

ATTACHMENT 2

TOXIC CHEMICAL CONTINGENCY PROCEDURE

FOR PUBLIC DISCLOSURE

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Draft 3

Emergency Plan Implementing Procedure
Toxic Chemical Contingency Procedure

EP-4-010
Revision 0

TOXIC CHEMICAL CONTINGENCY PROCEDURE

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TOXIC CHEMICAL CONTINGENCY PROCEDURE

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1.0 PURPOSE

The purpose of this procedure is to provide protection to site personnel during a toxic chemical release.

2.0 REFERENCES

- 2.1 OP-901-047, Toxic Chemical Release
- 2.2 DOT P 5800.2, Hazardous Material Emergency Response Guidebook
- 2.3 FSAR, Section 2.2
- 2.4 Resource Notebook
- 2.5 PS-16-103, Accountability During Emergencies
- 2.6 EP-2-010, Notifications and Communications
- 2.7 EP-2-190, Personnel Accountability

3.0 RESPONSIBILITIES

The NOS-SS is responsible for the implementation of this procedure.

4.0 INITIATING CONDITIONS

- 4.1 Whenever OP-901-047 determines a toxic chemical problem exist within or near the site boundary.
- 4.2 Whenever the St. Charles Parish Industrial Hotline indicates an off-site toxic chemical problem exists that may threaten the site.

5.0 PROCEDURE

5.1 Determine Information Source

- 5.1.1 Whenever OP-901-047, Toxic Chemical Release Procedure determines that a valid toxic chemical concentration exists within or near the site boundary. GO-TO TAB "G".
- 5.1.2 Upon notification of an off-site toxic chemical uncontrolled release via the Industrial Hotline (IHL). GO-TO TAB "A" and complete the "Emergency Hotline Report".

5.2 Industrial Hotline Reports.

- 5.2.1 Record Industrial Hotline reports on the "St. Charles Parish Emergency Operations Center Emergency Hotline Report" (hereafter referred to as the "Emergency Hotline Report").

5.2.2 When the "Emergency Hotline Report" indicates that a toxic chemical release is in progress or is pending, remove (TEAR OUT) the "Emergency Hotline Report" and then GO-TO TAB "B", and complete the lower section of the form "FOR WATERFORD 3 USE" using information provided.

TAB A
ST. CHARLES PARISH EMERGENCY OPERATIONS CENTER
EMERGENCY HOTLINE REPORT

This is the St. Charles Parish Emergency Operations Center with an Industry Hotline Initial Notification Message.

Please obtain a copy of the Industrial Hotline Initial Notification Message Report and stand by to copy.

Due to the following circumstances, an incident has been reported by:

AGENCY/PLANT/Member Industry/NAME OF PERSON PROVIDING INFORMATION/
TELEPHONE

This incident/emergency is a: (circle one)

- CODE 1 - ALERT (Lowest Priority)
- CODE 2 - SITE EMERGENCY (Higher Priority)
- CODE 3 - GENERAL ALARM (Highest Priority)

NOTIFICATION TIME: _____ hours DATE: _____

INCIDENT DETAILS: (circle one)

FIRE
LIQUID

GAS RELEASE
OTHER: _____

EXPLOSION

SUBSTANCE INVOLVED: _____

I.D. GUIDE _____ GUIDE NUMBER _____
FLAMMABLE _____ TOXIC _____
OTHER _____

METEOROLOGICAL CONDITIONS:

WIND SPEED _____ WIND DIRECTION FROM _____

RECOMMENDED PROTECTIVE ACTION: _____

ANTICIPATED DURATION OF INCIDENT:

ESTIMATED: _____ ACTUAL _____

AFFECTED PLANTS/INDUSTRIES/SECTORS: _____

FOR WATERFORD 3 USE

- | | |
|--|--|
| 1. DISTANCE FROM
AFFECTED INDUSTRY _____ | 2. HAZARD
POTENTIAL <u>large/small/none</u>
(circle one) |
| 3. WORST CASE
WIND DIRECTION (From) _____ | 4. ESTIMATED WORST
CASE ARRIVAL TIME _____ |

TAB B

5.3 Hazard Potential Determination

5.3.1 In the "FOR WATERFORD USE" section at the bottom of the "Emergency Hotline Report" complete the following items using the information provided in the Hazard Potential Table:

5.3.1.1 (1) Distance From Affected Industry

5.3.1.2 (2) Worst Case Wind Direction (from)

5.3.1.3 (3) Hazard Potential

NOTE

Distance from the affected plant is a straight line calculation from the containment building to the nearest source on the affected facility's property.

Worst case wind direction is that direction of the wind that would bring the release directly to our site.

Hazard Potential Table information is calculated for the worst case event for each chemical stored or produced at that particular facility. A large potential is an indication that the selected source under worst case condition can exceed the IDLH (Immediately Dangerous to Life and Health) limits at Waterford 3 SES.

CAUTION

If the "Emergency Hotline Report" does not provide the chemical(s) involved, use the worst case chemical for that facility.

5.3.2 Upon completion of items 1, 2 and 3 of the "FOR WATERFORD 3 USE" section GO-TO TAB "C".

NOTE

Additional information can be obtained by calling DOT P 5800.2 Hazard Material Emergency Response Guidebook Hotline toll free number [].

* The information contained within the symbols "[]" is Proprietary or Private Information.

*

HAZARD POTENTIAL TABLE

The following is an EXAMPLE of the format that is being developed to be used as this table. The information contained within this EXAMPLE has not been verified as current or in some cases may be fictional in nature.

- 1) Union Chemical Distance 3.8 miles
Worst case wind direction (from) 134 degs.

<u>Chemical Name</u>	<u>Exceeds IDLH</u>	<u>Worst Case</u>	<u>Hazard Potential</u>
* Benzene	NO	fire	SMALL
Butylene	NO		NONE

- 2) XYZ Chemical Ind. Distance 2.1 miles
Worst case wind direct (from) 92 degs.

<u>Chemical Name</u>	<u>Exceeds IDLH</u>	<u>Worst Case</u>	<u>Hazard Potential</u>
* Chlorine	YES	vapor	LARGE
Ethyl Acetate	NO	explosion	SMALL
Fuel Oil	NO	fire	NONE

* Worst Case Chemical accident for this plant.

TAB C

5.4 Available Response Time Calculation

5.4.1 Use the "Emergency Hotline Report" information and available control room data to calculate the arrival time.

5.4.1.1 Calculate wind speed in miles per hour if not available directly.

$$(\text{windspeed} \text{ _____ m/sec}) \times (2.25 \text{ mph/m/sec}) = \text{_____ mph}$$

5.4.1.2 Calculate plume travel time.

$$\frac{\text{Distance} \text{ _____ miles}}{\text{(item \#1 of IHL report)} \text{ _____ mph}} \times \frac{60 \text{ min}}{\text{hrs. TRAVEL TIME}} = \text{_____ minute}$$

(from 5.4.1.1)

5.4.1.3 Calculate plume arrival time.

NOTE

If the release time is not available use the "NOTIFICATION TIME" from the "Emergency Hotline Report".

$$\begin{array}{l} \text{TRAVEL} \quad \text{RELEASE} \\ \text{TIME} \quad \text{+ START TIME} \quad \text{=} \quad \text{ARRIVAL TIME} \\ \text{(from 5.4.1.2)} \end{array}$$

5.4.1.4 Record ARRIVAL TIME on the bottom of the "Emergency Hotline Report."

5.4.2 Calculate RESPONSE TIME

$$(\text{ARRIVAL TIME} \text{ _____}) - (\text{TIME NOW} \text{ _____}) = \text{_____ RESPONSE TIME}$$

(from 5.4.2.3)

5.4.3 Evaluated Response Time

5.4.3.1 Select the situation that best represents the present site population.

5.4.3.1.1 Normal Operations

	<u>Estimated Evacuation</u> <u>Time</u>
- Dayshift -	(TBD)
- Backshift -	(TBD)
- Weekend -	(TBD)

5.4.3.1.2 Outage Operation

	<u>Estimated Evacuation</u> <u>Time</u>
- Dayshift -	(TBD)
- Backshift -	(TBD)
- Weekend -	(TBD)

5.4.4 Can you evacuate the Waterford 3 site within the Response
Time available?

5.4.4.1 IF YES GO-TO 5.5.1 (next page!, page #9)

5.4.4.2 IF NO GO-TO 5.5.2 (page #10)

5.5 Determination of the appropriate response.

5.5.1 If the site CAN be evacuated prior to the plume arrival continue with step 5.5.1.1, otherwise GO-TO Step 5.5.2.

CAUTION

COMPARE THE PROCEDURE RECOMMENDATION TO THE ST. CHARLES PARISH REPORT'S "RECOMMENDED PROTECTIVE ACTION", AND USE THE MORE CONSERVATIVE RESPONSE.

5.5.1.1 Are we down wind (+45 degrees) of the affected plant and are the present meteorological condition stable?

- a. If we are NOT down wind (+45 degrees) and the meteorological conditions are stable GO TO Step 5.5.1.2.
- b. If we are down wind (+45 degrees) and/or the meteorological conditions are NOT stable GO TO Step 5.5.1.3.

5.5.1.2 Continue to monitor the situation and inform the Duty Plant Manager of the present situation. When new information is available re-enter this procedure at the beginning(TAB A).

5.5.1.3 What is the Hazard Potential for this situation?

- a. If the Hazard Potential is large GO TO Step 5.5.1.4.
- b. If the Hazard Potential is small GO TO TAB "D" Alerted Condition.

5.5.1.4 Contact Duty Plant Manager.

NOTE

If unable to contact the Duty Plant Manager within 10 minutes continue performing this procedure.

5.5.1.5 GO TO TAB "F" and commence a Site Evacuation.

5.5.2 If the site CAN NOT be evacuated within the calculated response time proceed with step 5.5.2.1.

CAUTION

COMPARE THE PROCEDURE RECOMMENDATION TO THE ST. CHARLES PARISH REPORT'S "RECOMMENDED PROTECTIVE ACTION". TAKE THE MORE CONSERVATIVE ACTION.

5.5.2.1 Are we down wind (+45 degrees) of the effected plant and are the present meteorological condition stable?

- a. If we are NOT down wind (+45 degrees) and the meteorological conditions are stable, and the Hazard Potential is SMALL GO TO TAB "D" Alerted Condition.
- b. If we are down wind (+45 degrees) and/or the meteorological conditions are unstable and/or the Hazard Potential is LARGE GO TO TAB "G", and Sheltering.

TAB D

5.6 Alerted Condition

5.6.1 The NOS-SS shall direct the following activities to occur:

- 5.6.1.1 Notification of the Duty Plant Manager via the Resource Notebook.
- 5.6.1.2 Evaluation of all plant activities presently in progress to ensure that they are in a configuration that will allow for rapid conclusion in the event that the situation deteriorates (i.e., refueling activities, activities in RCA's, maintenance, etc.).
- 5.6.1.3 The shift organization shall be briefed on the present situation status.
- 5.6.1.4 Notification of Waterford 1 & 2 of the present event status. Waterford 1 & 2, Plant Manager's office, ext. [] or Control Room ext. [].
- 5.6.1.5 Notification of the Security Shift Supervisor (SS3) at ext. [].
- 5.6.2 If you have declared an Alerted Condition, due to a valid "Emergency Hotline Report". Then declare an "Unusual Event".

NOTE

The normal Emergency Organization will not be used for a Toxic Chemical Event. Do NOT activate any on-site emergency organizations.

5.6.3 Complete the NRC OPERATIONS CENTER EVENT NOTIFICATION FORM (use EP-2-010, Attachment 7.7).

5.6.3.1 Using the NRC OPERATIONS CENTER EVENT NOTIFICATION FORM completed in step 5.6.3, notify the NRC via the:

- 5.6.3.1a - ENS; or
- 5.6.3.1b - NRC Health Physics Network; or
- 5.6.3.1c - Commercial telephone, []

* The material contained within the symbols "[]" is Proprietary or Private Information.

5.6.4 Make the following site wide announcement:

Attention all personnel! Attention all personnel! Due to a toxic chemical release at ("state the company's name"), we have declared an "Unusual Event". Present conditions are such that we are in no danger. If the situation changes you will be informed.

5.6.4.1 Repeat 5.6.4 once.

5.6.5 Evaluate the present situation and determine if there is a need to reduce the number of personnel on-site to enhance your evacuation times. If you decide to reduce the site population refer to:

5.6.5.1 For SOME personnel, GO-TO TAB "E", STAFF REDUCTION.

5.6.5.2 For ALL personnel, GO-TO TAB "F", SITE EVACUATION.

NOTE

If your response time is less than your evacuation time, shelter the site population and then perform a CONTROLLED EVACUATION.

5.6.5.3 For CONTROLLED EVACUATION GO-TO TAB "G", SHELTERING.

5.6.6 If the situation improves, or deteriorates, GO-TO TAB "A" and re-enter the procedure at the beginning.

TAB E

5.7 STAFF REDUCTION

- 5.7.1 Confer with the Duty Plant Manager, if available and determine what work groups and/or individuals should be instructed to go home.

NOTE

Individuals that would require assistance, or are physically impaired (i.e., pregnant, respiratory problems, broken limbs, etc.), should be highly considered to depart the site.

- 5.7.2 Notify the supervisor of the selected work groups and appraise them of the present situation. Have the supervisor send home the designated personnel.
- 5.7.2.1 The supervisor shall ensure that personnel leave their work station in an acceptable safe condition.
- 5.7.2.2 The supervisor shall ensure that personnel leave the site in an orderly and timely manner.
- 5.7.3 Notify Waterford 1 and 2 that Waterford 3 has elected to reduce the site population due to the existing chemical problem. Waterford 1 and 2 Plant Manager's office ext. [] or Control Room ext. [].
- 5.7.4 Continue monitoring the situation and re-enter this procedure at TAB "A" when the situation changes or when additional information is available.

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TAB F

5.8 Site Evacuation

- 5.8.1 Notify the Security Shift Supervisor (SSS) that you have elected to perform a site evacuation. Ext. [].
- 5.8.2 Determine the safest evacuation route, using available information sources, i.e., "Emergency Hotline Report" recommendations.

NOTE

If you feel that you CAN NOT safely evacuate the entire site population prior to the plume arrival, shelter the personnel and commence a Controlled Evacuation of the site (TAB G).

- 5.8.3 Sound the "STATION ALARM".
- 5.8.4 Make the following announcement:

Attention all personnel! Attention all personnel! A toxic chemical release has occurred at ("state the company name"). We are now performing a precautionary evacuation of Waterford 3. Evacuate ("state evacuation direction, UPRIVER/DOWNRIVER") away from the affected area. Personnel in radiation controlled areas proceed to the Health Physics Control Points prior to exiting. There will be no smoking, eating, or drinking until further notice. The maintenance frequency is now dedicated for emergency use only.

- 5.8.4.1 Repeat 5.8.4 once.
- 5.8.5 Contact the Duty Plant Manager, as per the RESOURCE NOTEBOOK.
 - 5.8.5.1 Request that the Duty Plant Manager activate the support staff at the back-up EOF , as per Attachment 7.2 of this procedure.
 - 5.8.5.2 The response of the Duty Plant Manager and the Emergency Communicator to the site must be via the approved route and transportation method prescribed by the St. Charles Parish Emergency Operation Center (EOC). Coordinate their arrival through the St. Charles Parish EOC, phone number [].
- 5.8.6 Notify Waterford 1 and 2 that you are evacuating. Waterford 1 and 2 Plant Manager's office ext. [] or Control Room [].

* The material contained within the symbols "[]" is Proprietary or Private Information.

NOTE

Because we are evacuating the site due to a chemical problem, we have exceeded the EP-1-001 TAB I, EAL for "ALERT" classification.

CAUTION

Do NOT activate the normal radiological emergency plan response organization. Follow this procedure.

5.8.7 Declare an "Alert".

5.8.7.1 Complete a NRC OPERATIONS CENTER EVENT NOTIFICATION FORM.
(Use EP-2-010, Attachment 7.7.)

5.8.7.2 Notify the NRC by one of the following methods:

- ENS; or
- NRC health physics network; or
- Commercial phone, [].

NOTE

As the situation changes provide the NRC with additional information by completing the "NRC SUPPLEMENTARY EVENT NOTIFICATION INFORMATION."
(Use EP-2-010, Attachment 7.7.)

5.8.8 Assemble and account for all shift personnel in the control room and brief them on the present plant and toxic chemical situation.

5.8.8.1 Ensure watchstanders that depart the control room envelope log out and are assigned a call back frequency (15 minutes is the maximum recommended interval). See EP-2-190, Personnel Accountability.

5.8.8.2 Ensure that personnel performing assigned functions outside of the control room are equipped with the appropriate safety equipment.

5.8.9 Control room personnel should make preparations to don respiratory protection.

5.8.10 The Security Shift Supervisor (SSS), shall ensure that his staff is equipped with the appropriate protective equipment for the existing situation.

* The material contained within the symbols "[]" is Proprietary or Private Information.

- 5.8.11 The Security Shift Supervisor (SSS), shall perform accountability as per PS-16-103, Accountability of Personnel During Emergencies.
- 5.8.11.1 Those individuals that are unaccounted for at the end of the accountability period should be searched for using the available staff resources if personnel and plant safety is not jeopardized.
- 5.8.12 Upon detection, or the approach of toxic chemicals on-site, the following shall occur:
- 5.8.12.1 Assembly of personnel in the Control Room Envelope.
- 5.8.12.2 The donning of respiratory protection as necessary.
- 5.8.12.3 Consider starting of the diesel generators.

CAUTION

If toxic chemicals are detected via a HIGH-HIGH alarm on Toxic Gas Detected Channel 1 (C-9 on CP-36) and Channel 2 (C-10 on CP-36) or in the opinion of the NOS-SS indications exist that toxic chemicals have intruded within the Protected Area boundaries, declare a "Site Area Emergency" and GO-TO TAB "G" SHELTERING, page 17, step number 5.9.1.

- 5.8.13 Continuous evaluation shall take place and when the situation improves, and with Parish and Support Staff concurrence, the event can be downgraded and the recovery can begin, GO-TO 5.10, RECOVERY.

TAB G

5.9 Sheltering

5.9.1 Sound the "Station Alarm".

5.9.2 Make the following announcements:

Attention All Personnel! Attention All Personnel!
Shelter, Shelter, Shelter, Shut all windows and doors.
Secure ventilation systems and remain inside until you
receive further instructions.

5.9.2.1 Repeat 5.9.2 once.

5.9.3 Consider starting the emergency diesel generators.

5.9.4 Establish control room habitability and don emergency
respiratory protective equipment as necessary.

5.9.5 Appraise the Security Shift Supervisor (SSS) of the present
situation status, ext. [].

5.9.6 Contact the Duty Plant Manager as per the RESOURCE
NOTEBOOK.

NOTE

If he is on-site, make an announcement for him
to contact the control room.

5.9.6.1 Request that the Duty Plant Manager activates the support
staff at the backup EOF, as per Attachment 7.2 of this procedure.

CAUTION

Due to the present conditions it may not be
desirable to request that a communicator and
the Duty Plant Manager, if on-site, respond to
the control room.

5.9.6.2 The response of the Duty Plant Manager and the Emergency
Communicator to the site must be via the approved route
and transportation method prescribed by the St. Charles
Parish Emergency Operation Center (EOC). Coordinate
their arrival through the St. Charles Parish EOC, phone
number [].

5.9.7 Notify Waterford 1 and 2 that you are evacuating.
Waterford 1 and 2 Plant Manager's office ext. [] or
Control Room [].

* The material contained within the symbols "[]" is Proprietary
or Private Information.

5.9.8 Declare the appropriate emergency classification as follows:

NOTE

DO NOT enter the Radiological Emergency Plan, continue using the EP-4-010, Toxic Chemical Contingency Procedures.

CAUTION

DO NOT activate any Radiological Emergency Organization.

- 5.9.8.1 If we are sheltering due to a known off-site toxic chemical problem, with no detected presents of toxic chemicals onsite, declare an "Alert" and proceed to 5.9.8.3.
- 5.9.8.2 If we are sheltering due to toxic chemicals being on-site, declare a "Site Area Emergency".
- 5.9.8.3 Complete the NRC OPERATIONS CENTER EVENT NOTIFICATION FORM. (Use EP-2-010, Attachment 7.7.)
- 5.9.8.2 Notify the NRC by one of the following methods:
 - ENS; or
 - NRC health physics network; or
 - Commercial phone, [].

NOTE

As the situation changes, provide the NRC with additional information by completing the "NRC SUPPLEMENTARY EVENT NOTIFICATION INFORMATION", (Use EP-2-010, Attachment 7.7.)

- * The material contained within the symbols "[]" is Proprietary or Private Information.

- 5.9.9 Assemble and/or account for all shift personnel in the control room envelope and brief them on the present plant and toxic chemical status.
- 5.9.9.1 Ensure watchstanders that depart the control room envelope log out and are assigned a call back frequency (15 minutes is the maximum recommended interval). See EP-2-190 for guidance.
- 5.9.9.2 Ensure that personnel performing assigned functions outside of the control room are equipped with the appropriate safety equipment.
- 5.9.9 Evaluate the present status of the toxic chemical release to determine if there is time to commence a Controlled Evacuation of sheltered site personnel.

NOTE

Controlled Evacuation is designed to allow for partial evacuation of the site. Controlled Evacuation can be stopped and started as often as necessary as the outside atmospheric conditions improve or deteriorate.

- 5.9.9.1 Evaluate the following:

- Most recent recommendations on the Parish "Emergency Hotline Report". If you have not received a "Emergency Hotline Report", contact the Parish via the IHL and evaluate the information using this procedure. Then compare your resulting evaluation.
- Wind speed, direction and meteorological stability.
- Current road conditions.
- The present on-site air quality, by sampling when possible.

NOTE

If the situation that caused the Sheltering condition to occur no longer exists, and there were NO toxic chemicals detected on-site GO-TO STEP 5.9.11 of this procedure.

5.9.10 Controlled Evacuation

5.9.10.1 Appraise the Security Shift Supervisor (SSS) (ext. []), of your intentions to commence a Controlled Evacuation, and the areas you will be evacuating first. (Refer to Attachment 7.3)

5.9.10.2 The Security Shift Supervisor (SSS) shall station additional security personnel in the areas to be evacuated to direct traffic and expedite their departure.

5.9.10.3 When notified that security is ready to commence the evacuation, make the following announcement:

"Attention all personnel! Attention all personnel! We are commencing a Controlled Evacuation of Areas; ("state areas you are now evacuating"). Evacuate ("state the safe evacuation route upriver/downriver").

5.9.10.4 Repeat 5.9.10.3, once.

5.9.10.5 Continue to make information announcements (step 5.9.10.3) as the Controlled Evacuation continues.

5.9.10.6 Coordinate with the Security Shift Supervisor (SSS), to ensure personnel do not build up at the gate house and/or parking lots. Prior to evacuation of additional areas ensure that these build-ups have diminished.

5.9.10.7 Start and stop the Controlled Evacuation as the situation changes until all personnel have been evacuated.

5.9.10.8 Continue monitoring the toxic chemical situation, as the status changes re-enter the procedure at the beginning and re-evaluate the current conditions.

5.9.10.9 Consult with the backup EOF staff as changes occur.

5.9.10.10 When the situation improves enter the Recovery section of this procedure at step 5.10 Recovery.

5.9.11 If toxic chemicals did NOT intrude on-site and the situation that caused sheltering to occur has been resolved, then with management approval, the sheltering condition can be secured from and personnel can return to their normal routine.

* The material contained within the symbols "[]" is Proprietary or Private Information.

5.9.11.1 Make the following announcement:

Attention all personnel! Attention all personnel!
Return to your normal work stations and secure from the
sheltering situation. No toxic chemicals have been
detected on-site and the conditions that caused us to
shelter no longer exist.

5.9.11.2 Repeat 5.9.12.1, once.

5.9.11.3 Commence Recovery activities as per 5.10 of this
procedure.

5.10 Recovery

5.10.1 When the Toxic Chemical Procedure is implemented the following recovery activities shall occur.

5.10.1.1 The immediate replacement of all forms and documents that were used during the event.

5.10.1.2 Respiratory protective equipment shall be inspected and returned to normal inventory levels and status.

5.10.1.3 Emergency lockers that were opened shall be restocked and inventoried as per their respective inventory procedure.

5.10.2 If toxic chemicals intrude within the site boundary perform the following activities:

5.10.2.1 Post and restrict access to all below ground level areas (i.e., basements, well pits, drainage ditches, depressions, etc.).

5.10.2.2 Sample and determine that each restricted area has a safe environment, prior to releasing the area for general access.

5.10.2.3 Engineering shall evaluate the effects of the toxic chemical(s) on the site (i.e., atmospheric vented tanks, electrical equipment, mechanical components, etc.).

6.0 FINAL CONDITIONS

6.1 Recovery activities have been completed.

7.0 ATTACHMENTS

7.1 Definitions

7.2 Support Organization Activation and Operation

7.3 Controlled Evacuation Zone Map

7.4 Map of Major Industrial Properties Within 10 Miles of W3 SES

7.5 St. Charles Parish Emergency Preparedness/Industrial Hotline System

ATTACHMENT 7.1

7.1 Definitions

- A. CODE 1 ALERT (PARISH) - Lowest level of priority. A minor emergency or problem such as a fire, explosion, gas or liquid release, unusual noise, unusual odor, abnormal and/or extended flaring activity or other internal event has occurred which may be visible or detectable by off-site people but for which no external action or assistance is necessary. The emergency is under control in a short time.
- B. CODE 2 SITE EMERGENCY (PARISH) - Higher level of priority - standby. A moderate emergency such as a fire, explosion, gas or liquid release, or other event has occurred which affects plant operation and for which protective action for off-site may be necessary. The emergency is not yet under control and may extend or has extended beyond the industry's control. Off-site emergency assistance would be placed in standby conditions.
- C. CODE 3 GENERAL ALARM (PARISH) - Highest level of priority, emergency assistance needed. A severe emergency such as a major fire, explosion, gas or liquid release, or other event has occurred which seriously affects plant operation, jeopardizes off-site areas and for which protective actions off-site will be necessary. Emergency off-site assistance would be activated and the affected public and nearby industries would be notified.
- D. IDLH (Immediately Dangerous to Life and Health) - Any atmosphere that poses an immediate hazard to life or produces immediate irreversible debilitating effects on health (ANS Z88.2-1980).

ATTACHMENT 7.2

7.2 Support Organization

The Duty Plant Manager or his designee shall implement this attachment when:

- Notified that the NOS-SS has elected to shelter the site personnel due to a toxic chemical problem.
- Notified that the NOS-SS has elected to perform a site evacuation due to a toxic chemical problem.
- At the discretion of the Duty Plant Manager.

SECTION I STAFFING REQUIREMENTS

The Backup EOF will be staffed to support the plant Toxic Chemical Contingency Procedure. The following areas require staffing (required number to staff the position(s)).

- Manager (1) - EOF Director
- Engineering Staff (8) - Members of the EOF and the TSC Engineering Staff, with the addition of Chemistry oriented type support.
- Support Manager (1) - EOF Administrative and Logistics Coordinator.
- Communicators (2) - Emergency Communicators
- Facility Logkeeper (1) - Emergency Logkeeper

SECTION II RESPONSIBILITIES

Managers shall:

- Insure that the Backup EOF is staffed appropriately.
- Direct the evaluation of the present situation for the following considerations:
 - Short term effects of the toxic chemical on plant personnel and equipment.
 - Long term effects of the toxic chemical on plant personnel and equipment.
 - The requirements for long term staffing of the plant and the support organization.
 - The ability to provide rapid support of the plant staff if the situation requires it.
 - The availability of resources that are expected to be

used during the duration of the event.

- Evaluation of the present plant operating status.
- Notify the LP&L Public Relation department.
- Ensure that proper notifications occur for the appropriate agencies and management members.

The Engineering Staff shall:

- Evaluate all credible events that could occur based on the present or the developing situation.
- Evaluate the toxic chemical involved for short and long term effects on plant equipment.
- Examine the present plant status to determine possible developing plant problems.

The Support Manager shall:

- Provide the requested support personnel for the event.
- Provide the requested safety equipment.
- Provide the necessary supplies to support the on site personnel.
- Arrange for transportation to and from the plant for personnel and equipment.

The Communicators shall:

- Monitor the phone reports and provide updated information to the staff.
- Handle the facility communications.

The Facility Logkeeper shall:

- Maintain a narrative record that summarizes the events and the actions of the facility.

SECTION III STAFF NOTIFICATION

Upon receiving notification from the NOS-SS, that a toxic chemical problem exist at Waterford 3 SES the Duty Plant Manager shall request that the Facility Manager activate his/her staff by using a phone callout.

FACILITY MANAGER

*

*

FACILITY LOGKEEPER

A. _____ PH# _____

*

*

*

*

*

*

(LIST 1)

FACILITY ENGINEERS
(4 required)

A. _____ PH# _____

EMERGENCY COMMUNICATORS
(3 required)

A. _____ PH# _____

*

*

*

*

*

*

*

*

*

*

*

#1 Comm.

#3 Comm Respond
to site via the
approved route

#2 Comm.

(LIST 2)

FACILITY ENGINEERS
(4 required)

N. _____ PH# _____

SUPPORT MANAGER
(1 required)

A. _____ PH# _____

SECTION IV ACTIVATION

Upon arrival, the Facility Manager shall contact the NOS-SS (Emergency Coordinator) or the Duty Plant Manager at the site. A briefing of all pertinent information shall then occur, which shall include the following at a minimum:

- Site protective measures taken.
- Present Parish recommendation.
- Status of plant operation.
- Status of site personnel.
- Best information on the toxic chemical being released; release rate, type, source, quantity involved, known effects, present status of the release, etc.
- List of agencies that have been notified.
- Present Emergency Classification.
- What support is required at this time.
- Will breathing air be used?

Once in the opinion of the Facility Manager there exists enough staff to support plant activities, he/she will activate the facility.

The following activities shall occur:

- Monitor those media that will provide information on the event.

Civil Defense Radio
Television
Local radio stations

NOTE

Individuals that are required to respond to Waterford 3, will do so by arranging through the Waterford 3 control room, a St. Charles Parish approved route and method of transportation.

- On coming shift workers shall be contacted and apprised of the current situation. Arrangements shall be made to coordinate their relief of the plant on-shift personnel.

- Evaluate the effects of the chemical(s) of the release on:

Personnel

Plant equipment

- Evaluate of the possible event length and determine the support requirements for the plant. Based on this evaluation, locate and make arrangements for those items and personnel required.
- Evaluate the need for additional support staff members to investigate specialized problems.
- Evaluate the long term effects on the facility.

ATTACHMENT 7.3

7.3 Controlled Evacuation Zone Map (LATER)

ATTACHMENT 7.4

7.4 Map of Major Industrial Properties Within 10 Miles Of W3 SES

This information is not released for public distribution.

ATTACHMENT 7.5

7.5 St. Charles Parish Emergency Preparedness/Industrial Hotline
System

This information is not released for public distribution.

ATTACHMENT 1

TOXIC CHEMICAL CONTINGENCY PROCEDURE

FOR NRC USE ONLY

Draft 3

Emergency Plan Implementing Procedure
Toxic Chemical Contingency Procedure

EP-4-010
Revision 0

DRAFT

TOXIC CHEMICAL CONTINGENCY PROCEDURE

CONTAINS PROPRIETARY INFORMATION

TOXIC CHEMICAL CONTINGENCY PROCEDURE

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- 3.0 RESPONSIBILITIES
- 4.0 INITIATING CONDITIONS
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1.0 PURPOSE

The purpose of this procedure is to provide protection to site personnel during a toxic chemical release.

2.0 REFERENCES

- 2.1 OP-901-047, Toxic Chemical Release
- 2.2 DOT P 5800.2, Hazardous Material Emergency Response Guidebook
- 2.3 FSAR, Section 2.2
- 2.4 Resource Notebook
- 2.5 PS-16-103, Accountability During Emergencies
- 2.6 EP-2-010, Notifications and Communications
- 2.7 EP-2-190, Personnel Accountability

3.0 RESPONSIBILITIES

The NOS-SS is responsible for the implementation of this procedure.

4.0 INITIATING CONDITIONS

- 4.1 Whenever OP- [REDACTED] determines a toxic chemical problem exist within or near the site boundary.
- 4.2 Whenever the St. Charles Parish Industrial Hotline indicates an off-site toxic chemical problem exists that may threaten the site.

5.0 PROCEDURE

5.1 Determine Information Source

- 5.1.1 Whenever OP-901-047, Toxic Chemical Release Procedure determines that a valid toxic chemical concentration exists within or near the site boundary. GO-TO TAB "G".
- 5.1.2 Upon notification of an off-site toxic chemical uncontrolled release via the Industrial Hotline (IHL). GO-TO TAB "A" and complete the "Emergency Hotline Report".

5.2 Industrial Hotline Reports.

- 5.2.1 Record Industrial Hotline reports on the "St. Charles Parish Emergency Operations Center Emergency Hotline Report" (hereafter referred to as the "Emergency Hotline Report").

5.2.2 When the "Emergency Hotline Report" indicates that a toxic chemical release is in progress or is pending, remove (TEAR OUT) the "Emergency Hotline Report" and then GO-TO TAB "B", and complete the lower section of the form "FOR WATERFORD 3 USE" using information provided.

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TAB A
ST. CHARLES PARISH EMERGENCY OPERATIONS CENTER
EMERGENCY HOTLINE REPORT

This is the St. Charles Parish Emergency Operations Center with an Industry Hotline Initial Notification Message.

Please obtain a copy of the Industrial Hotline Initial Notification Message Report and stand by to copy.

Due to the following circumstances, an incident has been reported by:

AGENCY/PLANT/Member Industry/NAME OF PERSON PROVIDING INFORMATION/
TELEPHONE

This incident/emergency is a: (circle one)

- CODE 1 - ALERT (Lowest Priority)
- CODE 2 - SITE EMERGENCY (Higher Priority)
- CODE 3 - GENERAL ALARM (Highest Priority)

NOTIFICATION TIME: _____ hours DATE: _____

INCIDENT DETAILS: (circle one)

FIRE
LIQUID

GAS RELEASE
OTHER: _____

EXPLOSION

SUBSTANCE INVOLVED: _____

I.D. GUIDE _____ GUIDE NUMBER _____

FLAMMABLE _____ TOXIC _____

OTHER _____

METEOROLOGICAL CONDITIONS:

WIND SPEED _____ WIND DIRECTION FROM _____

RECOMMENDED PROTECTIVE ACTION: _____

ANTICIPATED DURATION OF INCIDENT:

ESTIMATED: _____ ACTUAL _____

AFFECTED PLANTS/INDUSTRIES/SECTORS: _____

FOR WATERFORD 3 USE

- | | |
|--|--|
| 1. DISTANCE FROM
AFFECTED INDUSTRY _____ | 2. HAZARD
POTENTIAL <u>large/small/none</u>
(circle one) |
| 3. WORST CASE
WIND DIRECTION (From) _____ | 4. ESTIMATED WORST
CASE ARRIVAL TIME _____ |

TAB B

5.3 Hazard Potential Determination

5.3.1 In the "FOR WATERFORD USE" section at the bottom of the "Emergency Hotline Report" complete the following items using the information provided in the Hazard Potential Table:

- 5.3.1.1 (1) Distance From Affected Industry
- 5.3.1.2 (2) Worst Case Wind Direction (from)
- 5.3.1.3 (3) Hazard Potential

NOTE

Distance from the affected plant is a straight line calculation from the containment building to the nearest source on the affected facility's property.

Worst case wind direction is that direction of the wind that would bring the release directly to our site.

Hazard Potential Table information is calculated for the worst case event for each chemical stored or produced at that particular facility. A large potential is an indication that the selected source under worst case condition can exceed the IDLH (Immediately Dangerous to Life and Health) limits at Waterford 3 SES.

CAUTION

If the "Emergency Hotline Report" does not provide the chemical(s) involved, use the worst case chemical for that facility.

5.3.2 Upon completion of items 1, 2 and 3 of the "FOR WATERFORD 3 USE" section GO-TO TAB "C".

NOTE

Additional information can be obtained by calling DOT P 5800.2 Hazard Material Emergency Response Guidebook Hotline toll free number [1-800-424-9300].

* The information contained within the symbols "[]" is Proprietary or Private Information.

*

HAZARD POTENTIAL TABLE

The following is an EXAMPLE of the format that is being developed to be used as this table. The information contained within this EXAMPLE has not been verified as current or in some cases may be fictional in nature.

- 1) Union Chemical Distance 3.3 miles
Worst case wind direction (from) 134 degs.

<u>Chemical Name</u>	<u>Exceeds IDLH</u>	<u>Worst Case</u>	<u>Hazard Potential</u>
* Benzene	NO	fire	SMALL
Butylene	NO		NONE

- 2) XYZ Chemical Ind. Distance 2.1 miles
Worst case wind direct (from) 92 degs.

<u>Chemical Name</u>	<u>Exceeds IDLH</u>	<u>Worst Case</u>	<u>Hazard Potential</u>
* Chlorine	YES	vapor	LARGE
Ethyl Acetate	NO	explosion	SMALL
Fuel Oil	NO	fire	NONE

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* Worst Case Chemical accident for this plant.

TAB C

5.4 Available Response Time Calculation

5.4.1 Use the "Emergency Hotline Report" information and available control room data to calculate the arrival time.

5.4.1.1 Calculate wind speed in miles per hour if not available directly.

$$(\text{windspeed} \quad \text{m/sec}) \times (2.25 \text{mph/m/sec}) = \quad \text{mph}$$

5.4.1.2 Calculate plume travel time.

$$\frac{\text{Distance} \quad \text{miles}}{\text{(item \#1 of IHL report)} \quad \text{mph}} \times 60 \frac{\text{min}}{\text{hrs. TRAVEL TIME}} = \quad \text{minute}$$

(from 5.4.1.1)

5.4.1.3 Calculate plume arrival time.

NOTE

If the release time is not available use the "NOTIFICATION TIME" from the "Emergency Hotline Report"

$$\text{TRAVEL TIME} \quad \text{RELEASE TIME} + \text{START TIME} = \quad \text{ARRIVAL TIME}$$

(from 5.4.1.2)

5.4.1.4 Record ARRIVAL TIME on the bottom of the "Emergency Hotline Report."

5.4.2 Calculate RESPONSE TIME

$$(\text{ARRIVAL TIME} \quad) - (\text{TIME NOW} \quad) = \quad \text{RESPONSE TIME}$$

(from 5.4.2.3)

5.4.3 Evaluated Response Time

5.4.3.1 Select the situation that best represents the present site population.

5.4.3.1.1 Normal Operations

Estimated Evacuation Time

- Dayshift -	(TBD)
- Backshift -	(TBD)
- Weekend -	(TBD)

5.4.3.1.2 Outage Operation

Estimated Evacuation
Time

- Dayshift -	(TBD)
- Backshift -	(TBD)
- Weekend -	(TBD)

5.4.4 Can you evacuate the Waterford 3 site within the Response Time available?

5.4.4.1 IF YES GO-TO 5.5.1 (next page!, page #9)

5.4.4.2 IF NO GO-TO 5.5.2 (page #10)

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5.5 Determination of the appropriate response.

- 5.5.1 If the site CAN be evacuated prior to the plume arrival continue with step 5.5.1.1, otherwise GO-TO Step 5.2.

CAUTION

COMPARE THE PROCEDURE RECOMMENDATION TO THE ST. CHARLES PARISH REPORT'S "RECOMMENDED PROTECTIVE ACTION", AND USE THE MORE CONSERVATIVE RESPONSE.

- 5.5.1.1 Are we down wind (+45 degrees) of the affected plant and are the present meteorological condition stable?
- a. If we are NOT down wind (+45 degrees) and the meteorological conditions are stable GO TO Step 5.5.1.2.
 - b. If we are down wind (+45 degrees) and/or the meteorological conditions are NOT stable GO TO Step 5.5.1.3.
- 5.5.1.2 Continue to monitor the situation and inform the Duty Plant Manager of the present situation. When new information is available re-enter this procedure at the beginning(TAB A).
- 5.5.1.3 What is the Hazard Potential for this situation?
- a. If the Hazard Potential is Large GO TO Step 5.5.1.4.
 - b. If the Hazard Potential is small GO TO TAB "D" Alerted Condition.
- 5.5.1.4 Contact Duty Plant Manager.

NOTE

If unable to contact the Duty Plant Manager within 10 minutes continue performing this procedure.

- 5.5.1.5 GO TO TAB "F" and commence a Site Evacuation.
- 5.5.2 If the site CAN NOT be evacuated within the calculated response time proceed with step 5.5.2.1.

CAUTION

COMPARE THE PROCEDURE RECOMMENDATION TO THE ST. CHARLES PARISH REPORT'S "RECOMMENDED PROTECTIVE ACTION". TAKE THE MORE CONSERVATIVE ACTION.

5.5.2.1 Are we down wind (+45 degrees) of the effected plant and are the present meteorological condition stable?

- a. If we are NOT down wind (+45 degrees) and the meteorological conditions are stable, and the Hazard Potential is SMALL GO TO TAB "D" Alerted Condition.
- b. If we are down wind (+45 degrees) and/or the meteorological conditions are unstable and/or the Hazard Potential is LARGE GO TO TAB "G", and Sheltering.

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TAB D

5.6 Alerted Condition

5.6.1 The NOS-SS shall direct the following activities to occur:

5.6.1.1 Notification of the Duty Plant Manager via the Resource Notebook.

5.6.1.2 Evaluation of all plant activities presently in progress to ensure that they are in a configuration that will allow for rapid conclusion in the event that the situation deteriorates (i.e., refueling activities, activities in RCA's, maintenance, etc.).

5.6.1.3 The shift organization shall be briefed on the present situation status.

5.6.1.4 Notification of Waterford 1 & 2 of the present event status. Waterford 1 & 2, Plant Manager's office, ext. [REDACTED] or Control Room ext. [REDACTED]

5.6.1.5 Notification of the Security Shift Supervisor (SSS) at ext. [REDACTED]

5.6.2 If you have declared an Alerted Condition, due to a valid "Emergency Hotline Report". Then declare an "Unusual Event".

NOTE

The normal Emergency Organization will not be used for a Toxic Chemical Event. Do NOT activate any on-site emergency organizations.

5.6.3 Complete the NRC OPERATIONS CENTER EVENT NOTIFICATION FORM (use EP-2-010, Attachment 7.7).

5.6.3.1 Using the NRC OPERATIONS CENTER EVENT NOTIFICATION FORM completed in step 5.6.3, notify the NRC via the:

5.6.3.1a - ENS; or

5.6.3.1b - NRC Health Physics Network; or

5.6.3.1c - Commercial telephone, [1-202-951-0550]

* The material contained within the symbols "[]" is Proprietary or Private Information.

5.6.4 Make the following site wide announcement:

Attention all personnel! Attention all personnel! Due to a toxic chemical release at ("state the company's name"), we have declared an "Unusual Event". Present conditions are such that we are in no danger. If the situation changes you will be informed.

5.6.4.1 Repeat 5.6.4 once.

5.6.5 Evaluate the present situation and determine if there is a need to reduce the number of personnel on-site to enhance your evacuation times. If you decide to reduce the site population refer to:

5.6.5.1 For SOME personnel, GO-TO TAB "E", STAFF REDUCTION.

5.6.5.2 For ALL personnel, GO-TO TAB "F", SITE EVACUATION.

NOTE

If your response time is less than your evacuation time, shelter the site population and then perform a CONTROLLED EVACUATION.

5.6.5.3 For CONTROLLED EVACUATION GO-TO TAB "G", SHELTERING.

5.6.6 If the situation improves, or deteriorates, GO-TO TAB "A" and re-enter the procedure at the beginning.

TAB E

5.7 STAFF REDUCTION

- 5.7.1 Confer with the Duty Plant Manager, if available and determine what work groups and/or individuals should be instructed to go home.

NOTE

Individuals that would require assistance, or are physically impaired (i.e., pregnant, respiratory problems, broken limbs, etc.), should be highly considered to depart the site.

- 5.7.2 Notify the supervisor of the selected work groups and appraise them of the present situation. Have the supervisor send home the designated personnel.
- 5.7.2.1 The supervisor shall ensure that personnel leave their work station in an acceptable safe condition.
- 5.7.2.2 The supervisor shall ensure that personnel leave the site in an orderly and timely manner.
- 5.7.3 Notify Waterford 1 and 2 that Waterford 3 has elected to reduce the site population due to the existing chemical problem. Waterford 1 and 2 Plant Manager's office ext. or Control Room ext.
- 5.7.4 Continue monitoring the situation and re-enter this procedure at TAB "A" when the situation changes or when additional information is available.

- * The material contained within the symbols "[]" is Proprietary or Private Information.

TAB F

5.8 Site Evacuation

- 5.8.1 Notify the Security Shift Supervisor (SSS) that you have elected to perform a site evacuation. Ext. [REDACTED]
- 5.8.2 Determine the safest evacuation route, using available information sources, i.e., "Emergency Hotline Report" recommendations.

NOTE

If you feel that you CAN NOT safely evacuate the entire site population prior to the plume arrival, shelter the personnel and commence a Controlled Evacuation of the site (TAB G).

- 5.8.3 Sound the "STATION ALARM".
- 5.8.4 Make the following announcement:

Attention all personnel! Attention all personnel! A toxic chemical release has occurred at ("state the company name"). We are now performing a precautionary evacuation of Waterford 3. Evacuate ("state evacuation direction, UPRIVER/DOWNRIVER") away from the affected area. Personnel in radiation controlled areas proceed to the Health Physics Control Points prior to exiting. There will be no smoking, eating, or drinking until further notice. The maintenance frequency is now dedicated for emergency use only.

- 5.8.4.1 Repeat 5.8.4 once.
- 5.8.5 Contact the Duty Plant Manager, as per the RESOURCE NOTEBOOK.
 - 5.8.5.1 Request that the Duty Plant Manager activate the support staff at the back-up EOF, as per Attachment 7.2 of this procedure.
 - 5.8.5.2 The response of the Duty Plant Manager and the Emergency Communicator to the site must be via the approved route and transportation method prescribed by the St. Charles Parish Emergency Operation Center (EOC). Coordinate their arrival through the St. Charles Parish EOC, phone number [REDACTED]
- 5.8.6 Notify Waterford 1 and 2 that you are evacuating. Waterford 1 and 2 Plant Manager's office ext. [REDACTED] or Control Room [REDACTED]

* The material contained within the symbols "[]" is Proprietary or Private Information.

NOTE

Because we are evacuating the site due to a chemical problem, we have exceeded the EP-1-001 TAB I, EAL for "ALERT" classification.

CAUTION

Do NOT activate the normal radiological emergency plan response organization. Follow this procedure.

5.8.7 Declare an "Alert".

5.8.7.1 Complete a NRC OPERATIONS CENTER EVENT NOTIFICATION FORM. (Use EP-2-010, Attachment 7.7.)

5.8.7.2 Notify the NRC by one of the following methods:

- ENS; or
- NRC health physics network; or
- Commercial phone, [1-202-951-0550].

NOTE

As the situation changes provide the NRC with additional information by completing the "NRC SUPPLEMENTARY EVENT NOTIFICATION INFORMATION." (Use EP-2-010, Attachment 7.7.)

5.8.8 Assemble and account for all shift personnel in the control room and brief them on the present plant and toxic chemical situation.

5.8.8.1 Ensure watchstanders that depart the control room envelope log out and are assigned a call back frequency (15 minutes is the maximum recommended interval). See EP-2-190, Personnel Accountability.

5.8.8.2 Ensure that personnel performing assigned functions outside of the control room are equipped with the appropriate safety equipment.

5.8.9 Control room personnel should make preparations to don respiratory protection.

5.8.10 The Security Shift Supervisor (SSS), shall ensure that his staff is equipped with the appropriate protective equipment for the existing situation.

* The material contained within the symbols "[]" is Proprietary or Private Information.

5.8.11 The Security Shift Supervisor (SSS), shall perform accountability as per PS-16-103, Accountability of Personnel During Emergencies.

5.8.11.1 Those individuals that are unaccounted for at the end of the accountability period should be searched for using the available staff resources if personnel and plant safety is not jeopardized.

5.8.12 Upon detection, or the approach of toxic chemicals on-site, the following shall occur:

5.8.12.1 Assembly of personnel in the Control Room Envelope.

5.8.12.2 The donning of respiratory protection as necessary.

5.8.12.3 Consider starting of the diesel generators.

CAUTION

If toxic chemicals are detected via a HIGH-HIGH alarm on Toxic Gas Detected Channel 1 (C-9 on CP-36) and Channel 2 (C-10 on CP-36) or in the opinion of the NOS-SS indications exist that toxic chemicals have intruded within the Protected Area boundaries, declare a "Site Area Emergency" and GO-TO TAB "G" SHELTERING, page 17, step number 5.9.1.

5.8.13 Continuous evaluation shall take place and when the situation improves, and with Parish and Support Staff concurrence, the event can be downgraded and the recovery can begin, GO-TO 5.10, RECOVERY.

TAB G

5.9 Sheltering

5.9.1 Sound the "Station Alarm".

5.9.2 Make the following announcements:

Attention All Personnel! Attention All Personnel!
Shelter, Shelter, Shelter, Shut all windows and doors.
Secure ventilation systems and remain inside until you
receive further instructions.

5.9.2.1 Repeat 5.9.2 once.

5.9.3 Consider starting the emergency diesel generators.

5.9.4 Establish control room habitability and don emergency
respiratory protective equipment as necessary.

5.9.5 Appraise the Security Shift Supervisor (SSS) of the present
situation status, ext. [REDACTED]

5.9.6 Contact the Duty Plant Manager as per the RESOURCE
NOTEBOOK.

NOTE

If he is on-site, make an announcement for him
to contact the control room.

5.9.6.1 Request that the Duty Plant Manager activates the support
staff at the backup EOC, as per Attachment 7.2 of this procedure.

CAUTION

Due to the present conditions it may not be
desirable to request that a communicator and
the Duty Plant Manager, if on-site, respond to
the control room.

5.9.6.2 The response of the Duty Plant Manager and the Emergency
Communicator to the site must be via the approved route
and transportation method prescribed by the St. Charles
Parish Emergency Operation Center (EOC). Coordinate
their arrival through the St. Charles Parish EOC, phone
number [REDACTED]

5.9.7 Notify Waterford 1 and 2 that you are evacuating
Waterford 1 and 2 Plant Manager's office ext. [REDACTED]
Control Room [REDACTED]

* The material contained within the symbols [] is Proprietary
or Private Information.

5.9.8 Declare the appropriate emergency classification as follows:

NOTE

DO NOT enter the Radiological Emergency Plan, continue using the EP-4-010, Toxic Chemical Contingency Procedures.

CAUTION

DO NOT activate any Radiological Emergency Organization.

- 5.9.8.1 If we are sheltering due to a known off-site toxic chemical problem, with no detected presents of toxic chemicals onsite, declare an "Alert" and proceed to 5.9.8.3.
- 5.9.8.2 If we are sheltering due to toxic chemicals being on-site, declare a "Site Area Emergency".
- 5.9.8.3 Complete the NRC OPERATIONS CENTER EVENT NOTIFICATION FORM. (Use EP-2-010, Attachment 7.7.)
- 5.9.8.2 Notify the NRC by one of the following methods:
- ENS; or
 - NRC health physics network; or
 - Commercial phone,

NOTE

As the situation changes, provide the NRC with additional information by completing the "NRC SUPPLEMENTARY EVENT NOTIFICATION INFORMATION", (Use EP-2-010, Attachment 7.7.)

- * The material contained within the symbols "[]" is Proprietary or Private Information.

- 5.9.9 Assemble and/or account for all shift personnel in the control room envelope and brief them on the present plant and toxic chemical status.
- 5.9.9.1 Ensure watchstanders that depart the control room envelope log out and are assigned a call back frequency (15 minutes is the maximum recommended interval). See EP-2-190 for guidance.
- 5.9.9.2 Ensure that personnel performing assigned functions outside of the control room are equipped with the appropriate safety equipment.
- 5.9.9 Evaluate the present status of the toxic chemical release to determine if there is time to commence a Controlled Evacuation of sheltered site personnel.

NOTE

Controlled Evacuation is designed to allow for partial evacuation of the site. Controlled Evacuation can be stopped and started as often as necessary as the outside atmospheric conditions improve or deteriorate.

- 5.9.9.1 Evaluate the following:

- Most recent recommendations on the Parish "Emergency Hotline Report". If you have not received a "Emergency Hotline Report", contact the Parish via the IHL and evaluate the information using this procedure. Then compare your resulting evaluation.
- Wind speed, direction and meteorological stability.
- Current road conditions.
- The present on-site air quality, by sampling when possible.

NOTE

If the situation that caused the Sheltering condition to occur no longer exists, and there were NO toxic chemicals detected on-site GO-TO STEP 5.9.11 of this procedure.

5.9.10 Controlled Evacuation

- 5.9.10.1 Appraise the Security Shift Supervisor (SSS) (ext. ~~5~~) of your intentions to commence a Controlled Evacuation, and the areas you will be evacuating first. (Refer to Attachment 7.3)
- 5.9.10.2 The Security Shift Supervisor (SSS) shall station additional security personnel in the areas to be evacuated to direct traffic and expedite their departure.
- 5.9.10.3 When notified that security is ready to commence the evacuation, make the following announcement:
- "Attention all personnel! Attention all personnel! We are commencing a Controlled Evacuation of Areas; ("state areas you are now evacuating"). Evacuate ("state the safe evacuation route upriver/downriver").
- 5.9.10.4 Repeat 5.9.11.3, once.
- 5.9.10.5 Continue to make information announcements (step 5.9.10.3) as the Controlled Evacuation continues.
- 5.9.10.6 Coordinate with the Security Shift Supervisor (SSS), to ensure personnel do not build up at the gate house and/or parking lots. Prior to evacuation of additional areas ensure that these build-ups have diminished.
- 5.9.10.7 Start and stop the Controlled Evacuation as the situation changes until all personnel have been evacuated.
- 5.9.10.8 Continue monitoring the toxic chemical situation, as the status changes re-enter the procedure at the beginning and re-evaluate the current conditions.
- 5.9.10.9 Consult with the backup EOP staff as changes occur.
- 5.9.10.10 When the situation improves enter the Recovery section of this procedure at step 5.10 Recovery.
- 5.9.11 If toxic chemicals did NOT intrude on-site and the situation that caused sheltering to occur has been resolved, then with management approval, the sheltering condition can be secured from and personnel can return to their normal routine.

* The material contained within the symbols "[]" is Proprietary or Private Information.

5.9.11.1 Make the following announcement:

Attention all personnel! Attention all personnel!
Return to your normal work stations and secure from the
sheltering situation. No toxic chemicals have been
detected on-site and the conditions that caused us to
shelter no longer exist.

5.9.11.2 Repeat 5.9.12.1, once.

5.9.11.3 Commence Recovery activities as per 5.10 of this
procedure.

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5.10 Recovery

5.10.1 When the Toxic Chemical Procedure is implemented the following recovery activities shall occur.

5.10.1.1 The immediate replacement of all forms and documents that were used during the event.

5.10.1.2 Respiratory protective equipment shall be inspected and returned to normal inventory levels and status.

5.10.1.3 Emergency lockers that were opened shall be restocked and inventoried as per their respective inventory procedure.

5.10.2 If toxic chemicals intrude within the site boundary perform the following activities:

5.10.2.1 Post and restrict access to all below ground level areas (i.e., basements, well pits, drainage ditches, depressions, etc.).

5.10.2.2 Sample and determine that each restricted area has a safe environment, prior to releasing the area for general access.

5.10.2.3 Engineering shall evaluate the effects of the toxic chemical(s) on the site (i.e., atmospheric vented tanks, electrical equipment, mechanical components, etc.).

6.0 FINAL CONDITIONS

6.1 Recovery activities have been completed.

7.0 ATTACHMENTS

7.1 Definitions

7.2 Support Organization Activation and Operation

7.3 Controlled Evacuation Zone Map

7.4 Map of Major Industrial Properties Within 10 Miles of W3 SES

7.5 St. Charles Parish Emergency Preparedness/Industrial Hotline System

ATTACHMENT 7.1

7.1 Definitions

- A. CODE 1 ALERT (PARISH) - Lowest level of priority. A minor emergency or problem such as a fire, explosion, gas or liquid release, unusual noise, unusual odor, abnormal and/or extended flaring activity or other internal event has occurred which may be visible or detectable by off-site people but for which no external action or assistance is necessary. The emergency is under control in a short time.
- B. CODE 2 SITE EMERGENCY (PARISH) - Higher level of priority - standby. A moderate emergency such as a fire, explosion, gas or liquid release, or other event has occurred which affects plant operation and for which protective action for off-site may be necessary. The emergency is not yet under control and may extend or has extended beyond the industry's control. Off-site emergency assistance would be placed in standby conditions.
- C. CODE 3 GENERAL ALARM (PARISH) - Highest level of priority, emergency assistance needed. A severe emergency such as a major fire, explosion, gas or liquid release, or other event has occurred which seriously affects plant operation, jeopardizes off-site areas and for which protective actions off-site will be necessary. Emergency off-site assistance would be activated and the affected public and nearby industries would be notified.
- D. IDLH (Immediately Dangerous to Life and Health) - Any atmosphere that poses an immediate hazard to life or produces immediate irreversible debilitating effects on health (ANS Z88.2-1980).

ATTACHMENT 7.2

7.2 Support Organization

The Duty Plant Manager or his designee shall implement this attachment when:

- Notified that the NOS-SS has elected to shelter the site personnel due to a toxic chemical problem.
- Notified that the NOS-SS has elected to perform a site evacuation due to a toxic chemical problem.
- At the discretion of the Duty Plant Manager.

SECTION I STAFFING REQUIREMENTS

The Backup EOF will be staffed to support the plant Toxic Chemical Contingency Procedure. The following areas require staffing (required number to staff the position(s)).

- Manager (1) - EOF Director
- Engineering Staff (8) - Members of the EOF and the TSC Engineering Staff, with the addition of Chemistry oriented type support.
- Support Manager (1) - EOF Administrative and Logistics Coordinator.
- Communicators (2) - Emergency Communicators
- Facility Logkeeper (1) - Emergency Logkeeper

SECTION II RESPONSIBILITIES

Managers shall:

- Insure that the Backup EOF is staffed appropriately.
- Direct the evaluation of the present situation for the following considerations:
 - Short term effects of the toxic chemical on plant personnel and equipment.
 - Long term effects of the toxic chemical on plant personnel and equipment.
- The requirements for long term staffing of the plant and the support organization.
- The ability to provide rapid support of the plant staff if the situation requires it.
- The availability of resources that are expected to be

used during the duration of the event.

- Evaluation of the present plant operating status.
- Notify the LP&L Public Relation department.
- Ensure that proper notifications occur for the appropriate agencies and management members.

The Engineering Staff shall:

- Evaluate all credible events that could occur based on the present or the developing situation.
- Evaluate the toxic chemical involved for short and long term effects on plant equipment.
- Examine the present plant status to determine possible developing plant problems.

The Support Manager shall:

- Provide the requested support personnel for the event.
- Provide the requested safety equipment.
- Provide the necessary supplies to support the on site personnel.
- Arrange for transportation to and from the plant for personnel and equipment.

The Communicators shall:

- Monitor the phone reports and provide updated information to the staff.
- Handle the facility communications.

The Facility Logkeeper shall:

- Maintain a narrative record that summarizes the events and the actions of the facility.

SECTION III STAFF NOTIFICATION

Upon receiving notification from the NOS-SS, that a toxic chemical problem exist at Waterford 3 SES the Duty Plant Manager shall request that the Facility Manager activate his/her staff by using a phone callout.

FACILITY MANAGER

*

*

FACILITY LOGKEEPER

A. _____ PH# _____

*

*

*

*

*

*

(LIST 1)
FACILITY ENGINEERS
(4 required)

A. _____ PH# _____

EMERGENCY COMMUNICATORS
(3 required)

A. _____ PH# _____

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#1 Comm.

#3 Comm Respond
to site via the
approved route

#2 Comm.

(LIST 2)
FACILITY ENGINEERS
(4 required)

N. _____ PH# _____

SUPPORT MANAGER
(1 required)

A. _____ PH# _____

SECTION IV ACTIVATION

Upon arrival, the Facility Manager shall contact the NOS-SS (Emergency Coordinator) or the Duty Plant Manager at the site. A briefing of all pertinent information shall then occur, which shall include the following at a minimum:

- Site protective measures taken.
- Present Parish recommendation.
- Status of plant operation.
- Status of site personnel.
- Best information on the toxic chemical being released; release rate, type, source, quantity involved, known effects, present status of the release, etc.
- List of agencies that have been notified.
- Present Emergency Classification.
- What support is required at this time.
- Will breathing air be used?

Once in the opinion of the Facility Manager there exists enough staff to support plant activities, he/she will activate the facility.

The following activities shall occur:

- Monitor those media that will provide information on the event.

Civil Defense Radio
Television
Local radio stations

NOTE

Individuals that are required to respond to Waterford 3, will do so by arranging through the Waterford 3 control room, a St. Charles Parish approved route and method of transportation.

- On coming shift workers shall be contacted and apprised of the current situation. Arrangements shall be made to coordinate their relief of the plant on-shift personnel.

- Evaluate the effects of the chemical(s) of the release on:

Personnel

Plant equipment

- Evaluate of the possible event length and determine the support requirements for the plant. Based on this evaluation, locate and make arrangements for those items and personnel required.
- Evaluate the need for additional support staff members to investigate specialized problems.
- Evaluate the long term effects on the facility.

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ATTACHMENT 7.3

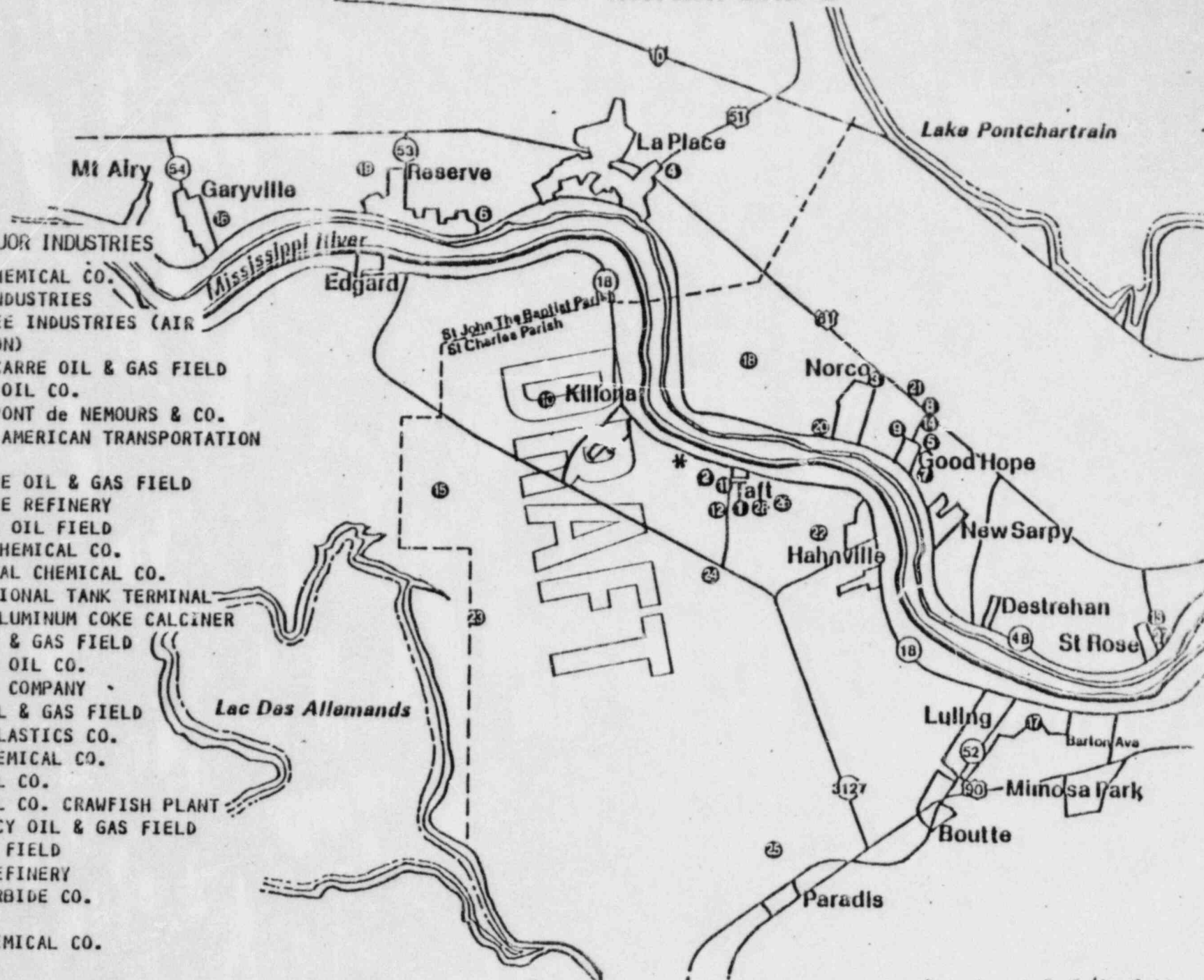
7.3 Controlled Evacuation Zone Map (LATER)

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MAJOR INDUSTRIAL PROPERTIES WITHIN 10 MILES OF WATERFORD 3

LEGEND - MAJOR INDUSTRIES

- ① ARGUS CHEMICAL CO.
- ② BEKER INDUSTRIES
- ③ BIG THREE INDUSTRIES (AIR REDUCTION)
- ④ BONNET CARRE OIL & GAS FIELD
- ⑤ CHEVRON OIL CO.
- ⑥ E.I. DUPONT de NEMOURS & CO.
- ⑦ GENERAL AMERICAN TRANSPORTATION CO.
- ⑧ GOOD HOPE OIL & GAS FIELD
- ⑨ GOOD HOPE REFINERY
- ⑩ HANVILLE OIL FIELD
- ⑪ HOOKER CHEMICAL CO.
- ⑫ OCCIDENTAL CHEMICAL CO.
- ⑬ INTERNATIONAL TANK TERMINAL
- ⑭ KAISER ALUMINUM COKE CALCINER
- ⑮ LUCY OIL & GAS FIELD
- ⑯ MARATHON OIL CO.
- ⑰ MONSANTO COMPANY
- ⑱ NORCO OIL & GAS FIELD
- ⑲ SEWELL PLASTICS CO.
- ⑳ SHELL CHEMICAL CO.
- ㉑ SHELL OIL CO.
- ㉒ SHELL OIL CO. CRAWFISH PLANT
- ㉓ SOUTH LUCY OIL & GAS FIELD
- ㉔ TAFT GAS FIELD
- ㉕ TEXACO REFINERY
- ㉖ UNION CARBIDE CO.
- ㉗ USAMEX
- ㉘ WITCO CHEMICAL CO.



**ST. CHARLES PARISH EMERGENCY
PREPAREDNESS/INDUSTRIAL
HOT LINE SYSTEM**

DRAFT

OPERATING PROCEDURE MANUAL

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ST. CHARLES PARISH EMERGENCY PREPAREDNESS/INDUSTRIAL
HOT LINE SYSTEM

1. PURPOSE

This system provides a centralized communication network where emergency information can be communicated between the EOC and member industries. The EOC will coordinate all other civil agency assistance that may be necessary to respond to an emergency. The Hot Line System is to be used in conjunction with existing member industry emergency procedures.

The basic objective is to provide quick, effective and accurate information to the Emergency Operation Center (EOC) and member industries of an impending or actual emergency.

II. SYSTEM DESCRIPTION

A. This system is a private tie line between the Emergency Operation Center located at the St. Charles Parish Courthouse in Hahnville and each member industry. It is a two-way automatic ringing circuit, using South Central Bell equipment located in their Hahnville Exchange Building, and dedicated Bell System cable facilities between all locations. The system can not be accessed by anyone other than member industries and the EOC in Hahnville. It is activated by either the EOC or member industry lifting the handset from their HOT LINE telephone. Ringing voltage will be immediately applied to the called station and a ringing tone will be heard by the calling station. When the called station hears his phone ringing he lifts the handset on his HOT LINE telephone. Ringing will then be discontinued and a message or information can be exchanged at this point. The EOC has the capability to initiate, answer or add any or all of the separate HOT LINES on a conference type call if required. A noticeable transmission loss between member industries on this type call should be expected.

B. The system has a 24 hour monitoring capability with consoles in the following locations:

1. Communications Room of EOC
2. EOC Secretary's Office
3. Sheriff's Office - Radio Dispatcher's Room

C. The attached sketch (Attachment II) shows the basic design and routing of HOT LINE circuits between member industries and the EOC.

III. ADMINISTRATIVE PROCEDURE

A. MEMBERSHIP:

1. Applications are obtained from the EOC Office
2. Applications approved by the Director of Emergency Preparedness are submitted to South Central Bell Marketing Division for processing
3. Survey to be made by Marketing Division and cost of installation and monthly charge proposal submitted to applicant
4. Member Industries will receive a copy of the St. Charles Emergency Preparedness Industrial Hot Line System Procedure Manual and are responsible for their internal personnel training in the operation of the system

B. SYSTEM TEST

1. Each Thursday, beginning at 9:15AM, except holidays
2. EOC or Sheriff's Office will initiate a call to each member industry and each member industry will call back immediately to provide a two-way system test
3. The system conference capability will be tested weekly with random member industries by EOC or Sheriff's Office

IV. OPERATING PROCEDURE

A. SYSTEM USE AUTHORIZATION

The Hot Line System is to be used by authorized personnel of member industries only and solely for emergency communication between said industry and the Emergency Operation Center. Member organizations shall develop internal procedures designating Hot Line usage authorization and responsibility.

B. SYSTEM USAGE GUIDELINES

1. GENERAL

It is intended that the Hot Line System be used for emergency situations in a member organization's facilities which have or are anticipated to have visibility or impact beyond the affected facility's property lines. These situations may include, but are not limited to:

- a. Unusual noises, odors, abnormal and/or extended flaring activity, etc. which may be perceived as atypical by the general public.
- b. Internal emergencies such as fires, explosions, gas or liquid releases, etc. which may be controlled by the affected industry and is unlikely to extend beyond their fence line, but may be visible to the public.
- c. Internal emergencies such as fires, explosions, gas or liquid releases, etc. which may extend beyond the affected industry's facilities.
- d. External emergencies such as hazardous material transportation accidents, pipeline leaks/ruptures, etc.

C. SYSTEM OPERATING PROCEDURE

1. INDUSTRY-TO-EOC

Any situation or emergency meeting the guidelines described in B.1.a.b.c.d above should be promptly reported to EOC, and advised if any assistance is needed. The authorized affected industry representative should clearly advise the EOC of the proper emergency code and appropriate details, utilizing the Emergency Communication Checklist (Attachment III). As a requirement, when the EOC is notified of any incident, the affected industry shall advise the EOC when the condition or emergency has cleared. In the event of a CODE 2 SITE EMERGENCY or CODE 3 GENERAL ALARM, the affected industry should convey to the EOC Director the necessary information, details, and recommendations to assure the proper and appropriate civil agency support is provided.

2. EOC-TO-INDUSTRY

An industry or external emergency of a CODE 2 SITE EMERGENCY or CODE 3 GENERAL-ALARM nature may necessitate the EOC alerting a neighboring, downwind or otherwise potentially affected industry of the nature of the emergency so proper protective measures may be planned and/or initiated. The EOC should provide the necessary details sufficient to assure the proper protective measures can be taken.

3. INDUSTRY-TO-INDUSTRY

The Hot Line System is capable of providing industry-to-industry communications. When an emergency or situation necessitates industry-to-industry communication, the EOC should be requested by the affected industry to contact the requested other industry on the Hot Line conference line. This mode will enable direct, two (or more) way communication between industries and the EOC.

4. EMERGENCY COMMUNICATIONS CODES

The following emergency communication codes should be used when a member industry deems it necessary to use the Hot Line System:

CODE 1 ALERT - Lowest level of priority. A minor emergency or problem such as a fire, explosion, gas or liquid release, unusual noise, unusual odor, abnormal and/or extended flaring activity or other internal event has occurred which may be visible or detectable by offsite people but for which no external action or assistance is necessary. The emergency is under control or expected to be brought under control in a short time.

CODE 2 SITE EMERGENCY - Higher level of priority - standby. A moderate emergency such as a fire, explosion, gas or liquid release, or other event has occurred which affects plant operation and for which protective action for offsite may be necessary. The emergency is not yet under control and may extend or has extended beyond the industry's control. Offsite emergency assistance would be placed in standby condition.

CODE 3 GENERAL ALARM - Highest level of priority - emergency assistance needed. A severe emergency such as a major fire, explosion, gas or liquid release, or other event has occurred which seriously affects plant operation, jeopardizes offsite areas and for which protective actions offsite will be necessary. Emergency offsite assistance would be activated and the affected public and nearby industries would be notified.

5. EMERGENCY COMMUNICATIONS CHECKLIST

Member industries are expected to complete the Emergency Communications Checklist (Attachment III) at the time of an incident to assure clear and accurate information is transmitted to the EOC. This information should be conveyed in the sequence listed on the checklist. Member industries are encouraged to subsequently utilize this completed form as may be needed by internal requirements for documentation.

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V. SYSTEM REPAIR SERVICE

A. REPAIR SERVICE

1. System breakdowns or mechanical difficulties should be promptly reported to the EOC. The EOC will coordinate repairs with South Central Bell. Routine minor repairs or emergency repairs can also be coordinated by the affected member industry by calling the appropriate South Central Bell Repair Service number listed in Attachment I.

B. SYSTEM MODIFICATION

2. Any modification to the Hot Line System must be cleared through the Director of Emergency Preparedness to assure system integrity and reliability are maintained. The EOC Director will coordinate any requests for system changes between the member industry and the appropriate South Central Bell Marketing group.

ST. CHARLES PARISH EMERGENCY PREPAREDNESS/INDUSTRY
HOT LINE SYSTEM

REPAIR SERVICE

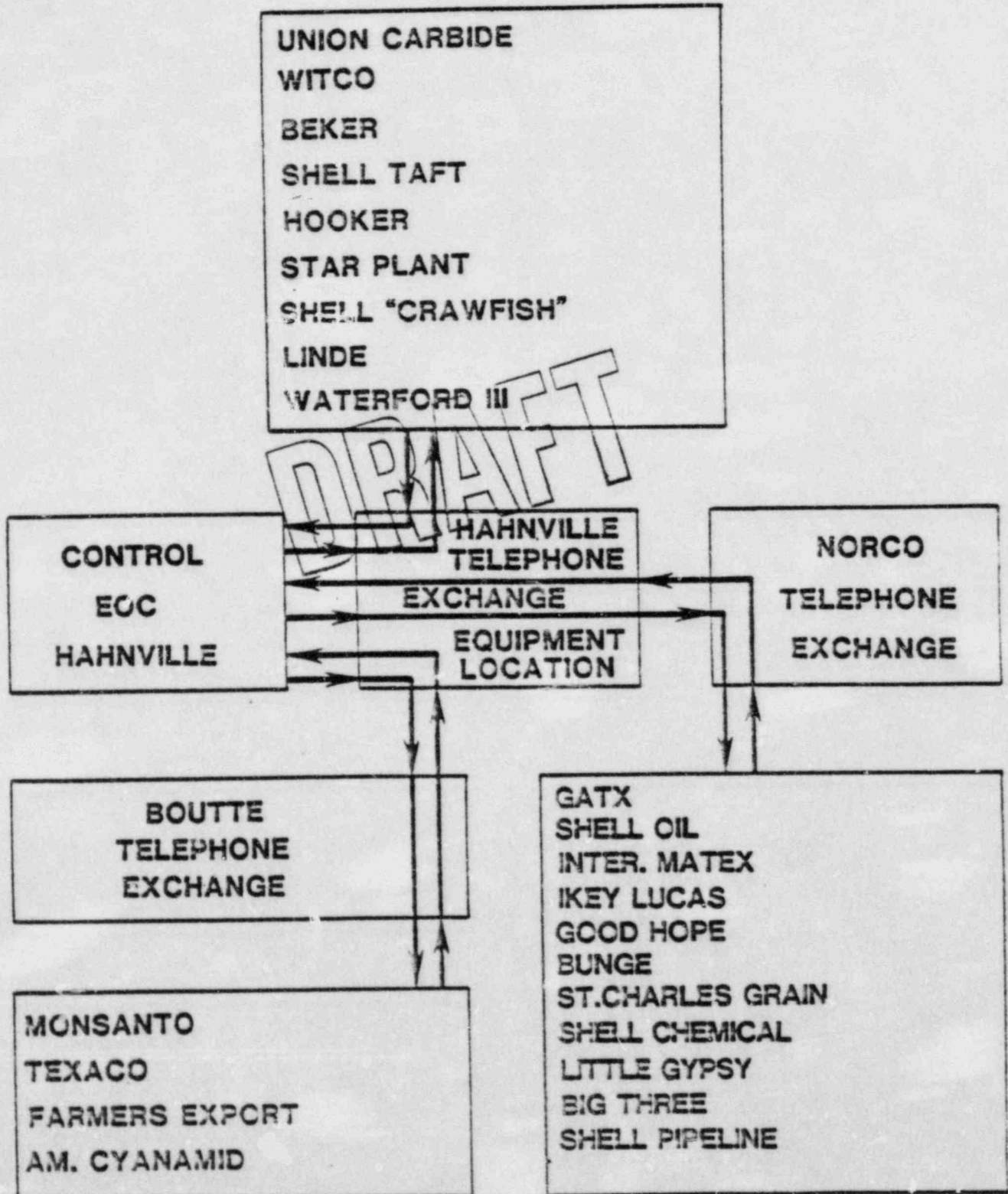
CIRCUIT NO.MEMBER INDUSTRYREPAIR SERVICE NO.

BUNGE CORPORATION
IKEY LUCAS (HOME)
GOOD HOPE REFINERIES
GATX TERMINAL (443-2511)
SHELL OIL (NORCO)
INTERNATIONAL MATEX
ST. CHARLES GRAIN
SHELL CHEMICAL (NORCO)
AMERICAN CYANAMID
FARMERS EXPORT COMPANY
TEXACO
MONSANTO
UNION CARBIDE
WITCO
BEKER
SHELL (TAFT)
HOOKER
UNION CARBIDE STAR PLANT
SHELL "CRAYFISH"
UNION CARBIDE LINDE
WATERFORD III
LITTLE GYPSY
SHELL PIPELINE

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ST.CHARLES PARISH EMERGENCY PREPAREDNESS / INDUSTRIAL HOT LINE SYSTEM

SIMPLIFIED SYSTEM SCHEMATIC





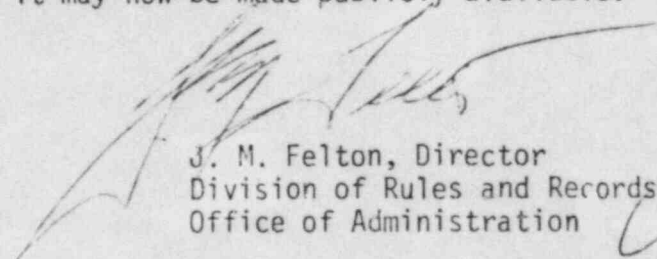
UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

July 17, 1984

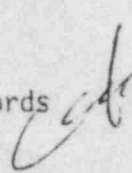
50-382 Waterford

MEMORANDUM FOR: Chief, Document Management Branch, TIDC
FROM: Director, Division of Rules and Records, ADM
SUBJECT: REVIEW OF UTILITY EMERGENCY PLAN DOCUMENTATION

The Division of Rules and Records has reviewed the attached document and has determined that it may now be made publicly available.



J. M. Felton, Director
Division of Rules and Records
Office of Administration



Attachment: As stated