support the present emergency needs.
- B. Destaff, as necessary, to allow for extended operations (relief shifts).
- C. Coordinate with the TSC Supervisor to determine the potential for worsening conditions and any additional manpower requirements.
- D. Ensure the OSC Supervisor Assistant coordinates the development of the OSC watch bill (Attachment 7.3) with the Maintenance Leads, RCC and the TSC Supervisor.

5.3.3 Deactivation

5.3.3.1 Assist in follow-up activities and evaluation of the event.

5.3.3.2 Assist in, and provide teams for, recovery operations as directed by the Recovery Manager in accordance with EP-002-170.

5.3.3.3 If the OSC is to be deactivated, then:

- A. Recall and debrief any emergency teams in the field.
- B. Collect all documentation generated during the emergency (logs, data sheets, briefing/debriefing sheets, scratch pads, etc.) and forward to the Emergency Planning Department.

5.3.3.4 Restore the OSC facility and equipment to pre-emergency conditions.

5.4 OSC Supervisor Assistant

NOTE

Attachment 7.11 may be used for the performance of these activities.

5.4.1 Activation

NOTE

1. Fire Brigade members may be assigned additional work activities (i.e., Manpower Area Coord., OSC Main Entrance/Exit Accountability Watch).
2. Emergency First Aid Team (EFAT) staffing activities may be performed by the RCC.

5.4.1.1 Identify Fire Brigade members in accordance with EP-002-130.

- A. When the Fire Brigade is staffed, then notify the OSC Supervisor.

5.4.1.2 Identify EFAT members in accordance with EP-002-130.

- A. When the EFAT is staffed, then notify the OSC Supervisor.

5.4.1.3 When the Field Monitoring Team drivers arrive in the OSC, then brief the drivers and dispatch them to the Backup OSC.

5.4.1.4 Establish OSC Facility Accountability as follows:

- A. Assign an individual to act as the OSC Main Entrance/Exit Accountability Watch.

1. Direct this person to verify all personnel leaving the OSC have been briefed.
2. Direct this person to ensure all personnel entering the OSC to perform a hands-and-feet frisk as required by posted instructions.
 - a. Report any contamination detected to the OSC Health Physics Liaison.

- B. Ensure all OSC personnel "card-in" on the Accountability Keycard Reader.

1. Minimize congestion in the area of the card reader by limiting the number of personnel carding in at one time.
2. Direct the OSC Maintenance Leads to have maintenance personnel "card-in" on the Accountability Keycard Reader one discipline at a time.
3. Direct the miscellaneous OSC response personnel to card in after the maintenance personnel.

- 5.4.1.5 Coordinate completion of OSC First Responders activities in accordance with Section 5.1 of this procedure.
 - A. When these activities are completed, then inform the OSC Supervisor.
 - 5.4.1.6 Assign one person from the Manpower Area as the TSC Accountability Coordinator.
 - A. Dispatch this individual to report to the TSC Supervisor in the TSC Emergency Control Center (ECC).
 - 5.4.1.7 If requested by the TSC, then assign one person from the Manpower Area as a runner between the TSC Dose Assessment Area and the ECC.
 - A. Dispatch this individual to report to the Health Physics Coordinator in the ECC.
 - 5.4.1.8 Consider designating an area in the OSC Manpower Area for miscellaneous personnel.
 - 5.1.4.9 Assist the OSC Supervisor in completing the activities in Section 5.3 as necessary.
- 5.4.2 Operation
- 5.4.2.1 Ensure the OSC status boards are updated.
 - A. Ensure the current priorities are displayed on the Priority Status Board.
 - 1. Coordinate with the OSC Supervisor Communicator.
 - B. Ensure the Maintenance Leads keep the OSC Repair Team Status Board current.
 - 1. Coordinate with the OSC Maintenance Leads.
 - C. Ensure Fire Brigade and EFAT assignees are listed on the Fire Brigade/First Aid Team status board.
 - D. Ensure the appropriate classification sign is posted in the OSC Command Room and the Manpower Area.
 - 5.4.2.2 Coordinate with the OSC Maintenance Leads to ensure the OSC Supervisor is kept informed of the status of emergency teams in the plant.
 - 5.4.2.3 Coordinate the development of an OSC watch bill (Attachment 7.3) with the OSC Maintenance Leads, RCC and the TSC Supervisor.
 - A. Coordinate the notification, and call out, of relief shifts with the OSC Leads and the RCC.
 - 5.4.2.4 Maintain a narrative facility log of the OSC Supervisor Assistant activities.
 - 5.4.2.5 Perform other activities as directed by the OSC Supervisor.

5.4.3 Deactivation

- 5.4.3.1 Assist in follow-up activities and evaluation of the event.
- 5.4.3.2 Collect all documentation generated during the emergency (logs, data sheets, briefing/debriefing sheets, scratch pads, etc.) and provide to the OSC Supervisor.
- 5.4.3.3 Assist in restoring the OSC facility and equipment to pre-emergency conditions.
- 5.4.3.4 Perform other tasks as directed by the OSC Supervisor.

5.5 OSC Maintenance Leads

NOTE

1. This section of the procedure provides generic guidance for the Electrical, I&C and Mechanical Leads.
2. Attachment 7.12 may be used as guidance during the performance of these activities.

5.5.1 Activation

NOTE

1. The Maintenance Leads may elect to separate personnel by discipline in the Manpower Area.
2. Maintenance Leads may assign Manpower Area Coordinators to assist in their duties.
3. When assigned, then the Manpower Area Coordinators man the telephone in the Manpower Area and coordinate staffing teams, briefing teams and other tasks requested by the Leads.

5.5.1.1 Assemble the maintenance personnel in the Manpower Area and report staffing levels to the OSC Supervisor.

5.5.1.2 Instruct Manpower Area personnel to "card-in" on the Accountability Keycard Reader at the direction of the OSC Supervisor Assistant.

5.5.2 Operation

5.5.2.1 Monitor the maintenance radio frequency.

A. Information received on the radio may assist in decisions regarding emergency team activities.

5.5.2.2 Dispatch emergency teams promptly as requested by the TSC in accordance with EP-002-130.

A. If the OSC becomes aware of a problem, or potential problem, then an emergency team may be assembled in anticipation of a request from the TSC.

B. Evaluate the need for a backup emergency team for each emergency team assigned.

1. Consider backup emergency teams for all priority tasks, any task requiring the use of respirators or any task where stay times may limit the team's activities.

2. If possible, then brief the backup emergency team at the same time as the primary team.

3. Ensure dispatch of the primary emergency team is not delayed while waiting for a backup team to be assigned.

C. If a team is requested to respond to the Emergency Operations Facility (EOF), then request the TSC Supervisor to coordinate EOF access with the EOF Administration/ Logistics Coordinator.

1. Provide the names and badge numbers of each team member to the TSC Supervisor.

- 5.5.2.3 Coordinate emergency team activities with the OSC Health Physics Liaison and the Security Superintendent.
- 5.5.2.4 Maintain a narrative facility log of emergency team activities.
 - A. Key items to document include:
 - 1. The time TSC requests a team.
 - 2. The time a team is dispatched from the OSC.
 - 3. Decisions made regarding emergency team activities.
 - 4. Problems encountered during emergency team activities.
- 5.5.2.5 Ensure the OSC Repair Team Status Board reflects the current status of emergency team activities.
 - A. Coordinate with the OSC Supervisor Assistant.
- 5.5.2.6 Update the OSC Supervisor on the status of emergency team activities frequently.
- 5.5.2.7 Call out additional maintenance personnel, as required, to support emergency team activities.
 - A. Coordinate with the OSC Supervisor Assistant.
- 5.5.2.8 Coordinate the staffing of relief shifts with the OSC Supervisor Assistant.
- 5.5.2.9 Perform other activities as directed by the OSC Supervisor.
- 5.5.3 Deactivation
 - 5.5.3.1 Assist in follow-up activities and evaluation of the event.
 - 5.5.3.2 Assist in, and provide teams for, recovery operations as directed by the OSC Supervisor.
 - 5.5.3.3 If the OSC is to be deactivated, then:
 - A. Recall and debrief any emergency teams in the field.
 - B. Collect documentation generated during the emergency, in your area, and provide to the OSC Supervisor.
 - 5.5.3.4 Assist in restoring the OSC facility and equipment to pre-emergency conditions.

NOTE

1. The OSC Information Technology Representative is not a required OSC position.
2. The OSC Information Technology Representative may be staffed to assist the OSC, as needed.

5.6 OSC Information Technology (IT) Representative

5.6.1 Activation

- 5.6.1.1 Report to the OSC Supervisor and discuss the need for additional Information Technology (IT) support.
- 5.6.1.2 Call out additional IT support, as required.

5.6.2 Operation

- 5.6.2.1 Coordinate troubleshooting and repair of telecommunications or computer application problems.
- 5.6.2.2 Obtain assistance from non-Entergy personnel (South Central Bell, AT&T, etc.) as required.
 - A. Coordinate access to the plant for non-Entergy personnel with the Security Superintendent, as required.
 - B. Coordinate Health Physics requirements for non-Entergy personnel with the OSC Health Physics Liaison, as required.
 1. Due to Health Physics requirements, it may be necessary to obtain plant maintenance personnel to assist in the troubleshooting and repair activities. Coordinate with the OSC Supervisor.
- 5.6.2.3 Ensure the OSC Supervisor is kept informed of the status of IT activities.
- 5.6.2.4 Ensure personnel assisting in the troubleshooting and repair activities are continuously accounted for in accordance with EP-002-190.
- 5.6.2.5 Maintain a narrative facility log to document the activities of the IT Representative.
- 5.6.2.6 Perform other activities as directed by the OSC Supervisor.

5.6.3 Deactivation

- 5.6.3.1 Assist in follow-up activities and evaluation of the event.
- 5.6.3.2 Collect documentation generated during the emergency and provide to the OSC Supervisor.
- 5.6.3.3 Assist in restoring the OSC facility and equipment to pre-emergency conditions.

5.7 OSC Supervisor Communicator

5.7.1 Activation

- 5.7.1.1 Man the OSC Supervisor/TSC Supervisor Hotline and the OSC Supervisor's telephone in the OSC Command Room.
- 5.7.1.2 Establish communications with the TSC Supervisor, or TSC Supervisor Communicator.
- 5.7.1.3 Intiate a narrative facility log of overall OSC activities.

5.7.2 Operation

- 5.7.2.1 Maintain communications with the TSC Supervisor, or TSC Supervisor Communicator.
 - A. Keep the TSC updated on the status of OSC emergency team activities.
 - B. Request updates of priorities and goals established by the TSC.
 - C. Request updates on plant conditions.
 - D. Ensure the OSC Supervisor is promptly informed of requests for emergency teams, or other assistance.
- 5.7.2.2 Maintain a narrative facility log to document overall OSC activities in accordance with EP-002-150.
 - A. An Emergency Telephone/Radio log may be used to document communications with the TSC and other facilities.
- 5.7.2.3 Ensure the OSC Supervisor is informed of changes in plant conditions, priorities and goals.
- 5.7.2.4 Perform other tasks as directed by the OSC Supervisor.

5.7.3 Deactivation

- 5.7.3.1 Assist in follow-up activities and evaluation of the event.
- 5.7.3.2 Collect all documentation generated during the emergency and provide to the OSC Supervisor.
- 5.7.2.3 Assist in restoring the OSC facility and equipment to pre-emergency conditions.

5.8 Emergency Response Team Leader

5.8.1 Activation

5.8.1.1 When team assignments are made, then report to the appropriate Maintenance Lead in the OSC Command Room for a briefing in accordance with EP-002-130.

- A. Ensure the team understands the task to be performed and the priority of the task.
- B. Ensure the team understands the routing instructions and any radiological precautions associated with the task.
- C. Ensure that team personnel have adequate Security clearance to perform the task and that Security support is arranged in advance as needed.

5.8.1.2 When the team has been briefed, then assemble the appropriate equipment, procedures and drawings necessary to perform the task.

5.8.1.3 Promptly respond to the assigned area.

- A. Perform a radio check prior to leaving the OSC to verify the operation of the radio.

5.8.2 Operation

5.8.2.1 Conduct emergency team operations in accordance with the appropriate procedures and direction from the Maintenance Lead.

5.8.2.2 Maintain communications with the OSC while in the field.

- A. Continuous accountability is maintained through communications with the OSC at pre-designated frequencies.

- 1. Frequently communicate team location, status of assigned task and any off-normal conditions observed within the plant.

- B. Immediately inform the OSC of any situations encountered which may delay completion of the assigned task.

5.8.2.3 Request additional assistance (backup team, Operations support, Security Support, etc.) as required.

5.8.2.4 If the team is assigned additional tasks while in the field, then document the new instructions in the "TASK ASSIGNED" section of the Emergency Team Briefing Sheet.

5.8.2.5 Report completion of the assigned task to the OSC and request further instructions.

- A. Request routing instructions for returning to the OSC. (Radiological conditions may have changed since the initial briefing which may effect the routing back to the OSC.)

5.8.3 Deactivation

5.8.3.1 Return to the OSC at the direction of the Maintenance Lead.

- A. Teams that have been in a Controlled Access Area are debriefed by the RCC at the -4 Control Point.
- B. Debrief with the OSC Maintenance Lead.
 - 1. Provide all documentation (Briefing sheets, debriefing sheets, work packages, etc.) to the Maintenance Lead.

5.8.3.2 Restore equipment to proper storage locations and report any equipment deficiencies to the Maintenance Lead.

5.8.3.3 Report to the appropriate Manpower Area and await further instructions.

5.9 Radiological Controls Coordinator (RCC)

NOTE

Attachment 7.13 may be used during performance of these activities.

5.9.1 Activation

- 5.9.1.1 Discuss the status of Health Physics activities and current plant radiological levels with the shift Health Physics personnel.
- 5.9.1.2 Determine the status of staffing the -4 Control Point.
 - A. Number of Health Physics technicians.
 - B. Number of Radwaste personnel.
- 5.9.1.3 Dispatch a Health Physics Technician to the OSC Command Room to serve as OSC Health Physics Liaison.
 - A. An individual should be dispatched to serve as the OSC Health Physics Liaison Assistant.
 - 1. This person does not need to be health physics qualified (Radwaste personnel are preferred).
 - 2. If after normal working hours, then a Radwaste worker may need to be called in to provide assistance to the OSC Health Physics Liaison.
- 5.9.1.4 Contact the Health Physics Coordinator (HPC) and discuss the following:
 - A. Current plant conditions and emergency status.
 - B. Current staffing levels of the -4 Control Point.
 - C. Health Physics manpower needed to support present and projected emergency activities.
 - D. Goals and priorities.
 - E. Status of maintenance and Operations activities in progress.
 - F. Status of radiological conditions in the plant.
- 5.9.1.5 Call out additional personnel to supplement the -4 Control Point staffing as needed.

NOTE

EFAT staffing activities may be performed by the RCC.

- 5.9.1.6 Coordinate the staffing of the Emergency First Aid Team (EFAT) in accordance with EP-002-130.
 - A. Communicate names and badge numbers of the EFAT members to the OSC Supervisor and TSC Lead Communicator.
 - B. Brief EFAT members in accordance with EP-002-130.
- 5.9.1.7 Establish -4 Control Point Facility Accountability as follows:
 - A. Ensure all essential personnel at the -4 Control Point card-in on the Accountability Keycard Reader.
 - B. Ensure all -4 Control Point personnel are briefed prior to leaving the area.
- 5.9.1.8 Arrange for emergency access for -4 Control Point and Chemistry personnel by completing Attachment 7.5 as needed.
 - A. Request emergency access only for personnel whose normal access would prevent them from responding to emergency situations.
 - B. Transmit the completed Attachment 7.5 to the PAP.
- 5.9.1.9 Assign an individual to serve as the RCC Communicator.
 - A. The RCC Communicator mans the telephone in the -4 Control Point Office and maintains communications with the HPC and the OSC Health Physics Liaison.
- 5.9.1.10 Monitor the Radiation Monitoring System readings to track changes in plant radiation levels.
- 5.9.1.11 Assign personnel to staff the Radiological Field Monitoring Teams in accordance with EP-002-060.
 - A. Normally three teams are assigned consisting of a Field Team Driver and a Health Physics technician.

5.9.2 Operation

NOTE

Attachment 7.7 is provided as a guide for briefing the relieving RCC during a shift change. Both parties sign the checklist to document the turnover of RCC duties.

- 5.9.2.1 Conduct in-plant and onsite surveys and maintain radiological controls in accordance with applicable Health Physics procedures, EP-002-031 and EP-002-034.
- 5.9.2.2 Provide Health Physics support for decontamination operations in accordance with applicable Health Physics procedures and EP-002-032.
- 5.9.2.3 Maintain communications with the HPC.
 - A. Keep the HPC informed of in-plant radiological conditions.
 - B. Keep the HPC informed of changes in effluent radiation monitor readings.
 - C. Ensure the HPC keeps the RCC informed of priorities and goals.
 - D. Ensure the HPC keeps the RCC informed of meteorological conditions (especially wind direction).
- 5.9.2.4 Maintain communications with the OSC Health Physics Liaison.
 - A. Keep the OSC Health Physics Liaison updated on changing radiological conditions, especially areas where access is restricted.
 - B. Keep the OSC Health Physics Liaison updated regarding routing instructions for OSC emergency teams.
 - C. Ensure the OSC Health Physics Liaison keeps the RCC informed of OSC emergency team activities.
 - D. Ensure the OSC Health Physics Liaison conducts habitability surveys in the OSC in accordance with EP-002-034.
 - 1. If radiation levels are greater than or equal to 100 mrem/hr, or airborne concentration levels are greater than or equal to 10 DAC, and there is no indication these levels will significantly decrease during the next four hours, then consider evacuating the OSC
 - 2. Accumulated doses to personnel must also be taken into account.
 - a. If 10CFR20 limits (see EP-002-030) are approached and there is no indication that conditions will improve before limits are exceeded, then consider evacuating the OSC.
 - 3. If radiation levels are greater than or equal 500 mrem/hr or airborne concentrations are greater than or equal 100 DAC, then evacuate the OSC.

- 5.9.2.5 Provide Health Physics coverage for emergency response teams as necessary.
- A. Ensure emergency teams entering a Controlled Access Area (CAA) are briefed in accordance with EP-002-130.
 - 1. Document the radiological requirements by completing the applicable sections of the Emergency Team Briefing Sheet.
 - B. When a Health Physics technician is assigned to accompany an emergency team, then add the technician's name to the team's Emergency Team Briefing sheet.
 - 1. The technician becomes part of the team and continuous accountability is tracked by the OSC.
 - C. If Health Physics support is requested at the EOF, then request the HPC to coordinate access to the EOF with the TSC Supervisor.
 - 1. Provide the technician(s) name(s) and badge number(s) to the HPC.
 - D. Debrief emergency teams and complete the applicable section of the Emergency Team Debriefing Sheet, as required, upon exiting the CAA.
- 5.9.2.6 Provide Health Physics support for the Fire Brigade and Emergency First Aid Team (EFAT).
- A. Provide initial Health Physics coverage for the Fire Brigade or EFAT when dispatched, as appropriate.
- 5.9.2.7 Dispatch the Radiological Field Monitoring Teams in accordance with EP-002-060.
- 5.9.2.8 Consider requesting personnel from the OSC to assist in processing emergency teams (staging respirators, laying out PCs, etc.).
- 5.9.2.9 Provide a Health Physics technician to respond to the offsite assembly area at a site evacuation.
- A. Coordinate with the HPC to determine the need for a Health Physics technician at the assembly area.
- 5.9.2.10 Maintain a log of -4 Control Point activities in accordance with EP-002-150.
- 5.9.2.11 Coordinate development of a watch bill for extended operations with the HPC and OSC Supervisor Assistant.

5.9.3 Deactivation

- 5.9.3.1 Assist in follow-up activities and evaluation of the event.
- 5.9.3.2 Ensure affected plant and offsite areas are surveyed for radioactive contamination and cleared, or appropriate controls established and corrective actions taken.
- 5.9.3.3 Assist in recovery operations as directed.
- 5.9.3.4 When the -4 Control Point is deactivated, then collect all documentation (survey forms, data sheets, logs, etc.) and forward to the Emergency Planning Department.
- 5.9.3.5 Restore the -4 facility and equipment to pre-emergency conditions.
- 5.9.3.6 Inventory emergency equipment in accordance with EP-003-040.

5.10 OSC Health Physics Liaison

NOTE

1. Attachment 7.14 may be used during the performance of these activities.
2. The OSC Health Physics Liaison Assistant assists the OSC Health Physics Liaison in the performance of these activities.

5.10.1 Activation

5.10.1.1 Discuss status of emergency team activities with the OSC Supervisor.

5.10.1.2 Immediately establish OSC radiological controls and habitability.

- A. Ensure the step off pad is set up at the OSC frisking station.
- B. Place a second frisker at the OSC frisking station.
- C. Source check the friskers.
- D. Change the signs at the frisking station to FRISKING REQUIRED, as warranted.
- E. Place the constant particulate airborne monitor in service.
- F. Perform an initial habitability survey.
 1. Conduct a radiation level and contamination survey.
 2. Evaluate the need for an air sample.
- G. Coordinate issuance of SRDs to OSC personnel with the OSC Leads and OSC Supervisor Assistant.

5.10.1.3 When OSC radiological controls are established and initial habitability surveys are completed, then notify the OSC Supervisor.

5.10.1.4 Establish communications with the RCC and discuss the following:

- A. Current plant radiological conditions, especially areas where access is restricted.
- B. Routing Instructions for OSC emergency teams.
- C. Status of OSC habitability surveys.
 1. The need and frequency for additional habitability surveys.
- D. Status of OSC emergency teams.

5.10.1.5 If -4 Control Point resources are not sufficient to provide an OSC Health Physics Liaison Assistant, then request the OSC Supervisor to assign an individual to man the telephones and help keep the radiological status board updated.

5.10.2 Operation

- 5.10.2.1 Maintain communications with the -4 Control Point.
 - A. Keep informed of changing radiological conditions in the plant, including areas posted due to high radiological levels.
 - B. Coordinate the following emergency team activities with the RCC:
 - 1. Actual location of the assigned task.
 - 2. Routing to the plant.
 - 3. The need for respiratory protection.
 - 4. Protective clothing and dosimetry requirements.
 - 5. Priority assigned to the team.
 - 6. Radiation levels in the area of the assigned task.
 - 7. The need for a Health Physics technician to accompany the team.
 - 8. Other radiological precautions.
 - C. Frequently update the RCC on the status of OSC habitability.
- 5.10.2.2 Participate in emergency team briefings and complete the applicable portions of the Emergency Team Briefing Sheet.
- 5.10.2.3 Inform the OSC Supervisor and OSC Maintenance Leads of changing radiological conditions.
- 5.10.2.4 Maintain a narrative facility log in accordance with EP-002-150.
- 5.10.2.5 Maintain continuous OSC habitability.
 - A. Perform periodic radiation surveys, air sampling and contamination surveys.
 - B. Coordinate desired frequency of surveys with the RCC.
- 5.10.2.6 Maintain the OSC Radiological Status Boards.
- 5.10.2.7 Perform other duties as directed by the OSC Supervisor or the RCC.

5.10.3 Deactivation

- 5.10.3.1 Collect all documentation (logs, survey forms, data sheets, etc.) generated during the emergency and provide to the OSC Supervisor.
- 5.10.3.2 Assist in restoring the OSC facility and equipment to pre-emergency conditions.
- 5.10.3.3 Report to the RCC and assist in follow-up activities and evaluation of the event.
- 5.10.3.4 Perform other tasks as directed by the RCC.

6.0 FINAL CONDITIONS

- 6.1 Collect all documentation generated during the operation of the OSC and forward to Emergency Planning.
- 6.2 Restore all functional equipment and supplies to pre-activation conditions, as appropriate.
- 6.3 EP-002-170 has been implemented for OSC activities as appropriate.
- 6.4 The entire OSC staff is relieved of all duties associated with the operation of the OSC.
- 6.5 Returning field monitoring team vehicles and personnel are surveyed in accordance with EP-002-060.

7.0 ATTACHMENTS

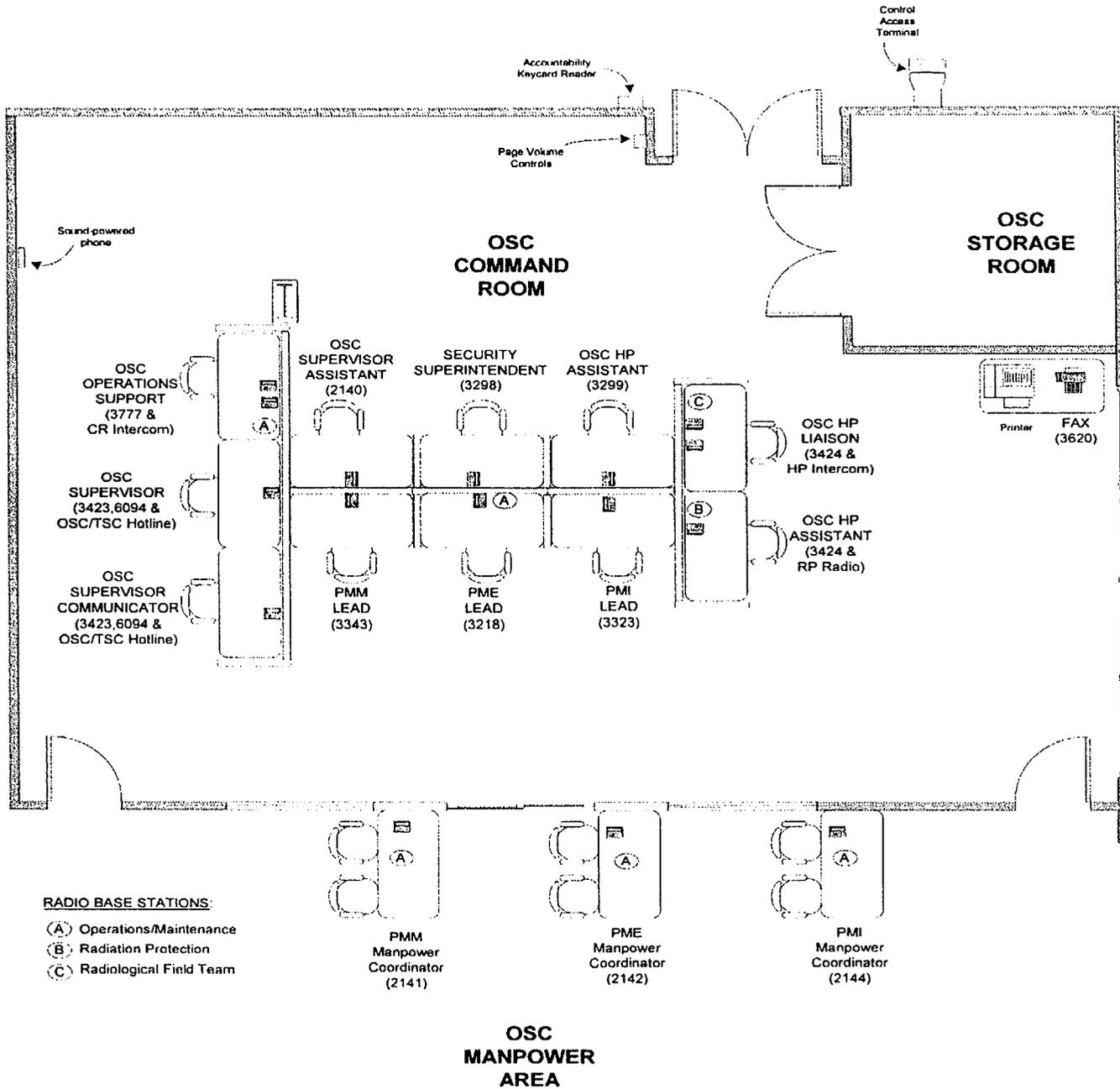
- 7.1 OSC Floor Plan and Equipment Locations
- 7.2 Backup OSC Activation
- 7.3 OSC Watch Bill Form
- 7.4 Offsite Staging of Support/Relief Personnel
- 7.5 Emergency Access Authorization Form
- 7.6 OSC Supervisor Shift Turnover Checklist
- 7.7 RCC Shift Turnover Checklist
- 7.8 Maintenance Support Building (MSB) First Floor
- 7.9 OSC First Responder Checklist
- 7.10 OSC Supervisor Activation/Operation Checklist
- 7.11 OSC Supervisor Assistant Activation/Operation Checklist
- 7.12 OSC Maintenance Lead Activation/Operation Checklist
- 7.13 RCC Activation/Operation Checklist
- 7.14 OSC Health Physics Liaison Activation/Operation Checklist
- 7.15 Assembly Area Supervisor Radio Switch Positions
- 7.16 OSC Personnel Dosimetry Log

8.0 RECORDS

8.1 The following records are generated as a result of this procedure:

- Attachment 7.3, OSC Watch Bill Form
- Attachment 7.5, Emergency Access Authorization Form
- Attachment 7.6, OSC Supervisor Shift Turnover Checklist
- Attachment 7.7, RCC Shift Turnover Checklist
- Attachment 7.9, OSC First Responder Checklist
- Attachment 7.10, OSC Supervisor Activation/Operation Checklist
- Attachment 7.11, OSC Supervisor Assistant Activation/Operation Checklist
- Attachment 7.12, OSC Maintenance Lead Activation/Operation Checklist
- Attachment 7.13, RCC Activation/Operation Checklist
- Attachment 7.14, OSC Health Physics Activation/Operation Checklist
- Attachment 7.16, OSC Personnel Dosimetry Log

OSC FLOORPLAN AND EQUIPMENT LOCATIONS



BACKUP OSC ACTIVATION

The Backup OSC is located in the Administration Building Meeting Room.

This Attachment is implemented under the following conditions:

- 1.) The OSC is inaccessible.
- 2.) The habitability of the OSC deteriorates, requiring evacuation.
- 3.) The Emergency Coordinator directs use of Backup OSC.

Use of the Backup OSC is caused by abnormal conditions. This Attachment is considered guidance and followed as common sense and good judgment dictates.

If the Backup OSC is also inaccessible or habitability deteriorates requiring evacuation, then consider the use of other site buildings, including the Generation Support Building and the Skills Training Center. Keys to these two buildings are provided in the OSC and Backup OSC.

BACKUP OSC ACTIVATION (CONT'D.)

A. ACTIVATION OF THE BACKUP OSC FROM THE OSC DUE TO DETERIORATING CONDITIONS.

1. Advise the TSC Supervisor of the relocation to the Backup OSC.
2. Brief the OSC personnel and assign individuals to transport key pieces of equipment to the Backup OSC.
 - 2.1 Relocate the following equipment, as a minimum, to the Backup OSC.
 - a.) All Completed documentation
 - b.) Onsite Monitoring Kit
 - c.) Radiological Instrumentation
 - d.) Portable Radios
 - e.) Radiological Emergency Records
 - 2.2 Some of the above items may be already in the field or in use.

NOTE

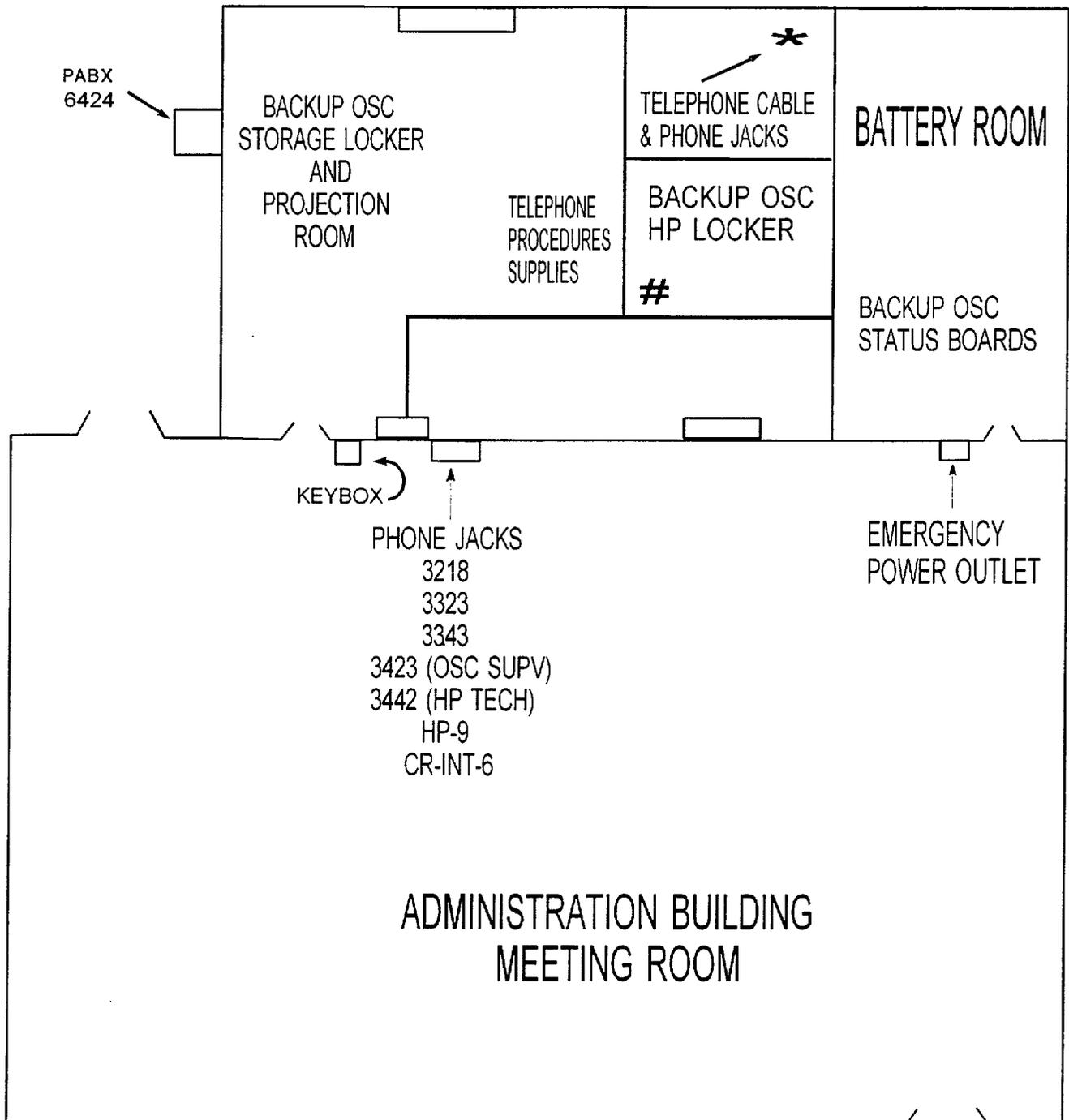
The keys for the Backup OSC are located in the OSC Emergency Locker and in the Backup OSC keybox.

3. Select and dispatch a team of OSC personnel to the Backup OSC to:
 - a.) Unlock the Backup OSC
 - b.) Setup communication systems
 - c.) Establish communications with the OSC
 - d.) Verify communications with any Emergency Teams in the field.
 - e.) Remove status boards from the Battery Room and place them in the Meeting Room.
4. Transfer control Emergency Team(s) in the field to the Backup OSC and provide a new contact phone number in the Backup OSC.
5. Coordinate the transfer of personnel and equipment to the Backup OSC.
6. Ensure that continuous accountability in accordance with EP-002-190 is performed.
7. When all OSC personnel, command and control, and communications are established in the Backup OSC, then update the TSC Supervisor as to the current OSC status.
8. Follow applicable procedures, ensuring adjustments are made for use of the Backup OSC.

BACKUP OSC ACTIVATION (CONT'D.)

- B. ACTIVATION OF THE BACKUP OSC WITHOUT INITIAL PRIMARY OSC ACTIVATION.
1. Gain access to the Meeting Room and the Projection Room within the Meeting Room. Keys are maintained within the OSC Emergency Locker and in the Backup OSC Keybox.
 2. Setup available equipment.
 3. Evaluate and if possible dispatch personnel to the OSC to retrieve at a minimum the following equipment.
 - a.) Radiological instrumentation
 4. Establish communication and advise the TSC Supervisor as to the OSC availability.
 5. Follow applicable procedures, ensuring that adjustments are made for use of the Backup OSC.

BACKUP OSC



FIELD MONITORING KITS ARE STORED UNDER SHELF

OSC WATCH BILL FORM

NOTE

Use the attached sheets as a guide on setting up continuous OSC operations. Continuous staffing may be provided on a three shift rotation as indicated. The Emergency Coordinator, or designee, designates the staffing of positions for each shift and the time for shift changes (for example, two shift as opposed to three shift rotation).

The OSC Supervisor Assistant normally coordinates relief shift assignments with the OSC Maintenance Leads, the RCC and the TSC Supervisor. Enter the names of personnel assigned to each shift in the appropriate blanks and the period for the schedule in the space at the top of each page. The Emergency Coordinator, or designee, approves all schedules. When approved, then the schedules are posted in an appropriate area and copies distributed to affected personnel.

The OSC Supervisor Assistant coordinates notifying relief shift personnel with the Maintenance Leads and the RCC. The Emergency Management Resources Book may be used as a reference.

OSC WATCH BILL FORM (CONT'D.)

PERIOD OF THIS SCHEDULE:

From:

To:

Date: ___/___/___

Date: ___/___/___

Time: _____

Time: _____

Emergency Coordinator

OSC SUPERVISOR

0800-1630: _____

1600-0030: _____

0000-0830: _____

RADIOLOGICAL CONTROLS COORDINATOR

0800-1630: _____

1600-0030: _____

0000-0830: _____

OSC SUPERVISOR ASSISTANT

0800-1630: _____

1600-0030: _____

0000-0830: _____

OSC HEALTH PHYSICS LIAISON

0800-1630: _____

1600-0030: _____

0000-0830: _____

OSC SUPERVISOR COMMUNICATOR

0800-1630: _____

1600-0030: _____

0000-0830: _____

OSC ELECTRICAL LEAD

0800-1630: _____

1600-0030: _____

0000-0830: _____

OSC I&C LEAD

0800-1630: _____

1600-0030: _____

0000-0830: _____

OSC MECHANICAL LEAD

0800-1630: _____

1600-0030: _____

0000-0830: _____

IT REPRESENTATIVE (AS NEEDED)

0800-1630: _____

1600-0030: _____

0000-0830: _____

ASSEMBLY AREA SUPERVISOR

0800-1630: _____

1600-0030: _____

0000-0830: _____

OSC WATCH BILL FORM (CONT'D.)

PERIOD OF THIS SCHEDULE:

From:

To:

Date: ___/___/___

Date: ___/___/___

Time: _____

Time: _____

Emergency Coordinator

ELECTRICAL TECHNICIANS

I&C TECHNICIANS

0800-1630: _____

1600-0030: _____

0000-0830: _____

0800-1630: _____

1600-0030: _____

0000-0830: _____

MECHANICAL TECHNICIANS

OTHER OSC SUPPORT PERSONNEL

0800-1630: _____

1600-0030: _____

0000-0830: _____

0800-1630: _____

1600-0030: _____

0000-0830: _____

FIELD TEAM DRIVERS

0800-1630: _____

1600-0030: _____

0000-0830: _____

OFFSITE STAGING OF SUPPORT/RELIEF PERSONNEL

The following guidance addresses the staging of personnel and subsequent access to the plant site during an ongoing emergency situation.

NOTE

St. Charles Parish takes no responsibility for personnel entering a Parish Restricted Area.

A. Parish Road Block Access

1. Any Company employee with a valid drivers license and a St. Charles Parish Emergency Access Card is allowed access to the Parish Restricted Area.
2. Personnel described in A.1 above may escort personnel into the Parish Restricted Area.
3. Arrangements for employee access are made through the St. Charles Parish Emergency Operations Center (EOC) on a case by case basis.

B. Parish Restricted Area Access Considerations

1. St. Charles Parish takes no responsibility for personnel entering a Parish Restricted Area. Therefore it is important that a safe route is established for the employee to use through the Parish Restricted Area and the appropriate access point is selected.
2. Evaluate the situation and coordinate with the St. Charles Parish EOC to determine the appropriate point of access to the Parish Restricted Area.
3. Provide the responding individuals with detailed information for accessing the Parish Restricted Area. Instructions include, but are not limited to:
 - a. Recommended route to the selected access to the Parish Restricted Area.
 - b. Parish Restricted Area access point.
 - c. Recommended route to the plant from the Parish Restricted Area access point.
 - d. Plant site access point.
 - e. Site phone number to call for additional information.
 - f. Description of hazards within the Parish Restricted Area.
4. If the situation changes, then advise the St. Charles Parish EOC to stop personnel at the designated road block and re-direct them to the new access point.
5. Advise W3 Security of the pending arrival of personnel by name.
6. If access is from upriver, then coordinate with St. John the Baptist EOC.

OFFSITE STAGING OF SUPPORT/RELIEF PERSONNEL (CONT'D)

C. Long Term Considerations

1. Use Luling or Reserve Entergy offices or other appropriate location, as a staging point for responding personnel.
 - a. Staging Area Kits are provided at each of the Entergy offices.
 - b. The kits include procedures and supplies for use of emergency personnel.
2. Consider using the Assembly Area Supervisor as the coordinator for this staging area.
3. Access to the Luling or Reserve Entergy Offices can be obtained through the EOF Entergy System Liaison.
4. Consideration should be made to minimize the number of vehicles traveling to and from the plant site. The use of car pools, company vans and commercial buses should be considered.

EMERGENCY ACCESS AUTHORIZATION FORM

Page ____ of ____

THE FOLLOWING PERSONNEL ARE AUTHORIZED FOR EMERGENCY ACCESS:

	NAME	BADGE NUMBER
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____
13.	_____	_____
14.	_____	_____
15.	_____	_____
16.	_____	_____
17.	_____	_____
18.	_____	_____
19.	_____	_____
20.	_____	_____
21.	_____	_____
22.	_____	_____
23.	_____	_____
24.	_____	_____
25.	_____	_____

Security Superintendent:

Ensure RCC is notified when
access changes are completed
for the above personnel.

OSC SUPERVISOR/RADIOLOGICAL CONTROLS COORDINATOR

OSC SUPERVISOR SHIFT TURNOVER CHECKLIST (CONT'D.)

g. Repair Teams: _____

h. Additional Manpower Required: _____

4. Radiological Conditions/Precautions:

a. Release Status: _____

b. Special Emergency Team Routing Required? _____

c. High Radiation/Contaminated Areas Identified Onsite?

OSC SUPERVISOR SHIFT TURNOVER CHECKLIST (CONT'D.)

5. MAJOR GOALS ESTABLISHED (REPAIR PRIORITIES, ETC.):

6. ADDITIONAL COMMENTS: _____

OFF-GOING OSC SUPERVISOR: _____

Signature

ON-COMING OSC SUPERVISOR: _____

Signature

TIME/DATE: _____ / _____

RCC SHIFT TURNOVER CHECKLIST

REVIEW THE FOLLOWING WITH THE RELIEVING RCC:

1. EMERGENCY CLASSIFICATION: UE _____ ALERT _____ SAE _____ GE _____

2. REACTOR STATUS:

a. % Power: _____

b. Reactor Tripped? _____ Date/Time: _____ / _____

c. RCS Integrity:

1) Cladding Barrier Failure? _____

2) Primary System: _____

3) Containment: _____

3. RADIOLOGICAL CONDITIONS/PRECAUTIONS:

a. Release Status: _____

b. RMS Status (Monitors in Alarm, Monitors Out of Service, etc.):

RCC SHIFT TURNOVER CHECKLIST (CONT'D.)

c. Latest Survey Results:

d. Radiological Controls Established For The Following Areas:

4. MAJOR HEALTH PHYSICS ACTIVITIES IN PROGRESS (Personnel in CAA, Surveys in Progress, Emergency Team Support, etc.):

5. STATUS OF HEALTH PHYSICS STAFFING:

- a. First Responder Assigned? _____
- b. OSC HP Liaison Assigned? _____
- c. Additional HP Technicians Required? _____

RCC SHIFT TURNOVER CHECKLIST (CONT'D.)

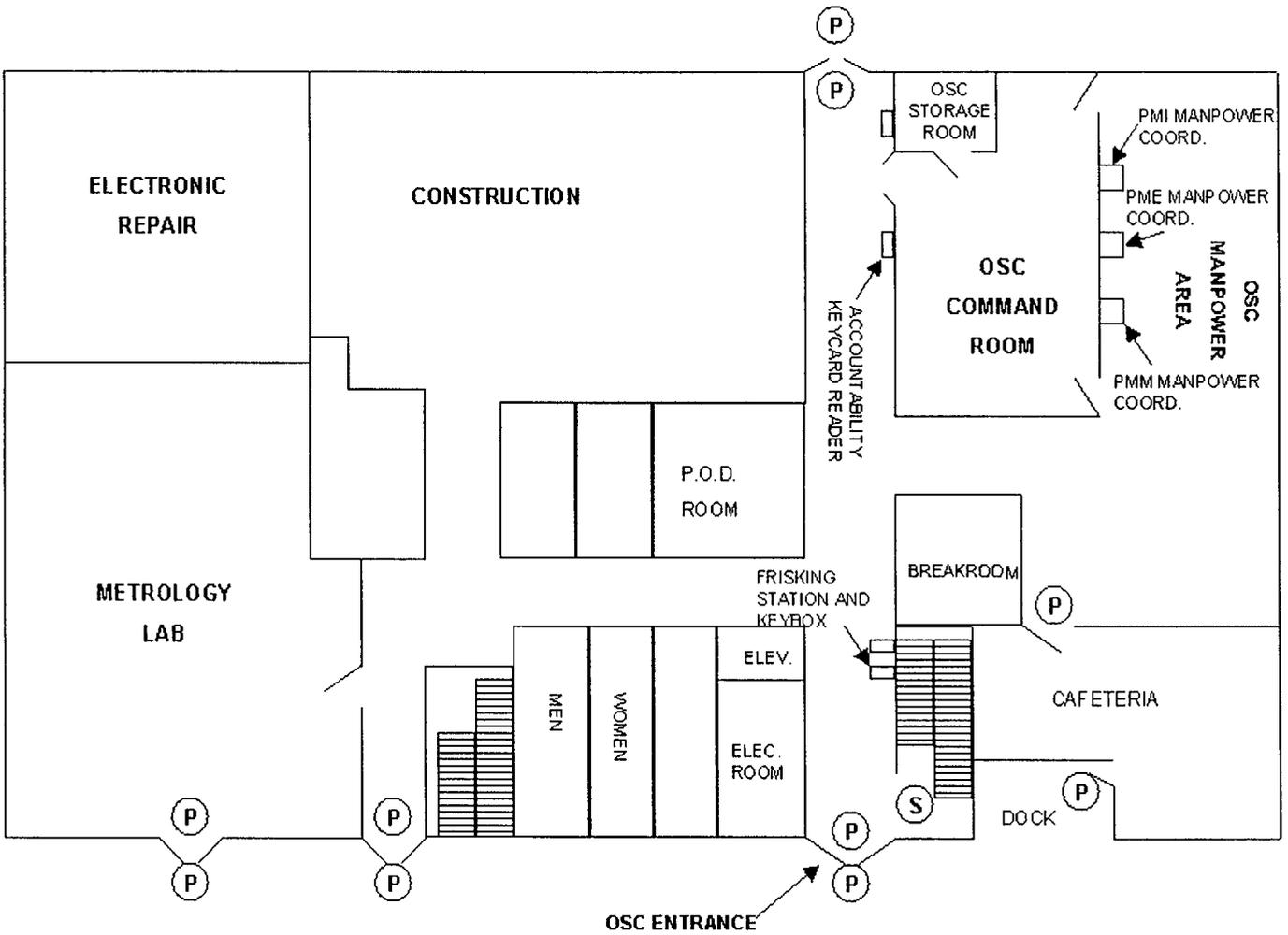
6. ADDITIONAL COMMENTS: _____

OFF-GOING RCC: _____
Signature

ON-COMING RCC: _____
Signature

TIME/DATE: _____ / _____

MAINTENANCE SUPPORT BUILDING (MSB)
FIRST FLOOR



- (P) - POSTED ACCESS DOOR
- (S) - POSTED STAIRWELL SIGN. POSTED ON ALL 3 FLOORS.

OSC FIRST RESPONDER CHECKLIST

The first person responding to the OSC initiates the actions on this checklist. When additional personnel respond, then delegate sections of the checklist to be completed.

1. Obtain the key from the OSC key box and unlock the following doors.
 - Cafeteria double doors. (After using key, then doors remain unlocked)
 - OSC Command Room north west double doors. (After using key, then doors remain unlocked)
 - OSC Command Room north east door. (After using key, then operate latch inside door facing.)
 - OSC Command Room south east door. (After using key, then operate latch inside door facing.)
 - OSC Storage Room door. (After using key, then operate latch inside door facing.)
2. Return the OSC master key to the OSC key box.
3. Remove the Manpower Area Coordinator boxes from the OSC Storage Room and set up the Manpower Area Coordinator stations.
 - a. PMM Manpower Area Coordinator station:
 - Table set up.
 - Telephone installed and tested. (Plug into WHITE jack.)
 - Radio base station installed and tested. (Plug into Blue jack.)
 - b. PME Manpower Area Coordinator station:
 - Table set up.
 - Telephone installed and tested. (Plug into WHITE jack.)
 - Radio base station installed and tested. (Plug into Blue jack.)
 - c. PMI Manpower Area Coordinator station:
 - Table set up.
 - Telephone installed and tested. (Plug into WHITE jack.)
 - Radio base station installed and tested. (Plug into Blue jack.)

OSC FIRST RESPONDER CHECKLIST (CONT'D.)

- 4. Roll the radio cart from the OSC Storage Room into the OSC Manpower Area.
- Plug in the radio power strip and verify the charger lights are lit.
- Test the operation of the portable radios.
- 5. Post the OSC Access Control door signs in accordance with Attachment 7.8. (Signs are in holders mounted on the doors. Post the signs by placing the OSC sign in the front.)
 - Inside of door between the OSC Manpower Area and cafeteria kitchen area.
 - Outside of door leading from the cafeteria loading dock.
 - Both sides of door by southeast MSB stairway, OSC Entrance Door.
 - Both sides of door by southwest MSB stairway, entrance to hallway.
 - Both sides of door in the southwest corner of the MSB, entrance to the Met Lab.
 - Both sides of Door on the North side of the MSB by Control Access Terminal. (This door is always in lock mode. If door is not held open when changing signs, then you will have to walk around building to get back in.)
- 6. Post the OSC stairway access barriers in accordance with Attachment 7.8. (Barriers are stored on the inside of the OSC Storage Room door.)
 - South east stairway, 1st Floor. (This sign has instructions on both sides)
 - South east stairway, 2nd Floor.
 - South east stairway, 3rd Floor.

OSC FIRST RESPONDER CHECKLIST (CONT'D.)

- 7. Place the Step-Off-Pad by the OSC frisking station. (Step-off-pads are stored in OSC Storage Room.)
- 8. Place the Constant Particulate Airborne Monitor in the MSB hallway. (Monitor is stored in the OSC Storage Room.)
- 9. Place the box of OSC electronic dosimeters on the shelf of the Control Access Terminal. (Electronic dosimeters are stored in the OSC Storage Room.)
- 10. Roll the OSC drawing cart from the 2nd Floor MSB Library into the OSC.
- 11. Adjust the page speaker volume so the system can be heard throughout the OSC. (Volume controls are in the OSC Command Room by the northwest doors. Dial code 53 to test paging volume.)
- 12. Unlock the planner PC cabinet in the Manpower Area with the key from the OSC Storage Room. (Planner PC Cabinet is key #1)
- 13. OSC clocks synchronized.
 - OSC Command Room clock. (Atomic clock, no adjustment necessary.)
 - OSC Manpower Area clock. (Atomic clock, no adjustment necessary.)
 - OSC FAX Machine. (See instructions posted by FAX machine.)
- 14. Post the appropriate classification sign in the OSC Command Room and the Manpower Area. (Post signs by placing current classification in front.)
 - OSC Command Room posted.
 - OSC Manpower Area posted.
- 15. Unlock the sliding window between the OSC Command Room and the Manpower Area.
- 16. When all items on this checklist are complete, then inform the OSC Supervisor Assistant that the OSC is set up.

OSC SUPERVISOR ACTIVATION/OPERATION CHECKLIST

ACTIVATION:

- 1. Ensure First Responder activities are being completed in a timely manner. (Step 5.3.1.1)
- 2. Discuss emergency status, goals and priorities, OSC staffing requirements and status of maintenance activities in the plant with the TSC Supervisor, or Control Room. (Step 5.3.1.2)

NOTE

Minimum staffing to declare OSC activated includes the OSC Supervisor, or OSC Supervisor Assistant, and at least two maintenance technicians from each discipline.

- 3. Determine the status of OSC staffing. (Step 5.3.1.3)
 - Maintenance technicians.
 - OSC Supervisor Assistant.
 - OSC Supervisor Communicator.
 - OSC Electrical Lead.
 - OSC I&C Lead.
 - OSC Mechanical Lead.
 - Assembly Area Supervisor (Staged in Backup OSC).
 - Operations Support.
- 4. When sufficient manpower is available to support the emergency conditions, then declare the OSC activated and announce the activation using the plant page system. (Step 5.3.1.4)
- 5. Call out additional personnel, as required. (Step 5.3.1.5)
- 6. Establish communications with the RCC. (Step 5.3.1.6)
 - Ensure the Health Physics Liaison has been dispatched.
 - Discuss current radiological conditions.
- 7. Ensure the OSC Supervisor Assistant establishes OSC Accountability. (Step 5.3.1.7)
- 8. Ensure the OSC Supervisor Communicator establishes and maintains communications with the TSC. (Step 5.3.1.8)
- 9. Make arrangements for personnel from the Tool Room, Document Control, Warehouse, Maintenance Planners, IT Representative (Contact numbers for IT are in Section IV of the Emergency Management Resources Book) and crafts (scaffold erection) are designated to respond to the OSC in the event of an evacuation, as needed. (Step 5.3.1.9)

OSC SUPERVISOR ACTIVATION/OPERATION CHECKLIST (CONT'D.)

OPERATION:

NOTE

Check boxes are not provided for this section of the checklist, since most of the tasks are repeated throughout the emergency.

1. Update OSC Personnel on emergency conditions, radiological conditions and priorities, using the OSC Building Page System, at regular intervals or as conditions change. (Step 5.3.2.1)
2. Dispatch emergency teams promptly as requested by the TSC. (Step 5.3.2.2)
3. When notified the EFAT is staffed, then notify the TSC Supervisor. (Step 5.3.2.3)
4. When notified the Fire Brigade is staffed, then notify the TSC Supervisor. (Step 5.3.2.4)
5. Ensure radiological controls are established in the OSC and habitability is continually assessed by the OSC Health Physics Liaison. (Step 5.3.2.5)
6. Coordinate the activities of the Assembly Area Supervisor. (Step 5.3.2.6)
 - a. If a site evacuation occurs (or has occurred), then ensure the Assembly Area Supervisor is dispatched (or has been dispatched by the Emergency Coordinator) to the selected offsite assembly area.
 - b. Coordinate activities with the RCC to determine if Health Physics support is required at the offsite assembly area to survey and decontaminate vehicles and personnel.
 - c. Ensure communications are established and maintained with the Assembly Area Supervisor at the offsite assembly area.
7. Provide support for Radiological Field Monitoring Teams, as requested. (Step 5.3.2.7)
 - a. Ensure the OSC Supervisor Assistant dispatches field team drivers in a timely manner.
 - b. If the designated emergency vehicles are not available, then provide other company vehicles for the use of the field monitoring teams.
8. Inform the TSC Supervisor and RCC of the status OSC activities, priorities and goals. (Step 5.3.2.8)
9. Ensure OSC status boards are kept current and the current emergency classification sign is posted. (Step 5.3.2.9)
10. Ensure all documentation is maintained in accordance with EP-002-150. (Step 5.3.2.10)
11. Prepare for continuous manning of the OSC.
 - a. Continuously assess OSC manpower needs and only retain sufficient personnel to support the present emergency needs.
 - b. Destaff, as necessary, to allow for extended operations (relief shifts).
 - c. Coordinate with the TSC Supervisor to determine the potential for worsening conditions and any additional manpower requirements.
 - d. Ensure the OSC Supervisor Assistant coordinates the development of the OSC watch bill (Attachment 7.3) with the Maintenance Leads, RCC and the TSC Supervisor.

OSC SUPERVISOR ACTIVATION/OPERATION CHECKLIST (CONT'D.)

DEACTIVATION:

- 1. Assist in follow-up activities and evaluation of the event. (Step 5.3.3.1)
- 2. Assist with recovery operations as directed by the Recovery Manager. (Step 5.3.3.2)
- 3. Ensure all emergency teams are recalled to the OSC and debriefed.
(Step 5.3.3.3A)
- 4. Collect all documentation and forward to the Emergency Planning Department.
(Step 5.3.3.3B)
- 5. Restore the OSC facility and equipment to pre-emergency conditions. (Step 5.3.3.4)

OSC SUPERVISOR ASSISTANT ACTIVATION/OPERATION CHECKLIST

ACTIVATION:

- 1. Identify Fire Brigade Members in accordance with EP-002-130. (Fire Brigade is staffed from Operations support personnel responding to the OSC.)
- 2. Identify EFAT members, including EFAT Communicator, in accordance with EP-002-130. (EFAT members are HP and Chemistry personnel. Coordinate with the OSC HP Liaison to obtain names from the RCC.)
- 3. When the Field Monitoring Team drivers arrive in the OSC, then brief the drivers and dispatch them to the Backup OSC. (Step 5.4.1.3)
- 4. Establish OSC Facility Accountability. (Step 5.4.1.4)
 - a. Assign an individual from the Manpower Area to serve as the OSC Main Entrance/Exit Accountability Watch. (Step 5.4.1.4A)
 - b. Ensure all personnel in the OSC card-in on the Accountability Keycard Reader. (Coordinate with the OSC Leads) (Step 5.4.1.4B)
- 5. Coordinate completion of OSC First Responders activities in accordance with Section 5.1 of this procedure. (Step 5.4.1.5)
- 6. Dispatch one person from the Manpower Area as the TSC Accountability Coordinator. (Step 5.4.1.6)
- 7. If requested by the TSC, then dispatch one person from the Manpower Area as a runner between the TSC Dose Assessment Area and the ECC. (Step 5.4.1.7)
- 8. Consider designating an area in the OSC Manpower Area for miscellaneous personnel. (Step 5.4.1.8)
- 9. Assist the OSC Supervisor in completing the activities in Section 5.3 as necessary. (Step 5.4.1.9)

OPERATION:

NOTE

Check boxes are not provided for this section of the checklist, since most of the tasks are repeated throughout the emergency.

- 1. Ensure OSC status boards are kept up-to-date. (Step 5.4.2.1)
- 2. Coordinate with the OSC Maintenance Leads to ensure the OSC Supervisor is kept informed of the status of emergency teams in the plant. (Step 5.4.2.2)
- 3. Coordinate the development of an OSC watch bill (Attachment 7.3) with the OSC Maintenance Leads, RCC and the TSC Supervisor. (Step 5.4.2.3)
- 4. Maintain a narrative facility log of OSC Supervisor Assistant activities. (Step 5.4.2.4)
- 5. Perform other activities as directed by the OSC Supervisor. (Step 5.4.2.5)

OSC SUPERVISOR ASSISTANT ACTIVATION/OPERATION CHECKLIST (CONT'D.)

DEACTIVATION:

- 1. Assist in follow-up activities and evaluation of the event. (Step 5.4.3.1)
- 2. Collect all documentation generated during the emergency (logs, data sheets, briefing/debriefing sheets, scratch pads, etc.) and provide to the OSC Supervisor. (Step 5.4.3.2)
- 3. Assist in restoring the OSC facility and equipment to pre-emergency conditions. (Step 5.4.3.3)
- 4. Perform other tasks as directed by the OSC Supervisor. (Step 5.4.3.4)

OSC MAINTENANCE LEAD ACTIVATION/OPERATION CHECKLIST

The design of this checklist is such that each Maintenance Lead (Electrical, I&C & Mechanical) may use an individual copy in the performance of their duties.

Maintenance Leads may assign Manpower Area Coordinators to assist in their duties. When assigned, the Manpower Area Coordinators man the telephone in the Manpower Area and coordinate staffing teams, briefing teams and other tasks requested by the Leads.

ACTIVATION:

- 1. Assemble the maintenance personnel in the Manpower Area and report staffing levels to the OSC Supervisor. (Step 5.5.1.1)
- 2. Instruct Manpower Area personnel to card-in on the Accountability Keycard Reader at the direction of the OSC Supervisor Assistant. (Step 5.5.1.2)

OPERATION:

NOTE

Check boxes are not provided for this section of the checklist, since most of the tasks are repeated throughout the emergency.

- 1. Monitor the maintenance radio frequency. Information received on the radio may assist in decisions regarding emergency team activities. (Step 5.5.2.1)
- 2. Dispatch emergency teams promptly as requested by the TSC in accordance with EP-002-130. (Step 5.5.2.2)
- 3. Coordinate emergency team activities with the OSC Health Physics Liaison and the Security Superintendent. (Step 5.5.2.3)
- 4. Maintain a log of emergency team activities. (Step 5.5.2.4)
- 4. Ensure the OSC Repair Team Status Board reflects the current status of emergency team activities. (Step 5.5.2.5)
- 5. Update the OSC Supervisor on the status of emergency team activities frequently. (Step 5.5.2.6)
- 6. Call out additional maintenance personnel as required. (Step 5.5.2.7)
- 7. Coordinate staffing of relief shifts with the OSC Supervisor Assistant. (Step 5.5.2.8)
- 8. Perform other activities as directed by the OSC Supervisor. (Step 5.5.2.9)

DEACTIVATION:

- 1. Assist in follow-up activities and evaluation of the event. (Step 5.5.3.1)
- 2. Assist in recovery operations as directed by the OSC Supervisor (Step 5.5.3.2)
- 3. When the OSC is to be deactivated, then recall and debrief any emergency teams in the field. (Step 5.5.3.3A)
- 4. Collect all documentation and provide to the OSC Supervisor. (Step 5.5.3.3B)
- 5. Assist in restoring the OSC facility and equipment to pre-emergency conditions. (Step 5.5.3.4)

RCC ACTIVATION/OPERATION CHECKLIST

ACTIVATION:

- 1. Discuss the status of Health Physics activities and current plant radiological levels with the shift Health Physics personnel. (Step 5.9.1.1)
- 2. Determine status of staffing the -4 Control Point. (Step 5.9.1.2)
- 3. Dispatch a Health Physics Technician to the OSC Command Room to serve as OSC Health Physics Liaison. If manpower is available, then an assistant should accompany the Health Physics technician. (Step 5.9.1.3)
- 4. Discuss emergency status, goals and priorities, Health Physics staffing requirements, current maintenance/Operations activities in the plant and current plant radiation levels with the HPC, or Control Room. (Step 5.9.1.4)
- 5. Call out additional personnel to supplement the -4 Control Point staffing as needed. (Step 5.9.1.5)
- 6. Coordinate the staffing of the EFAT, in accordance with EP-002-130. (Step 5.9.1.6)
- 7. Establish -4 Control Point Facility Accountability. (Step 5.9.1.7)
- Ensure all essential personnel at the -4 Control Point card-in on the Accountability Keycard Reader. (Step 5.9.1.7A)
- Ensure all -4 Control Point and Chemistry personnel are briefed prior to leaving the area. (Steps 5.9.1.7B)
- 8. Arrange for emergency access for -4 Control Point and Chemistry personnel by completing Attachment 7.5 as needed. (Step 5.9.1.8)
- 9. Assign an individual to serve as RCC Communicator and man the -4 Control Point Office telephone. (Step 5.9.1.9)
- 10. Monitor the Radiation Monitoring System readings to track changes in plant radiation levels. (Step 5.9.1.10)
- 11. Assign personnel to staff the Radiological Field Monitoring Teams in accordance with EP-002-060. (Step 5.9.1.11)

OPERATION:

NOTE

Check boxes are not provided for this section of the checklist, since most of the tasks are repeated throughout the emergency.

- 1. Conduct in-plant and onsite surveys and maintain radiological controls in accordance with applicable Health Physics procedures, EP-002-031 and EP-002-034. (Step 5.9.2.1)
- 2. Provide Health Physics support for decontamination operations in accordance with applicable Health Physics procedures and EP-002-032. (Step 5.9.2.2)
- 3. Maintain communications with the HPC. (Step 5.9.2.3)

RCC ACTIVATION/OPERATION CHECKLIST (CONT'D.)

4. Maintain communications with the OSC Health Physics Liaison. (Step 5.9.2.4)
 - a. Keep the OSC Health Physics Liaison updated on changing radiological conditions, especially areas where access is restricted. (Step 5.9.2.4A)
 - b. Keep the OSC Health Physics Liaison updated regarding routing instructions for OSC emergency teams. (Step 5.9.2.4B)
 - c. Ensure the OSC Health Physics Liaison keeps the RCC informed of OSC emergency team activities. (Step 5.9.2.4C)
 - d. Ensure the OSC Health Physics Liaison conducts habitability surveys in the OSC in accordance with EP-002-034. (Step 5.9.2.4D)
5. Provide Health Physics coverage for emergency response teams as necessary. (Debrief teams exiting CAA and complete radiological portion of the Emergency Team Debriefing Sheet) (Step 5.9.2.5)
6. Provide Health Physics support for the Fire Brigade and Emergency First Aid Team (EFAT). (Step 5.9.2.6)
7. Dispatch the Radiological Field Monitoring Teams in accordance with EP-002-060. (Step 5.9.2.7)
8. Consider requesting personnel from the OSC to assist in processing emergency teams (staging respirators, laying out PCs, etc.). (Step 5.9.2.8)
9. If warranted, then provide a Health Physics technician to respond to the offsite assembly area when a site evacuation occurs. (Step 5.9.2.9)
10. Maintain a log of -4 Control Point activities in accordance with EP-002-150. (Step 5.9.2.10)
11. Coordinate development of a watch bill for extended operations with the HPC and OSC Supervisor Assistant. (Step 5.9.2.11)

Deactivation

1. Assist in follow-up activities and evaluation of the event. (Step 5.9.3.1)
2. Ensure affected plant and offsite areas are surveyed for radioactive contamination and cleared, or appropriate controls established and corrective actions taken. (Step 5.9.3.2)
3. Assist in recovery operations, as directed. (Step 5.9.3.3)
4. When the -4 Control Point is deactivated, then collect all documentation (survey forms, data sheets, logs, etc.) and forward to the Emergency Planning Department. (Step 5.9.3.4)
5. Restore the -4 facility and equipment to pre-emergency conditions. (Step 5.9.3.5)
6. Inventory emergency equipment in accordance with EP-003-040. (Step 5.9.3.6)

OSC HEALTH PHYSICS LIAISON ACTIVATION/OPERATION CHECKLIST

ACTIVATION:

- 1. Upon arrival at the OSC, Discuss status of emergency team activities with the OSC Supervisor. (Step 5.10.1.1)
- 2. Immediately establish OSC radiological controls and habitability. (Step 5.10.1.2)
 - a. Ensure the step off pad is set up at the OSC frisking station. (Step 5.10.1.2A)
 - b. Place a second frisker at the OSC frisking station. (Step 5.10.1.2B)
 - c. Source check the friskers. (Step 5.10.1.2C)
 - d. Change the signs at the frisking station to FRISKING REQUIRED, as warranted. (Step 5.10.1.2D)
 - e. Place the constant particulate airborne monitor in service. (Step 5.10.1.2E)
 - f. Perform initial habitability survey. (Step 5.10.1.2F)
 - g. Coordinate issuance of SRDs with OSC Supervisor Assistant and OSC Leads. (Step 5.10.1.2G)
- 2. When OSC radiological controls are established and initial habitability surveys are completed, then notify the OSC Supervisor. (Step 5.10.1.3)
- 3. Establish communications with the RCC and discuss the current plant radiological conditions, routing of emergency teams, OSC habitability survey results, frequency for future habitability surveys and status of OSC emergency teams. (Step 5.10.1.4)
- 4. If necessary, then request a person from the OSC to assist (man the telephones and keep the status board updated). (Step 5.10.1.5)

OPERATION:

NOTE

Check boxes are not provided for this section of the checklist, since most of the tasks are repeated throughout the emergency.

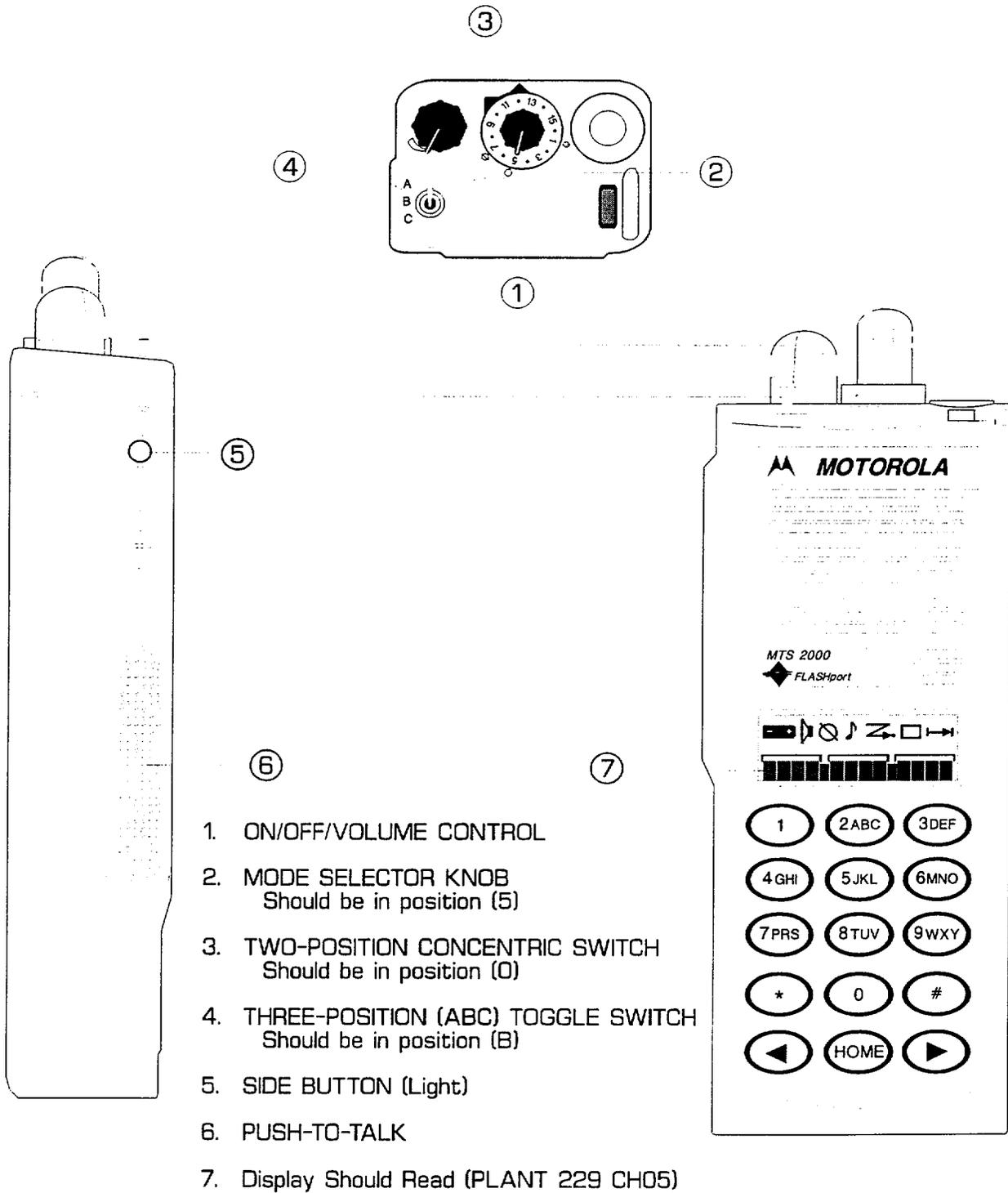
- 1. Maintain communications with the -4 Control Point. (Step 5.10.2.1)
 - a. Keep informed of changing radiological conditions in the plant, including areas posted due to high radiological levels. (Step 5.10.2.1A)
 - b. Coordinate emergency team activities with the RCC. (Step 5.10.2.1B)
 - c. Frequently update the RCC on the status of OSC habitability. (Step 5.10.2.1C)
- 2. Participate in emergency team briefings and complete the applicable portions of the Emergency Team Briefing Sheet. (Step 5.10.2.2)
- 3. Inform the OSC Supervisor and OSC Maintenance Leads of changing radiological conditions. (Step 5.10.2.3)
- 4. Maintain a narrative facility log in accordance with EP-002-150. (Step 5.10.2.4)
- 5. Maintain continuous OSC habitability at a frequency agreed upon with the RCC. (Step 5.10.2.5)
- 6. Maintain the OSC Radiological Status Boards. (Step 5.10.2.6)
- 7. Perform other duties as directed by the OSC Supervisor or the RCC. (Step 5.10.2.7)

OSC HEALTH PHYSICS LIAISON ACTIVATION/OPERATION CHECKLIST (CONT'D.)

DEACTIVATION:

- 1. Collect all documentation generated during the emergency and provide to the OSC Supervisor. (Step 5.10.3.1)
- 2. Assist in restoring the OSC facility and equipment to pre-emergency conditions. (Step 5.10.3.2)
- 3. Report to the RCC and assist in follow-up activities and evaluation of the event. (Step 5.10.3.3)
- 4. Perform other tasks as directed by the RCC. (Step 5.10.3.4)

ASSEMBLY AREA SUPERVISOR RADIO SWITCH POSITIONS



Date _____

OSC PERSONNEL DOSIMETRY LOG

Name/Badge Number	Pocket Dosimeter	Reading		Issue Time	Collection Time	TLD
		In	Out			
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						

OSC SUPERVISOR ASSISTANT (OR DESIGNEE)

REQUEST/APPROVAL PAGE

SAFETY RELATED

Required Review Level (check one)

- PORC
 QUALIFIED REVIEWER

PROCEDURE NUMBER: EP-004-010 REVISION: 8 CHANGE: 0 DEVIATION: N/A

TITLE: Toxic Chemical Contingency Procedure

EFFECTIVE DATE/MILESTONE: N/A 12/31/01
(N/A if Same as Approval Date)

PROCEDURE OWNER: Emergency Planning Manager
(Position Title)

PREPARER (Print Name / Initial): R.J. Perry RJ Perry DATE: 10/24/01

ACTION:

- New Procedure
 Deletion
 Revision
 Change

EC? _____
(Applicable W2.109 Step Numbers)

Deviation Expiration Date/Milestone: _____
 Temporary Procedure Applicable Conditions: _____

DESCRIPTION AND JUSTIFICATION OF CHANGE: Reformatted procedure to comply with W2.109 and W2.110 requirements. Deleted date for reference to North American Emergency Response Guidebooks throughout procedure. Changed reference from Shift Superintendent to Shift Manager throughout procedure. Changed reference from Cypress Plant to Dow Polypropylene (Dow Poly) throughout procedure. Changed reference from Shell Refinery to Motiva Refinery throughout procedure. Changed reference from Trans America Refinery to Orion Refinery throughout procedure. Changed reference from Union Carbide Corporation to Dow St. Charles Operations (Dow) throughout procedure. Changed reference from Shell Taft to Basell throughout procedure. Changed CXY to Nexen Chemical throughout procedure. Added River Docking Facility to list of Chemical Facilities within 5 miles of Waterford-3. Changed reference from LRPD to LDEQ throughout procedure. Changed reference from 30 minute updates to 60 minute updates throughout procedure. Updated reference to site Security and Hazardous Material procedures. Updated DOT Guide and identification numbers for analyzed chemicals. Created station announcement for controlled evacuation. Revised maps used in procedure. Updated Toxic Chemical Event Experience attachment.

Request/Approval Page Continuation Sheet(s) attached.

EC SUPERVISOR	APPROVAL:	<u>N/A</u>	DATE:	_____
50.59 REVIEWER Required? <input checked="" type="checkbox"/>	REVIEW:	<u>Odio</u>	DATE:	<u>240CT01</u>
<input type="checkbox"/> PROGRAMMATICALLY EXCLUDED	PORC Mtg. No.:	<u>N/A</u>	DATE:	_____
50.54 REVIEWER Required? <input checked="" type="checkbox"/>	REVIEW:	<u>G.S. Keller</u>	DATE:	<u>10/31/01</u>
TECHNICAL REVIEWER	REVIEW:	<u>Odio</u>	DATE:	<u>240CT01</u>

Change Notice (CN)?

CHANGE NOTICE (CN) SUPERVISOR	APPROVAL:	<u>N/A</u>	DATE:	_____
CHANGE NOTICE (CN) ON-SHIFT SM/CRS	APPROVAL:	<u>N/A</u>	DATE:	_____
		<u>2 Week Final Approval</u>	DATE:	_____

QUALIFIED REVIEWER Required? <input checked="" type="checkbox"/>	REVIEW:	<u>G.S. Keller</u>	DATE:	<u>10/31/01</u>
GROUP/DEPT. HEAD REVIEW <input type="checkbox"/> or APPROVAL <input checked="" type="checkbox"/>		<u>[Signature]</u>	DATE:	<u>11-28-01</u>
GM, PLANT OPERATIONS REVIEW <input type="checkbox"/> or APPROVAL <input type="checkbox"/>		<u>N/A</u>	DATE:	_____
VICE PRESIDENT, OPERATIONS APPROVAL:		<u>N/A</u>	DATE:	_____

CONTROLLED

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46-66, 71-75	Revision 5
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Reference Use

1.0 PURPOSE

NOTE

This procedure does not provide specific data (chemical inventories, worst case wind direction and hazard potential) for a chemical release greater than five miles from Waterford 3. Guidance from the St. Charles Industrial Hotline, NIOSH Pocket Guide to Hazardous Chemicals or the North American Emergency Response Guidebook should be used in conjunction with the guidance in this procedure.

- 1.1 This procedure provides guidance to operations personnel during a toxic chemical release on or off site which may affect the operation of the plant or the safety of station personnel.
- 1.2 The procedure is designed to allow for an increasing response for a deteriorating offsite situation.

2.0 REFERENCES

- 2.1 OP-901-520, Toxic Chemical Release
- 2.2 North American Emergency Response Guidebook
- 2.3 NIOSH Pocket Guide To Chemical Hazards
- 2.4 Waterford 3 SES Final Safety Analysis Report
- 2.5 Waterford 3 SES Technical Specifications
- 2.6 Emergency Management Resources Book
- 2.7 PS-016-102, Security Response to Plant Emergency Conditions
- 2.8 EP-002-010, Notifications and Communications
- 2.9 EP-002-150, Emergency Plan Implementing Records
- 2.10 EP-002-190, Personnel Accountability
- 2.11 EP-004-015, Offsite Personnel Staging During A Toxic Chemical Emergency

- 2.12 EP-004-020, Backup EOF Activation, Operation, and Deactivation During A Toxic Chemical Emergency
- 2.13 St. Charles Parish Emergency Preparedness/Industrial Hotline System Operating Procedure Manual
- 2.14 US NRC Regulatory Guide 1.78, Assumptions For Evaluating the Habitability of a Nuclear Power Plant Control Room During a Postulated Hazardous Chemical Release
- 2.15 UNT-006-010, Event Notification and Reporting
- 2.16 UNT-007-064, Hazardous Materials Emergency Response Plan and SPCC
- 2.17 UNT-007-017, Permit-Required Confined Space Entry

3.0 RESPONSIBILITIES

- 3.1 The Shift Manager is responsible for:
 - 3.1.1 The implementation of this procedure.
 - 3.1.2 Assuming the role and duties of the Emergency Coordinator until properly relieved by the Duty Plant Manager.
 - 3.1.3 Assessing the situation and directing subsequent protective actions and communications.
 - 3.1.4 If the event is an onsite toxic chemical release, then implement UNT-007-064.
 - 3.1.5 Contacting and apprising the Duty Plant Manager of impacting events occurring near the Waterford 3 SES.
 - 3.1.6 Notify the Security Shift Supervisor (SSS) to implement access control measures if needed.

3.2 The Duty Plant Manager is responsible for:

3.2.1 Contacting and apprising the Duty EOF Director and Duty Technical Spokesperson of impacting emergency events occurring near the Waterford 3 SES.

3.2.2 Requesting the staffing of the Backup Emergency Operations Facility (EOF) as warranted.

3.2.3 If conditions permit, then report to the Control Room and assume the role and responsibilities of Emergency Coordinator (EC) upon receiving proper turnover from the Shift Manager.

3.2.3.1 If the Duty Plant Manager can not report to the Control Room, then he should report to the Backup EOF, if staffed.

3.3 The Duty EOF Director is responsible for:

3.3.1 Contacting and apprising the Duty Emergency Planner of impacting emergency events occurring near the Waterford 3 SES.

3.3.2 Mobilizing and assembling the EOF staff, as warranted, in accordance with EP-004-020.

3.3.3 Requesting assistance from Transmission System through the Entergy System Liaison, as required.

3.3.4 If event occurs during off hours, then request that the applicable staging areas be unlocked, through the Entergy System Liaison.

3.4 If access controls into the plant are necessary, then the SSS is responsible for receiving information on the toxic chemical emergency from the SM and for implementing access controls at the Primary Access Point (PAP).

4.0 INITIATING CONDITIONS

NOTE

The normal emergency organization is not used for a toxic chemical event. Do not activate any onsite organization (TSC, OSC)

This procedure is initiated upon any of the following conditions:

- 4.1 OP-901-520, indicates above normal level of toxic chemicals onsite.
- 4.2 Notification via the St. Charles Industrial Hotline, TICC Radio or other credible source of an offsite toxic chemical problem that may threaten the site.

5.0 PROCEDURE

5.1 DEFINITIONS

- 5.1.1 UNUSUAL EVENT (St. Charles Parish) - An incident that is out of the ordinary but does not present a current threat to persons or property even in the immediate vicinity. The incident may have the potential to escalate to a more serious emergency but is not expected to do so. No protective action will be implemented and no emergency preparedness assistance should be needed.
- 5.1.2 ALERT (St. Charles Parish) - An incident that currently does not affect the local or general population, but has the potential to escalate to a more serious emergency. The situation is unresolved and should be monitored closely. Some limited protective actions may be implemented and additional assistance requested from the Department of Emergency Preparedness.
- 5.1.3 SITE AREA EMERGENCY (St. Charles Parish) - An emergency that either has already had some effect on nearsite population or is anticipated to do so. This classification would be used in situations where a limited number of people have been affected or a much larger number could possibly be affected. Protective actions would be implemented and emergency preparedness assistance would be necessary.
- 5.1.4 GENERAL EMERGENCY (St. Charles Parish) - An emergency which has affected or will affect large portions of the Parish population. This is the most severe of the emergency classification and protective actions for large numbers of people would be necessary. All emergency resources would be activated and assistance would be requested from the federal, state, and support parish emergency response agencies, as necessary.
- 5.1.5 IDLH (Immediately Dangerous to Life or Health) - The maximum level from which one could escape within 30 minutes without any escape-impairing symptoms or any irreversible health effects (NIOSH/OSHA Pocket Guide to Chemical Hazards).
- 5.1.6 PLUME TRAVEL TIME - The time it takes for the plume to reach Waterford 3. The Plume Travel Time is based on the distance of the release source from Waterford 3 and the wind speed.
- 5.1.7 PLUME ARRIVAL TIME - The clock time at which the plume reaches Waterford 3. The Plume Arrival Time is based on the time at which the release started and the PLUME TRAVEL TIME.

- 5.1.8 RESPONSE TIME - The amount of time available to take protective actions for Waterford 3 personnel prior to the arrival of the plume on site. The Response Time is determined by relating the PLUME ARRIVAL TIME to the current clock time.
- 5.1.9 WORST CASE WIND DIRECTION - The case in which the wind is blowing directly toward Waterford 3 from the release source. This value is found in Attachment 7.3 of this procedure and is calculated for each plant within five miles of Waterford 3.
- 5.1.10 LARGE HAZARD POTENTIAL CHEMICAL - Chemical for which IDLH value may be met or exceeded on the Waterford 3 site for a worse case tank rupture scenario. Information on Large Hazard Potential Chemicals can be found in Attachment 7.3.
- 5.1.11 SMALL HAZARD POTENTIAL CHEMICAL - Chemical for which IDLH value is unlikely to be met or exceeded on the Waterford 3 site, but whose effects could interfere with personnel or operations. Information on Small Hazard Potential Chemicals can be found in Attachment 7.3.
- 5.1.12 UNKNOWN HAZARD POTENTIAL CHEMICAL - Chemical whose effects are not known. Unknown Hazard Chemicals should be treated the same as Large Hazard Chemicals until their effects can be determined. If a chemical is not found in Attachment 7.3, then it is considered to be an Unknown Hazard Potential Chemical.
- 5.1.13 CONFIRMED TOXIC CHEMICAL RELEASE - A toxic chemical release which is ongoing and poses a threat to Waterford 3 and is:
- 5.1.13.1 Reported through the Industrial Hot-Line or TICC radio system; or
- 5.1.13.2 A release which is confirmed through normal Waterford 3 monitoring procedures.
- 5.1.14 SSC – System, Structure or Component
- 5.1.15 TICC – Taft Industrial Communications Complex. Radio system linking industrial facilities in the Taft area for emergency communications purposes.

5.2 INITIAL ASSESSMENT

Note

THE NORMAL EMERGENCY ORGANIZATION IS NOT USED FOR A TOXIC CHEMICAL EVENT. DO NOT ACTIVATE ANY ONSITE ORGANIZATION (TSC, OSC).

NOTE

It is the policy of Waterford 3 SES that the procedural steps outlined here be followed to the maximum practical extent. It is recognized that unforeseen factors may arise which make predetermined actions ineffective or impractical in certain circumstances. Operations personnel may use discretion in taking alternative courses of action based on available information and exercise prudent judgement in response to toxic chemical situations.

NOTE

Monsanto has agreed to provide additional air to fill SCBA bottles. Refer to the Emergency Management Resources Book for phone numbers.

5.2.1 If notified of a toxic chemical release via the St. Charles Industrial Hotline, TICC radio or other credible source, then record as much information as available on Attachment 7.1.

5.2.1.1 Implement OP-901-520, if not already implemented.

5.2.1.2 If toxic chemical release is initiated from Waterford 3, then refer to UNT-007-064.

CAUTION

SHELTER SITE PERSONNEL AT THE DISCRETION OF THE SHIFT MANAGER FOR LARGE HAZARD POTENTIAL CHEMICALS RELEASED WITHIN 5 MILES OF WATERFORD 3.

5.2.1.3 If a toxic chemical release is in progress, then refer to Attachment 7.2.

6.0 FINAL CONDITIONS

- 6.1 The toxic chemical event has been closed out and recovery activities in Attachment 7.5, TAB D, have been completed.

7.0 ATTACHMENTS

7.1 Emergency Communications Checklist

7.2 Toxic Chemical Diagnostic Flowchart

7.3 Toxic Chemical Hazards

7.4 Response Evaluation

7.5 Toxic Chemical Response Actions

TAB A Standby

TAB B Site Evacuation

TAB C Shelter

TAB D Recovery

7.6 Maps

7.7 Emergency Coordinator's Close-Out Checklist

7.8 VNS Quick Reference Sheet

7.9 Activation/Deactivation of the Emergency Response Data System (ERDS)

7.10 Toxic Chemical Event Experience

7.11 On-Site Toxic Chemical Shelters

8.0 RECORDS

8.1 The following records are generated as a result of this procedure:

- Attachment 7.1, Emergency Communications Checklist
- Attachment 7.4, Response Evaluation
- Attachment 7.7, Emergency Coordinator's Close-Out Checklist

EMERGENCY COMMUNICATIONS CHECKLIST

NOTE: Information Received via the St. Charles Industrial Hotline, TICC Radio or Other Credible Source

1. ST. CHARLES PARISH TOXIC CHEMICAL EVENT CLASSIFICATION:

UNUSUAL EVENT _____ ALERT _____
SITE AREA EMERGENCY _____ GENERAL EMERGENCY _____

2. Name of the Release Source: _____

3. Name/Affiliation Communicator: _____

4. Incident Facts: FIRE _____, GAS RELEASE _____, EXPLOSION _____,
SPILL _____, OTHER: _____

Substance Involved: _____
(Request that they spell it!)

Quantity Involved: _____

DOT ID & Guide # (if available): _____

FLAMMABLE _____, TOXIC _____, OTHER: _____

5. Recommended Action: _____

6. Release Start Time: ____:____

7. ESTIMATED DURATION: _____

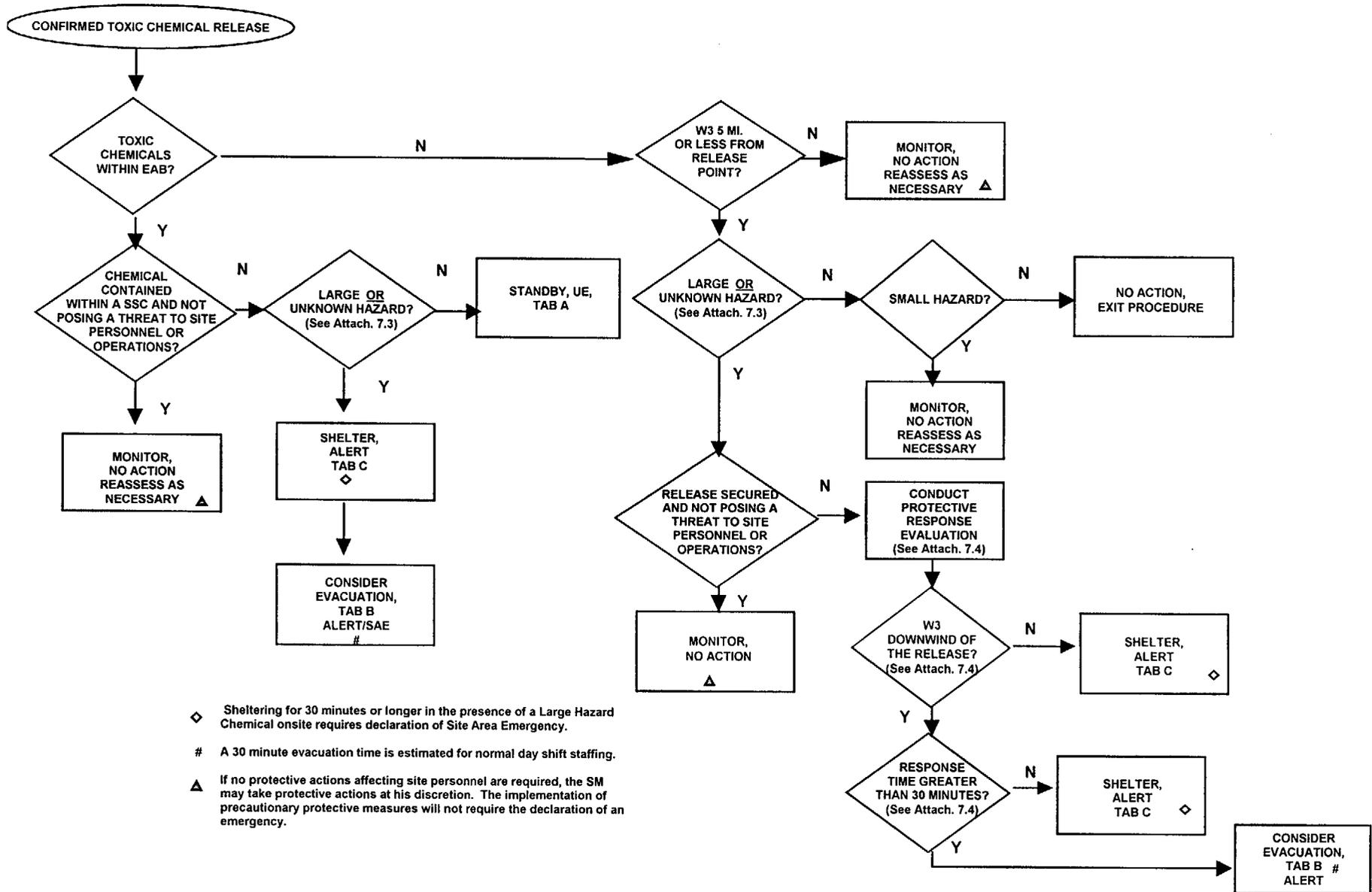
ACTUAL DURATION: _____

8. Message Received By: _____
(Signature)

_____/_____/_____ ____:_____
(Date) (Time)

Verification Call Back #: _____
(if needed to establish credibility)

TOXIC CHEMICAL DIAGNOSTIC FLOWCHART



- ◇ Sheltering for 30 minutes or longer in the presence of a Large Hazard Chemical onsite requires declaration of Site Area Emergency.
- # A 30 minute evacuation time is estimated for normal day shift staffing.
- ▲ If no protective actions affecting site personnel are required, the SM may take protective actions at his discretion. The implementation of precautionary protective measures will not require the declaration of an emergency.

TOXIC CHEMICAL HAZARDS

I. CHEMICAL FACILITIES WITHIN 5 MILES OF WATERFORD 3

<u>Acronym</u>	<u>Facility</u>	<u>Distance</u>	Worst Case <u>Wind Direction</u> (wind coming from)
Air Liq.	Air Liquide	1.25 Miles	105 Degrees
N/A	Calciner	4.5 Miles	80 Degrees
Nexen	Nexen Chemical	0.8 Miles	145 Degrees
Dow Poly	Dow Polypropylene Plant	4.0 Miles	75 Degrees
Dupont	Dupont Pontchartrain Works	4.7 Miles	325 Degrees
IMC	IMC Agrico	0.6 Miles	110 Degrees
Koch	Koch Nitrogen	0.8 Miles	145 Degrees
L. Gypsy	Little Gypsy SES	0.6 Miles	25 Degrees
LA Resources	Louisiana Resources	2.8 Miles	105 Degrees
Oxy	Occidental Chemical	0.8 Miles	130 Degrees
N/A	Praxair	1.25 Miles	115 Degrees
N/A	Shell Norco	2.75 Miles	80 Degrees
Motiva	Motiva Refinery	3.5 Miles	85 Degrees
Basell	Basell Chemical	1.5 Miles	135 Degrees
Orion	Orion Refinery	3.9 Miles	90 Degrees
Dow	Dow St Charles Operations	1.25 Miles	120 Degrees
W1&2	Waterford 1 & 2 SES	0.36 Miles	295 Degrees
Witco	Witco Chemical	1.75 Miles	130 Degrees
*Dock	River Docking Facility	1 Mile	95 Degrees

*Use as a conservative estimate for any releases reported within 5 miles from a chemical plant docking facility on the West Bank of the Mississippi River.

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Acetaldehyde	Dow, Rail	Small	1089 (129)
Acetic Acid	Witco, Dow, Shell Norco, Ship, Rail	Small	2790 (153)
Acetone	Dow, IMC, Witco, Motiva, Praxair, Shell Norco, Rail	Small	1090 (127)
Acetonitrile	Rail	Large	1648 (131)
	Motiva	Small	1648 (131)
Acetylene	L. Gypsy, W1&2, Praxair, Orion, Dow, Shell Norco, Motiva, Witco, Truck	Small	1001 (116)
Acrolein	Dow	Large	1092 (131P)
Acrylic Acid	Witco, Dow, Rail	Large	2218 (132P)
Acrylonitrile	Motiva, Rail	Large	1093 (131P)
Activated Alumina	Dow, W1&2, Shell Norco	No Hazard	N/A
Activated Carbon	Dow	No Hazard	N/A
Adipic Acid	Dow	No Hazard	9077 (153)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Aldehyde	Dow	No Hazard	1988 (131)
Allyl Alcohol	Dow	No Hazard	1098 (131)
Allyl Chloride	Shell Norco, LA Resources, Truck, Rail	Large	1100 (131)
Aluminum Alkyl	Orion, Rail	No Hazard	3051 (135)
Aluminum Bromide	Rail	Large	1725 (137)
Aluminum Chloride	Witco, Rail	Large	2581 (154)
Aluminum Oxide	Dow, Calciner	No Hazard	N/A
Amine Carboxalate	Dow	No Hazard	N/A
Amine Hydrochloride	Dow	No Hazard	N/A
Aminoethylethanolamine	Dow	No Hazard	N/A
Aminoethylpiperazine	Dow	No Hazard	2815 (153)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Ammonia	IMC, Koch, L. Gypsy, W1&2, Oxy, Shell Norco, Witco, Dow, Orion, Motiva., Air Liq., Truck, LA Resources, Ship, Rail	Large	1005 (125)
Ammonium Bromide	Witco	No Hazard	N/A
Ammonium Dihydrogen	W1&2	No Hazard	N/A
Ammonium Hydroxide	W1&2, Dow, Witco, Orion	Large	2672 (154)
Ammonium Nitrate	Rail	Small	2072 (140)
Ammonium Polysulfide	Motiva	No Hazard	2818 (154)
Ammonium Sulfate	Motiva	No Hazard	1477 (140)
Ammonium Sulfide	Witco	Large	2683 (132)
Ammonium Thiocyanate	Witco	No Hazard	N/A
Ammonium Thioglycolate	Witco	No Hazard	N/A
Antimony Pentachloride	Orion	No Hazard	1730 (157)
Antimony Trioxide	Witco	No Hazard	9201 (171)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Argon	Shell Norco, Orion, Dow Poly, Basell, Motiva., Oxy, Air Liq., Witco, Dow, Rail	Small	1006 (121)
Asbestos	L. Gypsy, Dow, Oxy	No Hazard	2212 (171)
Benzene	Dow, Ship	Large	1114 (130)
	Motiva	Small	1114 (130)
Bisphenol	Shell Norco	No Hazard	N/A
Boric Acid	Witco, Dow	No Hazard	N/A
Bromine	Motiva	Small	1744 (154)
Butadiene	Dupont, Motiva, Orion, Ship, Rail	Small	1010 (116P)
1,3-Butadiene	Dow	Large	1010 (116P)
Butane	Motiva, Shell Norco, Truck, Orion, Ship	Small	1011 (115)
Butaraldehyde	Rail	Large	(NL)
Butene	Basell, Dow, Truck	Small	1012 (115)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Butyl Acetate	Dow, Shell Norco, Rail	No Hazard	1123 (129)
Butyl Acrylate	Dow, Ship, Rail	No Hazard	2348 (129P)
Butyl Alcohol	Dow, Ship, Rail	Small	1120 (129)
Butyl Ether	Dow	No Hazard	1149 (127)
Butyraldehyde	Dow	No Hazard	N/A
Calcium Carbide	Praxair	No Hazard	1402 (138)
Calcium Chloride	Nexen	No Hazard	1452 (140)
Calcium Hydroxide	Dow, Praxair	No Hazard	N/A
Calcium Hypochlorite	Dow, L. Gypsy, Motiva	No Hazard	2880 (140)
Calcium Pelargonate	Dow Poly	No Hazard	N/A
Calcium Sterate	Dow Poly, Dow	No Hazard	N/A
Calcium Sulfate	Dow	No Hazard	N/A
Carbon Dioxide	W1&2, Shell Norco, Motiva, Oxy, L. Gypsy, Dow, Basell, Rail	No Hazard	1013 (120)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Carbon Disulfide	Rail	Large	1131 (131)
	Witco	Small	1131 (131)
Carbon Monoxide	Motiva, Dow	No Hazard	1016 (119)
Carbon Tetrachloride	Rail	Small	1846 (151)
Carbonic Acid Disodium	Oxy	No Hazard	N/A
Caustic Soda	Shell Norco, Orion, Dow, Oxy, Truck, Ship, Rail, Nexen	Small	1823 (154)
Chloric Acid	Oxy	Small	2626 (140)
Chlorine	Dupont, Oxy, Shell Norco, Dow, Witco, Motiva, Air Liq., Orion, Truck, Rail	Large	1017 (124)
Chlorodifluoromethane	Dow	No Hazard	1018 (126)
Chloroform	Rail	Large	1888 (151)
Chlorophenols	L. Gypsy	No Hazard	2021 (153)
Chloroprene	Dupont	Small	1991 (131P)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Copper Chromate Catalyst	Dow	No Hazard	N/A
Creosote	Orion, Truck, Ship	Small	2076 (153)
Crodamide	Dow Poly, Motiva	No Hazard	N/A
Crude Amines	Dow	No Hazard	N/A
Crude Oil	Orion, Shell Norco, Motiva	Small	1255 (128)
Cyclohexane	Dow, Rail	No Hazard	1145 (128)
Cyclohexanone	Dow, Rail	Small	1915 (127)
Diammonium Phosphate	Witco	No Hazard	N/A
Diammonium Thioglycolate	Witco	No Hazard	N/A
Dibutyltin Dichloride	Witco	No Hazard	(130)
Dibutyltin Oxide	Witco	No Hazard	(145)
Dichlorobutene	Dupont	Small	2920 (132)
Dichlorodifluoromethane	Dow	Large	3070 (126)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Dichlorodifluoromethene (Freon)	Motiva, Dow	Small	1029 (126)
1,3 Dichloropropene	Rail	Large	2047 (132)
Diesel Fuel	IMC, Oxy, Praxair, Air Liq., Motiva, Dow, CXY, Dow Poly, Basell, W1&2, Orion, Witco, Truck	Small	1993 (128)
Diethanoalamine	Dow, Motiva, Orion, Truck	Small	(NL)
Diethanolamine	Motiva, Dow	No Hazard	N/A
Diethyl Aluminum	Dow Poly	No Hazard	N/A
Diethylaluminum Chloride	Motiva, Dow, Truck	No Hazard	N/A
Diethylamine	Orion	Large	1154 (132)
	Dow	Small	1154 (132)
Diethylaminoethanol	Dow, Orion	No Hazard	2686 (132)
Diethylene Glycol	Dow	No Hazard	N/A
Diethylenetriamine	Dow, Rail	No Hazard	2079 (154)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Diethylhydroxylamine	Orion	No Hazard	N/A
Diisooctyl Phthalate	Witco	No Hazard	N/A
Diisopropanolamine	Motiva	No Hazard	N/A
Diisopropyl Ether	Dow, Rail	No Hazard	1159 (127)
Dimethylamine	Rail	Large	1032 (118)
Dimethyl Disulfide	Motiva, Dow	Small	2381 (130)
Dimethylformamide	Praxair	Small	2265 (129)
Dimethyl Sulfide	Dow, Rail	No Hazard	1164 (130)
Dimethyl Tin Dichloride	Witco	Large	(NL)
Dimyristyl	Witco	No Hazard	N/A
Diocetyl Acid	Dow	No Hazard	N/A
Diocetyl Terephthalate	Dow	No Hazard	N/A
Diocetyl tin Dichloride	Witco	No Hazard	N/A
Diocetyl-H-Pyrophosphate	Dow, Truck	No Hazard	N/A

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Dioxane	Dow	No Hazard	1165 (127)
Diphenyl Oxide	Dow	No Hazard	2951 (149)
Distraryl	Witco	No Hazard	N/A
Ditridecyl	Witco	No Hazard	N/A
Divinyl Benzene	Dow	No Hazard	N/A
Dowtherm-G Dowtherm-A	Basell, Witco Dow	Small	1591 (152)
Epichlorohydrin	Shell Norco, Ship, Rail	Small	2023 (131P)
Ethane	Oxy, Motiva, Dow	Small	1035 (115)
Ethanol	Dow, Oxy, Ship, Rail	Small	1170 (127)
Ethanolamine	Rail	Small	2491 (153)
Ethoxy Ethyl Benzoate	Dow Poly	No Hazard	N/A
Ethoxy Triglycol	Dow	No Hazard	N/A
Ethyl Acetate	Dow Rail	Small	1173 (129)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Ethyl Acrylate	Rail	Large	1917 (129P)
	Dow, Truck, Ship	Small	1917 (129P)
Ethyl Ether	Dow	No Hazard	1155 (127)
Ethyl Hexanol	Dow, Witco	No Hazard	N/A
Ethyl Hexene	Dow	No Hazard	N/A
Ethyl Hexyl Acrylate	Dow	No Hazard	N/A
Ethyl Hexyl Tallate	Dow	No Hazard	N/A
Ethyl Mercaptan	Motiva	No Hazard	2363 (130)
Ethylaluminum	Motiva	No Hazard	N/A
Ethylamine	Dow	Small	1036 (118)
Ethylene	Motiva, Dow, Praxair, Dow Poly, Truck	Small	1962 (116P)
Ethylenediamine	Dow, Truck, Ship, Rail	No Hazard	1604 (132)
Ethylene Dichloride	Dow, Ship	Large	1184 (129)
Ethylene Glycol	Dow, Shell Norco, Motiva, Rail	Small	1153 (127)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Ethyleneimine	Dow	Large	1185 (131P)
Ethylene Oxide	Rail	Large	1040 (119)
	Dow	Small	1041 (115)
Ethylhexanoic Acid	Witco	No Hazard	N/A
Ethylhexyl Acetate	Dow	No Hazard	N/A
Ethylhexyl Acrylate	Dow	No Hazard	N/A
Ethyne	Oxy	No Hazard	N/A
Ferric Sulfate	Shell Norco, Dow	No Hazard	9121 (171)
Fluorosilicic Acid	Rail	No Hazard	1778 (154)
Formaldehyde (37%)	Rail	Large	1198 (132)
Formaldehyde Solution	Dow, Rail	Large	1198 (132)
Formic Acid	Dow, Witco, Truck	Small	1779 (153)
Freon (Dichlorodifluoromethane)	Motiva, Dow	Small	1029 (126)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Fuel Oil	L. Gypsy, W1&2, Dow Poly, Orion, Motiva, IMC, Dow, Calciner, Basell, Ship	Small	1202 (128)
Gas, Natural	L. Gypsy, W1&2, Witco, IMC, Shell Norco, Oxy, Dow Poly, LA Resources, Orion, Motiva.	Small	1971 (115)
Gas Oil	Motiva	Small	1202 (128)
Gasoline	IMC, L. Gypsy, Dow, Oxy, Motiva, Orion, Basell, W1&2, Witco, Truck, Ship	Small	1993 (128)
Glycerine	W1&2, Shell Norco	No Hazard	N/A
Glycol Ethers	Dow	No Hazard	N/A
Halon	Motiva, Dow	No Hazard	N/A
Helium	Praxair, Motiva, Dow, Dow Poly, Shell Norco	Small	1046 (121)
Helium - Oxygen	Praxair	Small	1980 (122)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Heptane	Motiva, Witco, Dow, Dow Poly, Basell, Truck, Rail	Small	1206 (128)
Hexamethylenediamine	Rail	Large	1783 (153)
Hexane	Dow, Motiva, Shell Norco, Witco, Rail	No Hazard	1208 (128)
Hexene	Dow, Rail	Small	2370 (128)
Hydrazine	L. Gypsy, W1&2, Truck, Rail	Small	2029 (132)
Hydrochloric Acid	IMC, W1&2, Nexen, Dow, Witco, Shell Norco, Truck, Rail	Large	1789 (157)
	Motiva, Calciner	Small	1789 (157)
Hydrogen	L. Gypsy, Motiva, Basell, Shell Norco, Dow Poly, W1&2, Dow, Orion, Truck	Small	1049 (115)
Hydrogen Cyanide	Rail	Large	1051 (117)
Hydrogen Peroxide	Nexen, Orion, Dow, Witco, Rail	Large	2014 (140)
	Motiva	Small	2015 (143)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Hydrogen Sulfide	Motiva, Witco, Dow	Small	1053 (117)
Hydroquinone	Dow	No Hazard	2662 (153)
Hydroxyethyl Piperazine	Dow	No Hazard	N/A
Hypophosphorus Acid	Witco	No Hazard	N/A
Idoptopyl Ether	Dow	No Hazard	N/A
Isobutane	Motiva	Small	1969 (115)
Isobutyraldehyde	Rail	Large	2045 (129)
Isobutyl Alcohol	Dow, Rail	Small	1212 (129)
Isobutyronitrile	Rail	Large	2284 (131)
Isopentane	Shell Norco, Dow, Motiva	No Hazard	1265 (128)
Isophrone Diamine	Rail	Small	2289 (153)
Isopropyl Alcohol	Rail	Large	1219 (129)
	Dow, Witco, Dow Poly, Oxy, Motiva., Shell Norco	Small	1219 (129)
Isopropyl Ether	Witco, Truck	No Hazard	N/A

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Isopropylamine	Rail	Large	1221 (132)
Kemamine	Dow	No Hazard	N/A
Kerosene	L. Gypsy, Motiva, Dow, Calciner, Orion	Small	1223 (128)
Jet Fuel #6	Orion, Motiva.	Small	1223 (128)
Liquified Petroleum Gas	L. Gypsy, Orion, W1&2, Dow, Truck, Rail	Small	1972 (115)
Mercaptopropionic Acid	Witco	No Hazard	N/A
Meta Toullic Acid (MTA)	Witco	No Hazard	N/A
Methacrylic Acid	Rail	Large	2531 (153P)
Methane	Shell Norco, Motiva, Dow, LA Resources, Oxy	Small	1971 (115)
Methane Sulfuric Acid	Witco	No Hazard	N/A
Methanol	IMC, Motiva, Dow, Witco, LA Resources, Truck, Orion, Ship, Rail	Small	1230 (131)
Methoxydihydropyran	Dow	Large	1993 (128)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
2-Methoxyethanol	Dow	Large	1188 (127)
Methoxyethanol	Dow	No Hazard	N/A
Methoxydiglycol	Dow	No Hazard	N/A
Methyl Acetate	Dow	No Hazard	1231 (129)
Methyl Acrylate	Witco	No Hazard	1919 (129P)
Methylamine	Rail	Large	1061 (118)
Methyl Carbitol	Dow	No Hazard	N/A
Methyl Cellosolve	Dow, Truck, Ship	No Hazard	N/A
Methyl Chloride	Witco, Truck, Rail	Large	1063 (115)
Methyldiethanolamine	Motiva	No Hazard	N/A
Methyl Ethyl Ketone	L. Gypsy, Shell Norco, Truck, Ship, Rail	No Hazard	1193 (127)
Methyl Formate	Dow	No Hazard	1243 (129)
Methyl Mercaptan	Dow, Rail	Small	1064 (117)
Methyl Mercapto Propionate	Witco	Small	1993 (128)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Methyl Seenate	Witco	No Hazard	N/A
Methyl Tertiary Butyl	Motiva	No Hazard	N/A
Methyl Tin Trichloride	Witco	No Hazard	N/A
Monobutyl Chloride	Witco	Large	1127 (130)
Monochloroacetic Acid	Witco	Small	1750 (153)
Monoethanolamine	Dow	No Hazard	2491 (153)
Monomethyl Tin Trichloride	Witco	Small	(NL)
Morpholine	Orion, Dow, L. Gypsy, Rail	Large	2054 (132)
Myrcene	Dow	No Hazard	N/A
Myristyl Alcohol	Witco	No Hazard	N/A
Nalco Treatment Products (Various Product Numbers)	Basell, Shell Norco, Witco, Oxy, Motiva	No Hazard	N/A
Naphtha	Motiva, Dow, Orion, Calciner, L. Gypsy, Truck, Ship, Rail	Small	1255 (128)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Neo Decanoic Acid	Witco	No Hazard	N/A
Nickel Carbonyl	Motiva	No Hazard	1259 (131)
Nickel Chloride	Oxy	No Hazard	9139 (151)
Nitrous Oxide	Motiva	No Hazard	1070 (122)
Nitrogen	L. Gypsy, W1&2, Nexen, Dow, Oxy, Praxair, Orion, Air Liq., Dow Poly, Motiva, Shell Norco, Basell	Small	1066 (121)
Nitrous Oxide	Witco, Motiva	No Hazard	1070 (122)
Noephyl Chloride	Witco	No Hazard	N/A
Octene	Dow	No Hazard	N/A
Oxygen	Praxair, Orion, Witco, Oxy, Shell Norco, Air. Liq., Motiva, Dow, L. Gypsy	Small	1072 (122)
Peracetic Acid	Dow	Small	2131 (147)
Petroleum Ether	Orion	No Hazard	1271 (128)
Petroleum Naphtha	L. Gypsy	No Hazard	1255 (128)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Phenol (Molten)	Rail	Large	2312 (153)
Phenothiazine	Shell Norco, Dow	No Hazard	N/A
Phenylenediamine	Dow	No Hazard	1673 (153)
Phosphoric Acid	Orion, IMC, Shell Norco, Dow, Oxy, Witco, Ship, Rail	Small	1805 (154)
Phosphorus	Rail	Large	1381 (136)
Phosphorus Trichloride	Rail	Large	1809 (137)
Phthalic Anhydride	Shell Norco, Rail	No Hazard	2214 (156)
Piperazine	Dow	No Hazard	2579 (153)
Polyethylene Polyamine	Dow	No Hazard	N/A
Potassium Bisulfite	Basell	No Hazard	2693 (154)
Potassium Hydroxide	Basell, Witco, Rail	No Hazard	1813 (154)
Potassium Permanganate	Dow	No Hazard	1490 (140)
Potassium Thiocyanate	Witco	No Hazard	N/A

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Propane	Koch, Dow, L. Gypsy, Oxy, Motiva, Shell Norco, Truck, Ship	Small	1978 (115)
1-Propanol	Rail	Large	1274 (129)
Propanone	Oxy	No Hazard	N/A
Propyl Alcohol	Motiva	Small	1274 (129)
Propylene	Shell Norco, Orion, Dow Poly, Motiva, Truck, Ship, Rail	Small	1075 (115)
Propylene Dichloride	Rail	Large	1279 (130)
Propylene Glycol	Witco, Dow	No Hazard	N/A
Propylene Oxide	Rail	Large	1280 (127P)
Pyridine	Dow	No Hazard	1282 (129)
Pyrolysis Gas Blend	Motiva	No Hazard	N/A
Pyrolysis Gasoline	Motiva, Dow, Ship	No Hazard	N/A
Soda Lime	Praxair	Large	1907 (154)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Sodium Benzoate	Dow Poly, Motiva	No Hazard	N/A
Sodium Bichromate	Nexen	No Hazard	N/A
Sodium Carbonate	Witco, W1&2	No Hazard	N/A
Sodium Chlorates	Oxy, Nexen, Truck, Rail	Small	1495 (140)
Sodium Cyanide	Rail	Large	1689 (157)
Sodium Dioxide	Oxy	Large	1504 (144)
Sodium Hydroxide	Orion, L. Gypsy, Nexen, Oxy, Shell Norco, W1&2, Rail, Witco, Dow, Basell, Truck	Large	1824 (154)
	Motiva	Small	1824 (154)
Sodium Hydrosulfide	Witco	Large	2922 (154)
Sodium Hypochlorite	Motiva, Dow Poly, Air Liq., Dow, Shell Norco	No Hazard	N/A
Sodium Molybdate	Witco	No Hazard	N/A
Sodium Nitrate	L. Gypsy	No Hazard	1498 (140)
Sodium Nitrite	Basell, Motiva, L. Gypsy	No Hazard	1500 (140)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Sodium Phosphate	L. Gypsy	No Hazard	9147 (171)
Sodium Silicate	W1&2	No Hazard	N/A
Sodium Sulfide	Witco, Rail	No Hazard	1385 (135)
Sodium Sulfite	Motiva, Oxy, Dow, Nexen	No Hazard	N/A
Sodium Tetraborate	L. Gypsy	No Hazard	N/A
Sodium Thiosulfate	Oxy, Shell Norco	No Hazard	N/A
Sodium Throcyanate	Witco	No Hazard	N/A
Stannic Chloride	Witco	Large	1827 (137)
Stearyl Alcohol	Witco	No Hazard	N/A
Styrene	Dow, Rail	Small	2055 (128P)
Styrene Oxide	Dow	No Hazard	N/A
Sulfur	IMC, Oxy, Rail, Orion, Truck, Motiva, Ship	Small	1350 (133)
Sulfur Chloride	Oxy, Rail	No Hazard	1828 (137)
Sulfur Dioxide	Dow, Rail	Large	1079 (125)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Sulfur Monochloride	Oxy, Truck	Large	1828 (137)
Sulfuric Acid	Shell Norco, Air Liq., Dow, Dow Poly, Basell, Motiva, LA Resources, L. Gypsy, Rail	Small	1831 (137)
Sulfuric Acid (fuming)	L. Gypsy, W1&2, Oxy, Orion, Witco, IMC, Truck	Large	1831 (137)
Tetrabutyltin	Witco	No Hazard	N/A
Tetraethylenepentamine	Dow, Rail	No Hazard	2320 (153)
Tetrahydrobenzal	Dow	No Hazard	N/A
Tetrahydrofuran	Witco, Dow, Truck, Rail	Small	2056 (127)
Tetrahydronaphthalene	Dow	No Hazard	N/A
Tetramethylammonium	Shell Norco	No Hazard	1835 (153)
Tetraoctyltin	Witco	No Hazard	N/A
Tetraphenol Ethane	Shell Norco	No Hazard	N/A
Thiapentanal	Dow	No Hazard	2785 (152)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Thiodipropionic Acid	Witco	No Hazard	N/A
Thioglycolic Acid	Witco, Rail	No Hazard	1940 (153)
Titanium	Basell	No Hazard	2546 (135)
Titanium Trichloride	Basell, Dow, Truck	No Hazard	2869 (157)
Toluene	Shell Norco, Orion, Witco, Motiva, Rail	Small	1294 (130)
Toluene Sulfonic Acid	Witco	No Hazard	2585 (153)
Topanol	Witco	No Hazard	N/A
Trichlorethene	Praxair, Motiva	Large	1710 (160)
Trichloroethane	Dow, Air Liq., Motiva	No Hazard	2831 (160)
Trichlorofluoromethane	Basell	No Hazard	N/A
Tridecyl Alcohol	Witco	Small	(127)
Triethanolamine	Dow	No Hazard	9151 (171)
Triethylamine	Witco	No Hazard	1296 (132)
Triethylaluminum Chloride	Truck, Dow	No Hazard	N/A

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Triethylene Glycol	Dow, Orion	No Hazard	N/A
Triethylene Tetramine	Dow, Rail	No Hazard	N/A
Trimethyl Aluminum	Dow, Dow Poly	No Hazard	N/A
Trimethylamine	Rail	Large	1083 (118)
Trineophltin Oxide	Witco	No Hazard	N/A
Trisodium Phosphate	Witco, Air Liq.	No Hazard	N/A
Triphenylphosphine	Witco	No Hazard	N/A
Tripropylaluminum	Orion	No Hazard	N/A
Trisodium Phosphate	Air Liq.	No Hazard	N/A
Undecane	Dow	No Hazard	2330 (128)
Vandium Pentoxide	Dow	No Hazard	2862 (151)
Varsol	Orion	No Hazard	(NL)
Vinyl Acetate	Rail	Large	1301 (129P)
Vinyl Chloride	Dow, Rail	Large	1086 (116P)

TOXIC CHEMICAL HAZARDS (CONT'D)

II. ANALYZED CHEMICALS (CONT'D)

<u>Chemical</u>	<u>Source</u>	<u>Hazard Potential</u>	<u>I.D. # & (DOT Guide)</u>
Vinylidene Chloride	Rail	Large	1303 (129P)
Vinyl Methyl Ether	Dow, Rail	Large	1087 (116P)
Xylene	Praxair, Rail	Small	1307 (130)
Zinc Oxide	Dow Poly	No Hazard	N/A

RESPONSE EVALUATION

1.0 Determine if Waterford 3 is downwind from a release by:

NOTE

If the wind direction is within ± 45 degrees of the WORST CASE WIND DIRECTION (See Section 1.1) then Waterford 3 is considered to be downwind

NOTE

Obtain meteorological data from the Plant Monitoring Computer, "GD METDATA". Use 15-Minute averaged meteorological data, when available. If 15-Minute averaged data is not available, then use instantaneous values.

WIND DIRECTION (POINT C48530) = from _____ degrees (+45° _____ -45° _____)

WIND DIRECTION WORST CASE (Section 1.1) = from _____ degrees

IS WATERFORD 3 DOWNWIND? YES _____ NO _____

1.1 CHEMICAL FACILITIES WITHIN 5 MILES OF WATERFORD 3

<u>Acronym</u>	<u>Facility</u>	<u>Distance</u>	<u>Worst Case Wind Direction (wind coming from)</u>
Air Liq.	Air Liquide	1.25 Miles	105 Degrees
N/A	Calciner	4.5 Miles	80 Degrees
Nexen	NEXEN Chemical	0.8 Miles	145 Degrees
Dow Poly	Dow Poly	4.0 Miles	75 Degrees
Dupont	Dupont Pontchartrain Works	4.7 Miles	325 Degrees
IMC	IMC Agrico	0.6 Miles	110 Degrees
Koch	Koch Nitrogen	0.8 Miles	145 Degrees

RESPONSE EVALUATION (CONT'D)

1.1 CHEMICAL FACILITIES WITHIN 5 MILES OF WATERFORD 3 (CONT'D)

<u>Acronym</u>	<u>Facility</u>	<u>Distance</u>	<u>Worst Case Wind Direction (wind coming from)</u>
L. Gypsy	Little Gypsy SES	0.6 Miles	25 Degrees
LA Resources	Louisiana Resources	2.8 Miles	105 Degrees
Oxy	Occidental Chemical	0.8 Miles	130 Degrees
N/A	Praxair	1.25 Miles	115 Degrees
N/A	Shell Norco	2.75 Miles	80 Degrees
Motiva	Motiva Refinery	3.5 Miles	85 Degrees
N/A	Basell	1.5 Miles	135 Degrees
Orion	Orion Refinery	3.9 Miles	90 Degrees
Dow	Dow St Charles Operations	1.25 Miles	120 Degrees
W1&2	Waterford 1 & 2 SES	0.36 Miles	295 Degrees
Witco	Witco Chemical	1.75 Miles	130 Degrees
*Dock	River Docking Facility	1 Mile	95 Degrees

*Use as a conservative estimate for any releases reported within 5 miles from a chemical plant docking facility on the West Bank of the Mississippi River.

RESPONSE EVALUATION (CONT'D)

2.0 Determine Response Time by:

<p>A. PLUME TRAVEL TIME (MINUTES) = [RELEASE POINT DISTANCE (MILES)⁽¹⁾ ÷ WIND SPEED (C48526)]⁽²⁾ _____ = [_____ ÷ _____] x 60</p> <p>NOTE: If Release Start Time is not known, use the time message was received.</p> <p>B. PLUME ARRIVAL TIME (HH:MM) = PLUME TRAVEL TIME (MINUTES) + RELEASE START TIME (HH:MM) _____ = _____ + _____</p> <p>C. RESPONSE TIME (MINUTES) = PLUME ARRIVAL TIME (HH:MM) - CURRENT TIME (HH:MM) _____ = _____ - _____</p>
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Footnotes:

- (1) Distance for fixed chemical facilities within 5 miles of Waterford 3 can be found in Section 1.1.
- (2) The Back-up Meteorological Tower Point ID is C48614.

STANDBY

NOTE

It is the policy of Waterford 3 SES that the procedural steps outlined in this Tab be followed to the maximum practical extent. It is recognized that unforeseen factors may arise which make predetermined actions ineffective or impractical in certain circumstances. Operations personnel may use discretion in taking alternative courses of action based on available information and exercise prudent judgement in response to toxic chemical situations.

1. The Shift Manager should evaluate all plant activities presently in progress to ensure that they are in a configuration that allow for rapid conclusion in the event that the situation deteriorates (i.e., refueling activities, activities in CAA, maintenance evolutions, etc.).

2. Declare an UNUSUAL EVENT.

3. Sound the STATION ALARM and make the following announcement:

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!
DUE TO A TOXIC CHEMICAL EMERGENCY SITUATION AT (state the company's name), AN UNUSUAL EVENT WAS DECLARED AT (announce time of declaration using 24-hour clock). PRESENT CONDITIONS ARE SUCH THAT WE ARE IN NO DANGER. ALL PERSONNEL SHOULD CONTINUE WITH THEIR NORMAL DUTIES UNLESS FURTHER INSTRUCTION IS GIVEN.

4. Sound the STATION ALARM and repeat the announcement at least two more times, allowing sufficient time for personnel who may be in high noise areas to reach a location where the announcement can be heard.

STANDBY (CONTINUED)

NOTE

If an UNUSUAL EVENT has been declared, and in the opinion of the SM/EC contacting the Duty Plant Manager prevents completing the offsite notifications within the 15 minute regulatory requirement, then the SM/EC should direct the Emergency Communicator to begin offsite notifications (Step 6 below).

5. Make initial contact with the Duty Plant Manager (DPM).
 - 5.1 If the DPM can not be reached, then contact any of the alternate DPM's.
 - 5.2 Upon contact with the DPM, discuss the following:
 - A. Nature of the situation.
 - B. Classification (Waterford 3 classification and the offsite classification received over the Industrial Hotline, if applicable).
 - C. Action taken or to be taken.
 - D. Whether the DPM is needed onsite and if he can safely report to the Control Room.
 - E. Advise the DPM to contact the following personnel:

Duty EOF Director

Duty Technical Spokesperson

STANDBY (CONTINUED)

NOTE

A Short Message Form (Attachment 7.6 of EP-002-010) may be used for offsite notification. If the Short Message Form is used, then it should be followed as soon as possible with a completed Notification Message Form.

6. Complete Attachment 7.3 of EP-002-010 and provide the form and the agencies to be notified to the Emergency Communicator.

6.1 Direct the Emergency Communicator to commence offsite notifications of the appropriate agencies listed below in accordance with EP-002-010.

- A. Notify the following within 15 minutes of declaration:

- St. Charles Parish
- St. John the Baptist Parish
- Louisiana Department of Environmental Quality (LDEQ)
- Louisiana Office of Emergency Preparedness (LOEP)
- Waterford 1&2

- B. Notify the Nuclear Regulatory Commission (NRC) immediately after the above notifications, but not later than one hour after declaration

7. Direct the Emergency Communicator to activate the VNS Toxic Chemical Emergency scenario in accordance with Attachment 7.8.

STANDBY (CONTINUED)

NOTE

In accordance with agreements, periodic updates to Operational Hotline Members are not required, and 60 minute updates are considered to be automatically relaxed, during toxic chemical events except to communicate classification changes, protective measures, changes in plant status and event close out information or if new pertinent information becomes available.

8. When significant changes in plant conditions occur or as requested, then direct the Emergency Communicator to update the NRC in accordance with EP-002-010 .
9. When new information becomes available, then re-evaluate the situation in accordance with Attachment 7.2 of this procedure.
10. Evaluate the present situation and determine if there is a need to evacuate non-essential personnel. The following items should be considered:
 - A. The expected duration of the emergency situation.

NOTE

The National Weather Service can be contacted to determine if a change in weather conditions or wind shift is probable. See Emergency Management Resources Book for National Weather Service contact number.

- B. Weather condition.
- C. Time of day and number of persons on site (outage versus normal operations).
- D. Support personnel requirements.
- E. Perceived magnitude of the emergency situation.

STANDBY (CONTINUED)

11. If it is determined that an evacuation is necessary, then implement the following:

11.1 Evacuate key emergency response personnel to the appropriate staging area (i.e., OSC Supervisor and 4 individuals from each electrical, I&C and mechanical discipline).

11.1.2 Choose either:

A. Luling Entergy Office

B. Reserve Entergy Office

11.1.3 Determine the safest evacuation route to the selected Staging Area.

11.2 Send home all personnel who are not needed to support emergency operations.

12. If the situation that caused the UNUSUAL EVENT to be implemented has been resolved and all of the criteria on the Emergency Coordinator's Close-Out Checklist (Attachment 7.7) have been met, then the Unusual Event can be terminated.

12.1 Sound the Station Alarm and make the following announcement:

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!
SECURE FROM UNUSUAL EVENT. THE TOXIC CHEMICAL EMERGENCY SITUATION AT (state affected company's name) NO LONGER EXISTS.

12.2 Sound the Station Alarm and repeat the announcement at least two more times, allowing sufficient time for personnel who may be in high noise areas to reach a location where the announcement can be heard.

13. Commence Recovery activities in accordance with TAB D of this procedure.

SITE EVACUATION

NOTE

It is the policy of Waterford 3 SES that the procedural steps outlined in this Tab be followed to the maximum practical extent. It is recognized that unforeseen factors may arise which make predetermined actions ineffective or impractical in certain circumstances. Operations personnel may use discretion in taking alternative courses of action based on available information and exercise prudent judgement in response to toxic chemical situations.

NOTE

This Tab contains instructions for both an evacuation of the site and a controlled evacuation.

1. If all site personnel can not be evacuated prior to plume arrival, then SHELTER site personnel and commence a controlled evacuation as soon as possible.
2. Select a Staging Area:
 - 2.1 Choose either:
 - A. Luling Entergy Office
 - B. Reserve Entergy Office
 - 2.2 Determine the safest evacuation route to the selected Staging Area.
3. Select an Offsite Assembly Area:
 - 3.1 Choose either:
 - A. St. John the Baptist Catholic Church in Edgard
 - B. Monsanto Park in Luling
 - 3.2 Determine the safest evacuation route to the selected Offsite Assembly Area.

SITE EVACUATION (CONTINUED)

4. Advise the SSS to prepare for the impending evacuation.
5. If the Site Evacuation is being performed, then declare an Alert.
6. Sound the Station Alarm and make the following announcement:
 - 6.1 ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!
DUE TO A TOXIC CHEMICAL EMERGENCY AT (state the company name), AN ALERT WAS DECLARED AT (announce time of declaration using 24 hour clock). WE ARE NOW PERFORMING A PRECAUTIONARY EVACUATION OF WATERFORD 3. NON-ESSENTIAL PERSONNEL EVACUATE TO (state either Monsanto Park in Luling or St. John the Baptist Church in Edgard). ESSENTIAL PERSONNEL ASSEMBLE AT (state selected Staging Area). PERSONNEL IN CONTROLLED ACCESS AREAS PROCEED TO THE HEALTH PHYSICS CONTROL POINT PRIOR TO EXITING.
 - 6.1.1 Sound the Station Alarm and repeat the announcement at least two more times to allow sufficient time for personnel who may be in high noise areas to reach a location where the announcement can be heard.

NOTE

A Short Message Form (Attachment 7.6 of EP-002-010) may be used for offsite notification. If the Short Message Form is used, then it should be followed as soon as possible with a completed Notification Message Form.

7. Complete Attachment 7.3 of EP-002-010 and provide the forms and the agencies to be notified to the Emergency Communicator.
 - 7.1 Ensure the notification forms include the fact that Waterford 3 is evacuating site personnel and the Assembly Area to which site personnel are being sent.
 - 7.2 Direct the Emergency Communicator to commence offsite notifications of the appropriate agencies listed below in accordance with EP-002-010:

SITE EVACUATION (CONTINUED)

7.3 Notify the following within 15 minutes of declaration:

- St. Charles Parish
- St. John the Baptist Parish
- Louisiana Department of Environmental Quality (LDEQ)
- Louisiana Office of Emergency Preparedness (LOEP)
- Waterford 1 & 2

7.4 Notify the Nuclear Regulatory Commission (NRC) immediately after the above notifications, but not later than one hour after declaration.

8. If not already performed, then direct the Emergency Communicator to activate the VNS Toxic Chemical Emergency scenario in accordance with Attachment 7.8.
9. If not already performed, then activate ERDS in accordance with Attachment 7.9, Activation/Deactivation of the Emergency Response Data System (ERDS).

NOTE

In accordance with agreements, periodic updates to Operational Hotline Members are not required, and 60 minute updates are considered to be automatically relaxed, during toxic chemical events except to communicate classification changes, protective measures, changes in plant status and event close out information, or if new pertinent information becomes available.

10. When significant changes in plant conditions occur or as requested, in accordance with EP-002-010, then direct the Emergency Communicator to update the NRC.

SITE EVACUATION (CONTINUED)

11. If the entire site population cannot be evacuated at the same time due to time constraints, then consider the following:

11.1 Evaluate the present conditions to determine the areas of the plant most affected by the toxic chemical release and the location of the sheltered site personnel.

11.2 Determine which areas can be quickly evacuated or relocated and establish the order in which the Controlled Evacuation occurs.

11.3 Select the appropriate Offsite Assembly Area or Staging Area and determine the safest/quickest evacuation routes.

11.4.1 Apprise the SSS of the decision to commence a Controlled Evacuation and the areas that are to be evacuated first

11.5 Sound the Station Alarm and make the following announcement:

11.5.1 ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!

DUE TO A TOXIC CHEMICAL EMERGENCY AT (state the company name), AN ALERT WAS DECLARED AT (announce time of declaration using 24 hour clock). WE ARE NOW PERFORMING A CONTROLLED EVACUATION OF WATERFORD 3. NON-ESSENTIAL PERSONNEL IN THE FOLLOWING AREAS (state areas to be evacuated) EVACUATE TO (state either Monsanto Park in Luling or St. John the Baptist Church in Edgard). ESSENTIAL PERSONNEL IN THE FOLLOWING AREAS (state areas to be evacuated) ASSEMBLE AT (state selected Staging Area). PERSONNEL IN CONTROLLED ACCESS AREAS PROCEED TO THE HEALTH PHYSICS CONTROL POINT PRIOR TO EXITING.

11.6 Coordinate the Controlled Evacuation with the SSS.

11.7 Repeat message as necessary for additional evacuated areas.

SITE EVACUATION (CONTINUED)

12. Contact the Assembly Area Supervisor and provide the following information:

12.1 Brief description of the emergency situation.

12.2 Selected Assembly Area.

12.3 Selected evacuation route to the Assembly Area.

12.4 Backup EOF telephone number to call for instructions. []

12.5 Instruct the Assembly Area Supervisor to report directly to the selected Assembly Area without picking up the Assembly Area Supervisor kit from the plant (if responding from offsite).

12.6 Ensure that the Assembly Area Supervisor understands the need to establish telephone contact with the Backup EOF upon mustering the evacuated personnel.

13. Contact the Duty OSC Supervisor and provide the following information:

13.1 Brief description of the emergency situation.

13.2 Selected Staging Area.

13.3 Selected evacuation route to the Staging Area.

13.4 Backup EOF telephone number to call for instructions. []

13.5 Direct the OSC Supervisor to select 4 individuals from the electrical, I&C and mechanical maintenance disciplines and to dispatch these individuals to the designated Staging Area.

13.6 Instruct the OSC Supervisor to report directly to the selected Staging Area and implement EP-004-015.

THE MATERIAL CONTAINED WITHIN THE SYMBOLS [] IS PROPRIETARY OR PRIVATE INFORMATION.

SITE EVACUATION (CONTINUED)

14. Make initial contact with the Duty Plant Manager (DPM).

14.1 If the DPM can not be reached, then contact any of the alternate DPM's.

14.2 Upon contact with the DPM, discuss the following:

14.2.1 Nature of the situation.

14.2.2 Classification (Waterford 3 classification and the offsite classification received over the Industrial Hotline, if applicable).

14.2.3 Action taken or to be taken.

14.2.4 Whether the DPM is needed onsite and if he can safely report to the Control Room.

14.2.5 Advise the DPM to contact the:

A. Duty EOF Director

B. Duty Technical Spokesperson

14.2.6 Request that the DPM coordinate the activation of the following with the EOF Director in accordance with EP-004-020:

A. Back-up EOF

B. Designated Staging Area

15. Contact the SSS and ensure that the following steps are conducted:

15.1 Post signs at the entrance to the PAP advising persons that entrance to the plant is restricted and of the need to remain in the PAP until the toxic chemical threat has passed.

SITE EVACUATION (CONTINUED)

- 15.2 Prevent persons from entering the plant until the toxic chemical threat has passed.
- 15.3 Request that Security perform a "Roll Call" of personnel left in the Protected Area after the evacuation and provide a list of remaining personnel to the Control Room via telephone.
- 15.4 Persons may gain entrance to the plant during access control restrictions only by the direct authorization of the SM or Emergency Coordinator.
16. Assemble and account for all shift personnel located in the Control Room and brief them on the present toxic chemical release situation.
 - 16.1 Ensure that personnel departing the Control Room envelope are accounted for by directing them to maintain contact by radio or other available means with the Control Room within an assigned call back frequency.
 - 16.2 Ensure that personnel performing assigned tasks outside of the Control Room envelope are provided with the appropriate safety equipment.
 - 16.3 If personnel and plant safety are not jeopardized, then a search should be made for those individuals that are not accounted for using available staff resources.

NOTE

If toxic chemicals are detected via a HIGH-HIGH alarm on Toxic Gas Detector Channel 1 (C-9 on CP-36) and Channel 2 (C-10 on CP-36), or in the opinion of the SM/EC, indications exist that toxic chemicals have intruded within the Protected Area, then GO TO TAB C, SHELTER.

17. If new information becomes available, then re-evaluate the situation in accordance with Attachment 7.2 of this procedure.

SITE EVACUATION (CONTINUED)

18. If the situation that caused the site evacuation/Alert to be implemented has been resolved and all of the criteria on the Emergency Coordinator's Close-Out Checklist (Attachment 7.7) have been met, then contact the selected Assembly Area or Staging Area and direct that evacuated personnel return to the site and resume normal work activities.
19. Notify the SSS that the evacuated personnel are returning to the site.
20. Commence Recovery activities in accordance with TAB D of this procedure.

SHELTER

NOTE

It is the policy of Waterford 3 SES that the procedural steps outlined in this Tab be followed to the maximum practical extent. It is recognized that unforeseen factors may arise which make predetermined actions ineffective or impractical in certain circumstances. Operations personnel may use discretion in taking alternative courses of action based on available information and exercise prudent judgement in response to toxic chemical situations.

NOTE

A list of On-Site Toxic Chemical Shelters can be found in Attachment 7.11.

1. If station personnel are being sheltered due to a verified toxic chemical emergency, then declare an Alert.
 - 1.1 Sound the Station Alarm and make the following announcement:

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!
AN ALERT WAS DECLARED AT (announce the time of declaration using 24-hour clock) DUE TO A TOXIC CHEMICAL EMERGENCY AT (state the company name). SHELTER, SHELTER, SHELTER. GO TO AN APPROVED TOXIC CHEMICAL SHELTER, SHUT ALL WINDOWS AND DOORS. SECURE BUILDING VENTILATION SYSTEMS, AS POSTED, AND REMAIN INSIDE UNTIL FURTHER INSTRUCTIONS ARE PROVIDED.
 - 1.2 Sound the Station Alarm and repeat the announcement at least two more times to allow sufficient time for personnel who may be in high noise areas to reach a location where the announcement can be heard.
2. Make frequent announcements to inform the site personnel as to the cause and status of the sheltering situation.
3. If not already performed, then establish Control Room habitability in accordance with OP-901-520 and don emergency respiratory protective equipment.

SHELTER (CONTINUED)

NOTE

If in the opinion of the SM/EC contacting the Duty Plant Manager prevents completing the offsite notifications within the 15 minute regulatory requirement, then the SM/EC should direct the Emergency Communicator to begin offsite notifications (Step 5 below).

4. Make initial contact with the Duty Plant Manager (DPM).
 - 4.1 If the DPM can not be reached, then contact any of the alternate DPM's.
 - 4.2 Upon contact with the DPM, discuss the following:
 - A. Nature of the situation.
 - B. Classification (Waterford 3 classification and the offsite classification received over the Industrial Hotline, if applicable).
 - C. Action taken or to be taken.
 - D. Whether the DPM is needed onsite and if he can safely report to the Control Room.
 - E. Advise the DPM to contact the:
 - Duty EOF Director
 - Duty Technical Spokesperson
 - F. Request that the DPM coordinate the activation of the Backup EOF with the EOF Director, in accordance with EP-004-020.

SHELTER (CONTINUED)

NOTE

A Short Message Form (Attachment 7.6 of EP-002-010) may be used for offsite notifications. If the Short Message Form is used, then it should be followed as soon as possible with a completed Notification Message Form.

5. Complete Attachment 7.3 of EP-002-010 and provide the forms and the agencies to be notified to the Emergency Communicator.
 - 5.1 Ensure the notification forms include the fact that Waterford 3 is sheltering site personnel. Direct the Emergency Communicator to commence offsite notifications of the appropriate agencies listed below in accordance with EP-002-010, and notify the following within 15 minutes of declaration
 - St. Charles Parish
 - St. John the Baptist Parish
 - Louisiana Radiation Protection Department (LDEQ)
 - Louisiana Office of Emergency Preparedness (LOEP)
 - Waterford 1&2
 - 5.2 Notify the Nuclear Regulatory Commission (NRC) immediately after the above notifications, but not later than one hour after declaration
6. If not already performed, then direct the Emergency Communicator to activate the VNS Toxic Chemical Emergency scenario in accordance with Attachment 7.8.
7. If not already performed, then activate ERDS in accordance with Attachment 7.9, Activation/Deactivation of the Emergency Response Data System (ERDS).

SHELTER (CONTINUED)

NOTE

In accordance with agreements, periodic updates to Operational Hotline Members are not required, and 60 minute updates are considered to be automatically relaxed, during toxic chemical events except to communicate classification changes, protective measures changes, changes in plant status and event close out information, or if new pertinent information becomes available.

8. Direct the Emergency Communicator to update the OHL members as appropriate.
9. When significant changes in plant conditions occur or as requested, in accordance with EP-002-010, then direct the Emergency Communicator to update the NRC:

NOTE

With high levels of toxic chemicals onsite, the Reactor Auxiliary Building (outside of the Control Room envelope), Fuel Handling Building, and the Turbine Building are not considered to be effective shelter areas. See Attachment 7.11 for the listing of Onsite toxic chemical shelters or refer to Attachment 7.6 (1 of 3).

10. Assemble and account for all shift personnel located in the Control Room and brief them on the present toxic chemical release situation.
 - 10.1 Ensure that personnel departing the Control Room envelope are accounted for by directing them to maintain radio contact with the Control Room within an assigned call back frequency.
 - 10.2 Ensure that personnel performing assigned tasks outside of the Control Room envelope are provided with the appropriate safety equipment.
 - 10.3 If personnel and plant safety are not jeopardized, then a search should be made for those individuals that are not accounted for using available staff resources,.

SHELTER (CONTINUED)

- 11. Advise the SSS of the need to shelter site personnel and request the following:
 - 11.1 Post signs at the entrance to the PAP advising persons that entrance to the plant is restricted and of the need to remain in the PAP until the toxic chemical treat has passed.
 - 11.2 Prevent persons from entering the plant until the toxic chemical threat has passed.
 - 11.3 Persons may gain entrance to the plant during access control restrictions only by the direct authorization of the SM/Emergency Coordinator.
- 12. Evaluate the present status of the toxic chemical release to determine if there is time to commence an Evacuation of sheltered site personnel. The following items should be considered:

- A. The expected duration of the emergency situation.

NOTE

Contact National Weather Service to determine if change in weather conditions or wind shift is probable. See Emergency Management Resources Book for National Weather Service contact number.

- B. Weather condition.
 - C. Time of day and number of persons on site (outage versus normal operations).
 - D. Support personnel requirements.
 - E. Perceived magnitude of the emergency situation.
- 12.1 If an evacuation is called for, then refer to Tab B, Site Evacuation.

SHELTER (CONTINUED)

13. If station personnel have been sheltered for a continuous 30 minute period in the presence of a large hazard chemical environment onsite, then declare a SITE AREA EMERGENCY.

13.1 Sound the STATION ALARM and make the following announcement:

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!
A SITE AREA EMERGENCY WAS DECLARED AT (announce the time of declaration using 24-hour clock) DUE TO A TOXIC CHEMICAL EMERGENCY AT (state the company name). SHELTER, SHELTER, SHELTER. REMAIN IN AN APPROVED TOXIC CHEMICAL SHELTER, DO NOT OPEN WINDOWS OR DOORS. DO NOT USE BUILDING VENTILATION SYSTEMS AND ENSURE SYSTEMS ARE SECURED AS POSTED. REMAIN INSIDE UNTIL FURTHER INSTRUCTIONS ARE PROVIDED.

13.2 Sound the STATION ALARM and repeat the announcement at least two more times to allow sufficient time for personnel who may be in high noise areas to reach a location where the announcement can be heard.

14. When new information becomes available, then re-evaluate the situation in accordance with Attachment 7.2 of this procedure.

15. If the situation that caused the Sheltering Condition to be implemented has been resolved and all of the criteria on the Emergency Coordinator's Close-Out Checklist (Attachment 7.7) have been met, then sheltering can be secured and personnel can resume normal work activities.

15.1 Sound the Station Alarm and make the following announcement:

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!
THE TOXIC CHEMICAL EMERGENCY AT (state the company name) HAS BEEN RESOLVED. ALL SITE PERSONNEL SHALL RESUME NORMAL WORK ACTIVITIES.

16. Commence Recovery activities in accordance with TAB D of this procedure.

RECOVERY

When the Toxic Chemical Contingency Procedure has been implemented, then the following Recovery activities occur when securing from the event.

1. Advise all agencies and organizations contacted during the course of the emergency that Waterford 3 SES no longer is in an emergency situation.
2. Notify Health Physics to inspect respiratory equipment used and ensure that inventory levels are returned to normal.
3. Restock and inventory emergency lockers that were opened in accordance with applicable inventory procedures.
4. Ensure that the breathing air system is fully charged and available for use.

NOTE

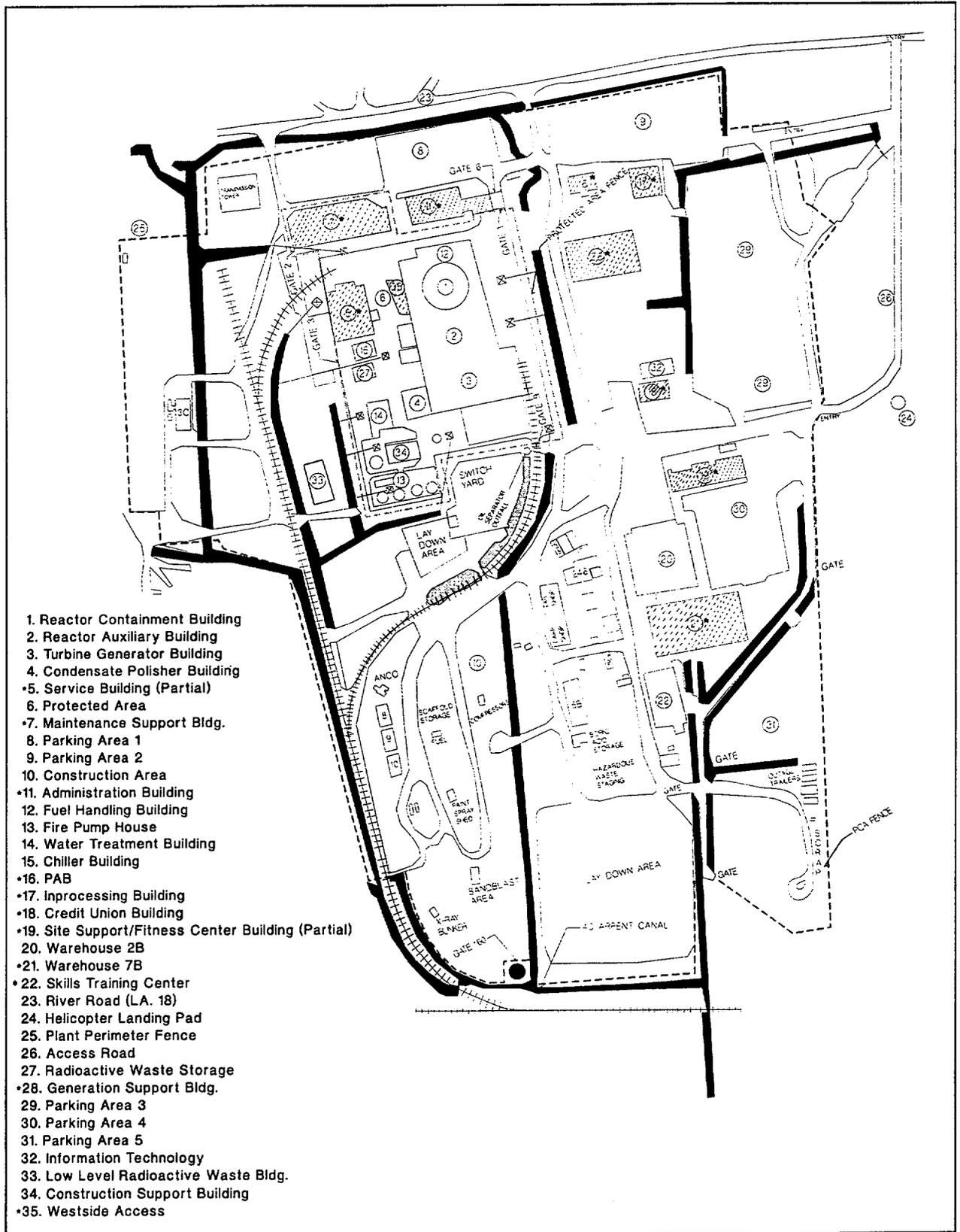
Consideration should be given to requesting assistance from St. Charles Parish to obtain the services of the Industrial Mutual Aid Members to provide equipment and personnel to perform sampling activities onsite.

5. If toxic chemicals actually intruded within the site boundary, then perform the following activities:
 - 5.1 Post and restrict access to all below ground level areas (i.e., basements, well pits, drainage ditches, depressions, etc.)
 - 5.2 Sample and determine that each restricted area has a safe environment, prior to releasing the area for general access in accordance with UNT-007-017.
 - 5.3 Request an Engineering evaluation of the effects of the toxic chemicals on the site (i.e., atmospheric vented tanks, electrical equipment, mechanical components, etc.).
 - 5.4 Sample the plant compressed air systems (Station Air, Instrument Air, and Breathing Air) to determine if systems have been contaminated by the toxic chemicals.

RECOVERY (CONTINUED)

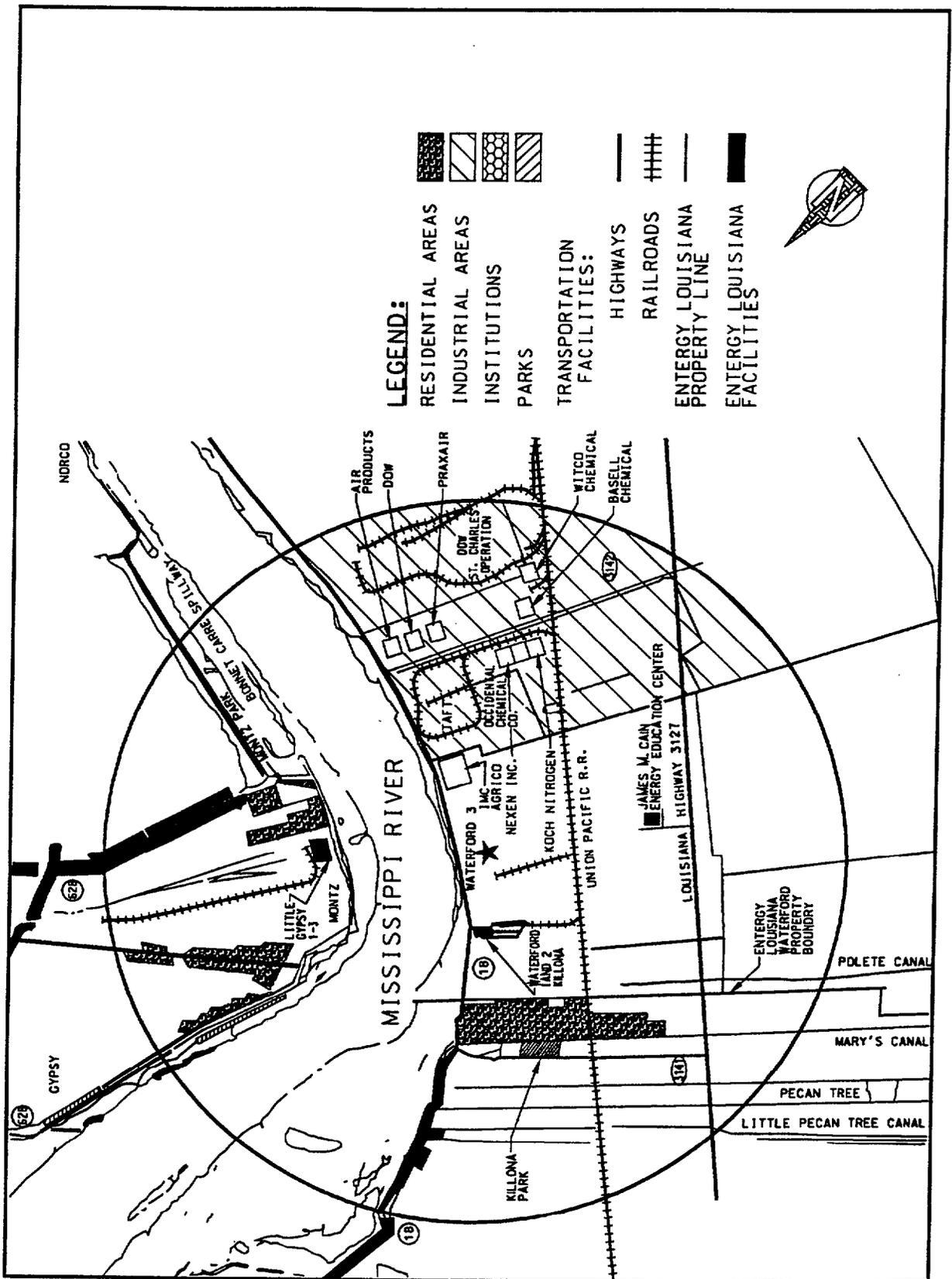
- 5.4.1 If contaminated, then blow down and purge the systems and evaluate the effects on equipment serviced by the affected air system.
6. Ensure all implementing procedures have been closed out or determined to remain active with responsibility for their completion and closure assigned to an individual.
7. Collect all documentation completed during the course of the emergency and forward to the Emergency Planning Coordinator.

WATERFORD 3 SITE



• Toxic Chemical Shelter

MAP B – MAJOR INDUSTRIES AND OIL & GAS FIELDS WITHIN 5 MILES OF WATERFORD-3



EMERGENCY COORDINATOR'S CLOSE-OUT CHECKLIST
TOXIC CHEMICAL EMERGENCY

INSTRUCTION

1. This checklist is used by the Emergency Coordinator to evaluate a decision to terminate an existing toxic chemical emergency condition. All criteria should be met.
2. This checklist, completed and signed by the Emergency Coordinator, is a prerequisite for initiation of Recovery activities in accordance with TAB D of this procedure.

CRITERIA

CRITERIA MET
(Initial)

- | | |
|--|-------|
| 1. Toxic chemical condition no longer exists <u>or</u> Attachment 7.3 lists the chemical as No Hazard. | _____ |
| 2. <u>If</u> the release is from an offsite source, <u>then</u> St. Charles Parish confirms that release is secured <u>and</u> the hazardous condition no longer exists. | _____ |
| 3. The plant is in a stable configuration with adequate core cooling. | _____ |
| 4. <u>All</u> safety systems necessary to maintain the plant in a stable configuration are operable. | _____ |
| 5. Any site damage is under control. | _____ |
| 6. <u>All</u> vital areas requiring occupancy are habitable. | _____ |
| 7. Site Security control is established. | _____ |

_____ Date: _____ Time: _____

Emergency Coordinator

VNS QUICK REFERENCE SHEET

TO ACTIVATE A VNS SCENARIO FROM THE TERMINAL:

1. Type the Control Room VNS Hot Key password, [], then press ENTER.
2. Use the ARROW keys to highlight the scenario you want to activate, then press ENTER.
3. Confirm your selection by pressing (Y) for Yes, then press ENTER.
4. When the scenario is activated, then the VNS will call the Emergency

IF DESIRED

5. Display the Status Screen by holding down the CTRL key and pressing "2" on the numeric keypad.
6. Return to the VNS program by holding down the CTRL key and pressing "1" on the numeric keypad.

TO ACTIVATE A VNS SCENARIO FROM THE TELEPHONE:

1. Dial [].
2. Enter the Control Room VNS password [].
3. Enter the appropriate scenario number.
4. When prompted, then press 9 to confirm the scenario selection.
5. When prompted, then press 9 to place the scenario in the Queue.
6. When prompted, then press 6 to use the existing scenario messages.
7. When prompted, then press 9 to activate the scenario.
8. Hang up.
9. The VNS will call the Emergency Communicator phone to confirm the scenario is running.

TO COMPLETE A VNS SCENARIO

1. Type the Control Room VNS password, [], then press ENTER.
2. Highlight "Execution", then press ENTER.
3. Use ARROW keys to highlight "Scenario Control", then press ENTER.
4. Use the PAGE DOWN key or the ARROW keys to highlight the active scenario, then press ENTER.

THE MATERIAL CONTAINED WITHIN THE SYMBOLS [] IS PROPRIETARY OR PRIVATE INFORMATION.

5. Use the ARROW keys to highlight "Stop Scenario", then press ENTER.
6. Press "Y" for Yes, then press ENTER, and the status of scenario will show "Completed".
7. Press ESC twice to return to the Main Menu.
8. Use the ARROW keys to highlight EXIT and then press ENTER twice.

ACTIVATION/DEACTIVATION OF THE EMERGENCY RESPONSE DATA SYSTEM (ERDS)

ERDS can be accessed from the following Plant Monitoring Computer (PMC) Satellite Display System (SDS) locations: Shift Manager SDS, Computer Room SDS, Technical Support Center SDS and Generation Support Building (GSB) Computer Room SDS.

ACTIVATION OF ERDS:

NOTE

1. To return to the PMC Main Menu, press the Escape (ESC) key.
2. Selections on an SDS can be made by either using the mouse or by entering specific turn on codes. The turn on codes are 1 to 8 character commands used to activate the function you wish to perform; they are displayed in blue on the SDS screen.

1. From the SDS, press the ESC key to return to the Main Menu, if applicable.
2. From the Main Menu, click once on NSSS touch area.
3. From the NSSS Menu, click once on the ERDS touch area.
4. From the ERDS Password Menu, type ERDS, then press ENTER and then press F1.
 - 4.1 Observe on the STATUS menu that the ERDS COMMUNICATIONS TASK is INACTIVE.
5. Click once on ACTIVATE, under ACTIONS.
 - 5.1 After activating ERDS, the COMMUNICATION TASK status changes from INACTIVE to ACTIVE and is displayed as follows:

STATUS

MODEM	Disconnected
ERDS COMPUTER	Terminated
COMMUNICATION TASK	ACTIVE

ACTIVATION/DEACTIVATION OF THE EMERGENCY RESPONSE DATA SYSTEM (ERDS) (CONT'D)

NOTE

All messages may not be seen due to the display rate of the SDS.

6. When the NRC ERDS answers the phone call from the Waterford 3 computer, then the MODEM communication sequence progresses.

6.1 The MODEM communication sequence with NO FAILURE progresses as follows:

OK
DIALING
RINGING
ANSWER
CONNECT

6.2 The MODEM communication sequence with A FAILURE progresses as follows:

BUSY
NO ANSWER
NO CARRIER
NO DIAL TONE
ERROR
DISCONNECTED

NOTE

If a failure to establish contact is experienced, then contact the NRC via the ENS to report the failure.

7. After a successful connection with the NRC ERDS computer, a **CONNECT** is displayed on the MODEM status and the **COMMUNICATION TASK** status changes to **LINK REQUESTED**.

ACTIVATION/DEACTIVATION OF THE EMERGENCY RESPONSE DATA SYSTEM (ERDS) (CONT'D)

8. After the Link Request is accepted the ERDS COMPUTER status changes from TERMINATED to ACCEPTED and the COMMUNICATION TASK status changes to TRANSMITTING.

STATUS

MODEM	Connect
ERDS COMPUTER	Accepted
COMMUNICATION TASK	TRANSMITTING

9. The ERDS link is now established. Press the ESC key to return to the PMC Main Menu.

DEACTIVATION OF ERDS:

NOTE

If the EMERGENCY RESPONSE DATA SYSTEM menu is not present on the SDS display, then repeat steps 1 through 4 of the ACTIVATION OF ERDS section of this attachment to display ERDS action screen.

1. Click once on TERMINATE under ACTIONS.
 - 1.1 After terminating the link with the ERDS computer, the following should be displayed:

STATUS

MODEM	Disconnected
ERDS COMPUTER	Terminated
COMMUNICATION TASK	INACTIVE

2. The ERDS link is now terminated. Press the ESC key to return to the Main Menu.

TOXIC CHEMICAL EVENT EXPERIENCE

I. Event 94-01, Occidental Chemical Leak

A. Event Summary

At 00:20 on 3/20/94 the Waterford 3 Control Room received a call from a person in the Personnel Assurance Building reporting an explosion. The Control Room contacted the St. Charles Parish EOC and was informed that an explosion had occurred at Occidental Chemical resulting in the release of chlorine. Occidental had declared an Unusual Event (St. Charles classification system). The St. Charles EOC reported the wind to be blowing from the west at 3 miles per hour (away from Waterford 3). The Control Room entered OP-901-520 and implemented EP-004-010. The Waterford 3 chlorine monitors indicated 0.0 ppm on both channels.

After evaluating the event in accordance with EP-004-010, the Control Room declared an Alert at 01:00 and sheltered site personnel. Notifications to offsite response organizations and the NRC were made promptly. Both the Waterford 3 chlorine monitors and chemistry samples found no detectable levels of chlorine throughout the event.

At 02:00 the Control Room contacted the St. Charles EOC and was informed that release had been secured at 01:58. The highest chlorine level recorded by Union Carbide near their site was 6.0 ppm at 01:36. The Alert was secured at 02:15. The event duration was 1 hour and 15 minutes.

B. Event Analysis Using Current Toxic Chemical Procedure

1. This event would be seen as a confirmed toxic chemical release (confirmed by the St. Charles EOC).
2. Waterford was less than 5 miles from the release (Occidental Chemical 0.8 miles).
3. The chemical involved was chlorine, a Large Hazard chemical.
4. Waterford 3 was not downwind of the release (wind from ~270 degrees, Occidental located at ~145 degrees) and meteorological conditions were stable.

TOXIC CHEMICAL EVENT EXPERIENCE (CONT'D)

5. Response under current Toxic Chemical Contingency Procedure would be to declare an Alert and shelter station personnel. This was consistent with actions taken by the Control Room staff in response to the event.

II. Event 95-01, Union Carbide Chemical Release

A. Event Summary

At 23:52 on 3/13/95 the St. Charles EOC notified the Waterford 3 Control Room that they entered an Alert classification (St. Charles classification system) due to an explosion at Union Carbide. The chemical involved was unknown. The Control Room entered OP-901-520.

At 00:26 the Control Room contacted the St. Charles EOC and learned that the chemical involved was Vinyl Methyl Chloride but the release was secured. Based on information from the Parish, it was determined that the chemical was a small hazard to station personnel. At 00:38 an Unusual Event was declared and station personnel were placed on standby. Notifications to the offsite organizations and the NRC were made within required time limits. Waterford 3 was later informed by the St. Charles EOC that the chemical involved was Vinyl Cyclohexene Monoxide. Throughout the event, the Waterford 3 broad range and chlorine monitors showed no increased readings.

At 01:54, the Control Room was informed that St. Charles Parish had downgraded to an Unusual Event (St. Charles Parish classification system). At 02:18 Waterford 3 secured from the Unusual Event. Total duration of this event was 1 hour and 40 minutes.

B. Event Analysis Using Current Toxic Chemical Procedure

1. This event would be seen as a confirmed toxic chemical release (Confirmed by the St. Charles EOC).
2. Waterford 3 was less than 5 miles from the release (Union Carbide 1.2 miles).
3. The chemical was unanalyzed but confirmed to be a small hazard by St. Charles Parish.

TOXIC CHEMICAL EVENT EXPERIENCE (CONT'D)

4. Waterford 3 was downwind of the release (wind from ~110 degrees, Union Carbide located at 120 degrees).
5. The current Toxic Chemical Contingency Procedure would allow the plant staff to monitor the situation and take no action. However, the SS may take precautionary protective measures for site personnel without declaring an emergency.

III. Event 95-02, March 25, 1995 Union Carbide Chemical Leak

A. Event Summary

At 14:45 on 3/25/95 Security informed the Control Room that while monitoring the State Police radio frequency, they learned that St. Charles Parish was setting up roadblocks due to a chemical release at Union Carbide. At 14:55 the Control Room contacted the St. Charles EOC and learned that a release of Tetralin from Union Carbide was in progress and that Union Carbide had declared an Unusual Event (St. Charles classification system) at 14:36. The St. Charles EOC recommended that Waterford 3 shelter-in-place. The Control Room entered OP-901-520 and implemented EP-004-010.

In accordance with EP-004-010, the Control Room declared an Alert at 15:00 and sheltered Waterford 3 personnel. Notifications to offsite organizations and the NRC were promptly made. Throughout the event the Waterford 3 broad range gas and chlorine monitors indicated normal readings.

At 15:31 the St. Charles EOC responded to a Waterford 3 inquiry by informing the Control Room that sheltering was no longer required but that access control would remain in place since the release had not been secured. The event was downgraded to an Unusual Event and the sheltering advisory for onsite personnel was lifted. At 16:07 the St. Charles EOC reported that the release was secured but that access controls would remain in place.

At 18:48 the St. Charles EOC reported that access controls had been lifted and that the event had been downgraded. At 19:00 Waterford 3 secured from the event. The duration of the event was 4 hours.

TOXIC CHEMICAL EVENT EXPERIENCE (CONT'D)

B. Event Analysis Using Current Toxic Chemical Procedure

1. The event would be seen as a confirmed toxic chemical release. (Confirmed by the St. Charles EOC)
2. Waterford 3 was less than 5 miles from the release (Union Carbide 1.2 miles).
3. The chemical was unknown.
4. Waterford 3 was downwind from the release (wind from 115 degrees), Union Carbide located at 120 degrees).
5. Meteorological conditions were unstable.
6. Response under current Toxic Chemical Contingency Procedure would be to declare an Alert and evacuate if conditions allow evacuation or to shelter if adequate evacuation time is not available.

IV. Event 95-04 - Koch Industries Ammonia Leak

A. Event Summary

At 05:56 on 7/20/95, a Waterford 3 employee informed the Control Room of an ammonia smell on LA 3142. The Control Room contacted the St. Charles EOC to provide information on the potential ammonia release. At 06:03 the EOC reported that Koch Industries was experiencing an ammonia release. The Control Room then entered OP-901-520. At 06:11, the St. Charles EOC notified the Control Room that an Alert (St. Charles classification system) was declared. The Control Room entered EP-004-010 and declared an Alert at 06:12. Site personnel were requested to shelter-in-place. Notifications to offsite agencies and to the NRC were made promptly. Throughout the event, the Waterford 3 broad range gas monitors indicated normal readings.

At 06:40, Security reported that 5 contract maintenance workers were feeling ill due to contact with ammonia on the way to the site. These persons were transported from the site at 08:02 by the St. Charles Ambulance.

TOXIC CHEMICAL EVENT EXPERIENCE (CONT'D)

Non-essential personnel were evacuated as a precaution. The Luling Offsite Staging Area and the Backup EOF were staffed and the St. Charles Technical Representative was dispatched to the Parish EOC.

At 16:20 the St. Charles EOC reported that the release was secured and that the Alert was terminated. The Control Room then exited OP-901-520 and secured from the Alert classification. The total duration of this event was 10 hours and 8 minutes.

B. Event Analysis Using Current Toxic Chemical Procedure

1. This event was a confirmed toxic chemical release (confirmed by the St. Charles EOC).
2. Waterford 3 was less than 5 miles from the release (Koch Industries 0.8 miles).
3. The release was a large hazard (ammonia).
4. Waterford 3 was not technically downwind at any point from release and the meteorological conditions were stable.
5. Response under the current Toxic Chemical Contingency Procedure would be to shelter station personnel and to declare an Alert. It should be noted that wind direction and stability classification degraded over the course of the event.
6. A precautionary evacuation would have been possible under these circumstances, especially with a large hazard chemical being released within a mile of the site.

TOXIC CHEMICAL EVENT EXPERIENCE (CONT'D)

V. Event 95-06, Natural Gas Leak

A. Event Summary

At approximately 17:00 on 12/27/95, a Union Pacific Railroad worker notified a Waterford 3 employee of a natural gas release near the railroad tracks behind Waterford 1 & 2. Security responded to the scene of the release and confirmed the release to the Control Room. The Control Room received confirmation of the release at 17:40 from Waterford 1 & 2 and St. Charles Parish. An Unusual Event was declared in accordance with EP-004-010.

Waterford 3 was not downwind of the release and no protective measures for site personnel were implemented. Throughout the event, the broad range gas monitors and chlorine monitors indicated normal readings and explosive gas monitor readings were negative.

At 22:35, Waterford 1 & 2 reported that the release was secured and the Unusual Event was secured at 22:40. The total duration of the event was 5 hours.

B. Event Analysis Using Current Toxic Chemical Procedure

1. This event was a confirmed release (confirmed by St. Charles Parish and Waterford 1 & 2).
2. The release was less than 5 miles from Waterford 3.
3. The release was listed as a small hazard.
4. The current Toxic Chemical Contingency Procedure would allow the plant staff to monitor the situation and take no action. However, the SS may take precautionary protective measures for site personnel without declaring an emergency.

TOXIC CHEMICAL EVENT EXPERIENCE (CONT'D)

VI. Event 96-02 - Witco Toxic Chemical Event

A. Event Summary

At 12:25 on 4/1/96, St. Charles Parish was informed that Witco Chemical had declared a Site Area Emergency (St. Charles classification system) due to a fire in their epoxy unit. At 12:46, St. Charles Parish responded to a call from the Waterford 3 Control Room and confirmed the event and informed the Control Room staff that the chemicals xylene and heptane were involved and that no protective actions were necessary. The SS evaluated the event in accordance with EP-004-010 and declared an Unusual Event at 12:58.

Waterford 3 was not downwind of the fire so no protective measures were implemented for site personnel. The broad range and chlorine monitors showed no increased readings throughout the event. At 14:24 St. Charles Parish notified the Control Room that Witco had downgraded to an Unusual Event (St. Charles Parish classification system) and that the fire was out. At 14:28 Waterford 3 exited from EP-004-010 and secured from the Unusual Event. The duration of the event was 1 hour and 30 minutes.

B. Event Analysis Using Current Toxic Chemical Procedure

1. This event was a confirmed release (confirmed by St. Charles Parish).
2. The explosion and fire was within 5 miles of Waterford 3. (Witco is 1.1 miles from the site.)
3. Xylene and heptane are listed as small hazard chemicals.
4. The current Toxic Chemical Contingency Procedure would allow the plant staff to monitor the situation and to take no action. However, the SS may take precautionary protective measures for site personnel without declaring an emergency.

TOXIC CHEMICAL EVENT EXPERIENCE (CONT'D)

VII. Event 97-01, Pyrolysis Gasoline Spill on Mississippi River

A. Event Summary

At 03:17 on 1/18/97 the St. Charles EOC notified the Waterford 3 Control Room of a ship wreck on the Mississippi River. The wreck had occurred in St. John Parish and involved a substance identified as "PY gas". Subsequent to this notification, the Control Room was placed in isolation while toxic gas conditions were evaluated. At 03:48 the U.S. Coast Guard notified Waterford 3 that the substance involved was pyrolysis gasoline and that the location of the spill was near the town of Wallace in St. John Parish, approximately 10 miles from Waterford 3.

At 04:05 the Control Room secured plant ventilation and entered OP-901-520. After evaluating the event in accordance with EP-004-010, an Alert was declared at 04:20 and site personnel were sheltered. Throughout this event, the broad range and chlorine monitors showed no increased readings. At 06:05, the Coast Guard reported no danger to Waterford 3. Sheltering for site personnel was secured and the event was downgraded to an Unusual Event. Following evaluations done in accordance with EP-004-010 and OP-901-520, the Unusual Event was secured at 07:20. The duration of the event was 3 hours.

B. Event Analysis Using Current Toxic Chemical Procedure

1. The release was confirmed by both the St. Charles EOC and the U.S. Coast Guard.
2. The release took place beyond 5 miles and was an unknown substance.
3. The current Toxic Chemical Procedure would allow the plant staff to monitor the situation without declaring an event. However, the SS may take precautionary protective measures for site personnel without declaring an emergency.

TOXIC CHEMICAL EVENT EXPERIENCE (CONT'D)

VIII. Event 97-02, Ammonia Release at Occidental Chemical

A. Event Summary

At 23:01 on 3/19/97, the Waterford 3 Control Room was notified by the St. Charles Parish EOC that a number of barges had broken loose on the Mississippi River. At 23:54, St. Charles Parish declared an Alert (St. Charles classification system) due to activity on the river. A report of an ammonia smell near the Occidental Chemical river structure was made.

At 00:36 on 3/20/97, St. Charles Parish initiated precautionary protective actions for the public due to the ammonia release. The Control Room staff entered OP-901-520 and at 00:45 placed the Control Room in isolation. At 00:50, the Control Room entered EP-004-010. At 01:03 an Alert was declared and site personnel were sheltered. Throughout this event, the broad range gas monitors and the chlorine monitors showed no increased readings. At 01:42, Waterford 3 secured from the Alert. Total duration of the event was 39 minutes.

B. Event Analysis Using Current Toxic Chemical Procedure

1. This event was a confirmed release (confirmed by St. Charles Parish).
2. The release was within 5 miles (Occidental river structure ~1 mile from Waterford 3).
3. Ammonia is a large hazard chemical.
4. Waterford 3 was not downwind of the release (wind from 341°).
5. Meteorological conditions were stable.
6. The current Toxic Chemical Contingency Procedure would require the declaration of an Alert and the sheltering of site personnel.

TOXIC CHEMICAL EVENT EXPERIENCE (CONT'D)

IX. Event 98-02, Union Carbide Naptha Release

A. Event Summary

At 22:08 on September 10, 1998, the Control Room noticed that both Broad Range Gas Monitor(BRGM) were rising. BRGM "A" caused the Control Room ventilation to isolate and the ReactorAuxiliary Building ventilation to secure. The St. Charles Parish EOC was contacted to determine the cause of the event. The EOC had not been informed that a release was in progress. The Shift Superintendent entered OP-901-520, Toxic Chemical Release.

At 22:22 BRGM "A" read 3.7 ppm and BRGM "B" read 3.0 ppm. Chlorine Monitor "A" read 0.0 ppm and Chlorine Monitor "B" read 0.1 ppm. The wind direction at this time was from 101.0 degrees. A "natural gas smell" was reported to the Control Room at this time. At 22:28 an Unusual Event was declared. EP-004-010, Toxic Chemical Contingency Procedure was entered and Tab A, Standby, was implemented.

Notifications were made to State and local agencies and to Waterford 1 & 2 within the required time limits. The NRC was also notified by 22:43 which was within the time limits for NRC notification. At 23:56 the St. Charles EOC called to report that the roof of a tank at Union Carbide containing naphtha had collapsed. Both BRGMs had gone back into alarm.

At 02:12 on September 13th, St. Charles Parish called to report that the hazardous conditions at Union Carbide were no longer in effect and that the naphtha tank had been pumped down. River Road traffic was restored. At 02:17, EP-004-010 was exited and the Unusual Event was secured. The duration of the event was 50 hours and 16 minutes.

B. Event Analysis Using Current Toxic Chemical Procedure

1. The event was a confirmed release (confirmed by St. Charles Parish).
2. The release was within 5 miles of Waterford-3.
3. Naphtha is a Small Hazard chemical.

4. The Toxic Chemical Contingency Procedure requires that Standby be implemented and an Unusual Event be declared. These actions were carried out.

X. Event 01-02, Koch Industries Ammonia Release

A. Event Summary

At 21:42 on July 15, 2001, the Waterford 3 Control Room was notified through the Taft Industrial Complex Communications (TICC) radio of an anhydrous ammonia leak at the Koch Nitrogen river loading dock. The Control Room staff immediately contacted the St. Charles Parish Emergency Operations Center (EOC) and was informed that Koch had declared an Unusual Event (based on the St. Charles Parish classification scheme) with no protective action recommendations. At 21:45 the St. Charles EOC updated the situation and informed the Control Room that the situation had deteriorated and that Koch has recommended that LA 18 (River Road) be closed from LA 3142 to the Waterford 3 site. In addition, St. Charles Parish had reclassified the event as an Alert. The Control Room staff entered OP-901-520, Toxic Chemical Release, placed the Control Room in isolate, and made a plant page announcement to inform plant personnel of the situation. The ventilation systems for the Reactor Auxiliary Building, Fuel Handling Building, Decon Facility and the Hot Tool Shop were secured. No gases were detected on the Broad Range Gas Monitor (BRGM) and the Control Room Air Intake Chlorine Monitor indicated 0.0 parts per million (ppm). At no time during the event did the BRGM detect the presence of ammonia on the Waterford 3 site.

At 21:58 the Shift Manager sheltered all site personnel and declared an Alert in accordance with EP-004-010, Toxic Chemical Contingency Procedure. All Operational Hot Line (OHL) members were contacted within 14 minutes of event declaration with the exception of the Louisiana Department of Environmental Quality (LDEQ). The Louisiana Office of Emergency Preparedness (LOEP) is responsible for contacting the LDEQ duty officer after normal business hours. LOEP subsequently contacted Waterford 3 to confirm that the LDEQ duty officer had been contacted and was being provided with updates on the situation. The NRC was informed of the Alert within 36 minutes of event declaration. The Emergency Response Data System (ERDS) was activated in accordance with procedures.

Koch personnel reported at 22:48 that the leak had slowed and that 25 ppm of ammonia was detected in the area immediately around the release. The level of ammonia considered immediately dangerous to life and health (IDLH) is 300 ppm. Monitoring teams directed by the St. Charles EOC reported no ammonia

readings on River Road immediately in front of Waterford 3. At 23:53 the Shift Chemist reported that 5 samples had been taken between the Turbine Generator Building and the Primary Assess Point and that there was no detectable ammonia on site. At 23:55 St. Charles Parish reclassified the event as an Unusual Event and reopened River Road. Dow Chemical personnel conducting monitoring east of the release point reported no detectable ammonia on their site. The Shift Chemist took subsequent air samples at the Waterford 3 site and no detectable ammonia was reported. At 01:08 Koch reported that the ammonia release had been reduced to a minimal level. Koch informed the Control Room that the situation no longer represented a danger to Waterford 3 operations.

At 01:23 Control Room ventilation was restored. Air samples taken by the Shift Chemist confirmed that no detectable ammonia was found at sampling locations on the site. At 02:00 the Alert and OP-901-520 were exited and site personnel were released from sheltering. OHL members were advised of the event termination.

The duration of this event was 4 hours and 2 minutes.

B. Event Analysis Using Current Toxic Chemical Procedure

1. The event was confirmed via the TICC radio and St. Charles parish.
2. The release was within 5 miles of Waterford-3.
3. Ammonia is a Large Hazard Chemical.
4. Ammonia was not detected on the Waterford-3 site during the event.
5. Waterford-3 was not downwind of the release.
6. Declaration of Alert and sheltering site personnel were the correct actions in accordance with the Toxic Chemical Contingency Procedure.

ON-SITE TOXIC CHEMICAL SHELTERS

Sheltering during a toxic chemical emergency is permitted in the following buildings on the Waterford 3 site:

7-B Warehouse

Fitness Center (Part of Site Support Building)

Credit Union Building

Generation Support Building (GSB)

Inprocessing Building

Personnel Assurance Building (PAB)

Primary Access Point (PAP)

Administration Building

Maintenance Support Building (MSB)

Service Building in the following areas only:

- I&C Area
- Maintenance Hallway
- Electrical Maintenance Area

Westside Access

Energy Education Center (EEC)

Skills Training Center