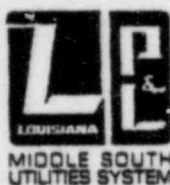


ATTACHMENT 2

PUBLIC COPY

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WATERFORD 3 SES
PLANT OPERATING MANUAL



LOUISIANA
POWER & LIGHT

POM VOLUME 18
POM SECTION 2

EP-1-010
REVISION 5

Emergency Plan Implementing Instruction

Unusual Event

PORC Meeting No. 84-38

Reviewed: [Signature]
PORC Chairman

Approved: [Signature]
Plant Manager-Nuclear

5/18/84
Approval Date

Fuel Load
Effective Date

WATERFORD 3 SES
PLANT OPERATING MANUAL
CHANGE/REVISION/DELETION REQUEST

Procedure No. EP-1-010 Title Unusual Event
Effective Date Fuel Load (if different from approval date)

Complete A, B, or C

- A. Change No. N/A
- B. Revision No. 5
- C. Deletion N/A

REASON FOR CHANGE, REVISION, OR DELETION

To incorporate NRC inspection findings.

REQUIRED SIGNATURES

Originator [Signature] Date 5-16-84
Technical Review N/A Date _____

SAFETY EVALUATION

- | Does this change, revision, or deletion: | YES | NO |
|--|-----|-------------------------------------|
| 1. Change the facility as described in the FSAR? | ___ | <input checked="" type="checkbox"/> |
| 2. Change the procedures as described in the FSAR? | ___ | <input checked="" type="checkbox"/> |
| 3. Conduct tests/experiments not described in the FSAR? | ___ | <input checked="" type="checkbox"/> |
| 4. Create a condition or conduct an operation which exceeds, or could result in exceeding, the limits in Technical Specifications? | ___ | <input checked="" type="checkbox"/> |

If the answer to any of the above is yes, complete and attach a 10 CFR 50.59 Safety Evaluation checklist.

Safety Evaluation [Signature] Date 5/16/84
Group/Dep't. Head Review [Signature] Date 5/16/84

Temporary Approval* _____ Date _____ (NOS)
Temporary Approval* _____ Date _____

QC Review [Signature] Date 5-17-84
PORC Review [Signature] Date 5/17/84 Meeting No. 84-38
Plant Manager-Nuclear Approval N/A Date N/A

*Temporary approval must be followed by Plant Manager-Nuclear approval within 14 days.

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- 1.0 PURPOSE
- 2.0 REFERENCES
- 3.0 RESPONSIBILITIES
- 4.0 INITIATING CONDITIONS
- 5.0 PROCEDURE
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- 7.0 ATTACHMENTS

LIST OF EFFECTIVE PAGES

Title	Revision
1 - 6	Revision 5
7	Revision 3

1.0 PURPOSE

To outline the actions to be taken for an emergency condition at the Unusual Event Level.

NOTE

The normal on-shift complement of personnel is considered sufficient to respond to an Unusual Event. Activation of other LP&L emergency organizations is optional.

2.0 REFERENCES

- 2.1 Waterford 3 SES Emergency Plan
- 2.2 EP-1-001, Recognition and Classification of Emergency Conditions
- 2.3 Emergency Management Resources Book
- 2.4 EP-1-020, Alert
- 2.5 EP-1-030, Site Area Emergency
- 2.6 EP-1-040, General Emergency
- 2.7 EP-2-010, Notifications and Communications
- 2.8 EP-2-031, In-Plant Radiological Controls and Surveys During Emergencies
- 2.9 EP-2-100, Technical Support Center (TSC) Activation, Operation, and Deactivation
- 2.10 EP-2-101, Operational Support Center (OSC) Activation, Operation, and Deactivation
- 2.11 EP-2-150, Emergency Plan Implementing Records
- 2.12 EP-1-003, Fire Emergency/Reports
- 2.13 EP-2-190, Personnel Accountability

3.0 RESPONSIBILITIES

The emergency Coordinator is responsible for ensuring that the actions as outlined in this procedure are carried out. The Shift Supervisor is

the Emergency Coordinator and responsible for implementation of this procedure.

4.0 INITIATING CONDITIONS

This procedure is to be initiated upon reaching the following conditions:

- 4.1 Whenever an Unusual Event is recognized and classified per EP-1-001.
- 4.2 At the direction of the Emergency Coordinator.

5.0 PROCEDURE

- 5.1 Sound the station alarm.
- 5.2 Make the following announcement(s):
 - 5.2.1 "ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL: AN UNUSUAL EVENT HAS BEEN DECLARED DUE TO (announce reason for declaration of Unusual Event). ALL MEMBERS OF THE ON-SHIFT EMERGENCY ORGANIZATION REPORT TO YOUR STATIONS. ALL OTHER PERSONNEL SHOULD CONTINUE WITH THEIR NORMAL DUTIES UNLESS FURTHER INSTRUCTION IS GIVEN. THE MAINTENANCE RADIO FREQUENCY IS NOW DEDICATED FOR EMERGENCY USE ONLY."
 - 5.2.2 If there is a localized emergency announce its type and location and instruct personnel to stand clear of this area (Refer to FP-1-003).
 - 5.2.3 Repeat the announcement(s).

NOTE

If an Unusual Event has been declared, and in the opinion of the SS/EC contacting the Duty Plant Manager will prevent completing the off-site notifications within the 15 minutes required by regulation, the SS/EC shall direct the Emergency Communicator to begin off-site notifications.(5.5).

- 5.3 Make initial contact with the Duty Plant Manager (Refer to the Emergency Management Resources Book).
- 5.3.1 If the Duty Plant Manager cannot be reached, contact any of the alternate Duty Plant Managers (Refer to the Emergency Management Resources Book).
- 5.3.2 Upon contact with the Duty Plant Manager, discuss the following:
- 5.3.2.1 Nature of situation
- 5.3.2.2 Classification
- 5.3.2.3 Action taken or to be taken
- 5.3.2.4 Need to call in additional support personnel
- 5.3.2.5 Advise that the Duty EOF Director be contacted by the Duty Plant Manager.
- 5.3.2.6 Advise that Emergency News Director be contacted by the Duty Plant Manager. (Refer to the Emergency Management Resources Book).
- 5.4 If necessary, activate the on-site Emergency Response Organization by directing the Emergency Communicator to activate the Emergency Pager System in accordance with EP-2-010, Attachment 7.2.

NOTE

If conditions exist that could be hazardous to those personnel reporting to the site, provide instructions for appropriate protective actions including use of alternate routes, activation of backup facilities, etc., as necessary.

-
- 5.5 Complete Attachment 7.5 of EP-2-010, Initial Notification Form, and provide the form and the agencies to be notified to the Emergency Communicator. Direct the Emergency Communicator to commence initial off-site notifications of the appropriate organizations listed below in accordance with EP-2-010:
- 5.5.1 St. Charles Parish Emergency Operations Center (EOC) - Notify with 15 minutes of declaration.
- 5.5.2 St. John the Baptist Parish EOC - Notify within 15 minutes of declaration.

- 5.5.3 Louisiana Nuclear Energy Division (LNED) - Notify within 15 minutes of declaration.
- 5.5.4 Louisiana Office of Emergency Preparedness (LOEP) - Notify within 15 minutes of declaration.
- 5.5.5 Waterford 1 and 2 - Notify with 15 minutes of declaration, but after above notifications.
- 5.5.6 Nuclear Regulatory Commission (NRC) - As soon as possible, but within one hour of declaration.
- 5.5.7 U. S. Coast Guard - As necessary.
- 5.5.8 Missouri Pacific Railroad - As necessary.
- 5.5.9 American Nuclear Insurers (ANI) - As necessary.
- 5.6 Perform facility accountability activities as necessary in accordance with EP-2-190.
- 5.7 As additional information becomes available, update the Emergency Communicator by completing Attachment 7.7 of EP-2-010, Follow-up Notification. Direct the Emergency Communicator to conduct additional updates to off-site agencies in accordance with EP-2-010.
- 5.8 Direct a Health Physics Technician to initiate in-plant radiological controls in accordance with EP-2-031 if a real or potential radiological hazard exists.
- 5.9 Initiate any additional response measures in accordance with applicable emergency procedures listed on Attachment 7.1.
- 5.10 As conditions change, periodically check EP-1-001 to determine whether reclassification is necessary.
 - 5.10.1 If reclassification is necessary, then reclassify the emergency in accordance with EP-1-001 and implement appropriate Implementing Instruction EP-1-020, EP-1-030, or EP-1-040.

NOTE

Ensure the station alarm is sounded before making the announcement that the emergency has been reclassified (see EP-1-020, EP-1-030, or EP-1-040).

5.10.2 If closeout is appropriate, then close out the emergency with a verbal summary to all agencies/personnel as indicated on Attachment 7.13 of EP-2-010 and refer to EP-2-170 to initiate any appropriate recovery activities.

6.0 FINAL CONDITIONS

6.1 The Unusual Event has been closed out with normal station administration resumed and appropriate recovery activities underway or the emergency is reclassified.

7.0 ATTACHMENT

7.1 Procedure Reference for Additional Response Guidelines

PROCEDURE REFERENCE FOR ADDITIONAL RESPONSE GUIDELINES

<u>Topic</u>	<u>Reference</u>
Personnel	EP-2-020, Contaminated Injured/Ill Personnel EP-2-030, Emergency Radiation Exposure Guidelines and Controls EP-2-032, Monitoring and Decontamination EP-2-081, Search and Rescue FP-1-003, First Emergency/Reports UNT-7-018, First Aid and Medical Care
Radiation Releases	EP-2-060, Radiological Field Monitoring
Administration	EP-2-130, Emergency Team Assignments EP-2-140, Reentry EP-2-170, Recovery Emergency Management Resources Book

WATERFORD 3 SES
PLANT OPERATING MANUAL



LOUISIANA
POWER & LIGHT

POM VOLUME 18
POM SECTION 2

EP-1-020
REVISION 5

Emergency Plan Implementing Instruction

Alert

PORC Meeting No. 84-38
Reviewed: [Signature]
PORC Chairman
Approved: [Signature]
Plant Manager-Nuclear

5/18/89
Approval Date

Fuel Load
Effective Date

WATERFORD 3 SES
PLANT OPERATING MANUAL

CHANGE/REVISION/DELETION REQUEST

Procedure No. EP-1-020 Title Alert

Effective Date Fuel Load (if different from approval date)

Complete A, B, or C

A. Change No. N/A

B. Revision No. 5

C. Deletion N/A

REASON FOR CHANGE, REVISION, OR DELETION

To incorporate NRC inspection findings.

REQUIRED SIGNATURES

Originator [Signature] Date 5-16-84

Technical Review N/A Date _____

SAFETY EVALUATION

Does this change, revision, or deletion:

- | | YES | NO |
|--|-----|-------------------------------------|
| 1. Change the facility as described in the FSAR? | — | <input checked="" type="checkbox"/> |
| 2. Change the procedures as described in the FSAR? | — | <input checked="" type="checkbox"/> |
| 3. Conduct tests/experiments not described in the FSAR? | — | <input checked="" type="checkbox"/> |
| 4. Create a condition or conduct an operation which exceeds, or could result in exceeding, the limits in Technical Specifications? | — | <input checked="" type="checkbox"/> |

If the answer to any of the above is yes, complete and attach a 10 CFR 50.59 Safety Evaluation checklist.

Safety Evaluation [Signature] Date 5-16-84

Group/Dep't. Head Review [Signature] Date 5-16-84

Temporary Approval* _____ Date _____ (NOS)

Temporary Approval* _____ Date _____

QC Review [Signature] Date 5-17-84

PORC Review [Signature] Date 5/17/84 Meeting No. 84-38

Plant Manager-Nuclear Approval N/A Date N/A

*Temporary approval must be followed by Plant Manager-Nuclear approval within 14 days.

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7.1 Procedure Reference for Additional Response Guidelines (1 page)

LIST OF EFFECTIVE PAGES

Title	Revision
1-7	Revision 5
8	Revision 4

1.0 PURPOSE

To outline the actions to be taken for an emergency condition at the Alert Level.

2.0 REFERENCES

- 2.1 Waterford 3 SES Emergency Plan
- 2.2 EP-1-001, Recognition and Classification of Emergency Conditions
- 2.3 EP-1-010, Unusual Event
- 2.4 EP-1-030, Site Area Emergency
- 2.5 EP-1-040, General Emergency
- 2.6 EP-2-010, Notifications and Communications
- 2.7 EP-2-031, In-Plant Radiological Controls and Surveys During Emergencies
- 2.8 EP-2-050, Offsite Dose Assessment (Manual)
- 2.9 EP-2-051, Offsite Dose Assessment (Computerized)
- 2.10 EP-2-052, Protective Action Guidelines
- 2.11 EP-2-060, Radiological Field Monitoring
- 2.12 EP-2-100, Technical Support Center (TSC) Activation, Operation, and Deactivation
- 2.13 EP-2-101, Operational Support Center (OSC) Activation, Operation, and Deactivation
- 2.14 EP-2-150, Emergency Plan Implementing Records
- 2.15 Emergency Management Resources Book
- 2.16 EP-2-034, Onsite Surveys During Emergencies
- 2.17 FP-1-003, Fire Emergency/Reports
- 2.18 EP-2-190, Personnel Accountability

- 2.18 UNT-7-018, First Aid and Medical Care
- 2.19 EP-2-071, Site Protective Measures
- 2.20 EP-2-130, Emergency Team Assignments

3.0 RESPONSIBILITIES

The Emergency Coordinator is responsible for ensuring that the actions outlined in this procedure are carried out. The Shift Supervisor is the Emergency Coordinator and responsible for implementation of this procedure until relieved by the Duty Plant Manager.

4.0 INITIATING CONDITIONS

This procedure is to be initiated upon reaching the following conditions:

- 4.1 Whenever an Alert is recognized and classified in accordance with EP-1-001.
- 4.2 At the direction of the Emergency Coordinator.

5.0 PROCEDURE

- 5.1 Sound the station alarm.
- 5.2 Make the following announcement (s):
 - 5.2.1 "ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL: AN ALERT HAS BEEN DECLARED DUE TO (announce reason for declaration of alert). ALL MEMBERS OF THE ON-SITE EMERGENCY RESPONSE ORGANIZATION REPORT TO YOUR STATIONS. ALL OTHER PERSONNEL REPORT TO YOUR WORK STATIONS. (If the emergency is radiation oriented, add: "There will be no smoking, eating or drinking until further notice.") "THE MAINTENANCE RADIO FREQUENCY IS NOW DEDICATED FOR EMERGENCY USE ONLY."

- 5.2.2 If there is a localized emergency announce its type and instruct personnel to stand clear of this area (refer to FP-1-003).
- 5.2.3 Repeat the announcement (s).
- 5.2.4 Consider site protective measures in accordance with EP-2-071.

NOTE

If an Alert has been declared, and in the opinion of the SS/EC contacting the Duty Plant Manager will prevent completing the off-site notifications within the 15 minutes required by regulation, the SS/EC shall direct the Emergency Communicator to begin off-site notifications (5.5).

-
- 5.3 Make initial contact with the Duty Plant Manager (Refer to the Emergency Management Resources Book).
 - 5.3.1 If the Duty Plant Manager cannot be reached, contact any of the alternate Duty Plant Managers (Refer to the Emergency Management Resources Book).
 - 5.3.2 Upon contact with the Duty Plant Manager, discuss the following:
 - 5.3.2.1 Nature of the situation
 - 5.3.2.2 Classification
 - 5.3.2.3 Action taken or to be taken
 - 5.3.2.4 Need to activate emergency response facilities
 - 5.3.2.5 Advise that the Duty Emergency Operations Facility Director be contacted by the Duty Plant Manager.
 - 5.3.2.6 Advise that the Emergency News Director be contacted by the Duty Plant Manager.
 - 5.4 Direct the Emergency Communicator to activate the Emergency Pager System in accordance with Attachment 7.2 of EP-2-010.

NOTE

If conditions exist that could be hazardous to those personnel reporting to the site, provide instructions for appropriate protective actions including use of alternate routes, activation of backup facilities, etc., as necessary.

5.5 Complete Attachment 7.5, Initial Notification Form, or Attachment 7.7, Followup Notification Form as appropriate of EP-2-010 and provide the form and agencies to be notified to the Emergency Communicator. Direct the Emergency Communicator to commence initial off-site notifications of the appropriate organizations listed below in accordance with EP-2-010.

- 5.5.1 St. Charles Parish Emergency Operations Center (EOC) - Notify within 15 minutes of declaration.
- 5.5.2 St. John the Baptist Parish EOC - Notify within 15 minutes of declaration.
- 5.5.3 Louisiana Nuclear Energy Division (LNED) - Notify within 15 minutes of declaration.
- 5.5.4 Louisiana Office of Emergency Preparedness (LOEP) - Notify within 15 minutes of declaration.
- 5.5.5 Waterford 1 and 2 - Notify within 15 minutes of declaration, but after above notifications.
- 5.5.6 Nuclear Regulatory Commission (NRC) - Notify as soon as possible, but within one hour of declaration.
- 5.5.7 Middle South Utilities - As soon as possible.
- 5.5.8 Institute of Nuclear Power Operations (INPO) - As soon as possible.
- 5.5.9 U.S. Coast Guard - As necessary.
- 5.5.10 Missouri Pacific Railroad - As necessary.
- 5.5.11 American Nuclear Insurers (ANI) - As necessary.

- 5.6 Ensure initial (If not already performed due to site evacuation) and continuous accountability activities are performed in accordance with EP-2-190.
- 5.7 As additional information becomes available, update the Emergency Communicator by completing Attachment 7.7, Follow-up Notification, of EP-2-010. Direct the Emergency Communicator to conduct additional updates to offsite agencies in accordance with EP-2-010.
- 5.8 Initiate off-site dose assessment in accordance with EP-2-050 for manual assessment or EP-2-051 for computerized assessment. Determine the need for protective action recommendations in accordance with EP-2-052, Protective Action Guidelines.
- 5.9 If radiological releases are occurring, instruct the Health Physics Coordinator to activate Radiological Field Monitoring Teams in accordance with EP-2-130 and EP-2-060.
- 5.10 Initiate activation of the Technical Support Center in accordance with EP-2-100.
- 5.11 Initiate activation of the Operations Support Center in accordance with EP-2-101.
- 5.12 Direct the Health Physics Coordinator and/or the Radiological Controls Coordinators to initiate in-plant radiological controls in accordance with EP-2-031 if a potential radiological hazard exists and to perform on-site surveys as necessary in accordance with EP-2-034.
- 5.13 Ensure that emergency logs/records are kept in accordance with EP-2-150.
- 5.14 Initiate any additional response measures in accordance with the applicable emergency procedures listed on Attachment 7.1.
- 5.15 As conditions change, periodically check EP-1-001 to determine whether reclassification is necessary.

- 5.15.1 If reclassification is necessary, then reclassify emergency in accordance with EP-1-001 and implement the appropriate Emergency Plan Implementing Instruction: EP-1-010, EP-1-030 or EP-1-040.

NOTE

Ensure the station alarm is sounded prior to making the announcement that the emergency has been reclassified - whether it is an increase or decrease in classification. (See EP-1-010, EP-1-030 or EP-1-040).

on Attachment 7.13 of EP-2-010 and implement EP-2-170 to initiate recovery activities.

6.0 FINAL CONDITIONS

- 6.1 The Alert has been closed out with normal station administration resumed and recovery activities initiated in accordance with EP-2-170 or the emergency is reclassified.

7.0 ATTACHMENTS

- 7.1 Procedure Reference for Additional Response Guidelines

PROCEDURE REFERENCE FOR ADDITIONAL RESPONSE GUIDELINES

<u>Topic</u>	<u>Reference</u>
Personnel	EP-2-020, Contaminated Injured/Ill Personnel
	EP-2-030, Emergency Radiation Exposure Guidelines and Controls
	EP-2-032, Monitoring and Decontamination
	EP-2-081, Search and Rescue
	FP-1-003, Fire Emergency/Reports
	UNT-7-018, First Aid and Medical Care
Adminstration	EP-2-130, Emergency Team Assignments
	EP-2-140, Reentry
	EP-2-170, Recovery
	Emergency Management Resources Book

WATERFORD 3 SES
PLANT OPERATING MANUAL



LOUISIANA
POWER & LIGHT

POM VOLUME 18
POM SECTION 2

EP-1-030
REVISION 5

Emergency Plan Implementing Instruction

Site Area Emergency

PORC Meeting No. 84-38

Reviewed:

[Signature]
PORC Chairman

Approved:

[Signature]
Plant Manager-Nuclear

5/18/84
Approval Date

Fuel Load
Effective Date

WATERFORD 3 SES
PLANT OPERATING MANUAL

CHANGE/REVISION/DELETION REQUEST

Procedure No. EP-1-030 Title Site Area Emergency
Effective Date Fuel Load (if different from approval date)

Complete A, B, or C

- A. Change No. N/A
B. Revision No. 5
C. Deletion N/A

REASON FOR CHANGE, REVISION, OR DELETION

To incorporate NRC inspection findings.

REQUIRED SIGNATURES

Originator [Signature] Date 5-16-84
Technical Review N/A Date _____

SAFETY EVALUATION

Does this change, revision, or deletion:

YES NO

1. Change the facility as described in the FSAR? ✓
2. Change the procedures as described in the FSAR? ✓
3. Conduct tests/experiments not described in the FSAR? ✓
4. Create a condition or conduct an operation which exceeds, or could result in exceeding, the limits in Technical Specifications? ✓

If the answer to any of the above is yes, complete and attach a 10 CFR 50.59 Safety Evaluation checklist.

Safety Evaluation [Signature] Date 5-16-84
Group/Dep't. Head Review [Signature] Date 5-16-84

Temporary Approval* _____ Date _____ (NOS)

Temporary Approval* _____ Date _____

QC Review [Signature] Date 5-17-84

PORC Review [Signature] Date 5/17/84 Meeting No. 84-38

Plant Manager-Nuclear Approval N/A Date N/A

*Temporary approval must be followed by Plant Manager-Nuclear approval within 14 days.

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 7.1 Procedure Reference for Additional Response Guidelines (1 page)

LIST OF EFFECTIVE PAGES

Title	Revision
1-8	Revision 5
9	Revision 3

1.0 PURPOSE

To outline the actions to be taken for an emergency condition at the Site Area Emergency level.

2.0 REFERENCES

- 2.1 Waterford 3 SES Emergency Plan
- 2.2 EP-1-001, Recognition and Classification of Emergency Conditions
- 2.3 Emergency Management Resources Book
- 2.4 EP-1-010, Unusual Event
- 2.5 EP-1-020, Alert
- 2.6 EP-1-040, General Emergency
- 2.7 EP-2-010, Notifications and Communications
- 2.8 EP-2-031, In-Plant Radiological Controls and Surveys During Emergencies
- 2.9 EP-2-050, Offsite Dose Assessment (Manual)
- 2.10 EP-2-051, Offsite Dose Assessment (Computerized)
- 2.11 EP-2-060, Radiological Field Monitoring
- 2.12 EP-2-071, Site Protective Measures
- 2.13 EP-2-100, Technical Support Center (TSC) Activation, Operation, and Deactivation
- 2.14 EP-2-101, Operational Support Center (OSC) Activation, Operation and Deactivation
- 2.15 EP-2-150, Emergency Plan Implementing Records
- 2.16 EP-2-052, Protective Action Guidelines
- 2.17 EP-2-130, Emergency Team Assignments
- 2.18 EP-2-034, Onsite Surveys During Emergencies
- 2.19 EP-1-003, Fire Emergency/Reports
- 2.20 UNT-7-018, First Aid and Medical Care
- 2.21 EP-2-190, Personnel Accountability
- 2.22 PS-16-103, Accountability of Personnel During Emergencies

3.0 RESPONSIBILITIES

The Emergency Coordinator is responsible for ensuring that the actions as outlined in this procedure are carried out. The Shift Supervisor is the Emergency Coordinator and is responsible for implementation of this procedure until relieved by the Duty Plant Manager.

4.0 INITIATING CONDITIONS

This procedure is to be initiated upon reaching the following conditions:

- 4.1 Whenever a Site Area Emergency is recognized and classified in accordance with EP-1-001.
- 4.2 At the direction of the Emergency Coordinator.

5.0 PROCEDURE

5.1 SITE EVACUATION

- 5.1.1 Select the off-site assembly area to be used: Monsanto Park, Luling or St. John the Baptist Catholic Church, Edgard.
- 5.1.2 Notify the Security Shift Supervisor to prepare for evacuation of the site.
- 5.1.3 Dispatch the Off-site Assembly Area Supervisor.
- 5.1.4 Ensure that a Health Physics technician is dispatched to the off-site assembly area.
- 5.1.5 Sound the station alarm.
- 5.1.6 Make the following announcement:
"ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL: A SITE AREA EMERGENCY HAS BEEN DECLARED DUE TO (announce reason for declaration of Site Area Emergency). ALL MEMBERS OF THE EMERGENCY ORGANIZATION REPORT TO YOUR STATIONS. DUE TO PLANT CONDITIONS, ALL NONESSENTIAL PERSONNEL MUST PROCEED IMMEDIATELY TO THE (state one of the locations: ST. JOHN THE BAPTIST CATHOLIC

OR MONSANTO PARK AREA). UPON ARRIVAL, ALL PERSONNEL LOG IN WITH THE ASSEMBLY AREA SUPERVISOR. PERSONNEL IN RADIATION-CONTROLLED AREAS PROCEED TO THE HEALTH PHYSICS CONTROL POINT. THERE WILL BE NO SMOKING, EATING, OR DRINKING UNTIL FURTHER NOTICE. THE MAINTENANCE RADIO FREQUENCY IS NOW DEDICATED FOR EMERGENCY USE ONLY."

5.1.6.1 Repeat the announcement.

5.1.7 Make the following notifications in accordance with the notification procedures in EP-2-010.

5.1.7.1 Notify Waterford 1 & 2 to evacuate non-essential personnel.

NOTE

Waterford 1 & 2 personnel are not required to assemble at Waterford 3 assembly areas, but the Emergency Coordinator shall provide direction to Waterford 1 & 2 as to what evacuation routes to take.

5.1.7.2 Notify St. John the Baptist and St. Charles parishes for vehicular traffic control.

5.1.7.3 Notify the United States Coast Guard to control Exclusion Area river traffic.

5.1.7.4 Notify the Missouri Pacific Railroad to Control Exclusion Area rail traffic.

5.1.8 Ensure accountability and evacuation verification activities are performed in accordance with EP-2-190 and PS-16-103.

NOTE

If a Site Area Emergency has been declared, and in the opinion of the SS/EC contacting the Duty Plant Manager will prevent completing the off-site notifications within the 15 minutes required by regulation, the SS/EC shall direct the Emergency Communicator to begin off-site notifications (5.4).

5.2 Make initial contact with the Duty Plant Manager.

NOTE

See Emergency Management Resources
Book for names and phone numbers.

- 5.2.1 If the Duty Plant Manager cannot be reached, contact any of the alternate Duty Plant Managers.
- 5.2.2 Upon contact with the Duty Plant Manager, discuss the following:
- 5.2.2.1 Nature of situation
 - 5.2.2.2 Classification
 - 5.2.2.3 Action taken or to be taken
 - 5.2.2.4 Need to activate emergency response facilities
 - 5.2.2.5 Advise that the Duty EOF Director be contacted.
- 5.3 Direct the Emergency Communicator to activate the Emergency Pager System in accordance with EP-2-010.
-

NOTE

If conditions exist that could be hazardous to those personnel reporting to the site, provide instructions for appropriate protective actions including use of alternative routes, activation of backup facilities, etc., as necessary.

- 5.4 Complete Attachment 7.5, Initial Notification Form, or Attachment 7.7, Followup notification form as appropriate of EP-2-010, and provide the form and the agencies to be notified to the Emergency Communicator. Direct that the Emergency Communicator commence initial off-site notification of the appropriate organizations listed below in accordance with EP-2-010:
- 5.4.1 St. Charles Parish Emergency Operations Center (EOC)-notify within 15 minutes of declaration.
 - 5.4.2 St. John the Baptist Parish EOC-notify within 15 minutes of declaration.
 - 5.4.3 Louisiana Nuclear Energy Division (LNED)-notify within 15 minutes of declaration.
 - 5.4.4 Louisiana Office of Emergency Preparedness (LOEP)-notify within 15 minutes of declaration.
 - 5.4.5 Waterford 1 and 2-notify within 15 minutes of declaration, but after above notifications.
 - 5.4.6 Nuclear Regulatory Commission (NRC)-notify as soon as possible, but within one hour of declaration.
 - 5.4.7 Middle South Utilities - as soon as possible.
 - 5.4.8 Institute of Nuclear Power Operations (INPO) - as soon as possible.
 - 5.4.9 U.S. Coast Guard - as necessary.
 - 5.4.10 Missouri Pacific Railroad - as necessary.
 - 5.4.11 American Nuclear Insurers (ANI) - as necessary.
- 5.5 Ensure continuous accountability activities are performed in accordance with EP-2-190.
- 5.6 As additional information becomes available, update the Emergency Communicator by completing Attachment 7.7, Follow-up Notification, of EP-2-010. Direct the Emergency Communicator to conduct additional updates to off-site agencies per EP-2-010.

- 5.7 Initiate off-site dose assessment in accordance with EP-2-050 for manual assessment or EP-2-051 for computerized assessment. Determine the need for protective action recommendations per EP-2-052, Protective Action Guidelines.
- 5.8 If radioactive releases are occurring or anticipated, instruct the Health Physics Coordinator to activate Radiological Field Monitoring Teams in accordance with EP-2-130 and EP-2-060.
- 5.9 Initiate activation of the Technical Support Center in accordance with EP-2-100, if not previously activated.
- 5.10 Ensure that emergency logs/records are kept in accordance with EP-2-150.
- 5.11 Direct the Health Physics Coordinator and/or the Radiological Controls Coordinator to initiate in-plant radiological controls in accordance with EP-2-031 if a real or potential radiological hazard exists and to perform on-site surveys as necessary in accordance with EP-2-034.
- 5.12 Initiate any additional response measures in accordance with the applicable emergency procedures listed in Attachment 7.1.
- 5.13 As conditions change, periodically check EP-1-001 to determine whether reclassification is necessary.
- 5.13.1 If reclassification is necessary, then reclassify emergency according to EP-1-001 and implement appropriate Implementing Instruction EP-1-010, EP-1-020 or EP-1-040.

NOTE

Ensure the station alarm is sounded prior to making the announcement that the emergency has been reclassified - whether it is an increase or decrease in classification. (See EP-1-010, EP-1-020 or EP-1-040).

5.13.2 If closeout is appropriate, then close out emergency with a verbal summary to all agencies/personnel as indicated on Attachment 7.13 of EP-2-010 and implement EP-2-170 to initiate recovery activities.

6.0 FINAL CONDITIONS

6.1 The Site Area Emergency has been closed out with normal station administration resumed and recovery activities initiated in accordance with EP-2-170 or the emergency reclassified.

7.0 ATTACHMENTS

7.1 Procedure References for Additional Response Guidelines

PROCEDURE REFERENCES FOR ADDITIONAL RESPONSE GUIDELINES

Topic

References

Personnel

EP-2-020, Contaminated Injured/Ill Personnel
EP-2-030, Emergency Radiation Exposure
Guidelines and Controls
EP-2-032, Monitoring and Decontamination
EP-2-033, Administration of Iodine Blocking Agents
EP-2-052, Protective Action Guidelines
EP-2-071, Site Protective Measures
EP-2-081, Search and Rescue

Administration

EP-2-130, Emergency Team Assignments
EP-2-140, Reentry
EP-2-170, Recovery
Emergency Management Resources Book

WATERFORD 3 SES
PLANT OPERATING MANUAL



LOUISIANA
POWER & LIGHT

POM VOLUME 18
POM SECTION 2

EP-1-040
REVISION 5

Emergency Plan Implementing Instruction

General Emergency

PORC Meeting No. 84-38

Reviewed: *[Signature]*
PORC Chairman

Approved: *[Signature]*
Plant Manager-Nuclear

5/18/84
Approval Date

Fuel Load
Effective Date

WATERFORD 3 SES
PLANT OPERATING MANUAL

CHANGE/REVISION/DELETION REQUEST

Procedure No. EP-1-040 Title General Emergency

Effective Date Fuel Load (if different from approval date)

Complete A, B, or C

A. Change No. N/A

B. Revision No. 5

C. Deletion N/A

REASON FOR CHANGE, REVISION, OR DELETION

To incorporate NRC inspection findings.

REQUIRED SIGNATURES

Originator [Signature] Date 5-16-84

Technical Review N/A [Signature] Date _____

SAFETY EVALUATION

Does this change, revision, or deletion:	YES	NO
1. Change the facility as described in the FSAR?	—	<u>✓</u>
2. Change the procedures as described in the FSAR?	—	<u>✓</u>
3. Conduct tests/experiments not described in the FSAR?	—	<u>✓</u>
4. Create a condition or conduct an operation which exceeds, or could result in exceeding, the limits in Technical Specifications?	—	<u>✓</u>

If the answer to any of the above is yes, complete and attach a 10 CFR 50.59 Safety Evaluation checklist.

Safety Evaluation [Signature] Date 5-16-84

Group/Dep't. Head Review [Signature] Date 5-16-84

Temporary Approval* _____ Date _____ (NOS)

Temporary Approval* _____ Date _____

QC Review [Signature] Date 5-17-84

PORC Review [Signature] Date 5/17/84 Meeting No. 84-38

Plant Manager-Nuclear Approval N/A Date N/A

*Temporary approval must be followed by Plant Manager-Nuclear approval within 14 days.

TABLE OF CONTENTS

1.0 PURPOSE
2.0 REFERENCES
3.0 RESPONSIBILITIES
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5.0 PROCEDURE
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7.0 ATTACHMENTS
 7.1 Procedure References for Additional Response Guidelines
 (1 page)

LIST OF EFFECTIVE PAGES

Title	Revision
1 - 8	Revision 5
9	Revision 3

1.0 PURPOSE

To outline the actions to be taken for an emergency condition at the General Emergency level.

2.0 REFERENCES

- 2.1 Waterford 3 SES Emergency Plan
- 2.2 EP-1-001, Recognition and Classification of Emergency Conditions
- 2.3 Emergency Management Resources Book
- 2.4 EP-1-010, Unusual Event
- 2.5 EP-1-020, Alert
- 2.6 EP-1-030, Site Area Emergency
- 2.7 EP-2-010, Notifications and Communications
- 2.8 EP-2-031, In-Plant Radiological Controls and Surveys During Emergencies
- 2.9 EP-2-050, Offsite Dose Assessment (Manual)
- 2.10 EP-2-051, Offsite Dose Assessment (Computerized)
- 2.11 EP-2-052, Protective Action Guidelines
- 2.12 EP-2-060, Radiological Field Monitoring
- 2.13 EP-2-071, Site Protective Measures
- 2.14 EP-2-100, Technical Support Center (TSC) Activation, Operation, and Deactivation
- 2.15 EP-2-101, Operational Support Center (OSC) Activation, Operation, and Deactivation

- 2.16 EP-2-150, Emergency Plan Implementing Records
- 2.17 EP-2-034, Onsite Surveys During Emergencies
- 2.18 FP-1-003, Fire Emergency/Reports
- 2.19 UNT-7-018, First Aid and Medical Care
- 2.20 EP-2-190, Personnel Accountability
- 2.21 PS-16-103, Accountability of Personnel During Emergency

3.0 RESPONSIBILITIES

The Emergency Coordinator is responsible for ensuring that the actions as outlined in this procedure are carried out. The Shift Supervisor is the Emergency Coordinator and responsible for implementation of this procedure until relieved by the Duty Plant Manager

4.0 INITIATING CONDITIONS

This procedure is to be initiated upon reaching the following conditions:

- 4.1 Whenever a General Emergency is recognized and classified per EP-1-001.
- 4.2 At the direction of the Emergency Coordinator.

5.0 PROCEDURE

5.1 Initiate a Site Evacuation, if not previously initiated:

- 5.1.1 Select the Off-site Assembly Area to be used. Monsanto Park, Luling or St. John the Baptist Catholic Church, Edgard.
 - 5.1.2 Notify the Security Shift Supervisor to prepare for the evacuation of the site.
 - 5.1.3 Dispatch the Off-site Assembly Area Supervisor.
 - 5.1.4 Ensure that a Health Physics technician is dispatched to the Off-site Assembly Area.
 - 5.1.5 Sound the station alarm.
- 5.2 Make the following announcement(s):

- 5.2.1 "ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL: A GENERAL EMERGENCY HAS BEEN DECLARED DUE TO (announce reason for declaration of General Emergency). ALL MEMBERS OF THE EMERGENCY ORGANIZATION REPORT TO YOUR STATIONS. DUE TO PLANT CONDITIONS ALL NONESSENTIAL PERSONNEL MUST PROCEED IMMEDIATELY TO THE (state one of the locations: St. John the Baptist Catholic Church or Monsanto Park area.) UPON ARRIVAL, ALL PERSONNEL LOG IN WITH THE ASSEMBLY AREA SUPERVISOR. PERSONNEL IN RADIATION CONTROLLED AREAS PROCEED TO THE HEALTH PHYSICS CONTROL POINT. THERE WILL BE NO SMOKING, EATING, OR DRINKING UNTIL FURTHER NOTICE. THE MAINTENANCE RADIO FREQUENCY IS NOW DEDICATED FOR EMERGENCY USE ONLY."
- 5.2.2 If there is a localized emergency (e.g., fire), announce its type and location and instruct personnel to stand clear of this area (refer to FP-1-003).
- 5.2.3 Repeat the announcement(s).
- 5.2.4 Make the following notifications in accordance with the notification procedures in EP-2-010.
- 5.2.4.1 Notify Waterford 1 & 2 to evacuate non-essential personnel.

NOTE

Waterford 1 & 2 personnel are not required to assemble at Waterford 3 assembly areas, but the Emergency Coordinator shall provide direction to Waterford 1 & 2 as to what evacuation routes to take.

- 5.2.4.2 Notify St. John the Baptist and St. Charles parishes for vehicular traffic control.
- 5.2.4.3 Notify the United States Coast Guard to control Exclusion Area river traffic.
- 5.2.4.4 Notify the Missouri Pacific Railroad to Control Exclusion Area rail traffic.
- 5.2.5 Ensure accountability and evacuation verification activities are performed in accordance with EP-2-190 and PS-16-103.

NOTE

If a General Emergency has been declared, and in the opinion of the SS/EC contacting the Duty Plant Manager will prevent completing the off-site notifications within the 15 minutes required by regulation, the SS/EC shall direct the Emergency Communicator to begin off-site notifications (5.5).

- 5.3 Make initial contact with the Duty Plant Manager.

NOTE

See Emergency Management Resources Book for names and phone numbers.

- 5.3.1 If the Duty Plant Manager cannot be reached, contact any of the alternate Duty Plant Managers.
- 5.3.2 Upon contact with the Duty Plant Manager, discuss the following:
 - 5.3.2.1 Nature of the situation
 - 5.3.2.2 Classification
 - 5.3.2.3 Action taken or to be taken
 - 5.3.2.4 Need to activate emergency response facilities

- 5.3.2.5 Advise the Emergency Operations Facility Director be contacted by the Duty Plant Manager.
- 5.4 Direct the Emergency Communicator to activate the Emergency Pager System in accordance with EP-2-010.

NOTE

If conditions exist that could be hazardous to those personnel reporting to the site, provide instructions for appropriate protective actions including use of alternative routes, activation of backup facilities, etc., as necessary

- 5.5 Complete Attachment 7.5, Initial Notification Form, or Attachment 7.7, Followup Notification Form as appropriate of EP-2-010, and provide the form and the agencies to be notified to the Emergency Communicator. Direct that the Emergency Communicator commence initial off-site notifications of the appropriate organizations listed below in accordance with EP-2-010:
- 5.5.1 St. Charles Parish Emergency Operations Center (EOC) - Notify within 15 minutes of declaration.
- 5.5.2 St. John the Baptist Parish EOC - Notify within 15 minutes of declaration.
- 5.5.3 Louisiana Nuclear Energy Division (LNED) - Notify within 15 minutes of declaration.
- 5.5.4 Louisiana Office of Emergency Preparedness (LOEP) - Notify within 15 minutes of declaration.
- 5.5.5 Waterford 1 & 2 - Notify within 15 minutes of declaration, but after above notifications.
- 5.5.6 Nuclear Regulatory Commission (NRC) - As soon as possible, but within one hour of declaration.
- 5.5.7 Middle South Utilities - as soon as possible.
- 5.5.8 Institute of Nuclear Power Operations (INPO) - as soon as possible.

- 5.5.9 U. S. Coast Guard - as necessary
- 5.5.10 Missouri Pacific Railroad - as necessary
- 5.5.11 American Nuclear Insurers (ANI) - as necessary
- 5.6 Ensure continuous accountability activities are performed in accordance with EP-2-190.
- 5.7 As additional information becomes available, update the Emergency Communicator by completing Attachment 7.7, Follow-Up Notification, of EP-2-010. Direct the Emergency Communicator to conduct additional updates to off-site agencies in accordance with EP-2-010.
- 5.8 Initiate off-site dose assessment in accordance with EP-2-050 for manual assessment or EP-2-051 for computerized assessment. Determine protective action recommendations in accordance with EP-2-052, Protective Action Guidelines.
- 5.9 If radiological releases are occurring or anticipated, instruct the Health Physics Coordinator to activate Radiological Field Monitoring Teams in accordance with EP-2-130 and EP-2-060.
- 5.10 Initiate activation of the Technical Support Center in accordance with EP-2-100, if not previously activated.
- 5.11 Initiate activation of the Operational Support Center in accordance with EP-2-101, if not previously activated.
- 5.12 Ensure that emergency logs/records are kept in accordance with EP-2-150.
- 5.13 Direct the Health Physics Coordinator and/or the Radiological Controls Coordinator to initiate in-plant radiological controls in accordance with EP-2-031 if a real or potential radiological hazard exists and to perform on-site surveys as necessary in accordance with EP-2-034.
- 5.14 Initiate any additional response measures in accordance with emergency procedures listed in Attachment 7.1.
- 5.15 As conditions change, periodically check EP-1-001 to determine whether reclassification is necessary.
 - 5.15.1 If reclassification is necessary, then reclassify the emergency in accordance with EP-1-001 and implement appropriate Implementing Instruction EP-1-010, EP-1-020, or EP-1-030.

NOTE

Ensure the station alarm is sounded prior to making the announcement that the emergency has been reclassified - whether it is an increase or decrease in classification (see EP-1-010, EP-1-020, or EP-1-030).

5.15.2 If closeout is appropriate, then close out the emergency with a verbal summary to all agencies/personnel as indicated on Attachment 7.13 of EP-2-010 and implement EP-2-170 to initiate recovery activities.

6.0 FINAL CONDITIONS

6.1 The General Emergency has been closed out with normal station administration resumed and recovery activities initiated in accordance with EP-2-170 or the emergency reclassified.

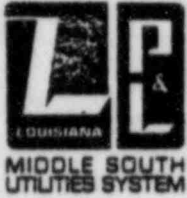
7.0 ATTACHMENTS

7.1 Procedure References for Additional Response Guidelines.

PROCEDURE REFERENCES FOR ADDITIONAL RESPONSE GUIDELINES

<u>Topic</u>	<u>References</u>
Personnel	EP-2-020, Contaminated Injured/Ill Personnel EP-2-030, Emergency Radiation Exposure Guidelines and Controls EP-2-032, Monitoring and Decontamination EP-2-033, Administration of Iodine Blocking Agents EP-2-071, Site Protective Measures EP-2-081, Search and Rescue
Administration	EP-2-130, Emergency Team Assignments EP-2-140, Reentry EP-2-170, Recovery Emergency Management Resources Book

WATERFORD 3 SES PLANT OPERATING MANUAL



LOUISIANA
POWER & LIGHT

POM VOLUME 18
POM SECTION 4

EP-4-010
REVISION 0

EMERGENCY PLAN IMPLEMENTING PROCEDURE
TOXIC CHEMICAL CONTINGENCY PROCEDURE

PORC Meeting No. 84-33

Reviewed: S.A. Allen
PORC Chairman

Approved: R. Barkhurst
Plant Manager-Nuclear

5/31/89
Approval Date

Effective Date

REVIEW COVER SHEET

REVIEW OF: EP-4-010 TOXIC CHEMICAL CONTINGENCY PROCEDURE REV.0.

NOTE: (Incorporation of PM-N Comments)

PORC REVIEW

The PORC has reviewed this item and determined that a safety evaluation was performed (as applicable), that an unreviewed safety question does not exist (as applicable), that a change to the Technical Specifications is not required, and that nuclear safety is/was not adversely affected.

ORDER OF REVIEW	PORC MEMBER	PORC MEMBER SIGNATURE	RECOMMENDED FOR APPROVAL		DATE
			YES	NO	
	Maintenance Superintendent	<i>J. McShane Jr.</i>	✓		5/29/84
	Operations Superintendent	<i>Ken W. Miles</i>	✓		5-29-84
	Radiation Protection Superintendent				
	Plant Quality Manager	<i>J. Woods</i>	✓		5-29-84
	Technical Support Superintendent	<i>Superintendant</i>	✓		5-29-84
	Assistant Plant Manager				
	PORC Chairman	<i>J. A. Allen</i>	✓		5-29-84

PORC Meeting No. 84-42 Item No. 1-B Date: 5/29/84

This item is recommended for approval? YES NO

This item requires SRC/NRC review prior to implementation? YES NO

If yes, ensure documentation supporting review is attached.

This item requires QA review prior to implementation? YES NO

QA REVIEW

Reviewed by H/A DATE H/A
Corporate QA Manager

PLANT MANAGER-NUCLEAR APPROVAL

Comments: _____

Approved by RB Burchard DATE 5/31/84
Plant Manger-Nuclear

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- 1.0 PURPOSE
- 2.0 REFERENCES
- 3.0 RESPONSIBILITIES
- 4.0 INITIATING CONDITIONS
- 5.0 PROCEDURE (TAB A)
 - 5.1 Procedure OP-901-047, Toxic Chemical Release
 - 5.2 Information Source Determination
 - 5.3 TAB B - Hazard Potential Determination
 - 5.4 TAB C - Protective Response Evaluation
 - 5.5 TAB D - STANDBY
 - 5.6 TAB E - STAFF REDUCTION
 - 5.7 TAB F - SITE EVACUATION
 - 5.8 TAB G - SHELTER
 - 5.9 Recovery
- 6.0 FINAL CONDITIONS

7.0 ATTACHMENTS

7.1 TOXIC CHEMICAL EVALUATION PACKAGE

- St. Charles Parish Emergency Preparedness/Industrial Hot Line System Emergency Communications Checklist
- Toxic Chemical Protective Action Worksheet
- Plume Travel Time Nomogram (Initial Determination)
- Subsequent Calculations Work Sheet

7.2 Definitions

7.3 W3 SES Site Map

7.4 W3 SES Five Mile Map

7.5 Major Industrial Properties Within 10 Miles of W3SES

7.6 Current Louisiana Department of Public Safety Office of State Police Hazardous Materials Unit - Toxic Substances Emergency Plan (Partial)

7.7 Table of Common Chemical Characteristics

7.8 Essential Personnel Shift Staffing Requirements

LIST OF EFFECTIVE PAGES

Title	Revision 0
Page 1-55	Revision 0

LIST OF PAGES CONTAINING PROPRIETARY
OR PRIVATE INFORMATION

8-19
26
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34-36

1.0 PURPOSE

This procedure provides guidance to operations personnel during a toxic chemical release on or off site which may affect the operation of the plant, and/or the safety of station personnel. The procedure is designed to allow for an increasing response for a deteriorating off-site situation, while limiting the number of procedures required to mitigate the on-site consequences.

2.0 REFERENCES

- 2.1 OP-901-047, Toxic Chemical Release
- 2.2 DOT P 5800.2, Hazardous Material Emergency Response Guidebook
- 2.3 Waterford 3 SES Final Safety Analysis Report
- 2.4 Emergency Management Resources Book
- 2.5 PS-16-103, Accountability During Emergencies
- 2.6 EP-2-010, Notifications and Communications
- 2.7 EP-2-150, Emergency Implementing Records
- 2.8 EP-2-190, Personnel Accountability
- 2.9 St. Charles Parish Emergency Preparedness/Industrial Hotline System Operating Procedure Manual
- 2.10 NIOSH/OSHA Pocket Guide To Chemical Hazards
- 2.11 Materials Safety Data Sheets
- 2.12 EP-4-020, Backup EOF Activation, Operation, and Deactivation During A Toxic Chemical Emergency
- 2.13 US NRC Regulatory Guide 1.78, Assumptions For Evaluating the Habitability of a Nuclear Power Plant Control Room During a Postulated Hazardous Chemical Release
- 2.14 EP-4-015, Off-Site Personnel Staging During A Toxic Chemical Emergency
- 2.15 Waterford 3 SES Technical Specifications
- 2.16 EP-3-020, Emergency Preparedness Drills and Exercises

3.0 RESPONSIBILITIES

3.1 The Shift Supervisor 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 Informing the Louisiana Department of Public Safety Office of State Police Hazardous Material Unit in the event of an on-site toxic chemical release as per Attachment 7.6.

3.2 The Duty Plant Manager is responsible for contacting and apprising the Duty EOF Director of impacting emergency events occurring near Waterford 3 SES, and requesting the activation of the Backup EOF facility. The Duty Plant Manager will assume the role and responsibilities of Emergency Coordinator (EC) upon receiving a proper turnover from the Shift Supervisor.

3.3 The Duty EOF Director is responsible for calling out and assembling his staff as per EP-4-020.

3.4 The Emergency Director is responsible for assembling his staff in the Corporate Command Center (CCC) when requested to do so by the EOF Director and providing necessary support for the emergency organization.

3.5 The Emergency News Center Director is responsible for assembling his staff in the Emergency News Center (ENC) and providing necessary support to the emergency organization.

3.6 The TSC Operations Coordinator is responsible for reporting to the Control Room (if conditions permit) to provide assistance in mitigating on-site effects.

3.7 The TSC Supervisor is responsible for the operation and management of the off-site Staging Area.

4.0 INITIATING CONDITIONS

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

- 4.1 OP-901-047, indicates a dangerous level of toxic chemicals on-site and requires sheltering of the station personnel.
- 4.2 Notification via the St. Charles Industrial Hotline or other credible source of an off-site toxic chemical problem that may threaten the site.
- 4.3 Station personnel detect and report any unexplained extremely pungent or irritating unpleasant odor. (Refer to Attachment 7.7, Table of Common Chemical Characteristics.)

NOTE

The normal emergency organization will not be used for a toxic chemical event. Do Not activate any on-site organizations (TSC, OSC, etc.)

TAB A

5.0 PROCEDURE

- 5.1 Implement OP-901-047, Toxic Chemical Release Procedure, if not already implemented.

NOTE

The Toxic Chemical Evaluation Package (Attachment 7.1) is provided to allow mark up and to record pertinent data.

5.2 Information Source Determination

- 5.2.1 Whenever it is determined by use of OP-901-047, that a valid toxic chemical concentration exists within the site boundary, GO TO TAB "G".
- 5.2.2 When reports by station personnel are recieved of unexplained extremely pungent or irritating unpleasant odors, implement OP-901-047 and evaluate the situation.
- 5.2.3 Upon notification of an off-site toxic chemical uncontrolled release via the Industrial Hotline (IHL), obtain and complete a copy of Attachment 7.1, Toxic Chemical Evaluation Package.
- 5.2.3.1 Record Industrial Hotline reports on the "St. Charles Parish Emergency Preparedness/Industry Hotline System Emergency Communciations Checklist" (hereafter referred to as the "Emergency Communications Checklist") located on page 2 of Attachment 7.1.
- 5.2.3.2 When the IHL report indicates that a toxic chemical release is occuring or will occur, GO TO TAB "B", and complete the lower section of the Emergency Communications Checklist (labeled "FOR WATERFORD USE ONLY"). Use the attached sections of the Toxic Chemical Evaluation Package (Attachment 7.1) to record the information required by this procedure.

TAB B

5.3 Hazard Potential Determination

5.3.1 In the section at the bottom of Attachment 7.1, page 2; complete the following items using the information provided in the Hazard Potential Table (Table 1, pages 10-19 of this procedure):

- 5.3.1.1 Distance From Affected Industry in miles (column 2 of Table 1).
- 5.3.1.2 Worst Case Wind Direction (from) (column 2 of Table 1).
- 5.3.1.3 Hazard Potential (column 4 of Table 1).
- 5.3.1.4 DOT P 5800.2 Guide Number.

NOTE

1. Distance from the affected industry is a straight line calculation from the containment building to the nearest source on the affected facility's property.
2. Worst case wind direction is that direction of the wind that would bring the release directly to the Waterford 3 SES site.
3. Hazard Potential Table information is calculated for most chemicals stored or produced at a particular facility. A LARGE potential is an indication that the selected source under worst case conditions can exceed the IDLH (Immediately Dangerous to Life and Health) limits on-site at Waterford 3 SES.

CAUTION

If the "Emergency Communications Checklist" does not provide the chemical(s) involved, assume it (they) has (have) a LARGE hazard potential.

-
- 5.3.1.5 If the Hazard Potential is LARGE, GO TO Step 5.3.2.
 - 5.3.1.6 If the Hazard Potential is SMALL, 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 (TSC, OSC, etc.).

- 5.3.1.6.1 Sound the "STATION ALARM" and make the following 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.

- 5.3.1.6.2 Repeat 5.3.1.6.1 once.

NOTE

If an Unusual Event has been declared, and in the opinion of the SS/EC contacting the Duty Plant Manager will prevent completing the off-site notifications within the 15 minutes required by regulation, the SS/EC shall direct the Emergency Communicator to begin off-site notifications. (5.3.1.6.6).

- 5.3.1.6.3 Notify the Duty Plant Manager via the Emergency Management Resources Book.
- 5.3.1.6.4 Notify the Security Shift Supervisor (SSS) at ext. [].
- 5.3.1.6.5 Notify the "on-call" TSC Operations Coordinator via the Emergency Management Resources Book.
- 5.3.1.6.6 Notify St. Charles Parish, St. John the Baptist Parish, Louisiana Nuclear Energy Division (LNED) and Louisiana Office of Emergency Preparedness (LOEP) via the Operational Hotline that Waterford 3 SES has declared an UNUSUAL EVENT. Notify these agencies within 15 minutes of declaration. Use the Initial Notification Form from EP-2-010, Notifications and Communications. No followup notifications are required as long as there is no radiological problem existing on-site.

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

TABLE 1

COMPANY	DISTANCE AND DIRECTION	MATERIAL USED OR PRODUCED	HAZARD POTENTIAL	MAXIMUM AMOUNT OF EACH MATERIAL TO BE PROCESSED, STORED OR TRANSPORTED AT ANY GIVEN TIME	DOT GUIDE NUMBER
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NL = NOT LISTED IN DOT P 5800.2

m = Meters

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TABLE 1 (con't)

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NL = NOT LISTED IN DOT P 5800.2
m = Meters, Direction from which the wind would be blowing to effect W3SES

MATERIAL ON THIS PAGE IS PROPRIETARY OR PRIVATE INFORMATION

TABLE 1 (con't)

NL = NOT LISTED IN LOT P 5800.2
m = Meters, Direction from which the wind would be blowing to affect W3SES

MATERIAL ON THIS PAGE IS PROPRIETARY OR PRIVATE INFORMATION

TAB C

5.4 Protective Response Evaluation

CAUTION

COMPARE THE PROTECTIVE ACTION ARRIVED AT BY USING THE PROCEDURE (BELOW) TO THE ST. CHARLES PARISH REPORT'S "RECOMMENDED PROTECTIVE ACTION", AND USE THE MORE CONSERVATIVE RESPONSE. Controlled Evacuation is considered more conservative than a Site Evacuation.

5.4.1 Evaluate the following conditions:

Waterford 3 SES is downwind (± 45 degrees) of the affected plant.

OR

The meteorological conditions are unstable.

- a. If at least one of the above conditions are true then GO TO Step 5.4.2.
- b. If NONE of the above conditions are TRUE, then GO TO TAB "D", STANDBY.

5.4.2 If Waterford 3 is less than 2 miles away from the source, GO TO "A" below. If Waterford 3 is greater than 2 miles away from the source, GO TO "B" below.

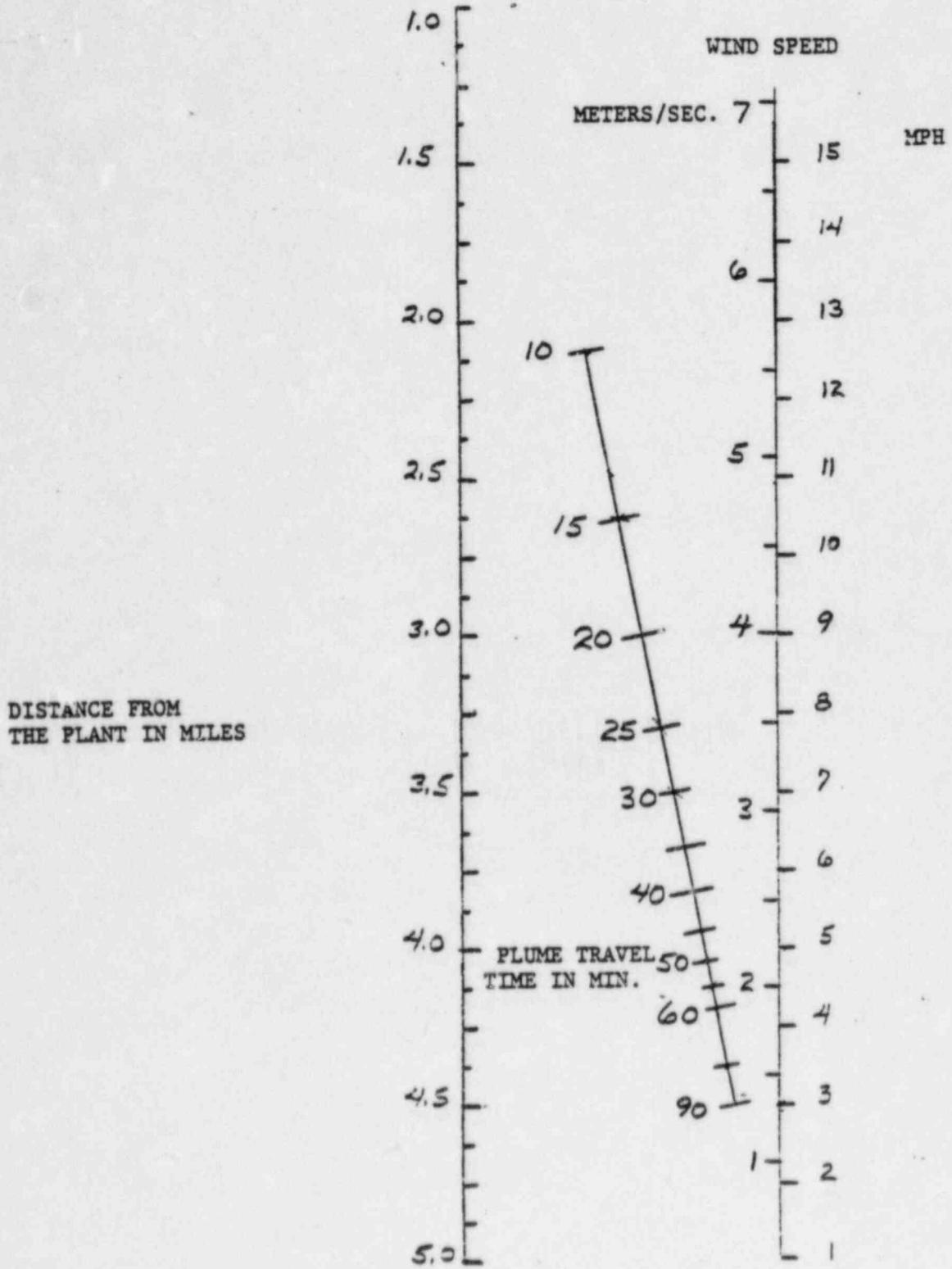
- A. If the Parish Emergency Condition is SITE AREA or GENERAL EMERGENCY (line 1 of the Emergency Communications Checklist), GO TO Step 5.5.1.5. If the Parish Emergency Condition is UNUSUAL EVENT or ALERT, GO TO TAB "D", STANDBY.
- B. If the Parish Emergency Condition is GENERAL EMERGENCY (line 1 of the Emergency Communications Checklist), GO TO Step 5.4.3. If the Parish Emergency Condition is UNUSUAL EVENT or ALERT or SITE AREA EMERGENCY, GO TO TAB "D", STANDBY.

5.4.3 Use the "Emergency Communications Checklist" information and available Control Room data to calculate the plume arrival time.

NOTE

All plants within a five (5) mile radius of the station at wind speeds of 10 mph (4.44 meters per second) or greater have a Plume Travel Time of less than 30 minutes.

- 5.4.3.1 PLUME TRAVEL TIME CALCULATION - The Plume Travel Time can be calculated using the nomogram on page 20 (which would normally be used initially) or by using hand calculations, which may be made subsequent to nomogram calculations.
- 5.4.3.1.1 Initial evaluation (nomogram) - Using a straight-edge connect the appropriate point on the "Distance From The Plant" scale to the appropriate point on the "Wind Speed" scale to read the Plume Travel Time off the center scale (in minutes)



PLUME TRAVEL TIME NOMOGRAM

5.4.3.1.2 Subsequent evaluation (hand calculation)

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

$$(\text{wind speed } \underline{\hspace{2cm}} \text{ m/sec}) \times (2.25 \text{ mph/m/sec}) = \underline{\hspace{2cm}} \text{ mph}$$

B. Calculate plume travel time.

$$\frac{\text{Distance From Waterford } \underline{3} \text{ miles}}{\text{Wind Speed } \underline{\hspace{2cm}} \text{ mph}} \times 60 \frac{\text{min}}{\text{hrs.}} = \underline{\hspace{2cm}} \text{ min. TRAVEL TIME}$$

5.4.3.2 Calculate PLUME ARRIVAL TIME.

NOTE

If the release start time is not available, use the "NOTIFICATION TIME" from the "Emergency Communications Checklist" (page 2 of Attachment 7.1)

$$\text{TRAVEL TIME } \underline{\hspace{2cm}} + \text{RELEASE START TIME } \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ ARRIVAL TIME}$$

5.4.3.3 Calculate RESPONSE TIME

$$(\text{ARRIVAL TIME } \underline{\hspace{2cm}}) - (\text{TIME NOW } \underline{\hspace{2cm}}) = \underline{\hspace{2cm}} \text{ RESPONSE TIME}$$

5.4.3.4 Evaluated Response Time

5.4.3.4.1 Evaluate the present station population and consider special activities in progress which may result in additional on-site workers. A 30 minute evacuation time is estimated for normal day shift staffing.

5.4.3.5 Is the Response Time (Step 5.4.3.3) less than 30 minutes?

5.4.3.5.1 IF YES, GO TO TAB "G", SHELTER.

5.4.3.5.2 IF NO, GO TO TAB "F", and evacuate.

TAB D

5.5 STANDBY

- 5.5.1 If the "STANDBY" section of this procedure has been implemented due to a valid "Emergency Communications Checklist" (page 2 of Attachment 7.1), 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 (TSC, OSC, etc.).

- 5.5.2 Sound the "STATION ALARM" and make the following 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.

- 5.5.2.1 Repeat 5.6.2 once.

NOTE

If an Unusual Event has been declared, and in the opinion of the SS/EC contacting the Duty Plant Manager will prevent completing the off-site notifications within the 15 minutes required by regulation, the SS/EC shall direct the Emergency Communicator to begin off-site notifications. (5.5.7).

- 5.5.3 Notify the Duty Plant Manager via the Emergency Management Resources Book.
- 5.5.4 Evaluate 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 evolutions, etc.).

- 5.5.10 If the situation improves, or deteriorates, GO TO TAB "A" and perform all the steps of this procedure again.
- 5.5.11 When the situation improves, enter the Recovery section of this procedure at step 5.9, Recovery.
- 5.5.11.1 If toxic chemicals did NOT intrude on-site and the situation that caused STANDBY to be implemented has been resolved, the Standby condition can be secured and personnel can return to their normal duties.
- 5.5.11.2 Sound the "Station Alarm" and make the following announcement:

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL! ALL CLEAR. RETURN TO WORK.
- 5.5.11.3 Repeat 5.5.11.2 once.
- 5.5.11.4 Commence Recovery activities as per step 5.10 of this procedure.

TAB E

NOTE

Select the appropriate (unaffected) Off-site Assembly Area. (Monsanto Park, Luling; or St. John the Baptist Catholic Church, Edgard)

5.6 STAFF REDUCTION

- 5.6.1 Confer with the Duty Plant Manager, if available, and determine what work groups and/or individuals should be instructed to report to the Off-site Assembly Area (Refer to Attachment 7.8, Essential Personnel Shift Staffing Requirements).

NOTE

Notify the Assembly Area Supervisor (see Emergency Management Resources Book for names and phone numbers) of the decision to reduce staff and have him report to the designated Assembly Area to muster personnel leaving the site and await further instructions. Maintain contact with the Assembly Area Supervisor through the Radiological Field Monitoring Radio located in the TSC Dose Assessment Area. Backup communication is through PABX and pay telephones.

NOTE

Individuals that would require assistance, or are physically impaired (i.e., pregnant, respiratory problems, broken limbs, etc.) should be considered first for staff reduction activities.

- 5.6.2 Notify the supervisors (or the senior member of the group available in cases where the supervisor is not available) of the selected work groups and apprise them of the present situation. Have the supervisor send the designated personnel to the designated Assembly Area.
- 5.6.2.1 Supervisors shall ensure that personnel leave their work stations in a safe condition.
- 5.6.2.2 Supervisors shall ensure that personnel leave the site in an orderly and timely manner.

- 5.6.3 Notify Waterford 1 and 2 that Waterford 3 has elected to reduce the site population due to the existing chemical problem. Waterford 1 & 2 LP&L Emergency Dial [] PABX [] or [] or [].
- 5.6.4 Continue monitoring the situation in a "STANDBY" condition and perform all the steps of this procedure again when the situation changes or when additional information is available.
- 5.6.5 Evaluate the present situation and consider implementation of EP-4-020, Backup EOF Activation, Operation, and Deactivation During A Toxic Chemical Emergency.

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

TAB F

5.7 SITE EVACUATION

- 5.7.1 Notify the Security Shift Supervisor (SSS) at [] that a site evacuation will be performed.
- 5.7.2 Determine the safest evacuation route and select the appropriate (unaffected) Off-site Assembly Area. (Monsanto Park, Luling; or St. John the Baptist Catholic Church, Edgard), using available information sources, i.e., "Emergency Communications Checklist" (page 2 of Attachment 7.1) recommendations.

NOTE

Notify the Assembly Area Supervisor (see Emergency Management Resources Book for names and phone numbers) of the decision to reduce staff and have him report to the designated Assembly Area to muster personnel leaving the site and await further instructions. Maintain contact with the Assembly Area Supervisor through the Radiological Field Monitoring Radio located in the TSC Dose Assessment Area. Backup Communication is through the PABX and pay telephones.

NOTE

If the entire site population CAN NOT be evacuated prior to the plume arrival, shelter the personnel and commence a Controlled Evacuation of the site (TAB G).

- 5.7.3 Sound the "STATION ALARM".
- 5.7.4 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 TO THE ("state one of the locations"): St. John the Baptist Catholic Church or Monsanto Park 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.

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

- 5.7.4.1 Repeat step 5.7.4 once.
- 5.7.5 Notify Waterford 1 and 2 that Waterford 3 is evacuating. Waterford 1 & 2 LP&L Emergency Dial [], PABX [] or [] or [].
- 5.7.6 Declare an "Alert" because of site evacuation activities brought on by a toxic chemical problem.

CAUTION

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

NOTE

If an Alert or Site Area Emergency has been declared, and in the opinion of the SS/EC contacting the Duty Plant Manager and "on-call" Operations Coordinator will prevent completing the off-site notifications within the 15 minutes required by regulation, the SS/EC shall direct the Emergency Communicator to begin off-site notifications (5.7.8).

- 5.7.7 Contact the Duty Plant Manager and the "on-call" Operations Coordinator, as per the Emergency Management Resources Book.
- 5.7.7.1 Request that the Duty Plant Manager activate the support staff at the back-up EOF, as per EP-4-020, Backup EOF Activation, Operation, and Deactivation During A Toxic Chemical Emergency.
- 5.7.7.2 The response of the Duty Plant Manager, and the "on-call" Operations Coordinator to the site must be via the approved route and transportation method prescribed by the St. Charles Parish Emergency Operation Center (EOC). If the parish has established traffic controls coordinate their route and arrival through the St. Charles Parish EOC, phone number [].

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

NOTE

With high levels of toxic chemicals on-site; the Reactor Auxiliary Building (outside of the Control Room Area), Fuel Handling Building, and the Turbine Generator Building are NOT considered acceptable shelters.

- 5.7.11 On-shift personnel should make preparations to don respiratory protection.
- 5.7.12 The Security Shift Supervisor (SSS), shall ensure that his staff is equipped with the appropriate protective equipment for the existing situation.
 - 5.7.12.1 The Security Shift Supervisor and the Emergency Coordinator shall evaluate site access requirements and minimize the security force on the completion of the evacuation and accountability activities.
- 5.7.13 A search should be made for those individuals that are not accounted for using available staff resources, if personnel and plant safety are not jeopardized.
- 5.7.14 Upon detection, or the approach of toxic chemicals on-site, the following shall occur:
 - 5.7.14.1 Assembly of shift personnel in the Control Room Envelope.
 - 5.7.14.2 The donning of respiratory protection as necessary.

CAUTION

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 Shift Supervisor indications exist that toxic chemicals have intruded within the Protected Area boundary, GO TO TAB "G" SHELTER.

- 5.7.15 Continuous evaluation shall take place. When the situation improves, and with Parish and the Backup EOF Director's concurrence, the event can be downgraded and the recovery can begin, GO TO 5.10, RECOVERY.

TAB G

5.8 SHELTER

- 5.8.1 Sound the "Station Alarm".
- 5.8.2 Make the following announcement:

ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL!
SHELTER, SHELTER, SHELTER. SHUT ALL WINDOWS AND DOORS.
SECURE VENTILATION SYSTEMS AND REMAIN INDOORS UNTIL YOU
RECEIVE FURTHER INSTRUCTIONS.

- 5.8.2.1 Repeat 5.8.2 once.

NOTE

Designated shelters are shown in Attachment
7.3 and are: 1) Administration Building, 2) Service
Building, 3) Fischback and Moore Building, 4) J.A.
Jones Building, and 5) Ebasco Building.

- 5.8.2.2 Make frequent announcements to apprise the site
population as to the cause and status of the
Sheltering situation.
- 5.8.3 Establish Control Room habitability as per OP-901-047,
Toxic Chemical Release and don emergency respiratory
protective equipment as necessary.
- 5.8.4 Declare the appropriate emergency classification as
follows:
- 5.8.4.1 If station personnel are sheltered due to a verified
toxic chemical emergency, declare an "Alert".
- 5.8.4.2 If station personnel are sheltered for a continuous
30 minute period and cannot go outside and move
about freely without respiratory protection, declare
a "Site Area Emergency".

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

NOTE

If an Alert or Site Area Emergency has been declared, and in the opinion of the SS/EC contacting the Duty Plant Manager and "on-call" Operations Coordinator will prevent completing the off-site notifications within the 15 minutes required by regulation, the SS/EC shall direct the Emergency Communicator to begin off-site notifications (5.8.7).

- 5.8.5 Contact the Duty Plant Manager and "on-call" Operations Coordinator as per the Emergency Management Resources Book.

NOTE

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

- 5.8.5.1 For situations that will require a Controlled Evacuation or station personnel to be sheltered for greater than 30 minutes, request that the Duty Plant Manager activate the support staff at the backup EOF, as per EP-4-020, Backup EOF Activation, Operation, and Deactivation During A Toxic Chemical Emergency.

CAUTION

Due to the present conditions, it may not be desirable to request that the Duty Plant Manager and "on-call" Operations Coordinator, if on-site, respond to the Control Room.

CAUTION

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

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

- 5.8.6 Apprise the Security Shift Supervisor (SSS) at [] of the present situation.
- 5.8.7 Notify St. Charles Parish, St. John the Baptist Parish, Louisiana Nuclear Energy Division (LNED) and Louisiana Office of Emergency Preparedness (LOEP) via the Operational Hotline that Waterford 3 SES has declared an "ALERT" or a "SITE AREA EMERGENCY" (as appropriate). Notify these agencies within 15 minutes of declaration. Use the Initial Notification Form from EP-2-010, Notifications and Communications. No followup notifications are required as long as there is no radiological problem existing on-site.

NOTE

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

CAUTION

DO NOT activate any Radiological Emergency Response Organizations.

- 5.8.8 Notify Waterford 1 and 2 that Waterford 3 SES is Sheltering station personnel. Waterford 1 & 2 LP&L Emergency Dial [], PABX [] or [] or [].
- 5.8.9 Complete the NRC OPERATIONS CENTER EVENT NOTIFICATION FORM from EP-2-010. Notify the NRC as soon as possible, but within one hour of declaration.
- 5.8.9.1 Notify the NRC by one of the following methods:
- Emergency Notification System (ENS); or
 - Commercial phone, [], or [], or []; or
 - NRC health physics network (HPN).

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

NOTE

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

- 5.8.10 Assemble and/or account for all shift personnel in the control room envelope and brief them on the present plant and toxic chemical release status.
- 5.8.10.1 Ensure personnel that depart the control room envelope log out and are assigned a call back frequency (15 minutes is the maximum recommended interval). Refer to EP-2-190 for guidance.
- 5.8.10.2 Ensure that personnel performing assigned functions outside of the control room are equipped with the appropriate safety equipment.
- 5.8.11 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.

- 5.8.11.1 Evaluate the following:
- Most recent recommendations on the Parish "Emergency Communications Checklist" (page 2 of Attachment 7.1). If you have not received a "Emergency Communications Checklist", contact the Parish via the IHL and evaluate the information using this procedure. Compare the resulting procedure evaluation of protective actions with the Parish Recommended Protective Action.
 - 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 5.8.13 of this procedure.

5.8.12 CONTROLLED EVACUATION

NOTE

Select the appropriate (unaffected) Off-site Assembly Area. (Monsanto Park, Luling; or St. John the Baptist Catholic Church, Edgard)

NOTE

Evaluate the staffing requirements for the shift and evacuate individuals that are not required for safe plant operation or the security of the plant. Refer to Attachment 7.8, Essential Personnel Shift Staffing Requirements, for guidance.

NOTE

Notify the Assembly Area Supervisor (see Emergency Management Resources Book for names and phone numbers) of the decision to conduct a Controlled Evacuation and have him report to the designated Assembly Area to muster personnel leaving the site and await further instructions. Maintain contact with the Assembly Area Supervisor through the Radiological Field Monitoring Radio located in the TSC Dose Assessment Area. Backup Communication is through the PABX and pay telephones.

5.8.12.1 Apprise the Security Shift Supervisor (SSS) (ext. [3622]), of the decision to commence a Controlled Evacuation, and the areas that will be evacuated first (Refer to Attachment 7.3).

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

- 5.8.12.3 Coordinate the performance of the Controlled Evacuation with the Security Shift Supervisor directing the designated personnel to the designated Assembly Area.
- 5.8.12.4 Continue to make information announcements as the Controlled Evacuation continues.
- 5.8.12.5 Coordinate with the Security Shift Supervisor (SSS), to ensure personnel do not build up at the gate house(s) and/or parking lots. Prior to evacuation of additional areas ensure that any identified build-ups have diminished.

- 5.8.12.6 Start and stop the Controlled Evacuation as the situation changes until all designated station personnel have been evacuated.
- 5.8.12.7 Continue monitoring the toxic chemical situation, as the status changes, perform all the steps of this procedure again.
- 5.8.12.8 The Security Shift Supervisor should secure unused site access points and reduce his staff to the minimum required.
- 5.8.12.9 Consult with the backup EOF staff as changes occur.
- 5.8.12.10 When the situation improves, enter the Recovery section of this procedure at step 5.9.
- 5.8.13 If toxic chemicals did NOT intrude on-site and the situation that caused sheltering to occur has been resolved, the sheltering condition can be secured, and personnel can return to their normal routine.
- 5.8.13.1 Sound the "Station Alarm" and make the following announcement:
- ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL! ALL CLEAR. RETURN TO WORK.
- 5.8.13.2 Repeat 5.8.13.1, once.
- 5.8.13.3 Commence Recovery activities as per step 5.10 of this procedure.

5.9 RECOVERY

- 5.9.1 When the Toxic Chemical Procedure has been implemented, the following recovery activities shall occur when secure from the event:
- 5.9.1.1 The immediate replacement of all forms and documents that were used during the event.
- 5.9.1.2 Respiratory protective equipment shall be inspected and returned to normal inventory levels and status within six (6) hours.
- 5.9.1.3 Emergency lockers that were opened shall be restocked and inventoried as per their respective inventory procedure within 48 hours.

CAUTION

Ensure that the Breathing Air Compressor atmosphere is sampled prior to recharging Breathing Air Banks.

- 5.9.1.4 Ensure that the breathing air system is fully charged and available for use.
- 5.9.2 If toxic chemicals have actually intruded within the site boundary, perform the following activities:
- 5.9.2.1 Post and restrict access to all below ground level areas (i.e., basements, well pits, drainage ditches, depressions, etc.).
- 5.9.2.2 Sample and determine that each restricted area has a safe environment, prior to releasing the area for general access.

NOTE

If the breathing air system was used by the Control Room staff, document use and forward records to training for credit for the FSAR requirement of Breathing Air System Drills (Refer to EP-3-020).

- 5.9.2.3 Engineering shall evaluate the effects of the toxic chemical(s) on the site (i.e., atmospheric vented tanks, electrical equipment, mechanical components, etc.).
- 5.9.2.4 Sample the plant compressed air systems (Service Air, Instrument Air and Breathing Air) to determine if systems have been contaminated by the toxic chemicals. If contaminated, blow down and purge the systems and evaluate the effects on equipment serviced by the affected air system.
- 5.9.3 If the toxic chemical release was from an on-site source, ensure that the notifications required by Attachment 7.6 are met within 24 hours.

6.0 FINAL CONDITIONS

- 6.1 Recovery activities have been completed.
- 6.2 Organizations and agencies notified during the implementation of this procedure are informed that Waterford 3 SES is secured from the toxic chemical emergency.

7.0 ATTACHMENTS

- 7.1 Toxic Chemical Evaluation Package
- 7.2 Definitions
- 7.3 W3 SES Site Map
- 7.4 W3 SES Five Mile Map
- 7.5 Major Industrial Properties Within 10 Miles of W3SES
- 7.6 Current Louisiana Department of Public Safety Office of State Police Hazardous Materials Unit - Toxic Substances Emergency Plan (Partial)
- 7.7 Table of Common Chemical Characteristics
- 7.8 Essential Personnel Shift Staffing Requirements

TOXIC CHEMICAL EVALUATION PACKAGE

- Page #1 St. Charles Parish Emergency Preparedness/Industry Hot
Line System Emergency Communications Checklist
- Page #2 Toxic Chemical Protective Action Worksheet
- Page #3 Plume Travel Time Nomogram (Initial Determination) **
- Page #4 Subsequent Calculations Work Sheet **

NOTE

** - Page #3 & #4 are reproductions of pages of the procedure. They are provided as a work sheet to be completed and maintained as a record of the evaluation of the Off Site emergency.

CAUTION

THIS ATTACHMENT IS TO BE USED IN SUPPORT OF THE TEXT OF THIS PROCEDURE AND NOT AS A STAND-ALONE DOCUMENT.

ST. CHARLES PARISH EMERGENCY PREPAREDNESS/INDUSTRY
HOT LINE SYSTEM
EMERGENCY COMMUNICATIONS CHECKLIST

1. The HOT LINE system was used to notify

EMERGENCY OPERATIONS CENTER (EOC) _____
SHERIFF'S OFFICE _____
MEMBER INDUSTRY (_____) _____

of an incident or emergency of nature

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

2. Agency/Plant/Member Industry: _____

3. Person giving information: _____

4. Notification - DATE: _____
TIME: _____

5. Name of person contacted: _____

6. Incident Facts - FIRE _____ GAS RELEASE _____
EXPLOSION _____ SPILL _____
OTHER _____

Substance Involved _____

FLAMMABLE _____ TOXIC _____
OTHER _____

Environmental Conditions - WIND SPEED _____
WIND DIRECTION _____

7. Recommended action: _____

8. Control - ESTIMATED DURATION OR CONTROL TIME _____
ACTUAL DURATION OR CONTROL TIME _____
(To be completed after emergency is under control)

=====

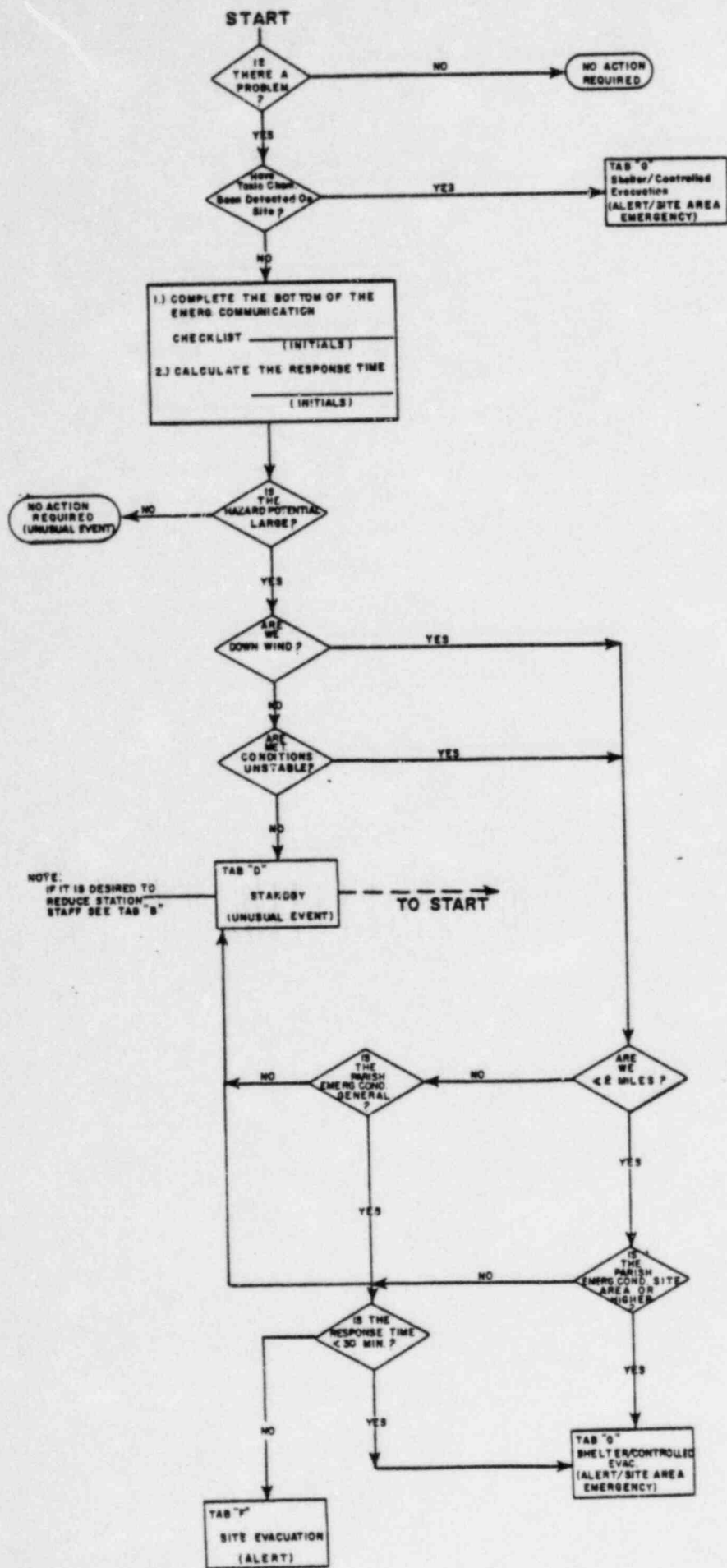
-FOR WATERFORD USE ONLY-

1.) Plant Distance (in miles): _____

2.) Wind Direction (Worst case)(from): _____

3.) Hazard Potential: _____

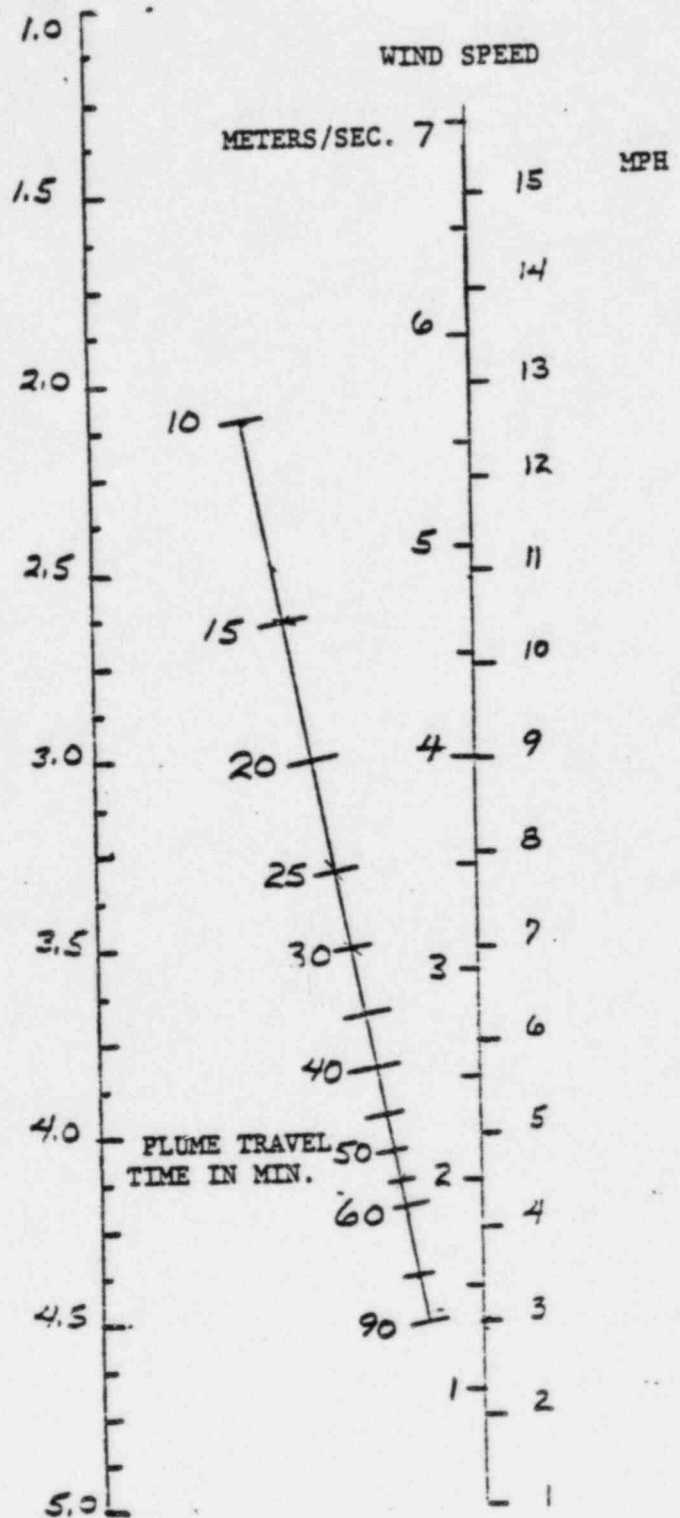
4.) Guide Number: _____



Plume Travel Time Nomogram

Initial Evaluation -
 Orient a straight-edge such that the left-hand edge is on the "distance from plant" scale and the right-hand edge is on the "wind speed" scale.
 Read the Plume Travel Time off the center scale (in minutes).

DISTANCE FROM THE PLANT IN MILES



SUBSEQUENT CALCULATIONS WORK SHEET

5.4.1.1.2 Subsequent evaluation (hand calculation)

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

$$(\text{windspeed } \underline{\hspace{2cm}} \text{ m/sec}) \times (2.25 \text{ mph/m/sec}) = \underline{\hspace{2cm}} \text{ mph}$$

5.4.1.2 Calculate plume travel time.

$$\frac{\text{Distance from Waterford } 3 \underline{\hspace{2cm}} \text{ miles}}{\underline{\hspace{2cm}} \text{ mph}} \times 60 \frac{\text{min}}{\text{hrs.}} = \underline{\hspace{2cm}} \text{ min. TRAVEL TIME}$$

5.4.1.3 Calculate PLUME ARRIVAL TIME.

NOTE

If the release start time is not available use the "NOTIFICATION TIME" from the "Emergency Communications Checklist".

$$\text{TRAVEL TIME } \underline{\hspace{2cm}} + \text{RELEASE START TIME } \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ ARRIVAL TIME}$$

5.4.2 Calculate RESPONSE TIME

$$(\text{ARRIVAL TIME } \underline{\hspace{2cm}}) - (\text{TIME NOW } \underline{\hspace{2cm}}) = \underline{\hspace{2cm}} \text{ RESPONSE TIME}$$

Definitions

UNUSUAL EVENT (St. Charles Parish) - 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 which presents no off-site threat and requires no assistance or protective actions. The situation is under control. Only Emergency Preparedness personnel would be notified.

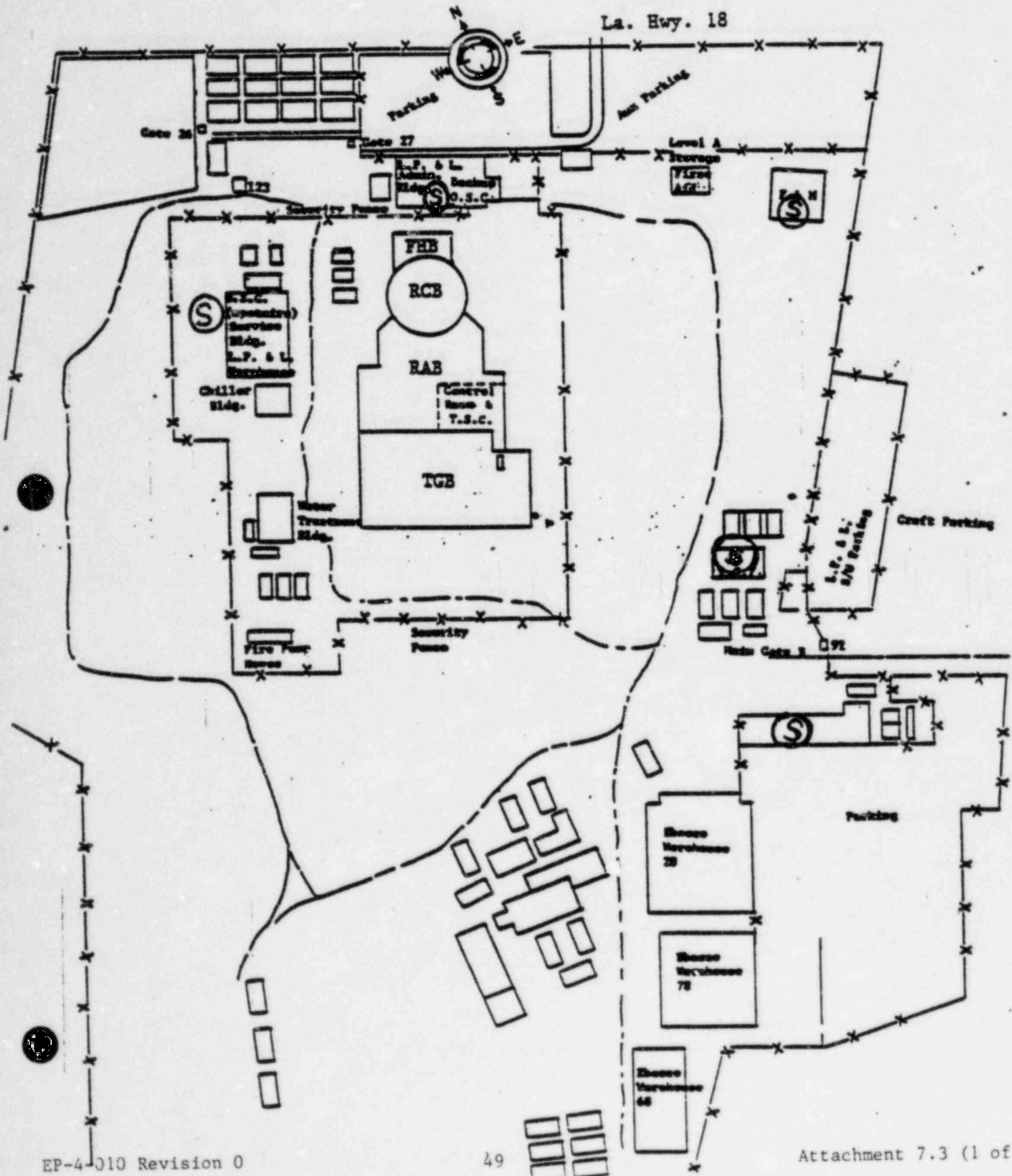
ALERT (St. Charles Parish) - An emergency such as a fire, explosion, gas or liquid release or other event has occurred which affects plant operations and/or has the potential to escalate to a more serious emergency. The emergency is not under control but poses no immediate threat to off-site areas. The EOC will be either partially or fully activated, dependant upon the situation.

SITE AREA EMERGENCY (St. Charles Parish) - A serious emergency such as a fire, explosion, gas or liquid release or other event has occurred or is imminent which seriously affects plant operations and/or poses a threat to residents or industries in the immediate vicinity of the affected industry. The emergency is not under control and protective actions will be necessary. The EOC would be fully activated and protective actions would be initiated.

GENERAL EMERGENCY (St. Charles Parish) - A severe emergency such as a fire, explosion, gas or liquid release or other event has occurred or is imminent which seriously affects plant operations and/or off-site areas well beyond site boundaries. The emergency is not under control and protective actions for residents and neighboring industries are necessary. The EOC would be fully activated and protective actions would be initiated.

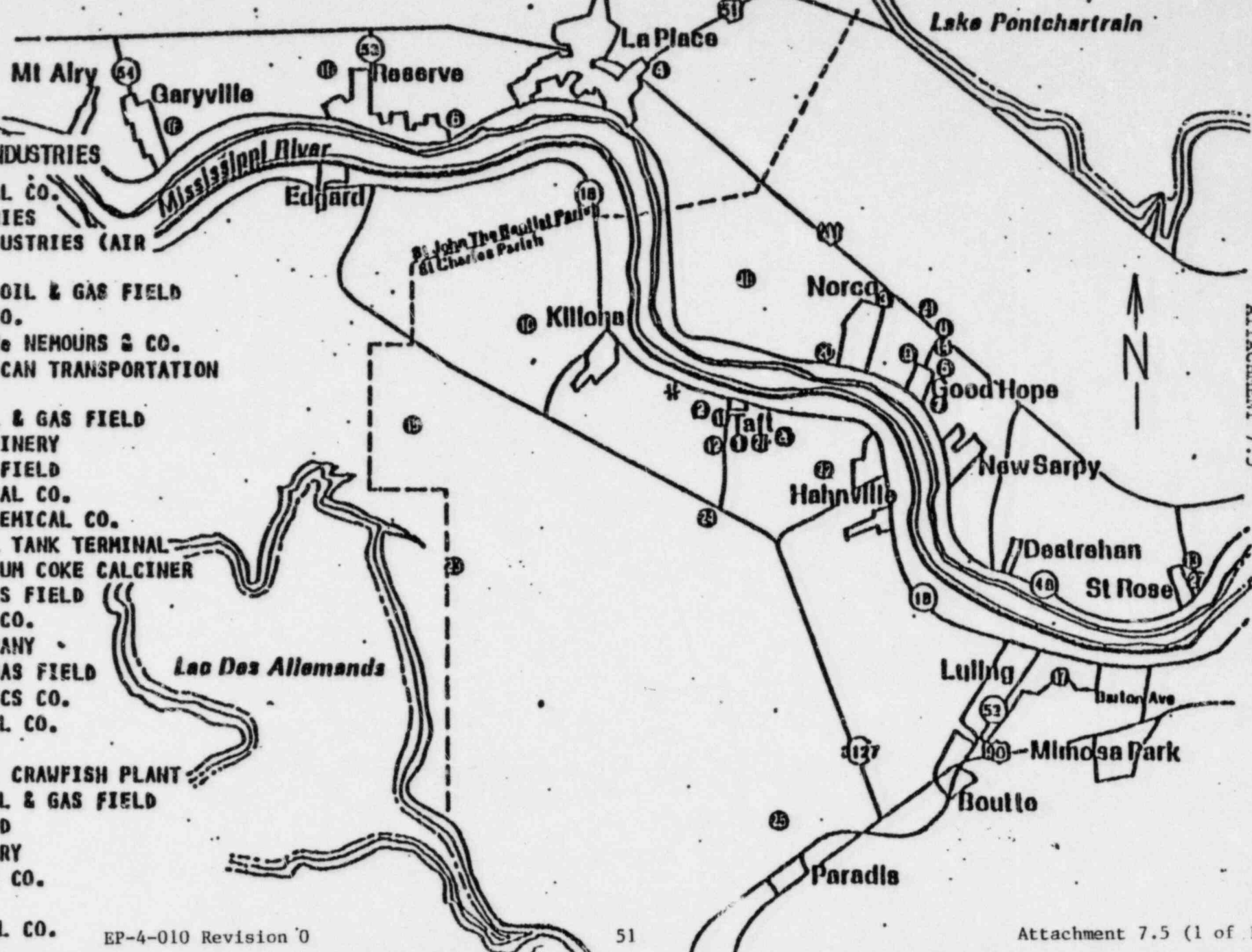
WATERFORD 3 SITE

(S) = Designated Shelter



WITHIN 10 MILES OF WATERFORD 3

- ND - MAJOR INDUSTRIES
- ARGUS CHEMICAL CO.
 - BEKER INDUSTRIES
 - BIG THREE INDUSTRIES (AIR REDUCTION)
 - BONNET CARRE OIL & GAS FIELD
 - CHEVRON OIL CO.
 - E.I. DUPONT de NEMOURS & CO.
 - GENERAL AMERICAN TRANSPORTATION CO.
 - GOOD HOPE OIL & GAS FIELD
 - GOOD HOPE REFINERY
 - IANVILLE OIL FIELD
 - HOOKER CHEMICAL CO.
 - OCCIDENTAL CHEMICAL CO.
 - INTERNATIONAL TANK TERMINAL
 - KAISER ALUMINUM COKE CALCINER
 - LUCY OIL & GAS FIELD
 - MARATHON OIL CO.
 - MONSANTO COMPANY
 - NORCO OIL & GAS FIELD
 - REWELL PLASTICS CO.
 - SHELL CHEMICAL CO.
 - SHELL OIL CO.
 - SHELL OIL CO. CRAWFISH PLANT
 - SOUTH LUCY OIL & GAS FIELD
 - TAFT GAS FIELD
 - EXACO REFINERY
 - UNION-CARBIDE CO.
 - USAMEX
 - ITCO CHEMICAL CO.



ATTACHMENT 7.5

1207 -

LOUISIANA DEPARTMENT OF PUBLIC SAFETY
OFFICE OF STATE POLICE
HAZARDOUS MATERIALS UNIT
P.O. BOX 66614
BATON ROUGE, LOUISIANA 70896

TOXIC SUBSTANCES EMERGENCY PLAN

This form is pursuant to Act 642 of the 1979 and Act 364 of the 1980 regular session of the Louisiana Legislature. This form shall be filed with the Secretary of Public Safety no later than January 31 of each year.

1. Facility Name, Location, and Mailing Address: Louisiana Power & Light Co.
Waterford 3, Taft, Louisiana P. O. Box B, Killona, Louisiana 70066

2. Classification: Refinery and/or Chemical Manufacturer
 Repackager
 Wholesale storage and distribution (X) ELECT. POWER PLANT

Name and/or title of person who will notify authorities: Nuclear Operator,
Shift Supervisor, On Shift via St. Charles Industrial Hotline, Paul Backes Emergency
Planning Coordinator, S. Alleman, Assistant Plant Manager

4. 24-Hour Telephone Number where authorities can make contact in case of emergency: 504-464-3401 or 504-464-3100.

5. Principal product(s) or chemical(s) which is maintained, stored or manufactured and meets the definition of Toxic Substance (Attachment if Needed):

- 1) AMMONIA, ANHYDROUS APPROX. 5,000 GALS. 5) SODIUM HYDROXIDE APPROX 5,000 GALS.
2) CALCIUM HYPOCHLORITE APPROX. 200 LBS 6) SULFURIC ACID APPROX. 5,000 GALS.
3) HYDRAZINE APPROX. 900 GALS.
4) CHLORINE APPROX. 400 LBS.

6. List organizations and authorities who will be notified in the event of a toxic release: Hazardous Material Hotline 24-Hour(collect) (504)925-6595
(LRS 40:1299.100)

State Police Troop Sheriff's Office Mutual Aid
 Fire Department Municipal Police Civil Emergency Office
 other INDUSTRIES TYPE INTO ST. CHARLES HOT LINE

STATE POLICE

JAN 30 1984

7. The notification to the proper public safety authorities will include the type of gas or mixed gases, direction of travel of gas, severity and expected duration of gas emission to the atmosphere, and suggested actions.
8. Releases that will escape beyond the plant perimeter shall be reported.
9. Notification will be made by telephone # INDUSTRY HOT LINE, radio(freq.) _____, or other (list) ST. CHARLES PARISH EMERGENCY PREPAREDNESS 783-2344

REMARKS:

When this form has been completed, in its entirety, please mail to the address listed at the top of the page.

Date Submitted: January 6, 1984

By Whom: Albert C. Cook *Albert C. Cook*
W-3 SAFETY COORDINATOR

Date Approved: _____

TABLE OF COMMON CHEMICAL CHARACTERISTICS

Acrolein (C ₃ H ₄)	- Clear colorless or yellowish liquid with a piercing disagreeable odor, causes tears.
Acrylonitrile (C ₃ H ₄ N)	- Colorless to pale yellow liquid with a pungent odor.
Ammonia (NH ₃)	- Colorless gas with a penetrating pungent, suffocating odor. It can be a liquid when under pressure.
Carbon Disulfide (CS ₂)	- Colorless to faintly yellow liquid with a strong, disagreeable or sweetish odor.
Carbon Tetrachloride (CCl ₄)	- Colorless liquid with an ether-like odor.
Chlorine (Cl ₂)	- Amber liquid or greenish-yellow gas with a characteristic irritating odor.
Chloroform (CHCl ₃)	- Colorless liquid with a pleasant sweet odor.
Chloroprene (C ₄ H ₅ Cl)	- Colorless liquid with an ether-like odor.
Formic Acid (CH ₂ O ₂)	- Colorless liquid, may be fuming with a pungent, penetrating odor.
Hydrazine (N ₂ H ₄).	- Colorless liquid with weak, ammonia-like odor; can be solid < 36 deg. F
Hydrogen Cyanide (HCN)	- Colorless or pale blue liquid or gas with a bitter almond odor.
Phosgene (COCl ₂)	- Colorless liquid or gas with a sweet odor like hay at low concentration; sharp pungent odor at high concentrations.

Source: NIOSH/OSHA Pocket Guide to Chemical Hazards
(September 1978)

ESSENTIAL PERSONNEL SHIFT STAFFING REQUIREMENTS

	Normal Shift	Modes 1-4 *	Modes 5&6 *	Fire Brigade	First Aid	Minimum Staff
SS	1	1	1			1
CRS	1	1				1#
NPO	3	2	1	1		2
NAO	4	2	1	4		4
STA	1	1				1#
HP	2	1	1		1	1
CHEM MAINT.	1 6	1**			1	1
SSS	1	1	1			1

* - Reference Table 6.2-1 of the Tech. Spec.

** - Administratively required

- Modes 1-4 only

WATERFORD 3 SES
PLANT OPERATING MANUAL



LOUISIANA
POWER & LIGHT

POM VOLUME 18
POM SECTION 4

EP-4-015
REVISION 0

EMERGENCY PLAN IMPLEMENTING PROCEDURE
OFF-SITE PERSONNEL STAGING DURING
A TOXIC CHEMICAL EMERGENCY

PORC Meeting No. 84-33

Reviewed: SA Allen
PORC Chairman

Approved: RP Barkhurst
Plant Manager-Nuclear

5/8/84
Approval Date

Effective Date

WATERFORD 3 SES
PLANT OPERATING MANUAL
REVIEW COVER SHEET

PROCEDURE NO. EP-4-015

TYPE Emergency Plan Implementing Procedure

TITLE Off Site Personnel Staging

PROCEDURE EFFECTIVE DATE _____

During a Toxic Chem Emerg.

(If different from approval date)

AUTHOR BBB

TECHNICAL REVIEW John Badi 4/11/84

Signature, Technical Reviewer Date

PORC REVIEW REQUIRED YES NO

SAFETY EVALUATION

Does this procedure:

1. Change the facility as described in the FSAR? YES NO
2. Change the procedures as described in the FSAR? YES NO
3. Conduct tests/experiments not described in the FSAR? YES NO
4. Create a condition or conduct an operation which exceeds, or could result in exceeding, the limits in Technical Specifications? YES NO

If any question 1 through 4 has been answered YES, complete and attach a 10 CFR 50.59 SAFETY EVALUATION.

SAFETY EVALUATION John Badi 4/11/84

Signature, Technical Reviewer Date

GROUP/DEPARTMENT HEAD REVIEW Samuel Barker 4/17/84

Signature Date

QC REVIEW J. Allen 5-3-84

Signature, QC Engineer Date

PORC REVIEW SA Allen 5-4-84

Signature, PORC Chairman Date

PORC MEETING NO. 84-33

Applicable Conditions (Temporary Procedures Only): _____

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- 1.0 PURPOSE
- 2.0 REFERENCES
- 3.0 RESPONSIBILITIES
- 4.0 INITIATING CONDITIONS
- 5.0 PROCEDURE
- 6.0 FINAL CONDITIONS
- 7.0 ATTACHMENTS
 - 7.1 Essential Personnel Shift Staffing Requirements
 - 7.2 Check Sheet For Vehicles

List of Effective Pages

Title	Revision 0
Page 1-7	Revision 0

1.0 PURPOSE

This procedure provides guidance during situations that require the assembly of personnel off-site. Specifically addressed by this procedure is the establishment of the Staging Area, setup of communications with other components of the emergency organization, and transportation of personnel to and from the plant site.

2.0 REFERENCES

- 2.1 EP-2-150, Emergency Plan Implementing Records
- 2.2 EP-4-010, Toxic Chemical Contingency Procedure
- 2.3 EP-4-020, Backup EOF Activation, Operations, and Deactivation During a Toxic Chemical Emergency
- 2.4 Emergency Management Resources Book

3.0 RESPONSIBILITIES

- 3.1 The Duty Plant Manager/Emergency Coordinator is responsible for:
 - 3.1.1 Selecting and ordering the activation of a Staging Area.
- 3.2 The "on-call" Technical Support Center (TSC) Supervisor is responsible for the activation and management of the Staging Area activities and shall be referred to as the Staging Area Supervisor for the purposes of this procedure. The Staging Area Supervisor is responsible for:
 - 3.2.1 Staffing of the Staging Area.
 - 3.2.2 Maintaining a written record of the Staging Area's activities as per EP-2-150.
 - 3.2.3 Coordination with the EOF Director in providing support to mitigate the existing emergency situation while ensuring a reasonable degree of safety for personnel involved.
 - 3.2.4 Maintaining an accountability roster of the Staging Area personnel.

3.3 The "on-call" Operations Support Center (OSC) Supervisor may assist the Staging Area Supervisor in the management of the Staging Area and be referred to as the Assistant Staging Area Supervisor.

3.3.1 The Assistant Staging Area Supervisor shall assume the role and the responsibilities of the Staging Area Supervisor in his absence.

4.0 INITIATING CONDITIONS

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

4.1 When the current situation has the potential to impact the safety of station personnel and/or the operation of the plant for an estimated period of greater than two (2) hours.

4.2 When the evacuation or sheltering of station personnel during normal day shift operations is ordered.

4.3 At the direction of the Duty Plant Manager.

4.4 At the direction of the Emergency Coordinator.

5.0 PROCEDURE

NOTE

Since the circumstances that created the need for this procedure are quite diverse in nature, this procedure is to provide guidance, and should not be interpreted to necessarily dictate required actions.

NOTE

The LP&L Reserve District Office and the LP&L Luling District Office are the primary Staging Areas, unless directed otherwise by the Emergency Coordinator.

Select the appropriate (unaffected) District Office based on wind speed, wind direction, magnitude of release, etc.

Access to either District Office can be obtained during backshift, weekends and holidays by contacting LP&L Customer Service or Southern Control.

- 5.1 If other Staging Areas are considered, evaluate the selected Staging Area's ability to provide:
 - 5.1.1 Reasonable housing for approximately 50 people.
 - 5.1.2 Reasonable communications capability between Waterford 3 SES, the Backup EOF, and the Staging Area.
 - 5.1.3 Reasonable room to provide a lay down area for equipment.

NOTE

During extreme civil emergency, commercial phone exchanges can be overburdened. Consider establishing open phone lines between each facility where more reliable means do not exist.

- 5.2 Set up the following general functional areas based on the evaluation of the selected Staging Area.
 - 5.2.1 Command and Control.
 - 5.2.2 Support Personnel.
 - 5.2.3 Transportation.
- 5.3 Evaluate and determine what additional resources are required to support the operation of the Staging Area. Coordinate obtaining them through the Backup EOF Administrative/Logistics Coordinator.

- 5.4 Request Access Security for the Staging Area from the Administrative/Logistics Coordinator.
- 5.5 Establish and maintain communications with the Control Room and the Backup EOF.
- 5.6 For situations that appear to be of an extended nature (greater than two [2] hours), arrangements should be made for buses or vans to transport personnel and equipment to and from the site.
- 5.7 Travel arrangements to and from the site should be made through the Backup EOF organization and approved by the affected parish. Attachment 7.2, Check Sheet For Vehicles, should be used when dispatching vehicles.

- 6.0 FINAL CONDITIONS
- 6.1 All records have been completed and collected by the Staging Area Supervisor. The Staging Area Supervisor should forward the documentation to the Emergency Planning Manager.
- 6.2 All vehicles and equipment have been returned to original locations.
- 6.3 The Staging Area has been returned to it's normal configuration.

- 7.0 ATTACHMENTS
- 7.1 Essential Personnel Shift Staffing Requirements
- 7.2 Check Sheet For Vehicles

ESSENTIAL PERSONNEL SHIFT STAFFING REQUIREMENTS

	Normal Shift	Modes 1-4 *	Modes 5&6 *	Fire Brigade	First Aid	Minimum Staff
SS	1	1	1			1
CRS	1	1				1#
NPO	3	2	1	1		2
NAO	4	2	1	4		4
STA	1	1				1#
HP	2	1	1		1	1
CHEM	1	1**			1	1
MAINT.	6					
SSS	1	1	1			1

- * - Reference Table 6.2-1 of the Tech. Spec.
- ** - Administratively required
- # - Modes 1-4 only

Check Sheet For Vehicles

- | | Initials |
|---|----------|
| 1. Greater than 1/2 tank of fuel. | _____ |
| 2. Radio communications operational (if applicable) | _____ |
| 3. Protective clothing/respirators for each person available as necessary. | _____ |
| 4. Roster of personnel and driver made and recorded at the Staging Area. | _____ |
| 5. All supplies and equipment requested by the site on board. | _____ |
| 6. Parish approved route to be used. | _____ |
| 7. Station security informed prior to vehicle departure, and ETA at facility given. | _____ |
| 8. All vehicle windows and doors in good condition and capable of being shut. | _____ |

WATERFORD 3 SES PLANT OPERATING MANUAL



LOUISIANA
POWER & LIGHT

POM VOLUME 18
POM SECTION 4

EP-4-020
REVISION 0

EMERGENCY PLAN IMPLEMENTING PROCEDURE BACKUP EOF ACTIVATION, OPERATIONS, AND DEACTIVATION DURING A TOXIC CHEMICAL EMERGENCY

PORC Meeting No. 84-33

Reviewed: *J. Williams*
PORC Chairman

Approved: *P. Barkhurst*
Plant Manager-Nuclear

5/8/89
Approval Date

Effective Date

WATERFORD 3 SES
PLANT OPERATING MANUAL
REVIEW COVER SHEET

PROCEDURE NO. EP-4-020 TYPE Emission Plan Implementing Procedure
TITLE BK, EVF Activation, Operation PROCEDURE EFFECTIVE DATE _____
and Deactivation During A Foxe Chem. (If different from approval date)
AUTHOR [Signature]
TECHNICAL REVIEW [Signature] 4/11/84
Signature, Technical Reviewer Date

PORC REVIEW REQUIRED YES NO

SAFETY EVALUATION

Does this procedure:

1. Change the facility as described in the FSAR? YES ___ NO
2. Change the procedures as described in the FSAR? YES ___ NO
3. Conduct tests/experiments not described in the FSAR? YES ___ NO
4. Create a condition or conduct an operation which exceeds, or could result in exceeding, the limits in Technical Specifications? YES ___ NO

If any question 1 through 4 has been answered YES, complete and attach a 10 CFR 50.59 SAFETY EVALUATION.

SAFETY EVALUATION [Signature] 4/11/84
Signature, Technical Reviewer Date

GROUP/DEPARTMENT HEAD REVIEW [Signature] 4-17-84
Signature Date

QC REVIEW [Signature] 5-3-84
Signature, QC Engineer Date

PORC REVIEW [Signature] 5-4-84
Signature, PORC Chairman Date

PORC MEETING NO. 84-33

Applicable Conditions (Temporary Procedures Only): _____

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- 7.0 ATTACHMENTS
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 - 7.4 W3 SES SITE MAP
 - 7.5 BACKUP EOF STAFFING REQUIREMENTS

LIST OF EFFECTIVE PAGES

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1-17	0
	0

Emergency Plan Implementing Procedure
Backup EOF Activation, Operations, and
Deactivation During A Toxic Chemical Emergency

EP-4-020
Revision 0

1.0 PURPOSE

The purpose of this procedure is to provide guidance for activation, operation and deactivation of the Backup Emergency Operations Facility (EOF) during a situation in which toxic chemical release(s) are impacting or may potentially impact the safety of the Waterford 3 SES plant operations and/or employee safety.

2.0 REFERENCES

- 2.1 DOT P 5800.2, Hazardous Material Emergency Response Guidebook.
- 2.2 NIOSH/OSHA Pocket Guide To Chemical Hazards
- 2.3 NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards
- 2.4 Waterford 3 SES FSAR
- 2.5 EP-4-010, Toxic Chemical Contingency Procedure
- 2.6 EP-4-015, Offsite Personnel Staging During A Toxic Chemical Emergency
- 2.7 EP-2-150, Emergency Plan Implementing Records
- 2.8 OP-901-047, Off Normal Operating Procedure, Toxic Chemical Release
- 2.9 Emergency Management Resources Book
- 2.10 EP-2-170, Recovery

3.0 RESPONSIBILITIES

- 3.1 The EOF Director is responsible for the implementation of this procedure.
- 3.2 Each emergency position shall keep detailed logs and records of all activities which occur during the activation, and operation of the Backup EOF as per EP-2-150, Emergency Plan Implementing Records.

4.0 INITIATING CONDITIONS

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

- 4.1 Whenever EP-4-010, Toxic Chemical Contingency Procedure requires an Evacuation, Controlled Evacuation or Sheltering for greater than 30 minutes.
- 4.2 At the direction of the EOF Director.

5.0 PROCEDURE

CAUTION

DUE TO THE TOXIC CHEMICAL SITUATION AT WATERFORD 3 SES, THE NORMAL EMERGENCY ORGANIZATION AND EMERGENCY PLAN IMPLEMENTING PROCEDURES (EPIP's) WILL NOT BE USED UNLESS SPECIFICALLY CALLED FOR IN THIS PROCEDURE.

NOTE

Access to the Backup EOF - Many EOF Staff personnel have entrance keys to the Backup EOF office complex.

5.1 FIRST BACK-UP EOF RESPONDER

- 5.1.1 Verify that communications systems are operational.
- 5.1.2 Clear designated work areas of unnecessary personnel and equipment.
- 5.1.3 Set out the required communications log forms and the facility log sheets
- 5.1.4 Establish a "sign-in" roster and ensure new arrivals sign in.

5.2 EOF DIRECTOR

ACTIVATION

- 5.2.1 Contact the Emergency Coordinator at the site and determine the current plant status and emergency situation.

Emergency Plan Implementing Procedure
Backup EOF Activation, Operations, and
Deactivation During A Toxic Chemical Emergency

EP-4-020
Revision 0

- 5.2.2 Contact the Duty Emergency Director and apprise him of the current situation. Recommend that he activate the Corporate Command Center (CCC).
- 5.2.2.1 Request that Corporate Security provide access control to the Backup EOF and the Staging Area, as applicable.
- 5.2.2.2 Request that representatives of the Corporate Safety Group respond to the Backup EOF.
- 5.2.2.3 Assure that the Emergency News Director is contacted and apprised of the current situation. Request that the Emergency News Center be activated.
- 5.2.3 Evaluate Attachment 7.5 to determine the Backup EOF Staffing Requirements.
- 5.2.4 Ensure the following positions are filled with qualified individuals:
 - 5.2.4.1 EOF Director
 - 5.2.4.2 Operations/Engineering Coordinator
 - 5.2.4.3 Two (2) Support Engineers
 - 5.2.4.4 Two (2) Communicators
 - 5.2.4.5 Administrative/Logistics Coordinator
 - 5.2.4.6 Radiological Assessment Coordinator (RAC)
 - 5.2.4.7 Off-site Technical Advisor

OPERATIONS

- 5.2.5 Contact the Emergency Coordinator and determine the status of the following activities at a minimum:
 - 5.2.5.1 Plant operating status.
 - 5.2.5.2 Equipment that is out of service.
 - 5.2.5.3 Status and condition of the Shift Personnel.
 - 5.2.5.4 Status and condition of the breathing air system.
 - 5.2.5.5 Status and condition of other personnel onsite.

- 5.2.5.6 Most recent Industrial Hotline recommendation.
- 5.2.5.7 Present meteorological conditions.
- 5.2.5.8 Source and magnitude of the release.
- 5.2.5.9 If a Site Evacuation has been performed, request the number and location of the personnel remaining on site.

NOTE

For a Day Shift Evacuation or for emergency situations that are expected to last more than two (2) hours, assist in implementing EP-4-015, Off-Site Personnel Staging During A Toxic Chemical Emergency

NOTE

Access to the designated LP&L Staging Areas can be arranged by phoning the LP&L Customer Service.

- 5.2.5.10 The present Emergency Classification:
 - 5.2.5.10.1 Waterford 3 classification as per EP-4-010, Toxic Chemical Contingency Procedure.
 - 5.2.5.10.2 Parish classification as per the most recent Industrial Hotline (IHL) Report.
- 5.2.5.11 The status of communications with the NRC.
- 5.2.5.12 Determine what support is required by the Emergency Coordinator at this time.
- 5.2.6 Direct the Operations/Engineering Coordinator to evaluate the present situation and the plant status and make a recommendation as to continued plant operations.
- 5.2.7 Direct the RAC to evaluate the current toxic chemical release using known information from the FSAR, meteorological data and the isopleths. Estimate the possible magnitude of the release at the various LP&L facilities.

CAUTION

Loss of electrical power to the industries that surround Waterford 3 SES could cause the present emergency situation to deteriorate further.

- 5.2.8 Contact the Emergency Director and determine present load requirements and effects on the reliability of the power distribution system if the affected plants were to shut down and evacuate.
- 5.2.9 Determine the status and the location of the Duty Plant Manager, and the TSC Operations Coordinator.
- 5.2.9.1 If not at the plant, determine the location of both the Duty Plant Manager, and the TSC Operations Coordinator.
- 5.2.9.2 Determine if personnel can be safely dispatched to the plant, and the requirement for access into the local area.
- 5.2.9.3 If unable to gain access to the plant area, stage the Duty Plant Manager, and the TSC Operations Coordinator, as near the plant as possible and establish communications.

NOTE

THE DUTY PLANT MANAGER'S VEHICLE IS EQUIPPED WITH A RADIO PHONE AND OTHER COMMUNICATIONS EQUIPMENT. SEE THE EMERGENCY MANAGEMENT RESOURCES BOOK FOR PHONE NUMBERS.

- 5.2.10 Evaluate the duration of the release and it's long term effects on the W3SES facility.

NOTE

The primary Staging Areas are, the Luling District Office for the downriver Staging Area and the Reserve District Office for the upriver Staging Area.

NOTE

Access to the designated LP&L Staging Areas can be arranged by phoning LP&L Customer Service.

- 5.2.10.1 If the evaluation indicates an extended duration (greater than two hours), establish a Staging Area at the nearest convenient acceptable location.
- A. Select a facility that provides shelter, communications systems and room for approximately 50 people and equipment.
 - B. Dispatch the "on-call" TSC Supervisor and the "on-call" OSC Supervisor to coordinate and manage the Staging Area activities. See the Emergency Management Resources Book for telephone numbers.
- 5.2.11 Direct the Administrative/Logistics Coordinator to contact the on-coming shift personnel and inform them of the current situation. The on-coming shift should be directed to (one of the following):
- Standby at home location on call, or
 - Travel to the plant via an approved route, or
 - Assemble at Staging Area to standby, or
 - Assemble at the Staging Area to travel to the plant as a group (car pool or by bus), or
 - As directed by the EOF Director.
- 5.2.12 Direct that all staff positions maintain detailed logs of individual and organization activities as per EP-2-150.
- 5.2.13 Coordinate the passing of LP&L personnel through road blocks with the St. Charles Emergency Operations Center (EOC).
- 5.2.13.1 Ensure that Waterford 3 SES Security is notified of any personnel being dispatched to the facility.
- 5.2.14 Direct the Administrative/Logistics Coordinator to obtain a list of all personnel remaining on site after an evacuation. A copy of this list should be forwarded to the Emergency News Center for their use.

DEACTIVATION

- 5.2.15 Refer to the guidance of EP-2-170, Recovery, to establish the need and requirements for an emergency recovery organization and ensure the recovery activities of EP-4-010 are in progress.

- 5.2.16 Ensure facility logs are complete and direct the Administrative/Logistics Coordinator to collect and collate all Backup EOF documentation.
- 5.2.17 Notify all organizations that were contacted during the emergency for assistance, that the facility is deactivated.

5.3 OPERATIONS/ENGINEERING COORDINATOR

ACTIVATION

- 5.3.1 Ensure that the technical assessment group is adequately staffed and that the Chemistry discipline is represented. Call in additional personnel as necessary. See the Emergency Management Resources Book for names and phone numbers.
- 5.3.2 Ensure that communications equipment and documentation is available for the Operations/Engineering discipline use.

OPERATIONS

- 5.3.3 Evaluate present conditions.

NOTE

For EMERGENCY ASSISTANCE contact CHEMTREC at (800) 424-9300. (Reference DOT P 5800.2, Hazardous Materials Handbook.)

- 5.3.4 Advise the EOF Director as to the worst case effects of the chemical(s) involved. Considerations should be made as to the effects on:
- 5.3.4.1 Plant equipment.
- 5.3.4.2 Storage tanks that are vented to the atmosphere.
- 5.3.4.3 Electrical conductivity in the present atmospheric composition.
- 5.3.4.4 Piping and Insulation.
- 5.3.4.5 Effects on low ventilation areas.
- 5.3.4.6 Effects on compressed air systems and the associated components that are serviced by them.

5.3.7 Provide support as requested by the EOF Director.

DEACTIVATION

5.3.6 Ensure logs and records are completed.

5.3.7 Restore all equipment used during the emergency.

5.3.8 Notify all organizations that were contacted during the emergency, that the facility is deactivated.

5.3.9 Perform activities as directed by the EOF Director.

5.4 ADMINISTRATIVE/LOGISTICS COORDINATOR

ACTIVATION

5.4.1 Ensure that the facility is properly setup and that security has been requested.

5.4.2 Ensure that adequate personnel are available to allow the Backup EOF to function appropriately.

5.4.3 Ensure that adequate support documentation and supplies are available for the facility.

OPERATIONS

5.4.4 Ensure that a roster of personnel within the facility is maintained.

5.4.5 Ensure that the security force controls access to the Backup EOF to authorized individuals only.

5.4.6 Determine the names of the plant staff which have remained on site.

5.4.7 Provide equipment and supplies as directed by the EOF Director.

5.4.8 Evaluate the need for, and establish as necessary, a "call in" phone number(s) for LP&L employees who are seeking information as to their actions in response to the ongoing emergency situation.

5.4.9 Evaluate the need for, and staff as necessary, phone operators to contact designated individuals.

DEACTIVATION

- 5.4.10 Ensure logs and records are completed.
- 5.4.11 Collect all records and forward them to the Emergency Planning Manager.
- 5.4.12 Restore all equipment used during the emergency.
- 5.4.13 Notify all organizations that were contacted during the emergency that the facility is deactivated.
- 5.4.14 Perform activities as directed by the EOF Director.

5.5 RADIOLOGICAL ASSESSMENT COORDINATOR (RAC)

ACTIVATION

- 5.5.1 Ensure that adequate personnel are available to evaluate the toxic chemical release data.
- 5.5.2 Ensure that adequate equipment and supplies are available to perform and document assigned tasks.

OPERATIONS

- 5.5.3 Use isopleths (scaled in mg/m^3), FSAR Section 2.2 data, and known information to determine which LP&L facilities will be affected and the possible toxic chemicals release concentrations at given LP&L facilities.
- 5.5.4 Document your approach, assumptions, and results.
- 5.5.5 Perform activities as directed by the EOF Director.

DEACTIVATION

- 5.5.6 Ensure logs and records are completed.
- 5.5.7 Restore all equipment used during the emergency.
- 5.5.8 Notify all organizations that were contacted during the emergency that the facility is deactivated.
- 5.5.9 Perform activities as directed by the EOF Director.

5.6 OFF-SITE TECHNICAL ADVISOR

ACTIVATION

- 5.6.1 Ensure that equipment and supplies are available to perform your assigned tasks.

OPERATIONS

- 5.6.2 Establish communications with the Emergency News Center and provide plant and personnel status.
- 5.6.3 Maintain a detailed log of activities.
- 5.6.4 Perform activities as directed by the EOF Director.

DEACTIVATION

- 5.6.5 Ensure logs and records are completed.
- 5.6.6 Restore all equipment used during the emergency.
- 5.6.7 Notify all organizations that were contacted during the emergency that the facility is deactivated.
- 5.6.8 Perform activities as directed by the EOF Director.

5.7 COMMUNICATORS

ACTIVATION

- 5.7.1 Set up, and verify the operability of, available communications systems.
- 5.7.2 Ensure that adequate equipment and supplies are available to perform assigned tasks.

OPERATIONS

- 5.7.3 Communicate approved messages to designated organizations.
- 5.7.4 Establish and maintain communications with the Control Room.
- 5.7.5 Establish and maintain communications with the Staging Area, when the Staging Area is activated.
- 5.7.6 Maintain detailed record of communications activities.

DEACTIVATION

- 5.7.7 Ensure logs and records are completed.
- 5.7.8 Restore all equipment used during the emergency.
- 5.7.9 Notify all organizations that were contacted during the emergency that the facility is deactivated.
- 5.7.8 Perform activities as directed by the EOF Director.

6.0 FINAL CONDITIONS

- 6.1 All documentation is completed and forwarded to the Emergency Planning Manager.
- 6.2 The Recovery Organization is established as per EP-2-170, and the recovery activities in EP-4-010 are in progress.
- 6.3 All organizations notified during the emergency have been contacted and apprised as to the downgrading of the situation and the deactivation of the Backup EOF staff and associated support organizations.

7.0 ATTACHMENTS

- 7.1 Definitions
- 7.2 Backup EOF Layout
- 7.3 W3 SES 5 Mile Industry Map
- 7.4 W3 SES Site Map
- 7.5 Backup EOF Staffing Requirements

7.1 Definitions

UNUSUAL EVENT (St. Charles Parish)- 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 which presents no off-site threat and requires no assistance or protective actions. The situation is under control. Only Emergency Preparedness personnel would be notified.

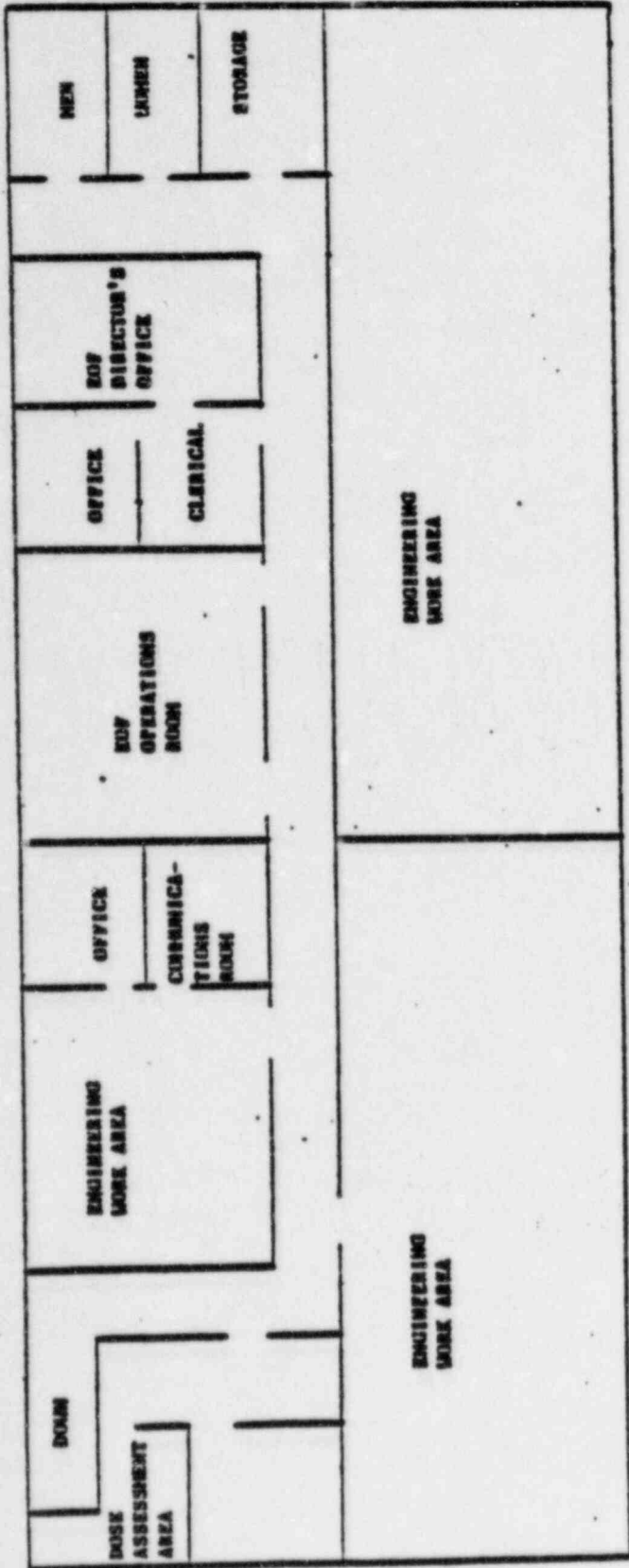
ALERT (St. Charles Parish)- An emergency such as a fire, explosion, gas or liquid release or other event has occurred which affects plant operations and/or has the potential to escalate to a more serious emergency. The emergency is not under control but poses no immediate threat to off-site areas. The EOC will be either partially or fully activated, dependant upon the situation.

SITE AREA EMERGENCY (St. Charles Parish)- A serious emergency such as a fire, explosion, gas or liquid release or other event has occurred or is imminent which seriously affects plant operations and/or poses a threat to residents or industries in the immediate vicinity of the affected industry. The emergency is not under control and protective actions will be necessary. The EOC would be fully activated and protective actions would be initiated.

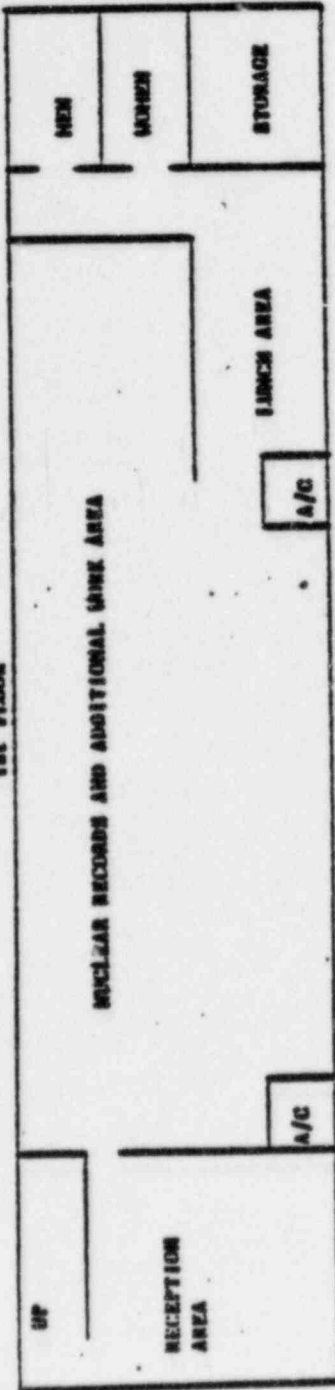
GENERAL EMERGENCY (St. Charles Parish)- A severe emergency such as a fire, explosion, gas or liquid release or other event has occurred or is imminent which seriously affects plant operations and/or off-site areas well beyond site boundaries. The emergency is not under control and protective actions for residents and neighboring industries are necessary. The EOC would be fully activated and protective actions would be initiated.

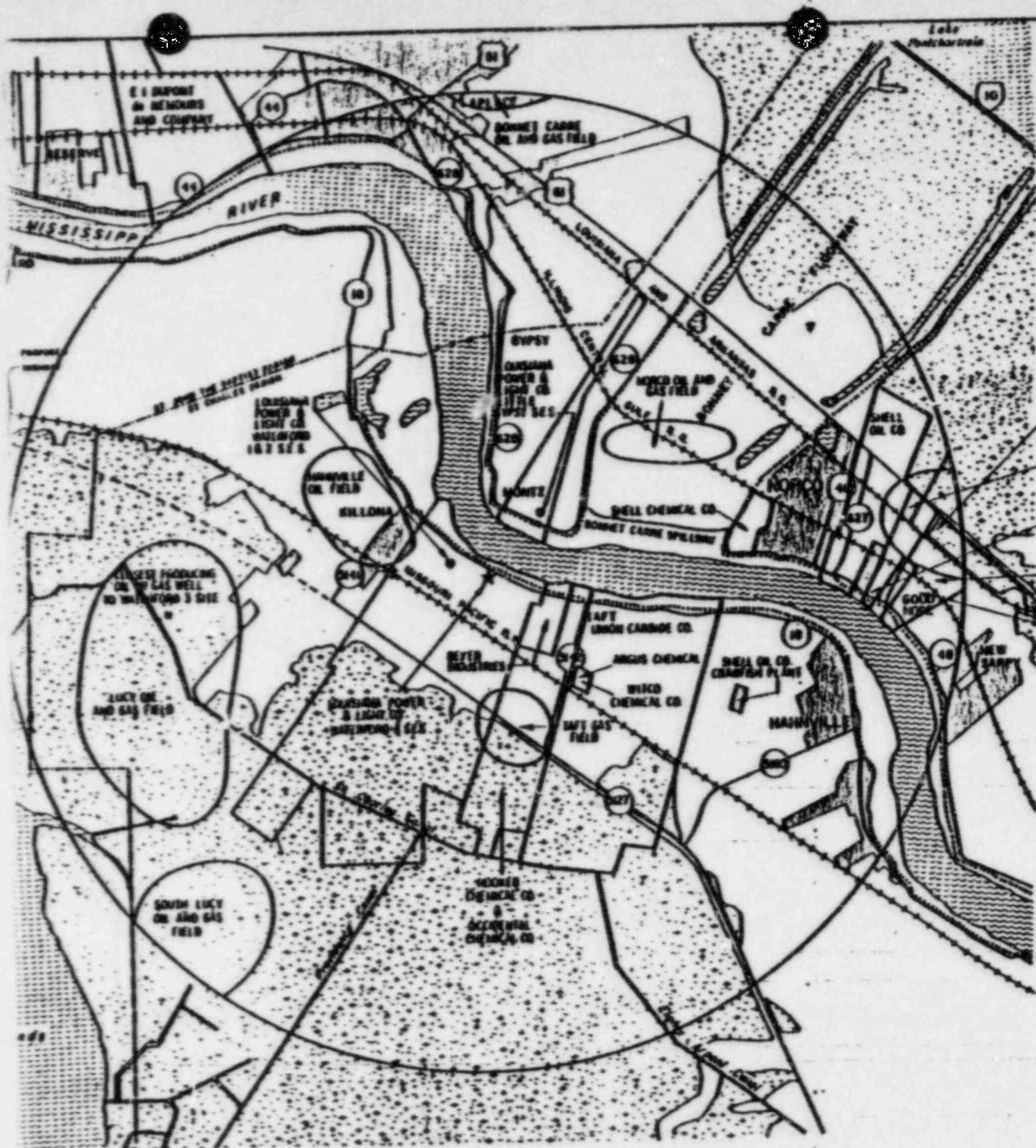
BACKUP EOP LAYOUT

2nd FLOOR

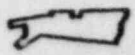
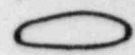

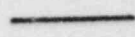
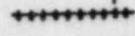

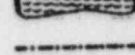




1st FLOOR





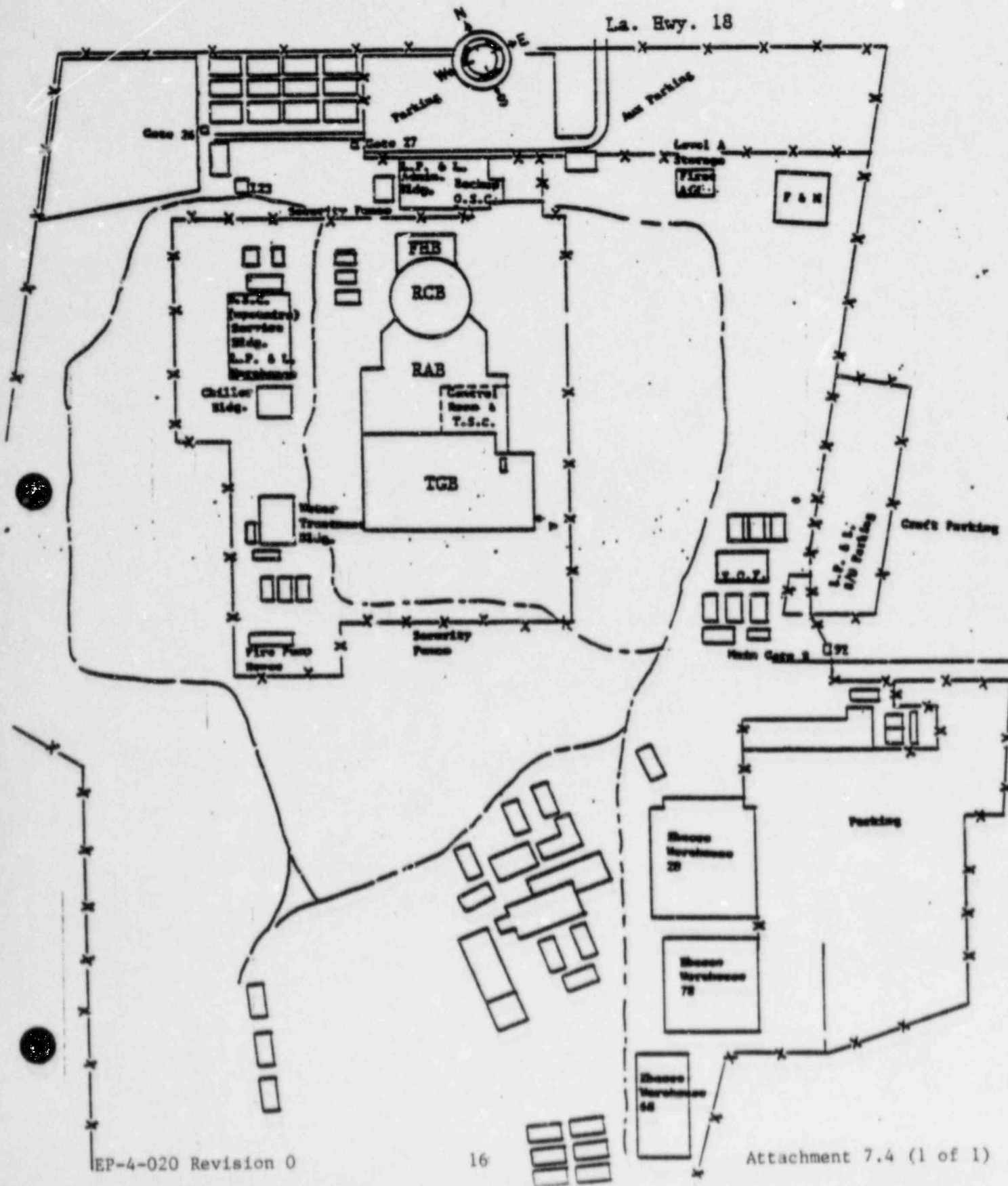
LEGEND

- MAJOR INDUSTRIES 
- OIL AND GAS FIELDS 
- URBAN AREAS 
- ROADS 
- RAILROADS 
- LEVEES 
- WATER BODIES 
- PARISH BOUNDARY 
- WETLANDS 



LOUISIANA POWER & LIGHT CO
Waterford Steam Electric Station
 MAJOR INDUSTRIES AND OIL AND GAS FIELDS WITHIN 5 MILES OF WATERFORD 3

WATERFORD 3 SITE



BACKUP EOF STAFFING REQUIREMENTS

Required for Activation

- 1 - EOF Director
- 1 - Operations/Engineering Coordinator
- 2 - Support Engineers
- 2 - Communicators
- 1 - Administrative/Logistics Coordinator
- 1 - Offsite Technical Advisor
- 1 - Radiological Assessment Coordinator

Secondary Responders (on an as needed bases)

- Administrative Assistant(s)
- Parish Technical Advisor(s)
- Corporate Safety Representative(s)
- Licensing Coordinator
- Others as directed by the EOF Director