

REQUEST/APPROVAL PAGE

SAFETY RELATED

Required Review Level (check one)



PORC



QUALIFIED REVIEWER

PROCEDURE NUMBER: EP-002-170 REVISION: 10 CHANGE: 1TITLE: RecoveryEFFECTIVE DATE/MILESTONE: 4/11/2003

(N/A If Same as Approval Date)

PROCEDURE OWNER: Emergency Planning Manager

(Position Title)

PREPARER (Print Name / Initial): Ricky Oubre 1 RPO DATE: 3/18/2003

ACTION:

- ☐ New Procedure
☐ Deletion
☐ Revision

☒ ChangeEC? ☐N/A

(Applicable W2.302 Step Numbers)

☐ Deviation

Expiration Date/Milestone:

N/A☐ Temporary Procedure

Applicable Conditions:

N/A

DESCRIPTION AND JUSTIFICATION OF CHANGE:

- 1) Changed the wording from "EOF Director when activated" to "When responsibilities have been transferred to the EOF".
- 2) Changed the wording from "if the EOF has been activated" to "if responsibilities have been transferred to the EOF"

☐ Request/Approval Page Continuation Sheet(s) attached.EC SUPERVISOR APPROVAL: N/A DATE: _____50.59 REVIEWER Required? ☐ REVIEW: N/A DATE: _____☒ PROGRAMMATICALLY EXCLUDED PORC Mtg. No.: 03-003 DATE: _____50.54 REVIEWER Required? ☒ REVIEW: [Signature] DATE: 3/20/03TECHNICAL REVIEWER REVIEW [Signature] DATE: 3/24/03Change Notice (CN)? ☐CHANGE NOTICE (CN) SUPERVISOR APPROVAL: N/A DATE: _____CHANGE NOTICE (CN) ON-SHIFT SS/CRS APPROVAL: N/A DATE: _____

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QUALIFIED REVIEWER Required? ☒ REVIEW: [Signature] DATE: 3/26/03GROUP/DEPT. HEAD REVIEW ☐ or APPROVAL ☒ DATE: 4-8-03GM, PLANT OPERATIONS REVIEW ☐ or APPROVAL ☐ DATE: _____VICE PRESIDENT, OPERATIONS APPROVAL: N/A DATE: _____**CONTROLLED**

TABLE OF CONTENTS

1.0	PURPOSE	2
2.0	REFERENCES	2
3.0	RESPONSIBILITIES	3
4.0	INITIATING CONDITIONS	5
5.0	PROCEDURE	6
5.1	Actions at Event Termination	6
5.2	Objectives of the Recovery Organization	7
5.3	Mode of Operations	7
6.0	FINAL CONDITIONS	9
7.0	ATTACHMENTS	9
7.1	Long-Term Recovery Organization	10
8.0	RECORDS	9

LIST OF EFFECTIVE PAGES

2,4,5,7-9	Revision 10
10	Revision 6
1,3, 6	Change 1

Informational Use

3.0 RESPONSIBILITIES

3.1 Emergency Coordinator/EOF Director

3.1.1 The Emergency Coordinator (EOF Director when responsibilities have been transferred to the EOF) has the responsibility to determine when the emergency situation is stable and entry into the recovery phase can be affected.

3.1.1.1 Following a determination that the emergency conditions no longer exist, the Emergency Coordinator/EOF Director is responsible for:

3.1.1.1.1 Ensuring that all emergency procedures are complete and closed out in accordance with EP-001-001, EP-001-010, EP-001-020, EP-001-030, and EP-001-040;

3.1.1.1.2 Ensuring that all emergency response and support organizations, including the NRC, LDEQ, LOEP, St. Charles EOC, St. John the Baptist EOC, etc., are notified of the termination of the emergency in accordance with EP-002-010;

3.1.1.1.3 In the event that, upon termination of the emergency condition, the plant is in its pre-emergency condition and capable of routine operation within its Technical Specifications, the Emergency Coordinator/EOF Director may effect the transition to the normal operating organization.

3.1.2 Following the determination that the emergency condition is stable and the probability of any adverse effect on the general public or damage to the plant has been substantially reduced, the Emergency Coordinator/EOF Director is responsible for:

3.1.2.1 Ensuring that the Recovery Organization is available with adequate staffing and definition of responsibilities to continue the performance of the applicable emergency procedures;

3.1.2.2 Ensuring that all emergency response and support organizations, including the NRC, LDEQ, LOEP, St. Charles EOC, St. John the Baptist EOC, etc., are notified of the initiation of the Recovery Organization.

3.2 Recovery Manager

3.2.1 The Recovery Manager is responsible for overall recovery activities and reports to the Chief Operating Officer of Entergy Operations, Inc.

3.2.2 If recovery can be accomplished using the normal organization, then the General Manager Plant Operations (or Duty Plant Manager) will assume the responsibilities of Recovery Manager.

5.0 PROCEDURE

5.1 Actions at Event Termination

5.1.1 Following the determination that the emergency situation is stable or that the emergency conditions no longer exist, the following should be performed, as applicable:

5.1.1.1 The Emergency Coordinator or the EOF Director, if responsibilities have been transferred to the EOF, should determine the nature of the recovery operation based on the plant conditions.

5.1.1.2 A Recovery Organization should be established from the combined resources of the Waterford 3 Emergency Response Organizations. The Recovery Organization should be tailored to the specific needs of the recovery operations.

A. The functional requirements of the Recovery Organization would closely resemble the normal Waterford 3 organization responsibilities. As such, the normal organization may be sufficient to handle recovery operations.

B. If it is determined that a more extensive recovery operation is required, then an organization similar to the one shown in Attachment 7.1 of this procedure should be established.

5.1.1.3 The offsite organizations that were contacted during the emergency should be notified that the onsite emergency operations will be terminated. If a Recovery Organization is being established, then this should be included in the notification.

5.1.1.4 The Emergency News Center Director should be notified to make a press release on the termination of the emergency and the start of recovery operations, if applicable.

5.2 Objectives of the Recovery Organization

5.2.1 Short-Term Objectives

5.2.1.1 The initial recovery organization must be established to meet the following objectives on a 24-hour-per-day basis:

- A. Maintain the plant in a stable condition
- B. Establish additional assurance of plant stability by providing additional safety system capability
- C. Maintain control of the release of radioactive material to the environment
- D. Maintain control of personnel exposures
- E. Maintain adequate communications with Federal, State and Local agencies
- F. Maintain adequate capabilities for release of factual and timely information to the general public.

5.2.2 Long-Term Objectives

5.2.2.1 The long-term objectives of the recovery organization are:

- A. Restore the plant to pre-emergency conditions
- B. Dispose of all waste material generated during the emergency and recovery phases
- C. Evaluate the cause of the emergency, the response to the emergency, and any potential effects of the emergency on future plant operations.

5.3 Mode of Operations

5.3.1 The basis for the mode of operations of recovery activities is to maintain compliance with applicable Federal Regulations, State permits, and plant Technical Specifications, including, but not limited to the following:

5.3.1.1 The radiation exposure limits of 10 CFR 20 shall apply.

5.3.1.2 Any discharges shall be controlled in accordance with the National Pollution Discharge Elimination System permit and the radiological limits as defined in the plant Technical Specifications.

- 5.3.1.3 To the extent practical, applicable limiting conditions for operations (LCOs) and surveillance requirements of the plant Technical Specifications will be complied with.
- A. For those LCOs and surveillances in which compliance is impractical, the NRC will be informed and consulted regarding the safety implications of continued operations in that mode.
 - B. For those post accident activities listed in the Attachment 7.12 of EP-002-100, perform the required action in the time interval specified.
- 5.3.1.4 To the extent practical, the administrative controls imposed on normal operations should be maintained during the recovery phase.
- A. Procedures shall be generated for each specific operation and maintenance evolution and shall be reviewed for potential nuclear safety, personnel safety, or environmental impact by a technically competent review group.
 - B. The review group should be identified in the development of the recovery organization, as well as the individual(s) having final signature authority.
 - C. Normal plant administrative procedures may be modified to accommodate the recovery organization.

REQUEST/APPROVAL PAGE

SAFETY RELATED

Required Review Level (check one)



PORC



QUALIFIED REVIEWER

PROCEDURE NUMBER: EP-002-190 REVISION: 17 CHANGE: 0 DEVIATION: N/ATITLE: Personnel AccountabilityEFFECTIVE DATE/MILESTONE: 04/11/2003

(N/A If Same as Approval Date)

PROCEDURE OWNER: Emergency Planning Manager

(Position Title)

PREPARER (Print Name / Initial): A.S. LubinskiDATE: 2/11/03

ACTION:

☐ New Procedure N/A☐ Deletion N/A☒ Revision☐ ChangeEC? ☐

N/A

(Applicable W2.109 Step Numbers)

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

DESCRIPTION AND JUSTIFICATION OF CHANGE:

Due to significant changes, no revision bars were used in this revision. Revised responsibilities for clarification and to reflect that the Security Superintendent reports to the OSC Supervisor. Reworded several sections of the procedure to eliminate unnecessary wording. Changed the steps for evacuation accountability to reflect that the OSC will be the lead and the Security Superintendent will coordinate this activity. Re-formatted Attachment 7.2. Changed Revision number for all Attachments to match the procedure revision.

☐ Request/Approval Page Continuation Sheet(s) attached.EC SUPERVISOR APPROVAL: N/A DATE: _____50.59 REVIEWER Required? ☐ REVIEW: N/A DATE: _____☒ PROGRAMMATICALLY EXCLUDED PORC Mtg. No.: 03-003 DATE: _____50.54 REVIEWER Required? ☒ REVIEW: Ricky Oubier DATE: 2/18/03TECHNICAL REVIEWER REVIEW: Ricky Oubier DATE: 2/18/03Change Notice (CN)? ☐ N/ACHANGE NOTICE (CN) SUPERVISOR APPROVAL: N/A DATE: _____CHANGE NOTICE (CN) ON-SHIFT SM/CRS APPROVAL: N/A DATE: _____

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TABLE OF CONTENTS

1.0	PURPOSE	2
2.0	REFERENCES	2
3.0	RESPONSIBILITIES	2
4.0	INITIATING CONDITIONS	3
5.0	PROCEDURE	4
5.1	Continuous Accountability	4
5.1.1	Control Room (On-Shift Organization)	4
5.1.2	Technical Support Center (TSC)	5
5.1.3	Operational Support Center (OSC)	6
5.1.4	-4 Control Point	7
5.1.5	Chemistry	7
5.1.6	Security	8
5.2	Accountability/Evacuation Surveys After a Site Evacuation	9
5.2.1	Using the Security Computer for Personnel within the Protected Area	9
5.2.2	Alternative Accountability Method for Personnel within the Protected Area	9
5.2.3	Evacuation Survey Outside of Protected Area	10
5.3	Securing Accountability for Personnel Departing the Site	10
6.0	FINAL CONDITIONS	11
7.0	ATTACHMENTS	11
7.1	Continuous Accountability Roster	12
7.2	Missing Person Roster	14
8.0	RECORDS	11

LIST OF EFFECTIVE PAGES

1-14

Revision 17

Informational Use

1.0 PURPOSE

- 1.1 This procedure provides guidelines to continuously account for essential personnel within the Protected Area during an emergency situation at Waterford 3 SES and to account for personnel following a site evacuation.

2.0 REFERENCES

- 2.1 Waterford 3 SES Emergency Plan
- 2.2 EP-001-030, Site Area Emergency
- 2.3 EP-001-040, General Emergency
- 2.4 EP-002-071, Site Protective Measures
- 2.5 EP-002-081, Search and Rescue
- 2.6 EP-002-100, Technical Support Center (TSC) Activation, Operation and Deactivation
- 2.7 EP-002-101, Operational Support Center (OSC) Activation, Operation and Deactivation
- 2.8 EP-002-130, Emergency Team Assignments
- 2.9 EP-002-140, Reentry
- 2.10 PS-016-102, Security Response to Plant Emergency Conditions
- 2.11 Emergency Planning Desk Guides

3.0 RESPONSIBILITIES

- 3.1 All Personnel are responsible for ensuring that he or she is accounted for in accordance with this procedure.
- 3.2 The Emergency Coordinator (EC)
 - 3.2.1 The EC has the overall responsibility to ensure personnel within the Protected Area are accounted for in accordance with this procedure.
 - 3.2.2 In the event of a site evacuation, the EC is responsible to ensure that missing personnel are identified, and evacuation survey activities are conducted.
- 3.3 Technical Support Center (TSC) Supervisor reports to the Emergency Coordinator and is responsible for the accountability of personnel assigned to the TSC.
 - 3.3.1 The TSC Accountability Coordinator reports to the TSC Supervisor and is responsible for tracking the continuous accountability of personnel assigned to the TSC.

- 3.4 Operational Support Center (OSC) Supervisor has the overall responsibility to ensure personnel assigned to the OSC are accounted for in accordance with this procedure.
 - 3.4.1 The OSC Supervisor Assistant reports to the OSC Supervisor and is responsible for the accountability of personnel assigned to the OSC.
 - 3.4.2 The OSC Maintenance Leads report to the OSC Supervisor and are responsible for tracking the continuous accountability of emergency teams dispatched from the OSC.
- 3.5 Radiological Controls Coordinator (RCC) is responsible for the accountability of personnel assigned to the -4 Control Point.
- 3.6 Control Room Supervisor (CRS) is responsible for the accountability of personnel assigned to the operating shift.
- 3.7 Chemistry Lead Shift Technician/Supervisor is responsible for the accountability of Chemistry Department personnel performing emergency chemistry activities.
- 3.8 Security Superintendent
 - 3.8.1 Reports to the OSC Supervisor and is responsible for plant personnel accountability in accordance with this procedure.
 - 3.8.2 Ensures all Security Department personnel are continuously accounted for in accordance with this procedure.
 - 3.8.3 Ensures evacuation accountability is performed in accordance with this procedure.
 - 3.8.4 The Security Shift Supervisor (SSS) reports to the Security Superintendent and assumes accountability responsibilities until the arrival of the Security Superintendent.

4.0 INITIATING CONDITIONS

- 4.1 Declaration of any emergency event at Waterford 3 SES.

5.0 PROCEDURE

5.1 Continuous Accountability

5.1.1 Control Room (On-Shift Organization)

- 5.1.1.1 Upon declaration of any emergency, the CRS conducts a roll-call of personnel assigned to the shift.
 - a. Attempt to locate any individual not responding to the roll-call.
 - b. If an individual can not be contacted within approximately five (5) minutes, then report the name, badge number and last known location to the Emergency Coordinator.
 - c. The Emergency Coordinator should dispatch a Search and Rescue Team, in accordance with EP-002-081, to determine the location and status of the missing person.
- 5.1.1.2 Control Room personnel should check out with the CRS prior to leaving the Control Room and maintain frequent communications with the CRS while in the plant.
- 5.1.1.3 The CRS should continuously account for all shift personnel by establishing, and maintaining, frequent communications with each member of the shift.
 - a. Attempt to locate any individual not responding to routine communications.
 - b. If an individual can not be contacted within approximately five (5) minutes, then report the name, badge number and last known location to the Emergency Coordinator.
 - c. The Emergency Coordinator should dispatch a Search and Rescue Team, in accordance with EP-002-081, to determine the location and status of the missing person.
- 5.1.1.4 At an Alert or higher classification or after a site evacuation.
 - a. Ensure that the Security Shift Supervisor (SSS) activates the accountability keycard readers in accordance with PS-016-102.
 - b. Direct all personnel assigned to the shift to card into an accountability keycard reader.
 - 1) Personnel assigned to perform activities outside the Protected Area should card into an accountability keycard reader each time they reenter the Protected Area.

5.1.2 Technical Support Center (TSC)

5.1.2.1 All TSC Personnel.

- a. Card in on the TSC accountability keycard reader at the declaration of Alert or higher emergency classification, or after a site evacuation.
 - 1) Personnel assigned to perform activities outside the Protected Area should card into an accountability keycard reader each time they reenter the Protected Area.
- b. Sign in on the TSC status board.
- c. Sign out with the TSC Accountability Coordinator (TSC Supervisor, prior to activation of an Accountability Coordinator) prior to leaving the Control Room Envelope.

5.1.2.2 The TSC Supervisor

- a. Ensure all TSC personnel card in on the TSC accountability keycard reader and sign in on the TSC status board.
- b. Request an individual from the OSC to perform the functions of the TSC Accountability Coordinator.
- c. If the TSC Accountability Coordinator reports that an individual has not reported within the assigned callback frequency, then make a site page announcement requesting that the missing individual respond to a given PABX extension immediately.
 - 1) If the missing individual does not respond to the site page within approximately five (5) minutes, then report the name, badge number and last known location to the Emergency Coordinator.
 - 2) Direct the OSC Supervisor to dispatch a Search and Rescue Team, in accordance with EP-002-081, to determine the location and status of the missing person.

5.1.2.3 The TSC Accountability Coordinator

- a. Obtains the telephone from the TSC Supervisor and establishes the accountability post near the entrance to the Control Room Envelope.
- b. Ensures all TSC personnel have been briefed by the TSC Supervisor and the HPC prior to leaving the TSC.

NOTE

TSC personnel being reassigned to another facility should log out on the Continuous Accountability Roster upon leaving the TSC. When reporting arrival at the new facility, accountability for the individual is transferred to that facility.

- c. Logs out personnel leaving the TSC on the Continuous Accountability Roster.
 - 1) The TSC Supervisor should designate a callback time period based on emergency conditions.
 - 2) Ensure the individual knows the callback frequency and callback telephone number.
- d. As personnel report in, records the time of the callback and the individual's location on the Continuous Accountability Roster.
- e. In the event an individual fails to call back within the assigned callback frequency, reports the name, badge number, and last recorded location to the TSC Supervisor.
- f. As personnel return to the TSC, logs them off of the TSC Continuous Accountability Roster by recording the time that they reported back to the TSC.
- g. If frisking is required at the entrance to the Control Room Envelope, then the TSC Accountability Coordinator ensures that all personnel frisk upon entering the area.

5.1.3 Operational Support Center (OSC)

5.1.3.1 All OSC Personnel

- a. Card in on the OSC accountability keycard reader as directed by the OSC Supervisor Assistant or Maintenance Lead.
- b. Check out with the applicable Maintenance Lead or OSC Supervisor Assistant prior to leaving the OSC.
- c. Personnel assigned to perform activities outside the Protected Area should card into an accountability keycard reader each time they reenter the Protected Area.

5.1.3.2 Maintenance Leads and OSC Supervisor Assistant

- a. Continuously account for all OSC personnel by establishing, and maintaining, frequent communications with personnel leaving the OSC.
- b. Dispatch an individual to report to the TSC Supervisor to serve as the TSC Accountability Coordinator.
- c. Appoint an individual to perform the duties of the OSC Main Entrance/Exit Accountability Watch.
 - 1) The OSC Main Entrance/Exit Accountability Watch should ensure that all OSC personnel are briefed prior to leaving the OSC.
- d. If an individual does not report within the assigned callback frequency, then make a site page announcement requesting that the individual respond to a given PABX extension immediately.
 - 1) If the individual does not respond to the site page within approximately five (5) minutes, then report the name, badge number and last known location to the OSC Supervisor and request dispatch of a Search and Rescue Team to determine the location and status of the individual.
 - 2) Dispatch a Search and Rescue Team, in accordance with EP-002-081, as directed by the OSC Supervisor.

5.1.4 -4 Control Point

5.1.4.1 All -4 Control Point Personnel

- a. Card in on the -4 accountability keycard reader, at the declaration of Alert or higher emergency classification, or after a site evacuation.
- b. Personnel assigned to perform activities outside the Protected Area should card into an accountability keycard reader each time they reenter the Protected Area.
- c. Check out with the RCC prior to leaving the -4 Control Point.

5.1.4.2 The RCC or designee

- a. Continuously accounts for all -4 Control Point personnel by establishing, and maintaining, frequent communications with personnel leaving the area.
- b. If an individual fails to report within the assigned callback frequency, then make a site page announcement requesting that the individual respond to a given PABX extension immediately.
 - 1) If the individual does not respond to the site page within approximately five (5) minutes, then report the name, badge number and last known location to the HPC and request a Search and Rescue Team be dispatched to determine the location and status of the individual.

5.1.5 Chemistry

- 5.1.5.1 Upon the declaration of any emergency classification, the Chemistry Lead Shift Technician/Supervisor establishes communications with any other Chemistry technicians within the Protected Area.
- 5.1.5.2 The Chemistry Lead Shift Technician/Supervisor continuously accounts for all Chemistry personnel by establishing, and maintaining, frequent communications with these individuals.

- 5.1.5.2 The Chemistry Lead Shift Technician/Supervisor continuously accounts for all Chemistry personnel by establishing, and maintaining, frequent communications with these individuals.
- 5.1.5.3 Chemistry Department personnel who are assigned to another facility are accounted for by the Facility Accountability Coordinator for that facility.
- 5.1.5.4 At an Alert or higher emergency classification or after a site evacuation, all Chemistry personnel, assigned to the shift, card into an accountability keycard reader.
 - a. Personnel assigned to perform activities outside the Protected Area should card into an accountability keycard reader each time they reenter the Protected Area.
- 5.1.5.5 All Chemistry personnel check out with the Chemistry Lead Shift Technician/Supervisor prior to leaving the laboratory area and maintain frequent communications while in the plant.
- 5.1.5.6 In the event that an individual can not be contacted, the Chemistry Lead Technician/ Supervisor reports the name, badge number and last known location to the Emergency Coordinator or the TSC Chemistry Engineer, if activated.

5.1.6 Security

- 5.1.6.1 Upon the declaration of an emergency, the Security Shift Supervisor (SSS) conducts a roll-call of the personnel assigned to the shift.
 - a. In the event an individual does not respond to the roll-call, attempt to locate the individual and determine their status.
- 5.1.6.2 The SSS continuously accounts for all Security Department personnel by establishing, and maintaining communications with each member of the shift.
- 5.1.6.3 On declaration of an Alert or higher emergency classification, or after a site evacuation, the SSS ensures that PS-016-102 is implemented and the Accountability Keycard Readers are activated.
 - b. Immediately advise the Emergency Coordinator of any problems which would impact or impair accountability.
- 5.1.6.4 The Central Alarm Station (CAS) or Secondary Alarm Station (SAS) Operator
 - a. On hearing the announcement of declaration of an Alert or higher emergency classification, or upon a site evacuation, activate the Accountability Keycard Readers in accordance with PS-016-102.
 - b. If the Accountability Keycard Readers fail, then make the following plant page at least two times and advise the SSS of the problem.

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL! THE ACCOUNTABILITY KEYCARD READERS ARE NOT OPERATING. THE ACCOUNTABILITY KEYCARD READERS ARE NOT OPERATING.

NOTE

Within 30 minutes of commencing a site evacuation unaccounted for personnel should be identified by name and badge number.

5.2 Accountability/Evacuation Surveys After a Site Evacuation

5.2.1 Using The Security Computer for Personnel Within the Protected Area.

5.2.1.1 If the computerized system fails, then GO TO Step 5.2.2.

5.2.1.2 When the majority of the evacuating personnel have exited the Primary Access Point (PAP), the turnstiles have been locked down and accountability evaluation is being performed, then inform the Security Superintendent.

5.2.1.3. The CAS or SAS Operator performs accountability in accordance with PS-016-102 and prints out a report of personnel within the Protected Area that are not accounted for.

a. Delete from the printout security officers who are accounted for by drawing a single line through each name.

5.2.1.4 The CAS or SAS Operator informs the Security Superintendent of the name(s), and exterior badge number(s) of each unaccounted for individual.

5.2.1.5 The CAS or SAS Operator provides a Missing Person Roster, or computer generated report, to the Security Superintendent.

5.2.1.6 The Security Superintendent notifies the OSC Supervisor of the status of accountability.

5.2.1.7 The OSC Supervisor advises the TSC of the status of accountability.

5.2.1.8 The Security Superintendent makes the following announcement.

ATTENTION ALL PERSONNEL, ATTENTION ALL PERSONNEL. THE FOLLOWING
PERSONNEL SHALL CONTACT THE OPERATIONAL SUPPORT CENTER IMMEDIATELY
AT (PABX number).

Read the missing person(s) name(s).

5.2.1.9 If the missing individual(s) does(do) not respond within approximately five (5) minutes, then the OSC Supervisor dispatches a Search and Rescue Team in accordance with EP-002-081 to locate the missing individual(s).

5.2.1.10 The OSC Supervisor advises the TSC on the status of the search and rescue activities.

5.2.2 Alternative Accountability Method for Personnel within the Protected Area

5.2.2.1 If the Security Computer is inoperable, then the Security Shift Supervisor (SSS) advises the Emergency Coordinator of the alternative accountability method to be implemented in the event of an evacuation.

NOTE

Route Alerting is performed by dispatching teams throughout the Protected Area for the purpose of informing non-essential personnel of the site evacuation, as directed by the Emergency Coordinator.

5.2.2.2 The Emergency Coordinator, or designee, advises the Control Room, TSC Supervisor, OSC Supervisor, Radiological Controls Coordinator and the Chemistry Lead Shift Technician/Supervisor that the Security Computer is inoperable and of the implementation of Route Alerting.

- a. Conduct Route Alerting to ensure all non-essential personnel have evacuated the Protected Area.
- b. Coordinate Route Alerting to ensure that Route Alert Teams do not alert the same areas.
- c. Route Alerting is conducted by teams of no less than two individuals.
- d. Route Alert Teams maintain continuous accountability by establishing call back frequencies.

5.2.2.3 The Emergency Coordinator, or designee, should provide frequent (every 10 or 15 minutes) page announcements (including the use of the station alarm) informing personnel of a site evacuation and of the alternative accountability method.

5.2.3 Evacuation Survey Outside Of Protected Area

5.2.3.1 Verify that the Exclusion Area is established in accordance with EP-002-071.

5.2.3.2 Contact Waterford 1 & 2 and verify that all non-essential personnel are evacuated.

5.2.3.3 Contact Security and ensure that patrols are dispatched outside the Protected Area to announce an evacuation in accordance with PS-016-102.

5.3 Securing Accountability for Personnel Departing the Site

NOTE

1. The Emergency Coordinator may consider the use of an offsite (or onsite) staging and debriefing area for personnel departing the site (this may be particularly advisable for use at shift changes).
2. When groups of people are departing the site at the same time, then assign a leader and direct the leader to report when the group has reached the PAP.

5.3.1 Personnel responsible for facility accountability (TSC Supervisor, CRS, OSC Supervisor, RCC, Chemistry Lead Shift Technician/Supervisor) should.

5.3.1.1 Ensure personnel departing the site are briefed on the safest and most direct exit route and instruct them not to deviate from this path.

5.3.1.2 Coordinate routing of departing personnel with the TSC Supervisor.

- a. If deemed necessary, then escorts (Health Physics, Security) may be provided.

5.3.1.3 Ensure personnel are removed from continuous accountability and applicable sign-in status boards after reporting that they have reached the PAP and are exiting the site.

6.0 FINAL CONDITIONS

- 6.1 All missing personnel are accounted for.
- 6.2 The emergency situation is terminated.

7.0 ATTACHMENTS

- 7.1 Continuous Accountability Roster
- 7.2 Missing Person Roster

8.0 RECORDS

- 8.1 The following records are generated as a result of this procedure.
 - Attachment 7.1, Continuous Accountability Roster
 - Attachment 7.2, Missing Person Roster

CONTINUOUS ACCOUNTABILITY ROSTER

"EXAMPLE"

DATE (MM/DD/YY) 7 / 9 / 97

PAGE 2 OF

1.	<u>Joe A. Example</u>	<u>0000</u>	<u>13</u> : <u>15</u>	<u>15</u>	hr.	<u>13</u>	<u>14</u>	<u>14</u>	<u>38</u>
	Name (Team Leader)	Badge #	Time Out	Call In Time Freq.		<u>13</u>	<u>14</u>	<u>14</u>	Time In
	<u>N/A</u>					<u>13</u>	<u>14</u>	<u>14</u>	
	Name (If Applicable)	Badge #				<u>13</u>	<u>14</u>	<u>14</u>	
						<u>13</u>	<u>14</u>	<u>14</u>	
	Emergency Team (If Applicable)								
	<u>#2 Diesel Room</u>	<u>Repair Air Start Valve</u>							
	Task Location	Task Description							

1. Name - Name of individual leaving the facility. The second name blank is to be used for a "buddy" assigned the same task and who will remain with the first person listed.
2. Badge# - Badge number of individual.
3. Emergency Team - For the OSC team assignment.
4. Time Out - Time that the individual departed the facility.
5. Call In Time Freq. - The frequency, in minutes, that the individual is required to call in to the facility.
6. Hr. - Place the hour (using 24 hour clock) above the small squares on it's first occurrence. Place the minutes of the hour which the individual has been instructed to call back by in the small square below the hour. When the individual responds, record the location, line through the small square, and add the "call in freq." to the time at which the individual responded; and place the minutes in the next small square to the right. If the hour changes, record the new hour above the minute square.
7. Task Location - Record the area in which the individual will be working outside of the facility.
8. Task Description - Describe the task or other important information.
9. Time In - On return of the individual or when the individual calls in from the facility that he/she has been reassigned to, record the time. This entry closes out the individuals accountability log.

CONTINUOUS ACCOUNTABILITY ROSTER

DATE (MM/DD/YY) / /

PAGE OF

1.

Name (Team Leader)	Badge #	Time : Out	Call In Time Freq.	hr. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td><td> </td></tr></table>					Time : In
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Emergency Team (If Applicable)									

Task Location

Task Description

2.

Name (Team Leader)	Badge #	Time : Out	Call In Time Freq.	hr. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td><td> </td></tr></table>					Time : In
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Emergency Team (If Applicable)									

Task Location

Task Description

3.

Name (Team Leader)	Badge #	Time : Out	Call In Time Freq.	hr. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td><td> </td></tr></table>					Time : In
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Emergency Team (If Applicable)									

Task Location

Task Description

MISSING PERSON ROSTER

DATE: ____ / ____ / ____

PAGE: ____ OF ____

	<u>NAME (Print)</u>	<u>BADGE NO.</u>	<u>LAST KNOWN LOCATION</u>
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20.	_____	_____	_____

REQUEST/APPROVAL PAGE

SAFETY RELATED

Required Review Level (check one)



PORC



QUALIFIED REVIEWER

PROCEDURE NUMBER: EP-003-020 REVISION: 12 CHANGE: 0 DEVIATION: N/ATITLE: Emergency Preparedness Drills and ExercisesEFFECTIVE DATE/MILESTONE: N/A
(N/A If Same as Approval Date)PROCEDURE OWNER: Emergency Planning Manager
(Position Title)PREPARER (Print Name / Initial): J.J. Lewis / [Signature] DATE: 04/19/03

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: Revision bars were not used for this revision because of the extensive nature of the revision. This procedure revision implements in part changes approved by the NRC in the NRC Safety Evaluation Report for the Waterford 3 Emergency Response Time Submittal, dated December 23, 2002. 1. Make format and grammatical changes to better comply with W2.109 and W2.110. 2. Revise references in section 2 to delete FEMA REP 14 (no longer used as federal guidance), and add Desk Guide 17 and LI-102 to update the procedure. 3. Add second NOTE at step 5.1 to ensure procedural implementation of commitment P-7357. 4. Added new step 5.1.1.4 that some exercises should be unannounced to fully implement commitment P-7375. 5. Add NOTE at step 5.2.2 to ensure drills are evaluated for elements contained in the NRC Safety Evaluation Report for the Waterford 3 Emergency Response Time Submittal, dated December 23, 2002. 6. Revise step 5.2.5 to require notification period of "at least 30 days" rather than have it unspecified to better address commitment P-7366. 7. Revise step 5.3.1.2 to indicate drill control team members "may" attend annual training to provide flexibility. This training is not a requirement. 8. Deleted all procedural reference to Attachments 7.3, 7.4, 7.5 and 7.6 and removed these attachments to Desk Guide 17 to simplify procedure. 9. Change "resolved" to "dispositioned" in steps 5.4.2.6.1 (new numbering) and 5.5.3.1.1 (new numbering) to clarify procedure.

☒ Request/Approval Page Continuation Sheet(s) attached.

EC SUPERVISOR	APPROVAL:	<u>N/A</u>	DATE:	<u>N/A</u>
50.59 REVIEWER Required? <input type="checkbox"/>	REVIEW:	<u>N/A</u>	DATE:	<u>N/A</u>
<input checked="" type="checkbox"/> PROGRAMMATICALLY EXCLUDED	PORC Mtg. No.:	<u>03-003</u>	DATE:	
50.54 REVIEWER Required? <input checked="" type="checkbox"/>	REVIEW:	<u>[Signature]</u>	DATE:	<u>4-21-03</u>
TECHNICAL REVIEWER	REVIEW:	<u>[Signature]</u>	DATE:	<u>4-21-03</u>

Change Notice (CN)? ☐ N/A

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

QUALIFIED REVIEWER Required? <input checked="" type="checkbox"/>	REVIEW:	<u>[Signature]</u>	DATE:	<u>4/30/03</u>
GROUP/DEPT. HEAD REVIEW <input type="checkbox"/> or APPROVAL <input checked="" type="checkbox"/>		<u>[Signature]</u>	DATE:	<u>4/30/03</u>
GM, PLANT OPERATIONS REVIEW <input type="checkbox"/> or APPROVAL <input type="checkbox"/>		<u>N/A</u>	DATE:	<u>N/A</u>
VICE PRESIDENT OPERATIONS APPROVAL:		<u>N/A</u>	DATE:	<u>N/A</u>

CONTROLLEDCOPY No. FEK

PROCEDURE NUMBER: EP-003-020 REVISION: 12 CHANGE: 0 DEVIATION: N/ATITLE: Emergency Preparedness Drills and Exercises

DESCRIPTION AND JUSTIFICATION OF CHANGE: (continued) 10. Refer to items from drill activities as "drill controller" items where applicable (steps 5.4.2.6.1 and 5.4.2.7 for instance) to clarify procedure to reflect the actual practice of significant items requiring disposition as controller items. 11. Change steps 5.4.2.11 A and 5.5.3.6 A to indicate procedure requirements satisfied by a drill "may be" included in the report cover letter to provide flexibility. 12. Delete "definitely" in step 5.5.2.6 A 2 as term is superfluous. 13. Relocate records retention information in section 5.6 to section 8.0, Records and reword section 8.0 to eliminate unnecessary requirements and reference to all attachments to simplify procedure. 14. Add a final condition for generation of Condition Reports in section 6.0. 15. Revise Attachment 7.2 to provide more "optional" items and refer generically to drill controller documentation rather than any required attachments or forms to provide flexibility and simplify procedure. 16. Bring Attachment 7.1 up to current procedure revision to simplify procedure.

TABLE OF CONTENTS

1.0	PURPOSE	2
2.0	REFERENCES	2
3.0	RESPONSIBILITIES	3
4.0	INITIATING CONDITIONS	4
5.0	PROCEDURE	5
5.1	Drill and Exercise Scheduling Requirements	5
5.2	Drill and Exercise Development	8
5.3	Drill and Exercise Preparation and Conduct	10
5.4	Post Drill Activities	11
5.5	Post Exercise Activities	13
6.0	FINAL CONDITIONS	16
7.0	ATTACHMENTS	16
7.1	Definitions	17
7.2	Drill and Exercise Development and Documentation Requirements	18
8.0	RECORDS	16

LIST OF EFFECTIVE PAGES

1-18

Revision 12

Informational Use

1.0 PURPOSE

- 1.1 This procedure provides guidance for the preparation, scheduling, performance, and evaluation of emergency preparedness drills and exercises.
- 1.2 This procedure applies to drills conducted by departments other than Emergency Planning only for Security notifications described in Section 5.2.

2.0 REFERENCES

- 2.1 Waterford 3 SES Emergency Plan
- 2.2 NUREG 0654/FEMA-REP-1
- 2.3 Emergency Planning Desk Guide 17, Drill Control Team Documentation
- 2.4 Waterford 3 SES Final Safety Analysis Report
- 2.5 Waterford 3 SES Emergency Medical Assistance Program (EMAP)
- 2.6 EP-003-040, Emergency Equipment Inventory
- 2.7 EP-003-070, Emergency Communications Systems Routine Testing
- 2.8 EPP-451, Emergency Planning Action Item Tracking System
- 2.9 NTP-202, Fire Protection Training
- 2.10 LI-102, Corrective Action Process

3.0 RESPONSIBILITIES

- 3.1 The EPM is responsible for the coordination of all emergency preparedness drill and exercise activities.
- 3.2 The General Manager, Plant Operations, or his designee, approves plant drill and exercise packages in accordance with the requirements of Attachment 7.2.
- 3.3 The Vice President, Operations or his designee approves exercise packages.
- 3.4 Drill Control Team responsibilities:
 - 3.4.1 Lead Controller
 - 3.4.1.1 Reports to the Emergency Planning Manager.
 - 3.4.1.2 Coordinates development of drill and exercise scenario packages.
 - 3.4.1.3 Maintains overall control of the conduct of the drill or exercise as defined in the scenario package.
 - a. Coordinates Drill Control Team activities.
 - b. Evaluates situations not anticipated in the scenario package to determine appropriate drill control team actions.
 - c. The Lead Controller may adjust the scenario timeline to compensate for unanticipated participant actions.
 - 3.4.1.4 Coordinates evaluation of the drills and exercises.
 - 3.4.1.5 Prepares a report of drills and exercises for approval by the Emergency Planning Manager.
 - 3.4.1.6 Ensures all drill and exercise preparations and restorations are completed in a timely manner.

3.4.2 Scenario Development Team Members

3.4.2.1 Report to the Lead Controller.

3.4.2.2 Develop drill or exercise scenario packages.

3.4.3 Controllers

3.4.3.1 Report to the Lead Controller

3.4.3.2 Control scenario activities in their assigned areas.

- a. Coordinate activities of Monitors assigned to their area.
- b. Inform the Lead Controller of the status of scenario activities in their area.
- c. Notify the Lead Controller of problems or unanticipated participant responses.
- d. If the scenario timeline or activities of other Controllers are not affected, then Controllers may make minor adjustments to the scenario.
- e. If changes to the scenario could affect the scenario timeline or other Controllers, then the Lead Controller authorizes the changes.

3.4.4 Monitors

3.4.4.1 Report to the Controller for their assigned area.

3.4.4.2 Provide simulated information to the participants in accordance with the scenario package.

3.4.4.3 Report the status of activities in their assigned area

3.4.4.4 Discuss problems with their Controller.

4.0 INITIATING CONDITIONS

4.1 This procedure is used to develop, conduct and document emergency preparedness drills and exercises.

5.0 PROCEDURE

5.1 Drill and Exercise Scheduling Requirements

NOTE

1. If response to an actual emergency event is critiqued and evaluated, then the event may be used to satisfy the requirements listed below at the discretion of the EPM.
2. Unless weather conditions exist posing undue risk to personnel or demanding the full attention of plant staff or support personnel, scheduled drills or exercises are not postponed due to inclement weather.

NOTE

Drills and exercises shall at a minimum meet the following elements:

1. Ensure the participants are familiar with their respective duties and responsibilities.
2. Verify the adequacy of the Emergency Plan and the methods used in the Emergency Plan Implementing Procedures.
3. Test communications networks and systems.
4. Check the availability of emergency supplies and equipment.
5. Verify the operability of emergency equipment.

5.1.1 A major exercise simulating at least a Site Area Emergency is conducted every two years.

5.1.1.1 Waterford 3 drill team members evaluate all exercises.

5.1.1.2 Federal and State evaluators shall evaluate biennial exercises.

5.1.1.3 Exercise scenarios are varied to ensure that over a 6 year period all major components of Waterford 3 emergency preparedness are exercised.

5.1.1.4 Some exercises shall be unannounced.

5.1.1.5 An off hours drill shall be initiated between 6 p.m. and 4 a.m. at least once every 6 years.

5.1.1.5.1 This off hours drill may be held in conjunction with an exercise or other drill.

NOTE

Communications drills shall involve the actual transmission of information and confirmation that the correct information has been received.

5.1.2 Communication drills

5.1.2.1 Monthly, a communication drill involving the state and local governments within the Plume Exposure Pathway Emergency Planning Zone (10-mile EPZ) is conducted.

5.1.2.1.1 These drills may be held in conjunction with an exercise or other scheduled drills.

5.1.2.2 Quarterly, a communication drill involving the Federal and State Emergency Response Organizations within the Ingestion Exposure Pathway Emergency Planning Zone (50-mile EPZ) is conducted.

5.1.2.2.1 These drills may be held in conjunction with an exercise or other scheduled drills.

5.1.2.3 Annually, a communication drill between Waterford 3 and the State and local Emergency Operations Centers (EOCs) and the Field Assessment Teams is conducted.

5.1.2.3.1 This drill may be held in conjunction with an exercise or other scheduled drills.

5.1.3 Fire drills are conducted in accordance with NTP-202.

5.1.4 Plant environmental and radiological monitoring drills (onsite and offsite) are conducted annually.

5.1.4.1 These drills may be held in conjunction with an exercise or other scheduled drills.

5.1.4.2 These drills shall include collection and analysis of sample media (i.e., water, grass, soil and air), and provisions for communications and record keeping.

5.1.5 Health Physics drills involving response to, and analysis of, simulated elevated airborne and liquid samples, and direct radiation measurements in the environment, are conducted semi-annually.

5.1.5.1 These drills may be held in conjunction with an exercise or other scheduled drills.

- 5.1.6 Medical emergency drills are conducted annually in accordance with the Waterford 3 SES Emergency Medical Assistance Program and may be held in conjunction with an exercise or other drills.
- 5.1.7 A drill is conducted semi-annually to assess the capability of Control Room personnel to don air-supplied respiratory equipment within two minutes.
 - 5.1.7.1 This drill may be held in conjunction with an exercise or other scheduled drills.
- 5.1.8 A drill is conducted at least annually to test the effectiveness of the backup augmentation capabilities.
- 5.1.9 Additional drills, tabletops and walkthroughs may be conducted, at the discretion of the EPM, to maintain emergency preparedness at an acceptable level.

5.2 Drill and Exercise Development

NOTE

1. Drill and exercise scenario information is considered proprietary in nature. Only the Drill Control Team and authorized reviewers should have prior knowledge of this information.
2. Development and documentation requirements for each drill or exercise are listed in Attachment 7.2.

5.2.1 The EPM determines the scope and objectives for each drill or exercise.

5.2.1.1 The EPM coordinates the objectives with State and local agencies, as necessary.

5.2.1.2 Exercise objectives are submitted to the NRC and FEMA, as requested.

5.2.2 The Lead Controller coordinates development of the drill or exercise scenario package, ensuring the postulated events allow satisfying of the Scope and Objectives.

NOTE

Scenarios, where applicable (site drills, exercises, augmentation drills), shall provide for evaluation of the capability to meet the Emergency Plan requirements for shift augmentation, emergency response facility minimum staffing and operational status of emergency response facilities.

5.2.2.1 Scenarios for each of the exercises and selected site drills will include, as a minimum, the following:

- a. The basic objective(s) and appropriate evaluation criteria.
- b. The date(s), time period, place(s) and participating organizations and agencies.
- c. The simulated events.
- d. A time schedule of real and simulated initiating events.
- e. A narrative summary describing the conduct of the exercise or drills to include such things as simulated casualties, offsite fire department assistance, rescue of personnel, use of protective clothing, employment of radiological monitoring teams, and public information activities.

- 5.2.3 The EPM reviews the scenario package for accuracy and completeness. The EPM ensures that the appropriate management approvals are obtained.
 - 5.2.3.1 The exercise scenario package is submitted to the NRC and FEMA, as requested.
 - 5.2.3.2 Waterford 3 Quality Assurance Department may conduct an independent technical review of the exercise scenario package.
 - 5.2.3.3 Comments received from the above reviews are resolved and documented prior to conducting the exercise.
- 5.2.4 If drill or exercise activities could be witnessed by the general public, then the EPM ensures the Entergy Operations Communications Group is informed of the event(s) prior to conducting the activity.
- 5.2.5 Affected offsite agencies are notified at least 30 days prior to any major drill or exercise.
- 5.2.6 The Security Superintendent (or designee) should be notified during the development stage of any drill or exercise involving response of offsite emergency vehicles or personnel to the plant site to ensure notification and approval of Security response to the scenario by NRC (if required).
 - 5.2.6.1 This notification includes ambulance (air and ground), fire trucks, Sheriff's Department and State Police vehicles, etc.
 - 5.2.6.2 The determination whether NRC approval is required is made by the Security Superintendent (or designee).

5.3 Drill and Exercise Preparation and Conduct

NOTE

Development and documentation requirements for each drill or exercise are listed in Attachment 7.2.

- 5.3.1 The Lead Controller ensures that each drill control team member understands the drill control team organization, the contents of the scenario package, documentation requirements and responsibilities for conducting the drill or exercise.
- 5.3.1.1 Prior to each major drill or exercise date, the Lead Controller conducts a drill control team package walkdown meeting to discuss the scenario package.
- 5.3.1.2 Each drill control team member may attend a training session annually to discuss effective methods for controlling and evaluating the drills and exercises.
- 5.3.2 During drills and exercises, the Lead Controller has the overall responsibility for controlling the conduct of the scenario events.
- 5.3.3 During drills and exercises, controllers and monitors provide information, as required by the scenario package, to participants to ensure the continuity of the scenario events.
- 5.3.4 During drills and exercises, controllers, monitors and evaluators document comments and observations as appropriate for the individual drill team position.
- 5.3.5 If manpower permits, then personnel from the Quality Assurance Department may observe the drill or exercise and evaluate the emergency response.
- 5.3.6 If major objectives have been demonstrated or continuation of the drill or exercise may not provide significant additional training, then the Lead Controller may terminate the drill or exercise.
- 5.3.6.1 The Lead Controller coordinates the termination of the drill with other key members of the drill control team.

5.4 Post Drill Activities

5.4.1 Upon Termination of the Drill:

5.4.1.1 Area critiques are held for each major area of response.

- A. Area critiques provide an opportunity for participants to ask questions, discuss the response and provide feedback to the drill control team.
- B. Drill control team members may ask the participants specific questions to ensure the accuracy of the drill or exercise evaluation.

5.4.1.2 Drill control team members collect logs, records and forms generated by the drill participants during the drill.

5.4.1.3 The Lead Controller ensures the Emergency Response Facilities are restored to pre-drill conditions.

5.4.2 Drill Evaluation Report

5.4.2.1 Following the termination of the drill, Controllers debrief Monitors assigned to their area.

5.4.2.1.1 The Controller develops an evaluation of their area based on Controller and Monitor comments and observations.

5.4.2.2 Following the Monitor debriefing, the Controllers provide their evaluation and drill documentation to the Lead Controller.

5.4.2.2.1 The Lead Controller debriefs Controllers identifying any deficiencies which should be corrected prior to the next drill.

5.4.2.2.2 These deficiencies and drill documentation are forwarded to the EPM.

5.4.2.3 If an evaluation was performed, then the Quality Assurance Department personnel provide their comments to the Lead Controller or EPM for resolution.

- 5.4.2.4 Drill Controller items that can be quickly resolved are placed on the Drill Punch List.
- 5.4.2.4.1 Drill Punch List Items are dispositioned prior to approval of the drill evaluation report by the EPM.
- 5.4.2.5 Emergency Planning Action Items are written in accordance with EPP-451 to resolve longer term items.
- 5.4.2.6 Condition Reports may be written, as required.
- 5.4.2.7 The Lead Controller develops a drill evaluation report in accordance with the requirements of Attachment 7.2.
- 5.4.2.8 Drill evaluation reports should be completed within approximately 60 days of the completion of the activity.
- 5.4.2.9 The Emergency Planning Manager reviews and approves the drill evaluation report and determines distribution of the report.
 - A. Drill requirements in Section 5.1 of this procedure that were satisfied by the drill may be included in the evaluation report cover letter.
- 5.4.2.10 The EPM notifies the Training Department of any items to be included in the training program.
 - A. A copy of the Drill Evaluation Report is provided to the Training Department.
 - B. Training Requests, describing specific corrective actions, are completed and provided to the Training Department, as necessary.

5.5 Post Exercise Activities

5.5.1 Upon Termination of the Exercise:

5.5.1.1 Area critiques are held in each emergency response facility.

- A. Area critiques provide an opportunity for participants to ask questions, discuss the response and provide feedback to the drill control team.
- B. Drill control team members may ask the participants specific questions to ensure the accuracy of the exercise evaluation.

5.5.1.2 Drill control team members collect Logs, Records and Forms, generated by the exercise participants during the exercise.

5.5.1.3 The Lead Controller ensures the Emergency Response Facilities are restored to Pre-Exercise Conditions.

5.5.2 Initial Exercise Evaluation

5.5.2.1 Following the termination of the exercise, Controllers debrief Monitors assigned to their area.

5.5.2.2 The Controller develops an evaluation of their area based on Controller and Monitor comments and observations noting specific items of concern appearing to require Emergency Planning Department evaluation (either a deficiency or area where improvement is necessary).

5.5.2.3 The Controllers also note exceptional performance or minor problems that are not programmatic in nature.

5.5.2.4 The Lead Controller or the EPM debriefs the Quality Assurance Department exercise evaluators and identifies specific areas of concern as necessary.

5.5.2.5 Following the Monitor debriefing, the Controllers provide their evaluation and exercise documentation to the Lead Controller.

5.5.2.6 The EPM meets with the Controllers to critique the Exercise.

A. Controller items are discussed and classified into four categories:

1. Deficiency - Any action, equipment malfunction, practice or statement identified during the implementation of the Waterford 3 Emergency Plan, that implies that the state of emergency preparedness at Waterford 3 does not provide reasonable assurance that adequate measures to protect the health and safety of the general public are taken in the event of an actual radiological emergency.
2. Weakness - Any action, equipment malfunction, practice or statement identified during the implementation of the Waterford 3 Emergency Plan, that requires prompt corrective action on behalf of Entergy Operations, Inc., but does not imply that the state of emergency preparedness at Waterford 3 does not provide reasonable assurance that adequate measures to protect the health and safety of the general public are taken in the event of an actual radiological emergency.
3. Significant Improvement - Any action, equipment malfunction, practice or statement identified during the implementation of the Waterford 3 Emergency Plan, that indicates prompt corrective action should be taken on behalf of Entergy Operations, Inc., in order to improve the emergency preparedness program, but does not imply that the state of emergency preparedness at Waterford 3 does not provide reasonable assurance that adequate measures to protect the health and safety of the general public are taken in the event of an actual radiological emergency.
4. Observation - Any action, equipment malfunction, practice or statement identified during the implementation of the Waterford 3 Emergency Plan that requires further review to determine if a corrective action on behalf of Entergy Operations, Inc., is necessary. Observations are general comments which may be used to enhance the Waterford 3 Emergency Plan, Emergency Plan Implementing Procedures, facilities, equipment or the Emergency Response Training Program. Observations are not necessarily negative or positive in regards to the readiness of emergency preparedness.

5.5.2.7 Based on the information received from the exercise Controllers and the Quality Assurance personnel, the EPM compiles a report that lists each Deficiency, each Weakness, each Significant Improvement and the number of Observations identified during the exercise.

5.5.2.8 The EPM meets with a Management Review Board, consisting of senior Waterford 3 management, to discuss the report of Drill Control Team identified items.

5.5.2.9 The Management Review Board agrees upon a final list of significant findings.

5.5.2.9.1 These findings are presented to the NRC in the Licensee/NRC Critique.

5.5.3 Exercise Evaluation Report

5.5.3.1 Controller items that can be quickly resolved are placed on the Exercise Punch List.

5.5.3.1.1 Exercise Punch List Items are dispositioned prior to approval of the drill evaluation report by the Emergency Planning Manager.

5.5.3.2 Emergency Planning Action Items are written in accordance with EPP-451 to resolve longer term items.

5.5.3.3 Condition Reports may be written, as required.

5.5.3.4 The Lead Controller develops an exercise evaluation report in accordance with the requirements of Attachment 7.2.

5.5.3.5 Exercise evaluation reports should be completed within approximately 60 days of the completion of the activity.

5.5.3.6 The Emergency Planning Manager reviews and approves the exercise evaluation report and forwards it to the General Manager, Plant Operations; the Director, Nuclear Safety Assurance; and the Vice President, Operations.

A. Drill requirements in Section 5.1 of this procedure that were satisfied by the exercise may be included in the evaluation report cover letter.

5.5.3.7 The EPM notifies the Training Department of any items to be included in the training program.

A. A copy of the Exercise Evaluation Report is provided to the Training Department.

B. Training Requests, describing specific corrective actions, are completed and provided to the Training Department, as necessary.

6.0 FINAL CONDITIONS

- 6.1 The Evaluation Report is forwarded to the designated management personnel, including the Training Department for items to include in the Training Program, as appropriate.
- 6.2 All documents and records are completed and filed for retention in Waterford 3 Records Center.
- 6.3 Restoration of the Emergency Response Facilities to Pre-Drill or Exercise conditions is completed.
- 6.4 Action Items are documented and tracked on the Emergency Planning Action Item Tracking System.
- 6.5 Condition Reports generated as necessary.

7.0 ATTACHMENTS

- 7.1 Definitions
- 7.2 Drill and Exercise Development and Documentation Requirements

8.0 RECORDS

- 8.1 The Drill or Exercise Package, Drill or Exercise Evaluation Report and applicable supporting documents are forwarded to the Waterford 3 Records Center.
- 8.2 The records identified in 8.1 above are retained by the Waterford 3 records Center for a period of at least 6 years.

DEFINITIONS

1. **Controller** - A member of the drill control team assigned to Control and Evaluate the Drill or Exercise activities within a component of response through interaction with the monitors and participants. Controllers are responsible for preparation and conduct of monitors.
2. **Drill** - A supervised training instruction period (including on-the-spot correction of erroneous performance) conducted or simulated in a work environment for the purpose of developing and maintaining skills required to cope with abnormal or emergency plant conditions, including an evaluation of performance.
3. **Drill Control Team** - The cadre of personnel assigned to develop, control and evaluate the Drill or Exercise.
4. **Drill Package** - The document developed by the drill team that contains the administrative and control details of the scenario.
5. **Exercise** - A demonstration of the response to Simulated Emergency Conditions, including the demonstration of the ability to effectively evaluate the response. An Exercise includes some amount of participation by State and local Emergency Preparedness personnel.
6. **Exercise Package** - See Drill Package.
7. **Integrated Tabletop** - A training activity similar to a site drill in that it has a scenario associated with it and the participants react as they would to a real event. Major emergency response facilities (TSC, EOF and OSC) are staffed at the same time and communications among the facilities is a major part of the training activity. Integrated tabletop response is not evaluated as it would be in an exercise or drill. Control Room response, offsite field monitoring teams and inplant repair teams are simulated by the tabletop control team
8. **Lead Controller** - The Senior Controller responsible for coordinating the development and conduct of the Drill or Exercise.
9. **Management Review Board** - Senior Waterford 3 management personnel and other personnel designated by management. The Management Review Board reviews the findings identified by the drill control team during an exercise.
10. **Monitor** - A member of the drill control team responsible for the Control and Evaluation of a component of response under the direction of a Controller.
11. **Observer** - An individual who watches a component of response, but is not responsible for evaluation or assistance. An observer is not a member of the Drill Control Team.
12. **Off-Hours Drill or Exercise** - An off-hours drill or exercise is one which starts between the hours of 6:00 PM and 4:00 AM.
13. **Tabletop** - A supervised training instruction period that involves "talking through" responses and instructions, but may involve no actual "activities" related to response. Evaluation of performance is usually not included.
14. **Walkthrough** - A supervised training instruction period that involves response activities, assistance from the drill team, and no evaluation of response.

DRILL AND EXERCISE DEVELOPMENT AND DOCUMENTATION REQUIREMENTS

	EXERCISE	SITE DRILLS	HP DRILL	CONTROL ROOM BREATHING AIR DRILLS	MEDICAL DRILLS	AUGMENTATION DRILLS	COMMUNICATION DRILLS	OTHER DRILLS	TABLETOPS	WALKTHROUGHS
Drill Package	R	R	O	O	O	O	N	O	N	N
EPM Approval	R	R	R	R	R	R	N	R	R	R
General Manager, Plant Operations Approval	R	R	O	R	O	O	N	O	O	N
Vice President Operations Approval	R	N	N	N	N	N	N	N	N	N
Participation Documented on Attendance Form	R	R	R	R	R	N	N	R	O	O
Drill Controller Findings Documented Separately From Drill Report	R	R	O	N	O	N	N	O	N	N
Evaluation Report	R	R	R	R	R	R	N	R	O	O

R = Required

N = Not Required

O = Optional (At the discretion of the EPM)

NOTES: Exceptions to the requirements on this attachment are approved and documented by the EPM.

Drills may be conducted in conjunction with an exercise or site drill.

Communications Drills are documented with a completed Repetitive Task Form and applicable communications forms.

REQUEST/APPROVAL PAGE

SAFETY RELATED

Required Review Level (check one)



PORC



QUALIFIED REVIEWER

PROCEDURE NUMBER: EP-003-060REVISION: 5CHANGE: 1TITLE: Emergency Communications GuidelinesEFFECTIVE DATE/MILESTONE: 4/11/2003

(N/A If Same as Approval Date)

PROCEDURE OWNER: Emergency Planning Manager

(Position Title)

PREPARER (Print Name / Initial):

Ricky Oubre1 RPODATE: 3/20/2003

ACTION:

- ☐ New Procedure
☐ Deletion
☐ Revision

☒ ChangeEC? ☐N/A

(Applicable W2.302 Step Numbers)

- ☐ Deviation
☐ Temporary Procedure

Expiration Date/Milestone:

N/A

Applicable Conditions:

N/A

DESCRIPTION AND JUSTIFICATION OF CHANGE:

- 1) Changed the wording from "activated" to "Operational" as per the response time submittal change.
 2) Changed the wording from "activated" to "responsibilities have been transferred to the EOF"

☐ Request/Approval Page Continuation Sheet(s) attached.

EC SUPERVISOR

APPROVAL:

N/A

DATE:

50.59 REVIEWER

Required? ☐

REVIEW:

N/A

DATE:

☒ PROGRAMMATICALLY EXCLUDED

PORC Mtg. No.:

03-003

DATE:

50.54 REVIEWER

Required? ☒

REVIEW:

DATE:

TECHNICAL REVIEWER

REVIEW

DATE:

Change Notice (CN)?



CHANGE NOTICE (CN) SUPERVISOR

APPROVAL:

N/A

DATE:

CHANGE NOTICE (CN) ON-SHIFT SS/CRS

APPROVAL:

N/A

DATE:

Final Approval Due By:

QUALIFIED REVIEWER

Required? ☒

REVIEW:

DATE:

GROUP/DEPT. HEAD

REVIEW ☐ or APPROVAL ☒

DATE:

GM, PLANT OPERATIONS

REVIEW ☐ or APPROVAL ☐

DATE:

VICE PRESIDENT, OPERATIONS

APPROVAL:

N/A

DATE:

CONTROLLED

W2.109, Rev. 4

Attachment 7.1 (Page 2 of 3)

COPY No. FEY

TABLE OF CONTENTS

1.0	PURPOSE	2
2.0	REFERENCES	2
3.0	RESPONSIBILITIES	2
4.0	INITIATING CONDITIONS	2
5.0	PROCEDURE	3
5.1	General Communications Guidelines	3
5.2	Use of the Civil Defense Radio	4
6.0	FINAL CONDITIONS	6
7.0	ATTACHMENTS	6
7.1	General Status Board Maintenance Guidelines	7
7.2	3 Way Communication Methods	8
8.0	RECORDS	6

LIST OF EFFECTIVE PAGES

4-6, 8,9	Revision 5
1, 2, 3	Change 1
7	Revision 4

Informational Use

1.0 PURPOSE

- 1.1 This procedure provides guidance for emergency response personnel for the following:
 - 1.1.1 General communications techniques to use during emergency situations;
 - 1.1.2 Guidance for the use of the Civil Defense Radio;
 - 1.1.3 General guidance for maintaining status boards to communicate information to emergency response personnel.

2.0 REFERENCES

- 2.1 Waterford 3 SES Emergency Plan
- 2.2 EP-002-010, Notifications and Communications
- 2.3 EP-002-150, Emergency Plan Implementing Records
- 2.4 UNT-005-034, Communication Affecting Plant Operation

3.0 RESPONSIBILITIES

- 3.1 The Emergency Coordinator (EC) and Emergency Operations Facility (EOF) Director, when operational, have the overall responsibility to ensure emergency communications activities are conducted in accordance with this procedure.
- 3.2 All emergency response personnel are responsible for conducting emergency communications in accordance with this procedure.

4.0 INITIATING CONDITIONS

- 4.1 This procedure is to be initiated upon activation of any of the following emergency response facilities:
 - 4.1.1 Control Room Emergency Communications Station
 - 4.1.2 Technical Support Center (TSC)
 - 4.1.3 Operational Support Center (OSC)
 - 4.1.4 Emergency Operations Facility (EOF)

5.0 PROCEDURE

5.1 General Communications Guidelines

5.1.1 All communications transmitted to non-Entergy agencies/organizations should be authorized by the Emergency Coordinator, or the EOF Director, when responsibilities have been transferred to the EOF.

1

5.1.2 All emergency communications should be documented in accordance with the requirements of EP-002-150 or EP-002-010.

5.1.3 When calling another station or individual, then always identify the station or individual you are calling followed by an identification of your station. For example:

"Control Room, this is the Operational Support Center ..."

"Shift Manager, this is the Operations Coordinator ..."

5.1.4 Speak directly into the telephone mouth piece. Many of the emergency facility telephones have "confidencers" installed to eliminate background noise. If you do not speak directly into the telephone mouth piece, then the person you are calling may not be able to hear you.

5.1.5 Always include the use of the 3 legged communication methods, provided on Attachment 7.2, during face-to-face communications and over communications circuits, to acknowledge the receipt of information.

5.1.5.1 Always ensure that you receive the second leg and third leg of all communications. If you do not receive them, then request them from the person you are speaking with.

5.1.5.2 When requesting action to be taken, then request that you be informed when the action is completed.

5.1.5.3 It is also a good practice to establish a time when the action will be completed and establish a time for periodic updates.

5.1.6 Messages should be short, concise and to the point.

5.1.7 Avoid the use of abbreviations/acronyms when communicating information. For example:

"Emergency Diesel Generator" rather than "EDG."

SAFETY RELATED

Required Review Level (check one)



PORC



QUALIFIED REVIEWER

PROCEDURE NUMBER: EP-003-070 REVISION: 21 CHANGE: 0 DEVIATION: N/ATITLE: Emergency Communications Systems Routine TestingEFFECTIVE DATE/MILESTONE: N/A

(N/A If Same as Approval Date)

PROCEDURE OWNER: Emergency Planning Manager

(Position Title)

PREPARER (Print Name / Initial): J.J. Lewis / [Signature] DATE: 03/10/03**ACTION:**

- ☐ New Procedure
☐ Deletion
☒ Revision
☐ Change

EC? ☐

(Applicable W2.109 Step Numbers)

- ☐ Deviation
☐ Temporary Procedure

Expiration Date/Milestone: _____

Applicable Conditions: _____

DESCRIPTION AND JUSTIFICATION OF CHANGE: Incorporate Change 1. 1. Add statement to Section 1.0 to indicate periodic testing of alarm systems is not addressed by the procedure and reference proper procedure to ensure commitment P-7997 is fully satisfied and to clarify procedure scope. 2. Add references to EP-001-020, Alert, EP-001-030, Site Area Emergency, EP-001-040, General Emergency, LI-102, Corrective Action Process and OI-003-000, Emergency Communications Routine Testing in Section 2.0 to clarify procedure. 3. Change the title in step 3.4 to "Manager, NCIS" from "Computer Systems and Support Supervisor" to update procedure. 4. Change formatting, style and grammar throughout the procedure to comply with W2.109 and W2.110. Changes that are formatting alone are not marked with a revision bar. 5. Delete "report number" from step 5.1.6. This eliminates an unnecessary requirement as referencing the applicable drill/event by any method is sufficient. 6. Delete the entire section 5.2.2 on performing pager tests from the computer terminal as tests are no longer routinely performed in this manner. 7. Delete all telephone numbers and passwords from procedure to simplify procedure and eliminate proprietary information from the procedure. This information is available to the user from other sources. 8. Delete step 5.2.3.8 requiring the Control Room to make a plant page announcement to reduce Operations burden and eliminate unnecessary requirement. 9. Change "Hot Shutdown Panel" to "Remote Shutdown Panel" in step 5.3.2 to correct procedure. 10. Brought Attachment 7.1 revision up to current procedure revision (21) to simplify procedure.

☐ Request/Approval Page Continuation Sheet(s) attached.

EC SUPERVISOR	APPROVAL:	<u>N/A</u>	DATE:	<u>N/A</u>	
50.59 REVIEWER	Required? <input type="checkbox"/>	REVIEW:	<u>N/A</u>	DATE:	<u>N/A</u>
<input checked="" type="checkbox"/> PROGRAMMATICALLY EXCLUDED		PORC Mtg. No.:	<u>03-003</u>	DATE:	
50.54 REVIEWER	Required? <input checked="" type="checkbox"/>	REVIEW:	<u>[Signature]</u>	DATE:	<u>3-16-03</u>
TECHNICAL REVIEWER		REVIEW:	<u>[Signature]</u>	DATE:	<u>03-16-03</u>

Change Notice (CN)? ☐CHANGE NOTICE (CN) SUPERVISOR APPROVAL: N/A DATE: N/ACHANGE NOTICE (CN) ON-SHIFT SM/CRS APPROVAL: N/A DATE: N/A2 Week Final Approval DATE: N/A

QUALIFIED REVIEWER	Required? <input checked="" type="checkbox"/>	REVIEW:	<u>[Signature]</u>	DATE:	<u>4/30/03</u>
GROUP/DEPT. HEAD	REVIEW <input type="checkbox"/> or APPROVAL <input checked="" type="checkbox"/>		<u>[Signature]</u>	DATE:	<u>5/1/03</u>
GM, PLANT OPERATIONS	REVIEW <input type="checkbox"/> or APPROVAL <input type="checkbox"/>		<u>N/A</u>	DATE:	<u>N/A</u>
VICE PRESIDENT, OPERATIONS	APPROVAL:		<u>N/A</u>	DATE:	<u>N/A</u>

CONTROLLED

W2.109, Rev. 4

Attachment 7.1 (Page 1 of 3)

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TABLE OF CONTENTS

1.0 PURPOSE	2
2.0 REFERENCES	2
3.0 RESPONSIBILITIES	3
4.0 INITIATING CONDITIONS	3
5.0 PROCEDURE	4
5.1 General Instructions	4
5.2 Emergency Response Pager System	6
5.3 St. Charles Parish Industrial Hotline	8
5.4 Operational Hotline (OHL)	9
5.5 NRC Emergency Notification System (ENS)	10
5.6 NRC Health Physics Network (HPN)	11
5.7 State Civil Defense Radio Network	12
5.8 Emergency Response Data System (ERDS)	13
6.0 FINAL CONDITIONS	15
7.0 ATTACHMENTS	15
7.1 Emergency Communications Test Sheet	16
8.0 RECORDS	15

LIST OF EFFECTIVE PAGES

1-20

Revision 21

Informational Use

1.0 PURPOSE

- 1.1 This procedure provides guidance for conducting periodic tests of emergency communications systems.
- 1.2 Periodic testing of the site-wide alarm systems is conducted in accordance with OI-003-000 and is not addressed by this procedure.

2.0 REFERENCES

- 2.1 Waterford 3 SES Emergency Plan
- 2.2 NUREG-0654/FEMA-REP-1
- 2.3 EP-002-010, Notifications and Communications
- 2.4 EP-003-020, Emergency Preparedness Drills and Exercises
- 2.5 10 CFR 50 Appendix E
- 2.6 EPP-451, Emergency Planning Action Item Tracking System
- 2.7 Emergency Management Resources Book
- 2.8 EPP-428, Emergency Facilities and Equipment Readiness
- 2.9 NUREG-1394, Emergency Response Data System (ERDS) Implementation
- 2.10 OP-901-521, Severe Weather and Flooding
- 2.11 EP-003-060, Emergency Communications Guidelines
- 2.12 UNT-006-010, Event Notification and Reporting
- 2.13 EP-001-020, Alert
- 2.14 EP-001-030, Site Area Emergency
- 2.15 EP-001-040, General Emergency
- 2.16 LI-102, Corrective Action Process
- 2.17 OI-003-000, Emergency Communications Routine Testing

3.0 RESPONSIBILITIES

- 3.1 The Emergency Planning Manager (EPM) is responsible for scheduling, coordinating and documenting emergency communications system testing.
- 3.2 The EPM is responsible for the following emergency communication tests:
 - A. Operational Hotline
 - B. NRC Emergency Notification System (ENS)
 - C. NRC Health Physics Network (HPN)
 - D. State Civil Defense Radio Network
 - E. St. Charles Parish Industrial Hotline
- 3.3 The Duty Emergency Planner is responsible for performing the Emergency Response Pager System test.
- 3.4 The Manager, NCIS is responsible for testing the Emergency Response Data System (ERDS).

4.0 INITIATING CONDITIONS

- 4.1 As directed by the Emergency Planning Manager.
- 4.2 Issuance of a Hurricane Watch or Warning for St. Charles Parish.

5.0 PROCEDURE

5.1 GENERAL INSTRUCTIONS

NOTE

The NRC Resident Inspector should be notified as soon as practical of all required notifications made to the NRC Operations Center on equipment or test failures, regardless of the event time or significance. The Resident Inspector should be contacted at home if the NRC notification occurs after normal business hours.

- 5.1.1 Except for tests of the Civil Defense Radio, notify the Shift Manager (SM) of tests requiring Control Room participation or tests requiring offsite agency participation.
- 5.1.2 During the performance of any emergency communications test, ensure that all parties involved clearly understand that Waterford 3 is only performing a test of the emergency communication system.
- 5.1.3 If an individual discovers a problem or malfunction with an emergency communication system, then immediately report it to the SM or the EPM or Emergency Coordinator (if during a drill or actual emergency).
 - 5.1.3.1 Initiate a condition report, if necessary.
- 5.1.4 All phone numbers needed for the performance of the tests in this procedure are in the Emergency Management Resources Book.
- 5.1.5 In the EOF Operations Room, the telephones are not normally connected. When testing the following circuits, then the telephones should be taken from the Emergency Storage Room and plugged into the floor jacks in the Operations Room.
 - A. NRC Emergency Notification System (ENS)
 - B. NRC Health Physics Network (HPN)

Routine Testing

5.1.6 If satisfactory operation of an emergency communication system is demonstrated and documented as part of an Emergency Planning drill or actual emergency event, then credit may be taken for routine testing by referencing the drill/event in the comments section of the applicable attachment(s).

5.1.7 When directed by the SM, in accordance with OP-901-521, then the following circuits should be tested.

A. Operational Hotline (Control Room)

B. Civil Defense Radio (Control Room)

C. Industrial Hotline (Control Room)

5.2 EMERGENCY RESPONSE PAGER SYSTEM

5.2.1 Test the Emergency Response Pager System once each calendar month.

5.2.1.1 Avoid conducting consecutive tests on the same day of the week (For example, if one test is conducted on Saturday, then the next month's test should not be performed on Saturday).

5.2.1.2 Perform tests between the hours of 7 PM and 9 PM.

5.2.2 Conducting Pager Tests

NOTE

When you call the VNS, then you hear an introductory greeting message. In order to access the callout portion of the program, you must enter your password DURING this introductory message. If you wait until the end of this message, then you will have to repeat step 5.2.2.1.

5.2.2.1 Dial the VNS telephone access number.

5.2.2.2 Enter the Operations Password or your individual password on the telephone keypad.

5.2.2.3 You are asked to enter the scenario number you would like to work with. Enter scenario number "20" on the telephone keypad.

5.2.2.4 The VNS repeats your scenario selection and requests that you to confirm your selection. Respond by pressing "9" on the telephone keypad.

5.2.2.5 You are then given the status of the selected scenario and be asked if you would like to place it in the Queue. Respond by pressing a "9" on the telephone keypad.

5.2.2.5.1 If you press "6", then you exit the program without initiating a test.

5.2.2.6 If you pressed "9", then the VNS informs you that you have Queued scenario "20", as a test, and asks if you are sure this is what you want to do. Respond by pressing "9" for Yes, or "6" for No.

Routine Testing

5.2.2.6.1 If you press "6", then you will exit the program without initiating a test.

5.2.2.7 If you pressed "9", then the VNS will inform you that the scenario is building. This indicates that the test has been initiated.

5.3 ST. CHARLES PARISH INDUSTRIAL HOTLINE

5.3.1 Test the Industrial Hotline once each calendar month.

5.3.2 Test at least one extension in each of the facilities (Control Room, Remote Shutdown Panel, TSC and EOF) in accordance with the following steps:

5.3.2.1 Notify the SM that you are going to conduct a test of the Industrial Hotline.

5.3.2.2 Call the St. Charles Parish Emergency Operations Center and inform them of the test. Refer to the Emergency Management Resources Book for the telephone number.

5.3.2.3 To initiate the test, pick up the receiver and press the Industrial Hotline button. The system will automatically ring at St. Charles Parish.

5.3.2.4 When the Parish answers, then identify yourself as Waterford 3 SES and state that you are conducting a test of the Industrial Hotline.

5.3.2.5 Direct St. Charles Parish to hang up and call back on the Industrial Hotline to verify both receiving and transmitting capabilities of the Industrial Hotline.

5.3.2.6 Notify St. Charles Parish and the SM when the test is complete. (The notice of completion can be given on the Industrial Hotline.)

5.3.2.7 Log the results of the test on Attachment 7.1.

5.4 OPERATIONAL HOTLINE (OHL)

5.4.1 Test the Operational Hotline once each calendar month:

NOTE

If the Control Room OHL extension was satisfactorily tested with the offsite agencies, then it is acceptable to only test the TSC OHL extension with another onsite OHL extension.

5.4.2 Test at least one extension in each of the facilities (Control Room, TSC, EOF and Backup EOF) in accordance with one of the following methods:

5.4.2.1 The test may be performed electronically through the COMLAB ITC Computer Database in the Emergency Planning office. Through a series of tones the presence and operability of the equipment is tested monthly by the computer.

5.4.2.2 The test may be performed manually in accordance with the following steps.

- A Notify the SM that you are going to conduct a test of the Operational Hotline.
- B. To initiate the test, pick up the receiver, and dial the all call number. The system automatically rings at St. Charles Parish, St. John the Baptist Parish, LOEP, LDEQ and Waterford 1 & 2.
- C. When each station answers, then identify yourself as Waterford 3 SES and tell them to stand by.
- D. When all stations have answered, then state that this is only a test of the Operational Hotline.
- E. Notify the agencies and the SM when the test is complete. (The notice of completion can be given on the Operational Hotline.)

5.4.3 Log the results of the test on Attachment 7.1.

5.5 NRC EMERGENCY NOTIFICATION SYSTEM (ENS)

5.5.1 Test the ENS once each calendar month.

5.5.2 Test the ENS extensions in the Control Room, TSC and EOF in accordance with the following steps.

5.5.2.1 Notify the SM that you are going to conduct a test of the ENS.

5.5.2.2 To initiate the test, pick up the receiver. Dial the NRC Operations Center phone number provided on the phone.

A. If the line is busy, then dial the next number on the list.

B. Continue down the list until you reach an open line.

5.5.2.3 When the NRC answers, then state: "This is the Waterford 3 SES in Region IV, (your name) speaking. I am performing a test of the ENS."

5.5.2.4 Give the NRC Operations Center Duty Officer the ENS phone number you are calling from and ask the Duty Officer to hang up and call you back to verify incoming operation.

5.5.2.5 If any extension of the ENS is inoperable, then immediately inform the SM.

A. Any inoperable ENS extension must be reported to the NRC Operations Center within 1 hour and an alternate commercial telephone extension must be provided when reporting the problem.

B. Initiate a Condition Report, if necessary.

5.5.2.6 When all extensions are tested, then inform the NRC and SM that the test is complete.

5.5.2.7 Log the results of the test on Attachment 7.1.

5.6 NRC HEALTH PHYSICS NETWORK (HPN)

5.6.1 Test each extension of the HPN once each calendar month.

NOTE

1. FTS numbers may be obtained from the Emergency Management Resources Book.
2. When dialing an FTS number, then use (700) as the area code.

5.6.2 To initiate the test, pick up the receiver and dial any of the other telephone numbers in the FTS system.

5.6.3 When the called party answers, then ask them to hang up and call you back to verify incoming operation.

5.6.4 If any extension of the HPN is inoperable, then immediately inform the SM.

A. Any inoperable HPN extension must be reported to the NRC Operations Center within 1 hour using the ENS (or commercial telephone if ENS is inoperable), and an alternate commercial telephone extension number must be provided when reporting the problem.

B. Initiate a Condition Report, if necessary.

5.6.5 When all HPN extensions have been tested, then log the results of the test on Attachment 7.1.

5.7 STATE CIVIL DEFENSE RADIO NETWORK

5.7.1 Test the State Civil Defense Radio Network once each calendar month.

5.7.2 Test the 800 Mhz frequency with the St. Charles Parish EOC and LOEP and test the low band frequency with the St. Charles Parish EOC and the St. John Parish EOC.

5.7.2.1 Notify LOEP, St. Charles EOC and St. John EOC that a test will be conducted. (Refer to Emergency Management Resources Book for appropriate telephone numbers.)

5.7.2.2 Initiate the test by contacting each agency using the agency's call letters in the Emergency Management Resources Book

A. Refer to EP-003-060 for instructions for using the Civil Defense Radio, as necessary.

5.7.2.3 When the agency answers, then identify yourself as Waterford 3 SES and state you are conducting a test of the State Civil Defense Radio Network.

5.7.2.4 When the test is complete, then notify LOEP, St. Charles EOC and St. John EOC. (The notice of completion may be given using the radio.)

5.7.2.5 Log the results of the test on Attachment 7.1.

5.8 EMERGENCY RESPONSE DATA SYSTEM (ERDS)

5.8.1 ERDS Test Requirements

NOTE

If a failure of ERDS related site equipment (Modem) is identified, then repair the equipment and request the NRC Operations Center to schedule a test to verify the operability of ERDS.

5.8.1.1 Test ERDS on Tuesday of the 11th week of each calendar quarter.

- A. For the purposes of this test, the calendar quarter begins on Monday of the first complete week.

5.8.1.2 The test consists of the following:

- A. Do not start the test later than 1300 hours.
- B. Establish a link with ERDS. (Performed by W-3).
- C. Transmit all parameters in the plant ERDS database for 2 hours.
- D. Reconnect with ERDS upon a loss of telephone connection. (Performed by NRC).
- E. Terminate the ERDS link. (Performed by NRC).

5.8.2 ERDS Test Instructions

NOTE

The person performing this test is not required to remain at the SDS from which the test is conducted for the full 2 hours of the test.

5.8.2.1 Notify the SM that a test of ERDS is being conducted.

5.8.2.2 Call the NRC Test Monitor and obtain their concurrence prior to commencing the test. Telephone numbers are located in Section IV of the Emergency Management Resources Book.

- 5.8.2.3 Request the NRC to perform the reconnect with ERDS at the beginning of the test.
- 5.8.2.4 Provide NRC Headquarters with a site call back number for the duration of the test in the event problems arise during the test where Waterford 3 assistance is necessary.
- 5.8.2.5 To initiate the ERDS test, refer to the "Activation of ERDS" instructions provided in procedure EP-001-020, EP-001-030 or EP-001-040.
- 5.8.2.6 After the ERDS link has been established and the reconnect has been completed, then the test will continue for 2 hours.
 - A. When the 2 hour test is complete, then the NRC terminates the link.

6.0 FINAL CONDITIONS

- 6.1 Emergency dedicated phones, radios and other specialized emergency communication systems described in this procedure are in a fully operational state.
- 6.2 Any system, or portion of a system, that did not function properly should be retested and recorded on the proper attachment when the deficiency is resolved.
- 6.3 The EPM should review the results of the communications tests in this procedure.
 - 6.3.1 Initiate an Emergency Planning Action Item or Condition Report, as necessary, to resolve any identified deficiencies.

7.0 ATTACHMENTS

- 7.1 Emergency Communications Test Sheet

8.0 RECORDS

- 8.1 The following records are generated as a result of this procedure:
 - Attachment 7.1, Emergency Communications Test Sheet

EMERGENCY COMMUNICATIONS TEST SHEET

I. CONTROL ROOM

	<u>SAT/UNSAT</u>	<u>COMMENTS</u>
A. OPERATIONAL HOTLINE		
1. COMMUNICATOR DESK	_____	_____
B. INDUSTRIAL HOTLINE		
(Test 1, 2, or 3)		
1. SM DESK	_____	_____
2. NPO CONSOLE	_____	_____
3. COMMUNICATOR DESK	_____	_____
4. REMOTE SHUTDOWN (Must Test)	_____	_____
C. EMERGENCY NOTIFICATION SYSTEM		
(ENS)	_____	_____
D. STATE CIVIL DEFENSE RADIO – 800 MHz		
1. LOEP	_____	_____
2. St. Charles	_____	_____
E. STATE CIVIL DEFENSE RADIO – Low Band		
1. St. Charles	_____	_____
2. St. John	_____	_____

PERFORMED BY: _____ DATE: _____

REVIEWED BY: _____ DATE: _____

EPM

cc: W-3 Records Center – Original

EMERGENCY COMMUNICATIONS TEST SHEET

II. TECHNICAL SUPPORT CENTER (TSC)

	<u>SAT/UNSAT</u>	<u>COMMENTS</u>
A. OPERATIONAL HOTLINE		
(Test 1 or 2)		
1. TSC COMM #1	_____	_____
2. TSC COMM #2	_____	_____
B. INDUSTRIAL HOTLINE		
(Test 1 or 2)		
1. TSC COMM #1	_____	_____
2. TSC COMM #2	_____	_____
C. EMERGENCY NOTIFICATION SYSTEM (ENS)		
1. EMERGENCY CONTROL CENTER	_____	_____
D. HEALTH PHYSICS NETWORK (HPN)		
1. EMERGENCY CONTROL CENTER	_____	_____
E. STATE CIVIL DEFENSE RADIO – 800 Mhz		
1. LOEP	_____	_____
2. St. Charles	_____	_____
F. STATE CIVIL DEFENSE RADIO – Low Band		
1. St. Charles	_____	_____
2. St. John	_____	_____

PERFORMED BY: _____ DATE: _____

REVIEWED BY: _____ DATE: _____
EPM

cc: W-3 Records Center - Original

EMERGENCY COMMUNICATIONS TEST SHEET

III. EMERGENCY OPERATIONS FACILITY (EOF)

	<u>SAT/UNSAT</u>	<u>COMMENTS</u>
A. OPERATIONAL HOTLINE		
(Test 1 or 2)		
1. EOF COMM #1	_____	_____
2. EOF COMM #2	_____	_____
B. INDUSTRIAL HOTLINE		
(Test 1 or 2)		
1. EOF COMM #1	_____	_____
2. EOF COMM #2	_____	_____
C. EMERGENCY NOTIFICATION SYSTEM (ENS)		
1. LICENSING COORD	_____	_____
D. HEALTH PHYSICS NETWORK (HPN)		
1. DOSE PROJECTION ROOM	_____	_____
2. RAC	_____	_____
E. STATE CIVIL DEFENSE RADIO – 800 MHz		
1. LOEP	_____	_____
2. St. Charles	_____	_____
F. STATE CIVIL DEFENSE RADIO – Low Band		
1. St. Charles	_____	_____
2. St. John	_____	_____

PERFORMED BY: _____ DATE: _____

REVIEWED BY: _____ DATE: _____

EPM

cc: W-3 Records Center - Original

EMERGENCY COMMUNICATIONS TEST SHEET

IV. -4 CONTROL POINT

SAT/UNSAT

COMMENTS

A. HEALTH PHYSICS NETWORK (HPN)

PERFORMED BY: _____ DATE: _____

REVIEWED BY: _____ DATE: _____

EPM

cc: W-3 Records Center - Original

OSC MAINTENANCE RADIO NETWORK TEST SHEET

V. BACKUP EOF

	<u>SAT/UNSAT</u>	<u>COMMENTS</u>
A. OPERATIONAL HOTLINE	_____	_____
B. STATE CIVIL DEFENSE RADIO – 800 MHz		
1. LOEP	_____	_____
2. St. Charles	_____	_____
C. STATE CIVIL DEFENSE RADIO – Low Band		
1. St. Charles	_____	_____
2. St. John	_____	_____

PERFORMED BY: _____ DATE: _____

REVIEWED BY: _____ DATE: _____

EPM

cc: W-3 Records Center – Original

SAFETY RELATED

Required Review Level (check one)



PORC



QUALIFIED REVIEWER

PROCEDURE NUMBER: EP-004-010 REVISION: 9 CHANGE: 0 DEVIATION: N/ATITLE: Toxic Chemical Contingency ProcedureEFFECTIVE DATE/MILESTONE: 04/11/03
(N/A If Same as Approval Date)PROCEDURE OWNER: Emergency Planning Manager
(Position Title)PREPARER (Print Name / Initial): R.J. Perry 1 RJP DATE: 2/11/03

ACTION:

☐ New Procedure☐ Deletion☒ Revision☐ ChangeEC? ☐

N/A

(Applicable W2.109 Step Numbers)

☐ Deviation

Expiration Date/Milestone:

N/A

☐ Temporary Procedure

Applicable Conditions:

N/A

DESCRIPTION AND JUSTIFICATION OF CHANGE: 1) Made terminology changes throughout document to provide clarification for the use of the terms "activation" and "operation" as they apply to the procedure. 2) Changed site evacuation time in Attachment 7.2 to 45 minutes to reflect a more conservative evacuation time. 3) Deleted Basell Chemical throughout procedure. This company terminated operations on 1/31/03. 3) Deleted reference in Attachment 7.3 to chemicals exclusively produced, stored or transported by Basell. 4) Changed "Witco" to "Crompton" throughout procedure to reflect a change in ownership of this facility. 5) Changed response time calculation in Attachment 7.4 to reflect wind speed in meters per second. This reflects wind speed units of measure as provided by Control Room instrumentation. 6) Changed the Waterford-3 Site Map in Attachment 7.6 to reflect the current plant entrance. 7) Changed the name of Attachment 7.6 Map B to better reflect intended use of map. The names of the chemical plants were also revised on this map to reflect current ownership. 8) Deleted Attachment 7.6, Map C. This map contains redundant and dated information which is not needed to detect chemical hazards near to the plant. Map B contains all information necessary for use by Control Room staff. 9) Deleted Attachment 7.10, Toxic Chemical Event Experience. The information in this attachment is being transferred to EPP-429.

☐ Request/Approval Page Continuation Sheet(s) attached.

EC SUPERVISOR

APPROVAL:

N/A

DATE:

50.59 REVIEWER

Required? ☐

REVIEW:

N/A

DATE:

☒ PROGRAMMATICALLY EXCLUDED

PORC Mtg. No.:

03-003

DATE:

50.54 REVIEWER

Required? ☒

REVIEW:

Michael L. Hurkey

DATE:

3-20-03

TECHNICAL REVIEWER

REVIEW:

Michael L. Hurkey

DATE:

3-20-03Change Notice (CN)? ☐

CHANGE NOTICE (CN) SUPERVISOR

APPROVAL:

N/A

DATE:

CHANGE NOTICE (CN) ON-SHIFT SM/CRS

APPROVAL:

N/A

DATE:

2 Week Final Approval

DATE:

QUALIFIED REVIEWER

Required? ☒

REVIEW:

Michael L. Hurkey

DATE:

3/26/03

GROUP/DEPT. HEAD

REVIEW ☐ orAPPROVAL ☒*Michael L. Hurkey*

DATE:

4-10-03

GM, PLANT OPERATIONS

REVIEW ☐ orAPPROVAL ☐

N/A

DATE:

VICE PRESIDENT, OPERATIONS

APPROVAL:

N/A

DATE:

TABLE OF CONTENTS

1.0 PURPOSE	3
2.0 REFERENCES	3
3.0 RESPONSIBILITIES	4
4.0 INITIATING CONDITIONS	6
5.0 PROCEDURE	7
5.1 DEFINITIONS	7
5.2 INITIAL ASSESSMENT	9
6.0 FINAL CONDITIONS	10
7.0 ATTACHMENTS	11
7.1 EMERGENCY COMMUNICATIONS CHECKLIST	13
7.2 TOXIC CHEMICAL DIAGNOSTIC FLOWCHART	14
7.3 TOXIC CHEMICAL HAZARDS	15
7.4 RESPONSE EVALUATION	43
7.5 TOXIC CHEMICAL RESPONSE ACTIONS	46
TAB A STANDBY	46
TAB B SITE EVACUATION	51
TAB C SHELTER	59
TAB D RECOVERY	65
7.6 MAPS	67
MAP A - WATERFORD 3 SITE	67
MAP B - MAJOR INDUSTRIES WITHIN 5 MILES OF WATERFORD 3	68
7.7 EMERGENCY COORDINATOR'S CLOSE-OUT CHECKLIST	69
7.8 VNS QUICK REFERENCE SHEET	70
7.9 ACTIVATION/DEACTIVATION OF THE EMERGENCY RESPONSE DATA SYSTEM (ERDS)	72
7.10 ON-SITE TOXIC CHEMICAL SHELTERS	75
8.0 RECORDS	12

LIST OF EFFECTIVE PAGES

1-12, 67- 69	Revision 9
14-45	Revision 7
46-66, 70-74	Revision 5
13	Revision 3
75	Revision 1

List of Pages Containing
Proprietary Information
55,70

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 IS-102, Permit Required Confined Space

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 activation 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 the Duty Plant Manager 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 Activating 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 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)

____/____/____ : ____

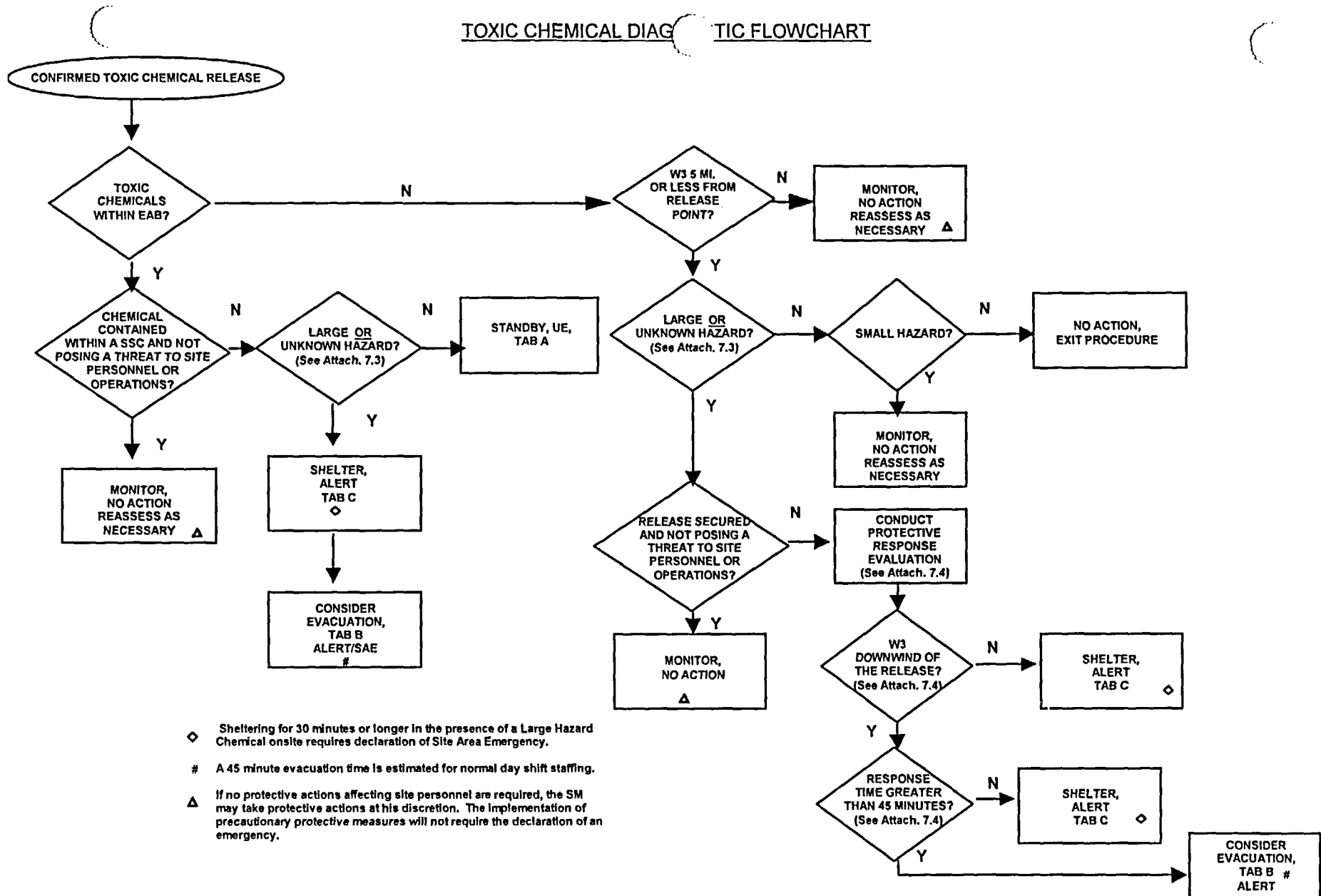
(Date)

(Time)

Verification Call Back #: _____

(if needed to establish credibility)

TOXIC CHEMICAL DIAGNOSTIC FLOWCHART



TOXIC CHEMICAL HAZARDS

I. 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	Calcliner	4.5 Miles	80 Degrees
Crompton	Crompton Chemical	1.75 Miles	130 Degrees
Dow Poly	Dow Polypropylene Plant	4.0 Miles	75 Degrees
Dow	Dow St Charles Operations	1.25 Miles	120 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
Motiva	Motiva Refinery	3.5 Miles	85 Degrees
Nexen	Nexen Chemical	0.8 Miles	145 Degrees
Oxy	Occidental Chemical	0.8 Miles	130 Degrees
Orion	Orion Refinery	3.9 Miles	90 Degrees
N/A	Praxair	1.25 Miles	115 Degrees
N/A	Shell Norco	2.75 Miles	80 Degrees
W1&2	Waterford 1 & 2 SES	0.36 Miles	295 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.

Attachment 7.3 (1 of 28)

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	Crompton, Dow, Shell Norco, Ship, Rail	Small	2790 (153)
Acetone	Dow, IMC, Crompton, 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, Crompton, Truck	Small	1001 (116)
Acrolein	Dow	Large	1092 (131P)
Acrylic Acid	Crompton, 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	Crompton, 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, Crompton , Dow, Orion, Motiva., Air Liq., Truck, LA Resources, Ship, Rail	Large	1005 (125)
Ammonium Bromide	Crompton	No Hazard	N/A
Ammonium Dihydrogen	W1&2	No Hazard	N/A
Ammonium Hydroxide	W1&2, Dow, Crompton , 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	Crompton	Large	2683 (132)
Ammonium Thiocyanate	Crompton	No Hazard	N/A
Ammonium Thioglycolate	Crompton	No Hazard	N/A
Antimony Pentachloride	Orion	No Hazard	1730 (157)
Antimony Trioxide	Crompton	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, Motiva, Oxy, Air Liq., Crompton, 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	Crompton, 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	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, 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)
	Crompton	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, Crompton, 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	Crompton	No Hazard	N/A
Diammonium Thioglycolate	Crompton	No Hazard	N/A
Dibutyltin Dichloride	Crompton	No Hazard	(130)
Dibutyltin Oxide	Crompton	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, W1&2, Orion, Crompton, 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	Crompton	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	Crompton	Large	(NL)
Dimyristyl	Crompton	No Hazard	N/A
Diethyl Acid	Dow	No Hazard	N/A
Diethyl Terephthalate	Dow	No Hazard	N/A
Diethyltin Dichloride	Crompton	No Hazard	N/A
Diethyl-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	Crompton	No Hazard	N/A
Ditridecyl	Crompton	No Hazard	N/A
Divinyl Benzene	Dow	No Hazard	N/A
Dowtherm-G Dowtherm-A	Crompton 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, Crompton	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	Crompton	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, Crompton, 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, Ship	Small	1202 (128)
Gas, Natural	L. Gypsy, W1&2, Crompton, 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, W1&2, Crompton, 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, Crompton, Dow, Dow Poly, Truck, Rail	Small	1206 (128)
Hexamethylenediamine	Rail	Large	1783 (153)
Hexane	Dow, Motiva, Shell Norco, Crompton, 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, Crompton, Shell Norco, Truck, Rail	Large	1789 (157)
	Motiva, Calciner	Small	1789 (157)
Hydrogen	L. Gypsy, Motiva, Shell Norco, Dow Poly, W1&2, Dow, Orion, Truck	Small	1049 (115)
Hydrogen Cyanide	Rail	Large	1051 (117)
Hydrogen Peroxide	Nexen, Orion, Dow, Crompton, 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, Crompton, Dow	Small	1053 (117)
Hydroquinone	Dow	No Hazard	2662 (153)
Hydroxyethyl Piperazine	Dow	No Hazard	N/A
Hypophosphorus Acid	Crompton	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, Crompton, Dow Poly, Oxy, Motiva, Shell Norco	Small	1219 (129)
Isopropyl Ether	Crompton, 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	Crompton	No Hazard	N/A
Meta Toullic Acid (MTA)	Crompton	No Hazard	N/A
Methacrylic Acid	Rail	Large	2531 (153P)
Methane	Shell Norco, Motiva, Dow, LA Resources, Oxy	Small	1971 (115)
Methane Sulfuric Acid	Crompton	No Hazard	N/A
Methanol	IMC, Motiva, Dow, Crompton , LA Resources, Truck, Orion, Ship, Rail	Small	1230 (131)
Methoxydihdropyran	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
Methoxyrigycol	Dow	No Hazard	N/A
Methyl Acetate	Dow	No Hazard	1231 (129)
Methyl Acrylate	Crompton	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	Crompton, 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	Crompton	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	Crompton	No Hazard	N/A
Methyl Tertiary Butyl	Motiva	No Hazard	N/A
Methyl Tin Trichloride	Crompton	No Hazard	N/A
Monobutyl Chloride	Crompton	Large	1127 (130)
Monochloroacetic Acid	Crompton	Small	1750 (153)
Monoethanolamine	Dow	No Hazard	2491 (153)
Monomethyl Tin Trichloride	Crompton	Small	(NL)
Morpholine	Orion, Dow, L. Gypsy, Rail	Large	2054 (132)
Myrcene	Dow	No Hazard	N/A
Myristyl Alcohol	Crompton	No Hazard	N/A
Nalco Treatment Products (Various Product Numbers)	Shell Norco, Crompton, 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	Crompton	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	Small	1066 (121)
Nitrous Oxide	Crompton, Motiva	No Hazard	1070 (122)
Noephyl Chloride	Crompton	No Hazard	N/A
Octene	Dow	No Hazard	N/A
Oxygen	Praxair, Orion, Crompton, 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, Crompton, 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 Hydroxide	Crompton, Rail	No Hazard	1813 (154)
Potassium Permanganate	Dow	No Hazard	1490 (140)
Potassium Thiocyanate	Crompton	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	Crompton, 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	Crompton, 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, Crompton, Dow, Truck	Large	1824 (154)
	Motiva	Small	1824 (154)
Sodium Hydrosulfide	Crompton	Large	2922 (154)
Sodium Hypochlorite	Motiva, Dow Poly, Air Liq., Dow, Shell Norco	No Hazard	N/A
Sodium Molybdate	Crompton	No Hazard	N/A
Sodium Nitrate	L. Gypsy	No Hazard	1498 (140)
Sodium Nitrite	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	Crompton, 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	Crompton	No Hazard	N/A
Stannic Chloride	Crompton	Large	1827 (137)
Stearyl Alcohol	Crompton	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, Motiva, LA Resources, L. Gypsy, Rail	Small	1831 (137)
Sulfuric Acid (fuming)	L. Gypsy, W1&2, Oxy, Orion, Crompton , IMC, Truck	Large	1831 (137)
Tetrabutyltin	Crompton	No Hazard	N/A
Tetraethylenepentamine	Dow, Rail	No Hazard	2320 (153)
Tetrahydrobenzal	Dow	No Hazard	N/A
Tetrahydrofuran	Crompton, Dow, Truck, Rail	Small	2056 (127)
Tetrahydronaphthalene	Dow	No Hazard	N/A
Tetramethylammonium	Shell Norco	No Hazard	1835 (153)
Tetraoctyltin	Crompton	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	Crompton	No Hazard	N/A
Thioglycolic Acid	Crompton, Rail	No Hazard	1940 (153)
Titanium Trichloride	Dow, Truck	No Hazard	2869 (157)
Toluene	Shell Norco, Orion, Crompton, Motiva, Rail	Small	1294 (130)
Toluene Sulfonic Acid	Crompton	No Hazard	2585 (153)
Topanol	Crompton	No Hazard	N/A
Trichlorethene	Praxair, Motiva	Large	1710 (160)
Trichloroethane	Dow, Air Liq., Motiva	No Hazard	2831 (160)
Tridecyl Alcohol	Crompton	Small	(127)
Triethanolamine	Dow	No Hazard	9151 (171)
Triethylamine	Crompton	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	Crompton	No Hazard	N/A
Trisodium Phosphate	Crompton, Air Liq.	No Hazard	N/A
Triphenylphosphine	Crompton	No Hazard	N/A
Tripopylaluminum	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	Calcliner	4.5 Miles	80 Degrees
Crompton	Crompton Chemical	1.75 Miles	130 Degrees
Dow Poly	Dow Poly	4.0 Miles	75 Degrees
Dow	Dow St Charles Operations	1.25 Miles	120 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
Motiva	Motiva Refinery	3.5 Miles	85 Degrees
Nexen	Nexen Chemical	0.8 Miles	145 Degrees
Oxy	Occidental Chemical	0.8 Miles	130 Degrees
Orion	Orion Refinery	3.9 Miles	90 Degrees
N/A	Praxair	1.25 Miles	115 Degrees
N/A	Shell Norco	2.75 Miles	80 Degrees
W1&2	Waterford 1 & 2 SES	0.36 Miles	295 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:

$$A. \text{ PLUME TRAVEL TIME (MINUTES)} = [\text{RELEASE POINT DISTANCE (MILES)}^{(1)} + \text{WIND SPEED (C48526)}]^{(2)}$$

$$\underline{\hspace{2cm}} = [\underline{\hspace{2cm}} + \underline{\hspace{2cm}}] \times 134.4$$

NOTE: If Release Start Time is not known, use the time message was received.

$$B. \text{ PLUME ARRIVAL TIME (HH:MM)} = \text{PLUME TRAVEL TIME (MINUTES)} + \text{RELEASE START TIME (HH:MM)}$$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$C. \text{ RESPONSE TIME (MINUTES)} = \text{PLUME ARRIVAL TIME (HH:MM)} - \text{CURRENT TIME (HH:MM)}$$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$$

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 the DPM 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 can not 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 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. [(504)464-3451]
- 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. [(504)464-3451]
- 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 the DPM 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 the DPM 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 Department of Environmental Quality (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 threat 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

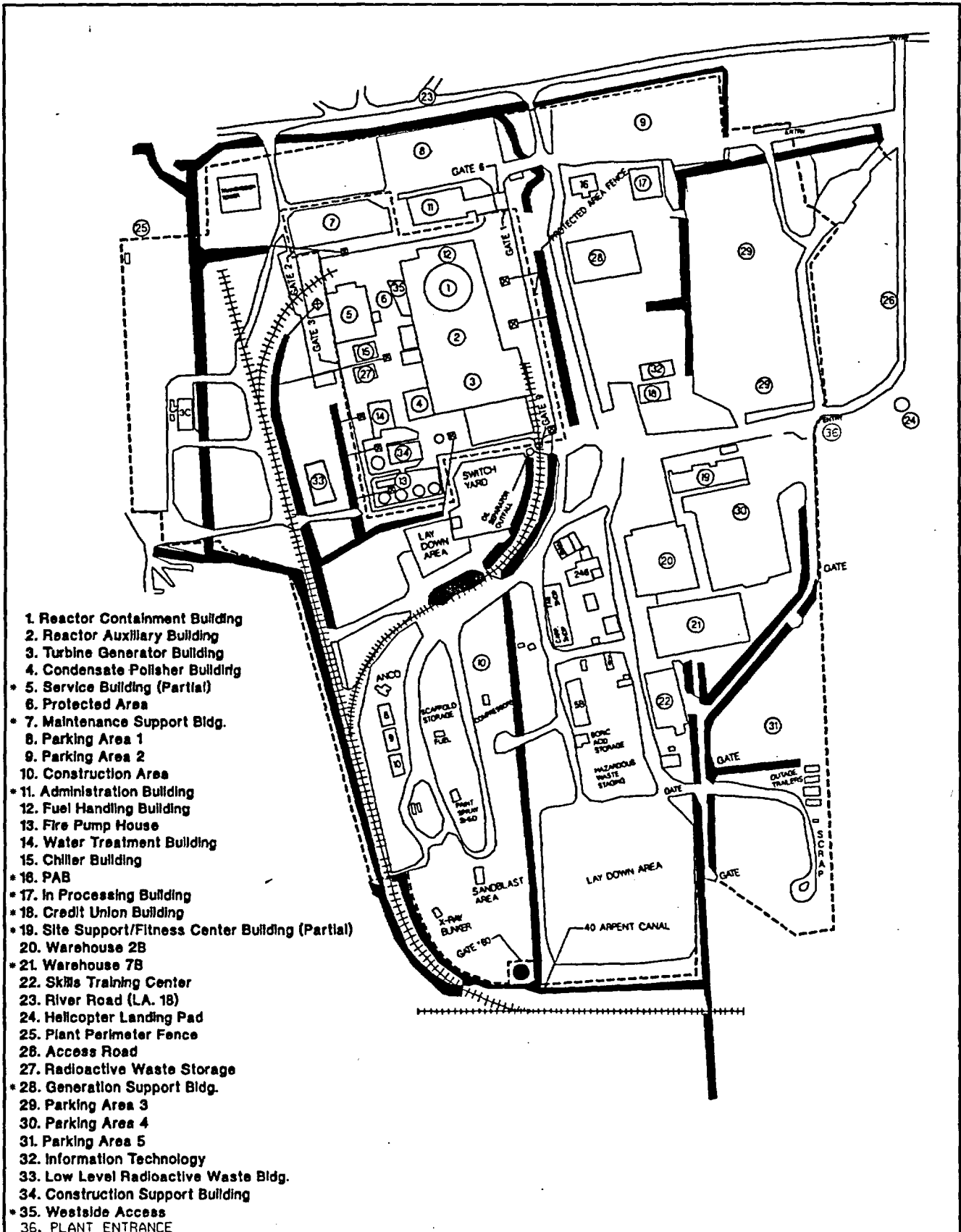
Consideration should be given to requesting assistance from St. Charles Parish to obtain the services of the Industrial Mutual Aid Members to provide equipment and personnel to perform sampling activities onsite.

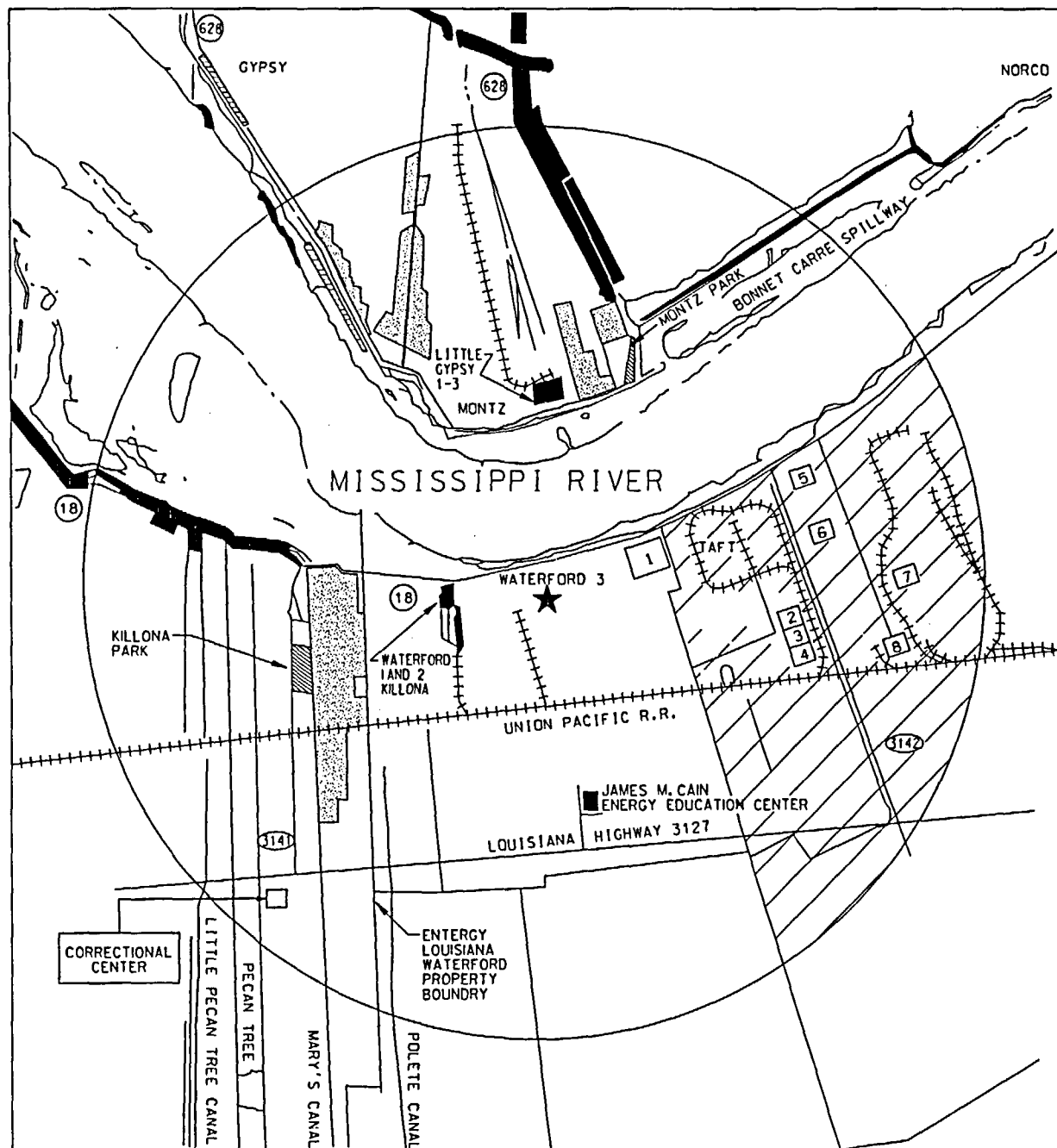
5. If toxic chemicals actually intruded within the site boundary, then perform the following activities:
 - 5.1 Post and restrict access to all below ground level areas (i.e., basements, well pits, drainage ditches, depressions, etc.)
 - 5.2 Sample and determine that each restricted area has a safe environment, prior to releasing the area for general access in accordance with IS-102.
 - 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



**LEGEND:**

RESIDENTIAL AREAS	
INDUSTRIAL AREAS	
INSTITUTIONS	
PARKS	
TRANSPORTATION FACILITIES:	
HIGHWAYS	
RAILROADS	
ENTERGY LOUISIANA PROPERTY LINE	
ENTERGY LOUISIANA FACILITIES	

CHEMICAL PLANTS

- 1- IMC AGRICO
- 2- OCCIDENTAL CHEMICAL CO.
- 3- NEXEN INC.
- 4- KOCH NITROGEN
- 5- AIR PRODUCTS
- 6- PRAXAIR
- 7- DOW ST. CHARLES OPERATION
- 8- CROMPTON CHEMICAL

MAJOR INDUSTRIES 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 or
Attachment 7.3 lists the chemical as No Hazard. _____
2. If the release is from an offsite source, then St. Charles
Parish confirms that release is secured and the
hazardous condition no longer exists. _____
3. The plant is in a stable configuration with
adequate core cooling. _____
4. All safety systems necessary to maintain the
plant in a stable configuration are operable. _____
5. Any site damage is under control. _____
6. All vital areas requiring occupancy are habitable. _____
7. Site Security control is established. _____
8. The decision to terminate the event, including the justification
for termination, has been discussed with the NRC and State
officials (if their emergency response organizations have been
activated as a result of this event). _____

_____ Date: _____ Time: _____

VNS QUICK REFERENCE SHEET

TO ACTIVATE A VNS SCENARIO FROM THE TERMINAL:

1. Type the Control Room VNS Hot Key password, [3104], 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 [6800].
2. Enter the Control Room VNS password [3100].
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, [3100], 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.

VNS QUICK REFERENCE SHEET (Continued)

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.

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