

16748N

# CONTROLLED DOCUMENT TRANSMITTAL

16748N

Transmittal#: 16748N

Date: 04/06/2001

Initiator: LINDA MCCLERNAN

Page: 1

**Description:**

ISSUE OF 1 PMP-2080-EPP-100 (EMERGENCY PLAN PROCEDURE)

Distribution Group(s): **PMP-2080-EPP-100**

Section/Name	Mail Zone	Copies	Comments
Emergency Planning Coord	11	3C	
Installation Serv Library	6A	INDEX 1C	
JPIC	1*	1C	
Maint: I&C Library	2*	1C	
Maint: MTIS, M. Lower	16	1C	
MI Dept Environ Quality		1C	
NDM: Library	1*	1C	
NDM: Master Copy	1*	1U	
NGH: EDCC	22*	1C	
NGH: EOF (via EDCC)	22*	3C	
NRC: On Site	4A	1C	
NRC: Region III		2C	
NRC: Washington		2C	
Operations Library	5B*	1C	
OSA	1*	1C	
Reg Affairs Library	4A	1C	
S.S. Office	29*	1C	
Simulator	11	2C	
Site Protective Services	8B	1C	
State of Michigan		1C	
Training Cart 1, T. Ott	11	1C	
Training Cart 2, S. Gleffe	11	1C	
Training Cart 3, S. Freeman	11	1C	
Training Cart 4, S. Stiger	11	1C	
Training Cart 5, M. Juengling	11	1C	
Training Cart 6, D. Terry	11	1C	
Training Library	11	1C	
TSC	1*	3C	Include 1C Index Only
Unit 1 Control Room	29*	2C	
Unit 2 Control Room	29*	2C	
Visitor Center	25	1C	

**Transmitted Controlled Document Listing: (1)**

Document	Revision	Status	Title
PMP-2080-EPP-100	000	Approved	EMERGENCY RESPONSE

Controlled Document Transmittal Receipt and File Acknowledgement:

**CONTROLLED DOCUMENTS ONLY**

Signature

Date

A045

Please sign and return within 14 calendar days to: **D.C. Cook Nuclear Plant  
Nuclear Documents Mgmt (Mail Zone #1) - Document Control  
Bridgman, MI. 49106**

**REVIEW AND APPROVAL TRACKING FORM**

<b>Procedure Information:</b>	
Number: <u>PMP 2080 EPP 100</u>	Revision: <u>0</u> Change: <u>0</u>
Title: <u>Emergency Response</u>	
<b>Category (Select One Only):</b>	
<input type="checkbox"/> Correction (Full Procedure) <input type="checkbox"/> Change (Full Procedure) with Review of Change Only <input type="checkbox"/> Correction (Page Substitution) <input type="checkbox"/> Change (Page Substitution) with Review of Change Only <input type="checkbox"/> Cancellation <input checked="" type="checkbox"/> New Procedure or Change with Full Review <input type="checkbox"/> Superseded (list superseding procedures): _____	
<b>Associated Configuration Document Impact Assessments:</b>	
CDI Tracking No(s): _____ <input checked="" type="checkbox"/> N/A	
<b>Required Reviews:</b>	
<b>Cross-Discipline Reviews:</b> <input type="checkbox"/> Chemistry <input checked="" type="checkbox"/> Training <input type="checkbox"/> Maintenance <input type="checkbox"/> Work Control <input type="checkbox"/> NDM      _____ <input checked="" type="checkbox"/> Operations      _____ <input type="checkbox"/> PA/PV      _____ <input type="checkbox"/> Reg Affairs      _____ <input type="checkbox"/> RP <input type="checkbox"/> None Required	<b>Programmatic Reviews:</b> <input type="checkbox"/> ALARA <input type="checkbox"/> Performance Assurance <input checked="" type="checkbox"/> Bus. Services Proc Grp <input type="checkbox"/> Reactivity Mgmt Team <input type="checkbox"/> Component Engineering <input type="checkbox"/> SPS (Safety & Health) <input type="checkbox"/> Design Engineering <input type="checkbox"/> Surveillance Section <input type="checkbox"/> Emerg Oper Proc Grp <input type="checkbox"/> System Engineering <input type="checkbox"/> Environmental      _____ <input type="checkbox"/> ISI/IST Coordinator <input type="checkbox"/> None Required
<input checked="" type="checkbox"/> Cognizant Org Review: <u>Cynthia Bruffaris</u> Date: <u>3/22/01</u>	
<input checked="" type="checkbox"/> Technical Review: <u>John T. Conard</u> Date: <u>3/23/2001</u>	
<b>Concurrence:</b>	
<input type="checkbox"/> Ops Mgr Concurrence: _____ Date: <u>  /  /  </u>	
<input checked="" type="checkbox"/> Owner Concurrence: <u>[Signature]</u> Date: <u>3/22/01</u>	
<b>Package Check:</b>	
Updated Revision Summary attached? <input checked="" type="checkbox"/> Yes	
10 CFR 50.59 Requirements complete? Tracking No.: <u>2001-0166-00</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Implementation Plan developed? (Ref. Step 3.4.18) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Package Complete: <u>B. Connelly</u> Date: <u>3/23/01</u>	
<b>Approvals:</b>	
PORC Review Required: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No      Mtg. No.: <u>3862</u>	
Administrative Hold Status: <input type="checkbox"/> Released <input type="checkbox"/> Reissued <input checked="" type="checkbox"/> N/A      CR No.: _____	
Approval Authority Review/Approval: <u>J. Molder</u> Date: <u>4/4/01</u>	
Expiration Date/Ending Activity <u>NA</u> Effective Date: <u>4/6/01</u>	
<b>Periodic Review:</b>	
Periodic Review conducted? (Data Sheet 5 Complete) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

NDM Use Only  APR 06 2001  CONTROLLED DOCUMENT	<p align="center"><b>Office Information For Form Tracking Only - Not Part of Form</b></p> <p>This form is derived from the information in PMP-2010-PRC-002, Procedure Correction, Change, and Review, Rev. 8, Data Sheet 1, Review and Approval Tracking Form. <span style="float:right">Page <u>1</u> of <u>2</u></span></p>
--	---

## REVISION SUMMARY

Number: PMP-2080-EPP-100 Revision: 0 Change: 0  
Title: Emergency Response

12-PMP-2080.EPP.100, Initial Emergency Response, is a new procedure. This procedure has been written to incorporate initial response requirements contained in the following procedures:

- PMP-2080.EPP.102, Unusual Event
- PMP-2080.EPP.103, Alert
- PMP-2080.EPP.104, Site Area Emergency
- PMP-2080.EPP.105, General Emergency
- PMP-2080.EPP.106, Initial Offsite Notification

The reason this procedure has been written is to place all the initial response actions in a single document. The consolidation of these procedures insures consistency in the implementation of the emergency response actions no matter what initial classification is made during entry into the emergency plan, eliminates redundancy, and reduces the administrative burden by deleting five procedures and replacing them with one procedure.

It should be noted that the notification requirements contained within these deleted procedures have been incorporated into PMP-2080.EPP.107, Notification, Rev. 15.

**Office Information For Form Tracking Only - Not Part of Form**

This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction, Change, and Review, Rev. 8.

Page 1 of 1

 <small>AEP, America's Energy Partner</small>	PMP-2080-EPP-100	Rev. 0	Page 1 of 20
<b>Emergency Response</b>			
<b>Reference</b>			Effective Date: <u>4/6/01</u>
B. K. Molloy Writer	P. E. Holland Owner	Site Protective Services Cognizant Organization	

## TABLE OF CONTENTS

<b>1</b>	<b>PURPOSE AND SCOPE .....</b>	<b>2</b>
<b>2</b>	<b>DEFINITIONS AND ABBREVIATIONS .....</b>	<b>2</b>
<b>3</b>	<b>DETAILS .....</b>	<b>2</b>
<b>4</b>	<b>FINAL CONDITIONS.....</b>	<b>7</b>
<b>5</b>	<b>REFERENCES .....</b>	<b>8</b>
<b>Attachment 1:</b>	<b>PAR Flowchart and Map .....</b>	<b>9</b>
<b>Data Sheet 1:</b>	<b>Technical Information Sheet .....</b>	<b>11</b>
<b>Data Sheet 2:</b>	<b>Emergency Turnover Checklist .....</b>	<b>13</b>
<b>Figure 1:</b>	<b>Procedure Flowchart.....</b>	<b>17</b>

Reference	PMP-2080-EPP-100	Rev. 0	Page 2 of 20
<b>Emergency Response</b>			

## **1 PURPOSE AND SCOPE**

- 1.1 This procedure provides instructions to the Shift Manager acting as the Site Emergency Coordinator (SEC), for implementing a response to an Unusual Event (UE), Alert, Site Area Emergency (SAE) and General Emergency (GE) after an emergency has been declared.
- 1.2 The steps in this procedure are listed in the preferred order of performance for maximum efficiency. However, the steps may be performed in a different sequence.

## **2 DEFINITIONS AND ABBREVIATIONS**

None

<b>NOTE:</b> All procedure steps are applicable to all Emergency Classification Levels EXCEPT when the applicable Emergency Classification Level(s) is(are) specified within a step. (Reference Figure 1, Procedure Flowchart.)
---

## **3 DETAILS**

### **3.1 General**

- 3.1.1 **IF** a classification upgrade is required at any time while the procedure is being performed or after it is completed, **THEN** return to step 3.2, Instructions, and proceed through the procedure again.
- 3.1.2 The Operations Shift Manager acting as the SEC shall implement this procedure until relieved of SEC duties.
- 3.1.3 The following actions shall not be delegated by the SEC:
  - Classification of the emergency.
  - Directing the notification of offsite officials.

Reference	PMP-2080-EPP-100	Rev. 0	Page 3 of 20
Emergency Response			

- Approval of Protective Action Recommendations (PAR) to offsite emergency management agencies.
- 3.1.4 Declaration of an emergency requires the notification of the Berrien County Sheriff and Michigan State Police within 15 minutes. Notification of the NRC shall follow county and state notification and in all cases be completed within one hour.
- 3.1.5 Declaration of a General Emergency requires that a PAR be made to the state. The PAR should be made immediately after the notification of a General Emergency (i.e., during the same phone call).
- 3.1.6 The Emergency Response Data System (ERDS) for the affected Unit must be operational and transmitting data to the NRC within one hour of an ALERT or higher declaration.
- 3.1.7 The Operations Staging Area (OSA), Technical Support Center (TSC), and the Emergency Operations Facility (EOF) are required to be activated at an ALERT classification or higher.
- 3.2 Instructions
- 3.2.1 Inform Unit 1 and Unit 2 Control Room personnel of the event classification and that the Shift Manager has assumed the position of SEC.
- 3.2.2 Implement or direct the implementation of PMP-2080-EPP-107, Notification.
- 3.2.3 **IF** a Site Area Emergency or General Emergency has been declared, **THEN** notify the Security Shift Supervisor (x 2005 or 2731) to perform accountability in accordance with PMP-2081-EPP-104, Security Actions During Emergency Conditions.
- a. **WHEN** evacuation is necessary, **THEN** inform the Security Shift Supervisor (x 2005 or 2731) to implement PMP-2081-EPP-103, Evacuation of Plant Personnel.
  - b. **WHEN** evacuation of the beach is necessary, **THEN** activate the beach activation warning system.

**Emergency Response**

- 3.2.4 **IF** a hazard to plant personnel exists (e.g., fire, radiation or toxic gas), **THEN** perform one of the following steps:
- a. **IF** the condition is local, **THEN** evacuate the area by page announcement.
  - b. **IF** the condition impacts significant portions of the plant, **THEN** direct the Security Shift Supervisor (x 2005 or 2731) to perform accountability in accordance with Security Post Orders and perform an evacuation.

**NOTE:** The presence of an offsite dose rate may require re-classification of the event in accordance with ECC R-1, Effluent Release, PMP-2080-EPP-101, Emergency Classification.

- 3.2.5 **IF** a gaseous release of radioactive material is occurring, **THEN** initiate use of the Dose Assessment Program (DAP), to determine the magnitude of offsite dose levels. The following Emergency Plan procedures should be used as appropriate:
- PMP-2080-EPP-108, Initial Dose Assessment (for use in the Control Room).
  - PMP-2081-EPP-304, Offsite Dose Projection (for use in the EOF).
- 3.2.6 **IF** additional personnel are required to respond to an Unusual Event to support the emergency response, **THEN**:
- a. Call the Secondary Alarm Station (SAS) (x1118) and direct security to implement the Dialogic Emergency Response Notification System for an **EMERGENCY**.

Reference	PMP-2080-EPP-100	Rev. 0	Page 5 of 20
<b>Emergency Response</b>			

- b. Direct a Control Room Operator to make the following announcement for the appropriate ERO facility(s) to be activated, over the PA system. Have the announcement broadcast twice.

**“Attention all personnel. Attention all personnel. The Unusual Event is still in effect, however report to and activate the Operations Staging Area/Technical Support Center/Emergency Operations Facility. All other plant personnel be prepared for further announcements.”**

- c. On any touch-tone telephone:
- Dial 1646
  - Wait for the tone
  - Press ## to access the Training Center and Buchanan Office Building PA
  - Repeat the above announcement twice

3.2.7 **IF** a General Emergency has been declared, **THEN** direct the development of a Protective Action Recommendation using the following steps:

- a. Prior to developing a PAR consider whether the following could have an effect on the PAR:
- Adverse weather conditions.
  - A forecast of changing weather conditions.
  - Release characteristics (Puff vs. Continuous)
  - Evacuation times per Attachment 3 of PMP-2081-EPP-305, Protective Action Recommendations
- b. Include any deviations from the PAR flowchart, Attachment 1, based on this step in the protective action recommendation.

Reference	PMP-2080-EPP-100	Rev. 0	Page 6 of 20
Emergency Response			

- c. Obtain the following data:
    - Wind direction
    - AND -
    - Offsite dose projection (if available) as calculated using DAP or actual offsite dose rate measurements.
  - d. Using Attachment 1, determine the appropriate PAR.
  - e. Enter the Protective Action Recommendation on the Nuclear Plant Accident Notification form, obtained from the Emergency Kit and inform the State of Michigan of the recommendation immediately.
  - f. Repeat Steps 3.2.7.a through 3.2.7.e every 15 minutes or as requested until relieved by the incoming Emergency Response Organization.
- 3.2.8 Perform mitigating actions in accordance with appropriate plant procedures.
- 3.2.9 **IF** the Plant Process Computer (PPC) is inoperable, **THEN**:
- Designate someone to complete Data Sheet 1, Technical Information Sheet, every 15 minutes.
  - Forward the completed copy to the TSC.
  - Continue this activity for the duration of the emergency or until the PPC is operable.
- 3.2.10 **IF** accountability results identify a missing person(s) **AND** the TSC and OSA are **NOT** activated, **THEN** have Security attempt to locate the missing person(s) per PMP-2081-EPP-103, Assembly, Accountability, and Evacuation of Personnel.
- 3.2.11 Upon arrival of the oncoming SEC conduct a turnover as follows:
- a. Obtain a copy of Data Sheet 2, Emergency Turnover Checklist.

Reference	PMP-2080-EPP-100	Rev. 0	Page 7 of 20
<b>Emergency Response</b>			

- b. Have the oncoming SEC complete the checklist as each item is verbally addressed.

**3.3 Subsequent Instructions for the Shift Manager After Being Relieved of SEC Duties**

3.3.1 **WHEN** relieved of SEC responsibilities, **THEN** resume the sole function of Shift Manager.

- Notify the Control Rooms that the Shift Manager has been relieved of SEC responsibilities.

3.3.2 Direct the continued implementation of the appropriate Emergency Operating Procedure (EOP) and/or Abnormal Operating Procedure (AOP) to return the unit to a safe condition.

3.3.3 Inform the TSC of changes in plant condition and equipment status.

3.3.4 Inform the TSC of mitigating actions to be taken or any that have been completed.

3.3.5 **IF** additional personnel are required, **THEN** request assistance from the TSC.

3.3.6 Assemble all documentation associated with the emergency and forward it to the Emergency Planning Coordinator. This documentation should include:

- Complete notification forms
- Copies of pertinent log entries
- Copy of the Condition Report if generated
- Other documentation deemed appropriate by the Shift Manager

**4 FINAL CONDITIONS**

4.1 The emergency has been terminated and the plant has entered the recovery phase.

Reference	PMP-2080-EPP-100	Rev. 0	Page 8 of 20
Emergency Response			

## 5 REFERENCES

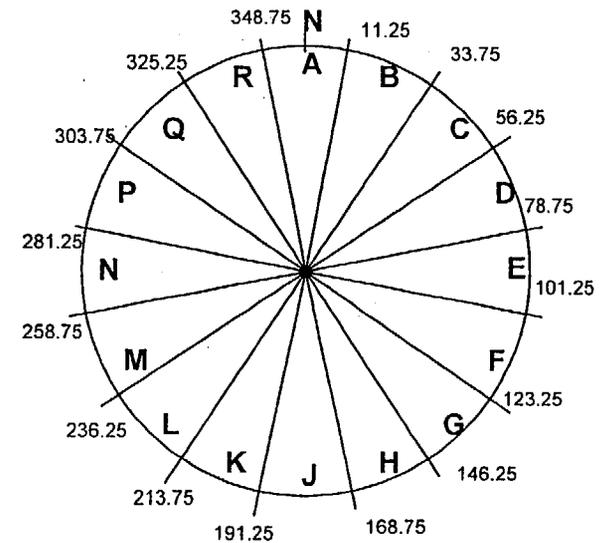
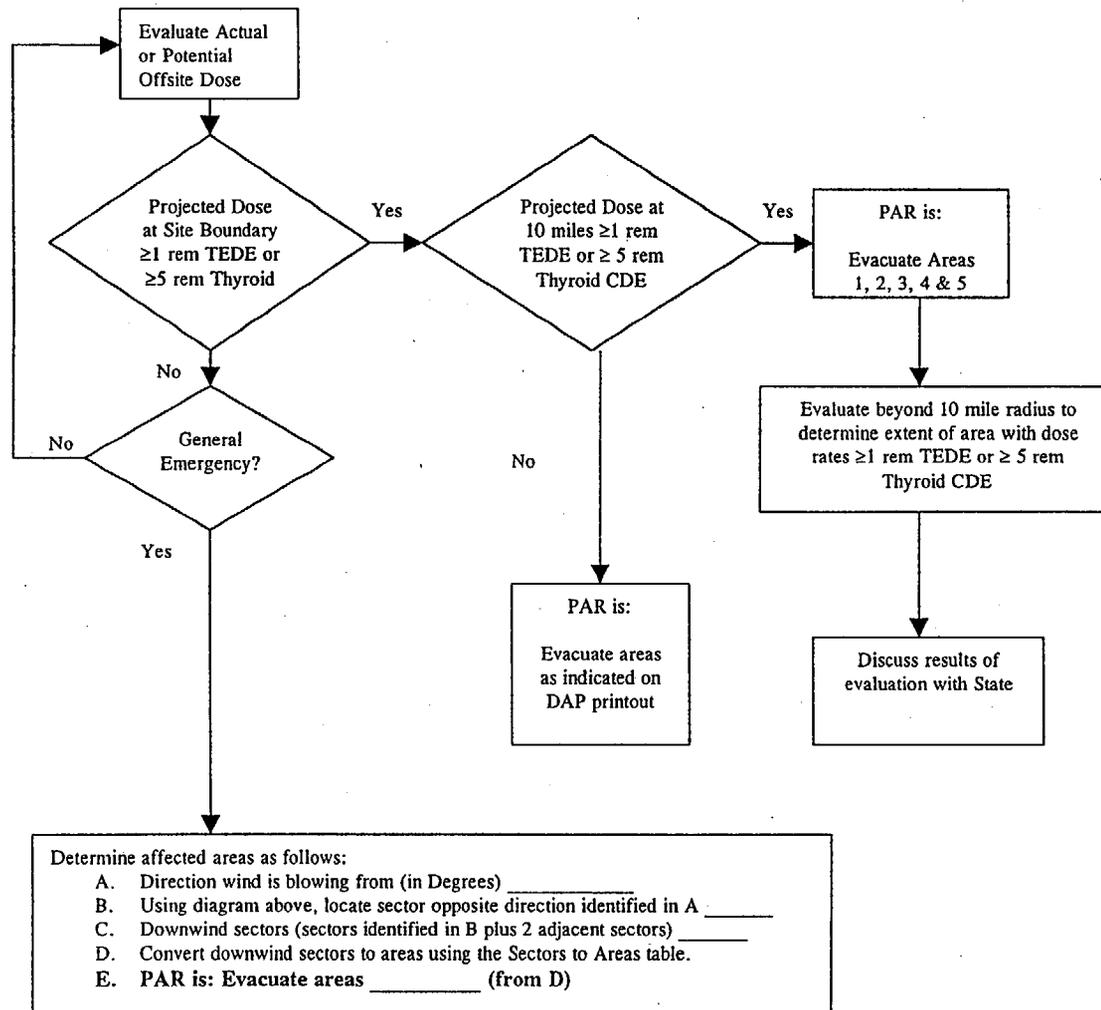
### 5.1 Use References:

- 5.1.1 PMP-2080-EPP-101, Emergency Classification
- 5.1.2 PMP-2080-EPP-107, Notification
- 5.1.3 PMP-2080-EPP-108, Initial Dose Assessment
- 5.1.4 PMP-2081-EPP-103, Assembly, Accountability and Evacuation of Plant Personnel
- 5.1.5 PMP-2081-EPP-104, Security Actions During Emergency Conditions
- 5.1.6 PMP-2081-EPP-304, Off-Site Dose Projection
- 5.1.7 PMP-2081-EPP-305, Protective Action Recommendations

### 5.2 Writing References:

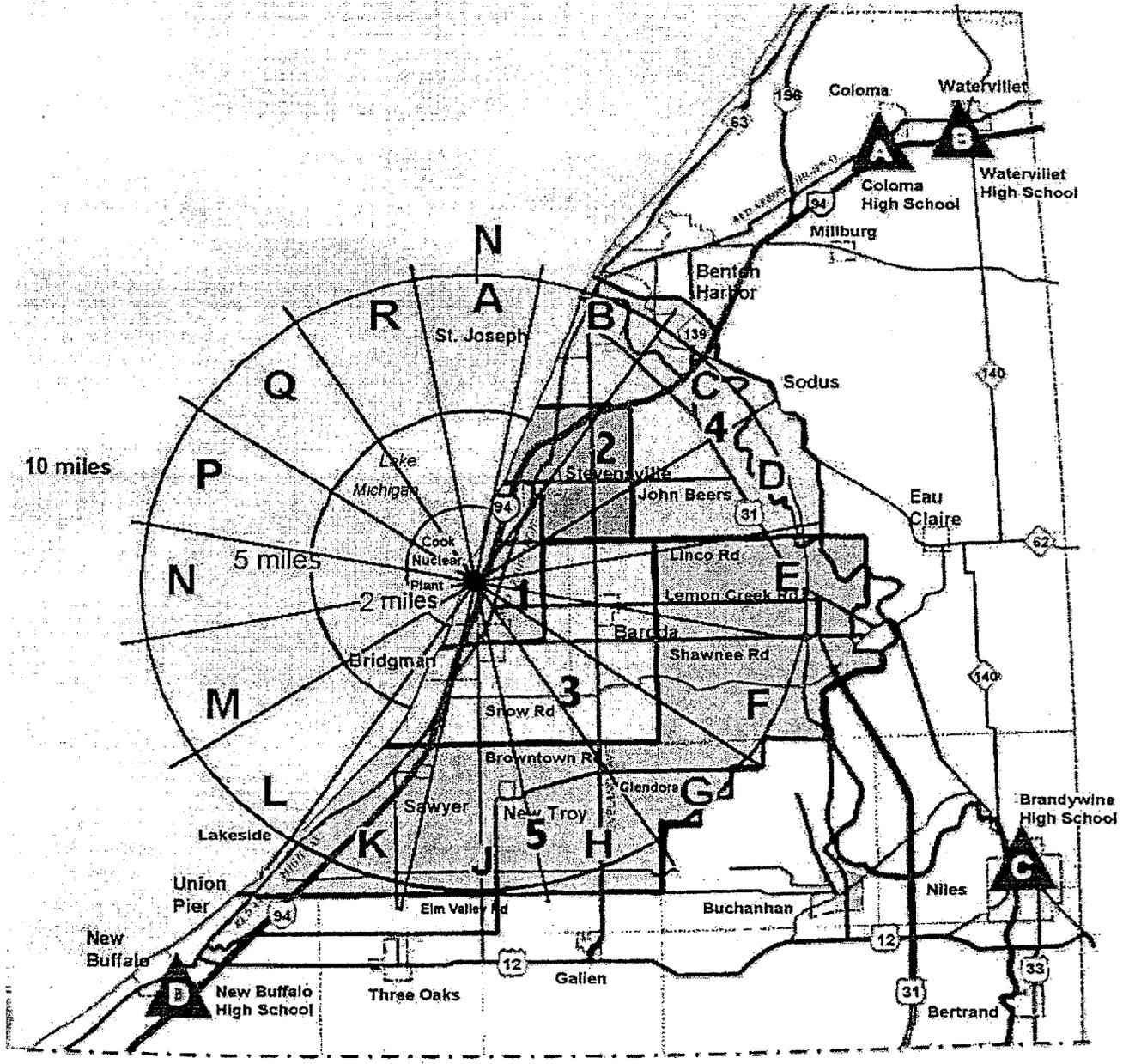
- 5.2.1 Source References:
  - a. Cook Nuclear Plant Emergency Plan
- 5.2.2 General References
  - a. Michigan Emergency Preparedness Plan

Reference	PMP-2080-EPP-100	Rev. 0	Page 9 of 20
<b>Emergency Response</b>			
Attachment 1	PAR Flowchart and Map		Pages: 9 - 10



Sectors	Areas
A, B & C to 5 miles	1 and 2
B, C & D to 5 miles	1, 2 and 3
C, D & E to 5 miles	1, 2 and 3
D, E, & F to 5 miles	1, 2 and 3
E, F & G to 5 miles	1, 2 and 3
F, G & H to 5 miles	1 and 3
G, H & J to 5 miles	1 and 3
H, J & K to 5 miles	1 and 3
J, K & L to 5 miles	1 and 3
K, L & M to 5 miles	1 and 3
L, M & N to 5 miles	1
M, N & P to 5 miles	1
N, P & Q to 5 miles	1
P, Q & R to 5 miles	1
Q, R & A to 5 miles	1
R, A & B to 5 miles	1 and 2

Reference	PMP-2080-EPP-100	Rev. 0	Page 10 of 20
Emergency Response			
Attachment 1	PAR Flowchart and Map		Pages: 9 - 10



Reference	PMP-2080-EPP-100	Rev. 0	Page 11 of 20
Emergency Response			
Data Sheet 1	Technical Information Sheet		Pages: 11 - 12

Unit No: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Data Taken By: \_\_\_\_\_ Data Reviewed By: \_\_\_\_\_

**NOTE:** When redundant indication exists, record most severe condition.

**RCS PARAMETER**

- |                                       |                                 |                                 |                   |
|---------------------------------------|---------------------------------|---------------------------------|-------------------|
| 1. Containment Temp.                  | * _____ °F                      | 5. Intermediate Range           | _____ AMPS        |
| 2. Cont. H <sub>2</sub> Concentration | * _____ %                       | 6. Containment Pressure         | _____ PSIG        |
| 3. RWST Level                         | * _____ %                       | 7. Containment Sump Level       | * _____ %         |
| 4. Source Range                       | * _____ CPM                     | 8. Containment Level            | * _____ %         |
| 9. CTS Pumps                          | East * ON / OFF                 |                                 | West * ON / OFF   |
| 10. RHR Spray Flow                    | East * _____ GPM                |                                 | West * _____ GPM  |
| 11. SI Flow                           | North * _____ GPM               |                                 | South * _____ GPM |
| 12. BIT Flow                          | LP1* _____ GPM LP2* _____ GPM   | LP3* _____ GPM LP4* _____ GPM   |                   |
| 13. Accum Pressure                    | LP1* _____ PSIG LP2* _____ PSIG | LP3* _____ PSIG LP4* _____ PSIG |                   |
| 14. RHR Injection Flow                | East * _____ PSIG               | West * _____ PSIG               |                   |
| 15. RCP Status                        | *LP1 ON / OFF *LP2 ON / OFF     | *LP3 ON / OFF *LP4 ON / OFF     |                   |
| 16. RCS Pressure                      | _____ PSIG                      | 22. PRT Level                   | _____ %           |
| 17. Charging Flow                     | _____ GPM                       | 23. PRT Pressure                | _____ PSIG        |
| 18. PZR Liquid Temp.                  | _____ °F                        | 24. PZR Cycling Htrs            | * ON / OFF        |
| 19. PZR Steam Temp.                   | _____ °F                        | 25. PZR Backup Htrs             | * ON / OFF        |
| 20. PZR Level                         | _____ %                         | 26. Letdown Flow                | _____ GPM         |



Reference	PMP-2080-EPP-100	Rev. 0	Page 13 of 20
Emergency Response			
Data Sheet 2	Emergency Turnover Checklist		Pages: 13 - 16

1. Emergency Classification

	<u>Time Declared</u>
_____ Unusual Event	_____
_____ Alert	_____
_____ Site Area Emergency	_____
_____ General Emergency	_____

2. Have notifications been completed?

a. Berrien County:	yes / no / in progress	Time: _____
b. Michigan:	yes / no / in progress	Time: _____
c. NRC:	yes / no / in progress	Time: _____
d. NGG Personnel:	yes / no / in progress	Time: _____

3. Protective Actions:

a. Local area evacuation	yes / no	Time: _____
b. Site evacuation	yes / no	Time: _____
c. Accountability	yes / no	Time: _____
d. Site closed to visitors	yes / no	Time: _____
e. Offsite protective action recommended:		
• Evacuation:	yes / no areas: _____	Time: _____
• Shelter:	yes / no areas: _____	Time: _____

Reference	PMP-2080-EPP-100	Rev. 0	Page 14 of 20
<b>Emergency Response</b>			
Data Sheet 2	Emergency Turnover Checklist		Pages: 13 - 16

4. Plant Operational Status

a. Reactor trip: yes / no time: \_\_\_\_\_ Trip signal: \_\_\_\_\_

b. ESF Status: \_\_\_\_\_  
\_\_\_\_\_

c. EOP Status: \_\_\_\_\_  
\_\_\_\_\_

5. Plant Status

a. Chronology of Events

<u>Time</u>	<u>Event</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

b. Current Plant Conditions

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Reference	PMP-2080-EPP-100	Rev. 0	Page 15 of 20
<b>Emergency Response</b>			
Data Sheet 2	Emergency Turnover Checklist		Pages: 13 - 16

c. Potential for Plant Degradation

---



---

d. Mitigating Actions Taken or Underway

---



---



---



---



---



---

6. Plant Radiological Conditions

a. Inplant/Onsite Radiological Conditions

---



---



---



---



---



---



---



---

Reference	PMP-2080-EPP-100	Rev. 0	Page 16 of 20
<b>Emergency Response</b>			
Data Sheet 2	Emergency Turnover Checklist		Pages: 13 - 16

b. Potential for Offsite Release of Radioactivity

\_\_\_\_\_ Airborne      \_\_\_\_\_ Water

---



---



---



---



---



---

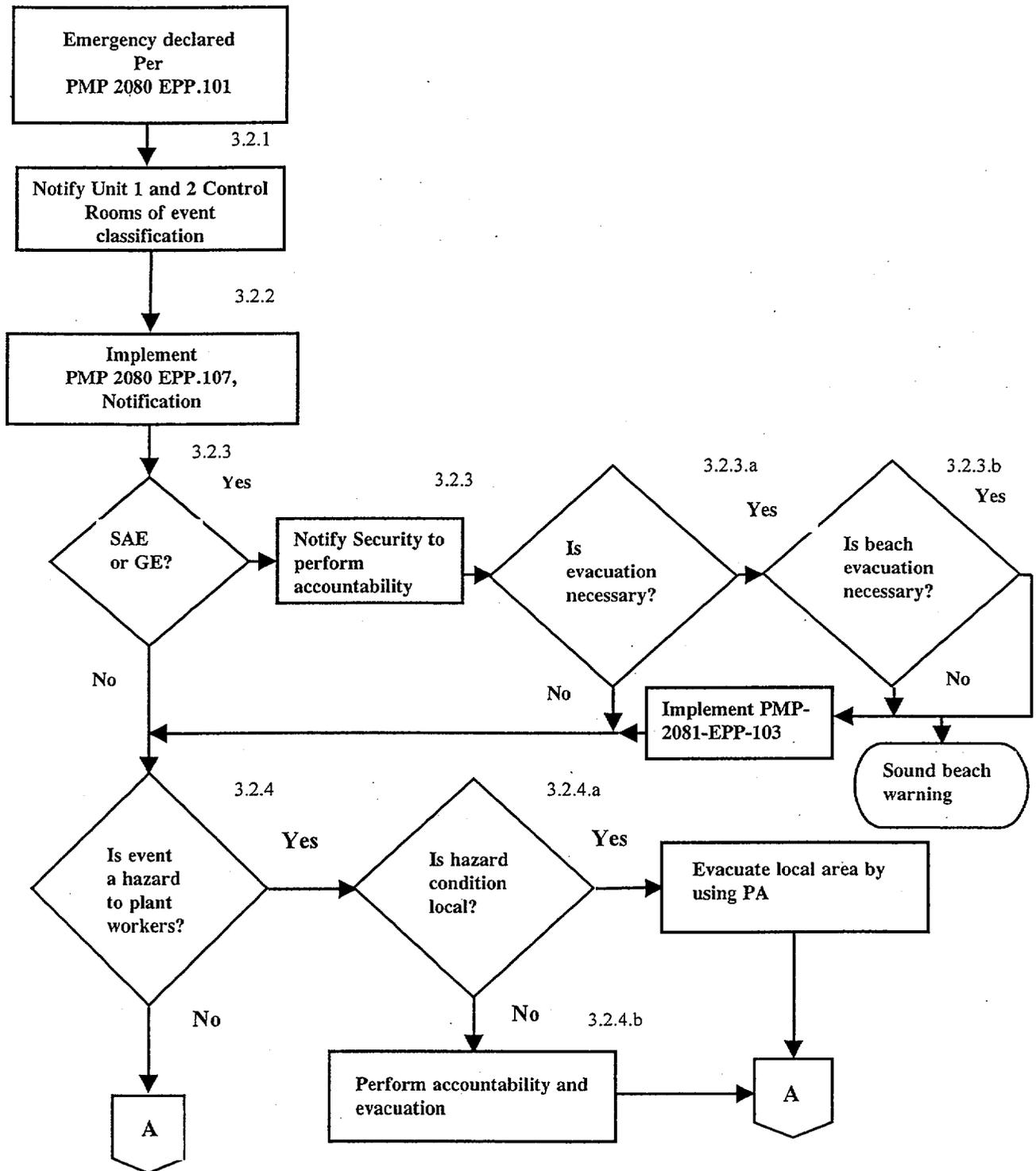


---

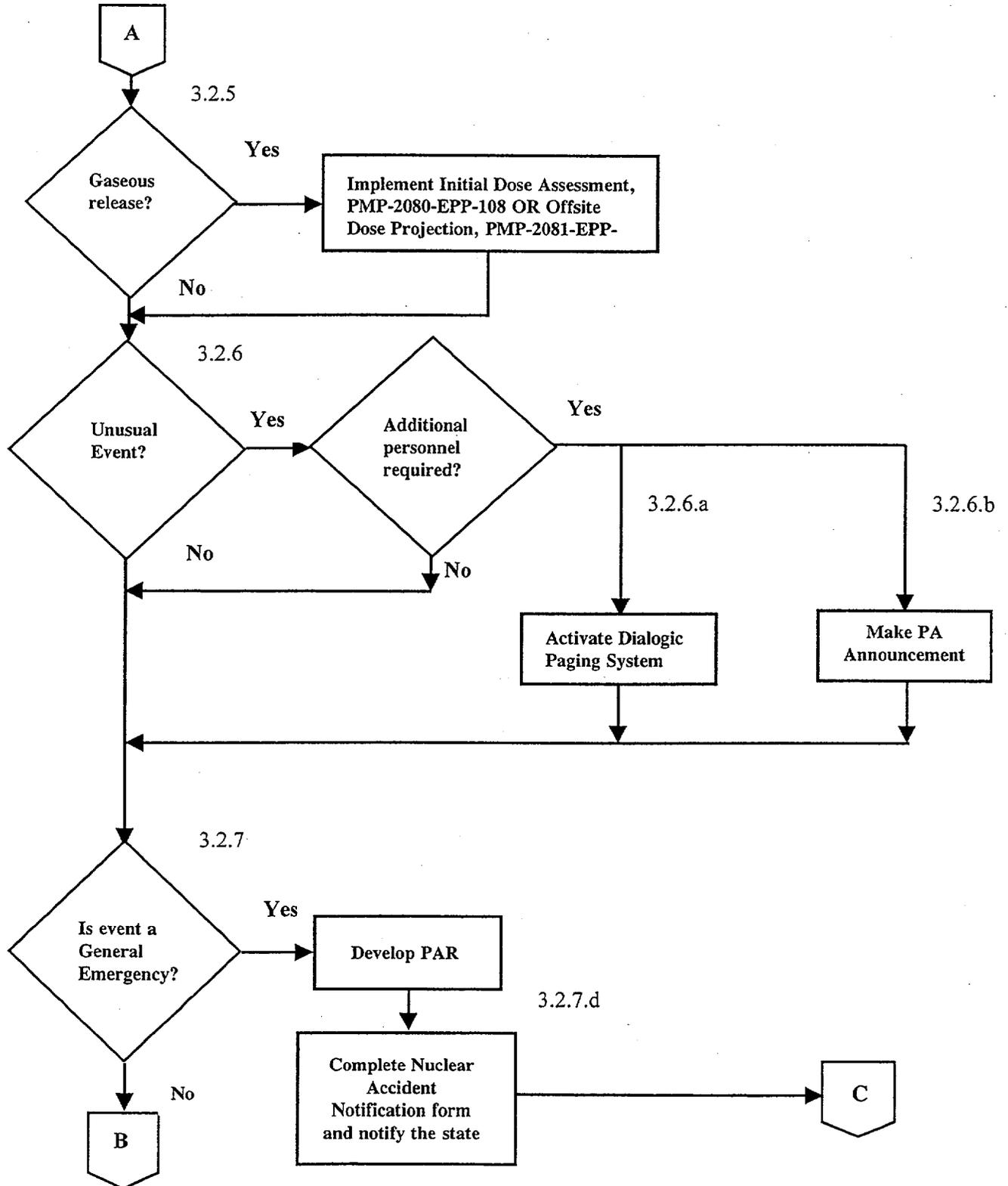
7. Injured or Contaminated Personnel:

<u>Name</u>	<u>Employer</u>	<u>Status</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

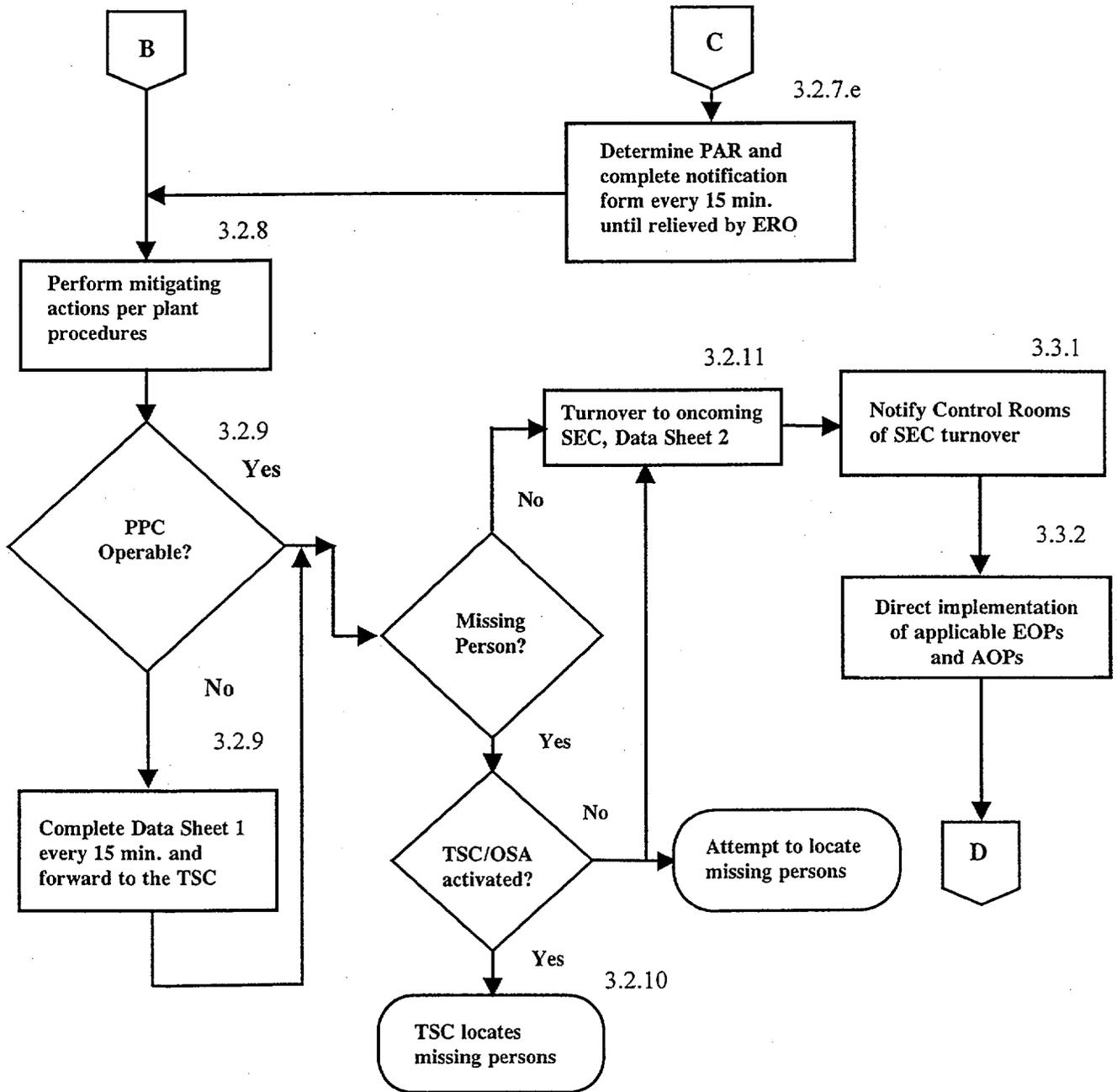
Reference	PMP-2080-EPP-100	Rev. 0	Page 17 of 20
Emergency Response			
Figure 1	Procedure Flowchart		Pages: 17 - 20



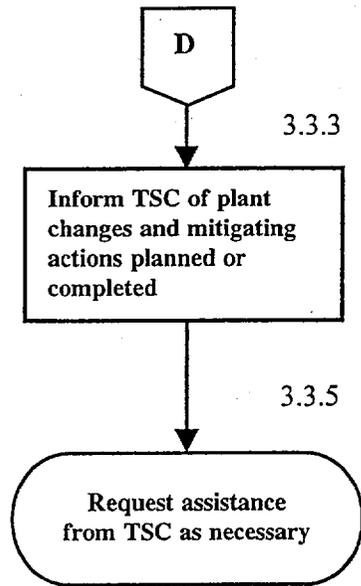
Reference	PMP-2080-EPP-100	Rev. 0	Page 18 of 20
Emergency Response			
Figure 1	Procedure Flowchart		Pages: 17 - 20



Reference	PMP-2080-EPP-100	Rev. 0	Page 19 of 20
Emergency Response			
Figure 1	Procedure Flowchart		Pages: 17 - 20



Reference	PMP-2080-EPP-100	Rev. 0	Page 20 of 20
Emergency Response			
Figure 1	Procedure Flowchart		Pages: 17 - 20



**REVIEW AND APPROVAL TRACKING FORM**

<b>Procedure Information:</b>	
Number: <u>PMP 2080 EPP 100</u>	Revision: <u>0</u> Change: <u>0</u>
Title: <u>Emergency Response</u>	
<b>Category (Select One Only):</b>	
<input type="checkbox"/> Correction (Full Procedure) <input type="checkbox"/> Change (Full Procedure) with Review of Change Only <input type="checkbox"/> Correction (Page Substitution) <input type="checkbox"/> Change (Page Substitution) with Review of Change Only <input type="checkbox"/> Cancellation <input checked="" type="checkbox"/> New Procedure or Change with Full Review <input type="checkbox"/> Superseded (list superseding procedures): _____	
<b>Associated Configuration Document Impact Assessments:</b>	
CDI Tracking No(s): _____ <input checked="" type="checkbox"/> N/A	
<b>Required Reviews:</b>	
<b>Cross-Discipline Reviews:</b> <input type="checkbox"/> Chemistry <input checked="" type="checkbox"/> Training <input type="checkbox"/> Maintenance <input type="checkbox"/> Work Control <input type="checkbox"/> NDM      _____ <input checked="" type="checkbox"/> Operations      _____ <input type="checkbox"/> PA/PV      _____ <input type="checkbox"/> Reg Affairs      _____ <input type="checkbox"/> RP <input type="checkbox"/> None Required	<b>Programmatic Reviews:</b> <input type="checkbox"/> ALARA <input type="checkbox"/> Performance Assurance <input checked="" type="checkbox"/> Bus. Services Proc Grp <input type="checkbox"/> Reactivity Mgmt Team <input type="checkbox"/> Component Engineering <input type="checkbox"/> SPS (Safety & Health) <input type="checkbox"/> Design Engineering <input type="checkbox"/> Surveillance Section <input type="checkbox"/> Emerg Oper Proc Grp <input type="checkbox"/> System Engineering <input type="checkbox"/> Environmental      _____ <input type="checkbox"/> ISI/IST Coordinator <input type="checkbox"/> None Required
<input checked="" type="checkbox"/> Cognizant Org Review: <u>Cynthia Buffonino</u> Date: <u>3/23/01</u> <input checked="" type="checkbox"/> Technical Review: <u>John T. Conrad</u> Date: <u>3/23/2001</u>	
<b>Concurrence:</b>	
<input type="checkbox"/> Ops Mgr Concurrence: _____ Date: <u>  /  /  </u> <input checked="" type="checkbox"/> Owner Concurrence: <u>[Signature]</u> Date: <u>3/22/01</u>	
<b>Package Check:</b>	
Updated Revision Summary attached? <input checked="" type="checkbox"/> Yes 10 CFR 50.59 Requirements complete? Tracking No.: <u>2001-0166-00</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Implementation Plan developed? (Ref. Step 3.4.18) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Package Complete: <u>BK Malloy</u> Date: <u>3/23/01</u>	
<b>Approvals:</b>	
PORC Review Required: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No      Mtg. No.: <u>3862</u> Administrative Hold Status: <input type="checkbox"/> Released <input type="checkbox"/> Reissued <input checked="" type="checkbox"/> N/A      CR No.: _____ Approval Authority Review/Approval: <u>J. Molder</u> Date: <u>4/4/01</u> Expiration Date/Ending Activity: <u>NA</u> Effective Date: <u>4/6/01</u>	
<b>Periodic Review:</b>	
Periodic Review conducted? (Data Sheet 5 Complete) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>NDM Use Only</b>  NUCLEAR DOCUMENT MANAGEMENT SECTION  <b>APR 06 2001</b>  CONTROLLED DOCUMENT	<b>Office Information For Form Tracking Only - Not Part of Form</b>  This form is derived from the information in PMP-2010-PRC-002, Procedure Correction, Change, and Review, Rev. 8, Data Sheet 1, Review and Approval Tracking Form. <span style="float: right;">Page <u>1</u> of <u>2</u></span>

## REVISION SUMMARY

Number: PMP-2080-EPP-100 Revision: 0 Change: 0  
Title: Emergency Response

12-PMP-2080.EPP.100, Initial Emergency Response, is a new procedure. This procedure has been written to incorporate initial response requirements contained in the following procedures:

- PMP-2080.EPP.102, Unusual Event
- PMP-2080.EPP.103, Alert
- PMP-2080.EPP.104, Site Area Emergency
- PMP-2080.EPP.105, General Emergency
- PMP-2080.EPP.106, Initial Offsite Notification

The reason this procedure has been written is to place all the initial response actions in a single document. The consolidation of these procedures insures consistency in the implementation of the emergency response actions no matter what initial classification is made during entry into the emergency plan, eliminates redundancy, and reduces the administrative burden by deleting five procedures and replacing them with one procedure.

It should be noted that the notification requirements contained within these deleted procedures have been incorporated into PMP-2080.EPP.107, Notification, Rev. 15.

**Office Information For Form Tracking Only - Not Part of Form**

This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction, Change, and Review, Rev. 8.

Page 1 of 1

	PMP-2080-EPP-100	Rev. 0	Page 1 of 20
<b>Emergency Response</b>			
<b>Reference</b>			Effective Date: <u>4/6/01</u>
B. K. Molloy Writer	P. E. Holland Owner	Site Protective Services Cognizant Organization	

**TABLE OF CONTENTS**

1 PURPOSE AND SCOPE .....2

2 DEFINITIONS AND ABBREVIATIONS.....2

3 DETAILS .....2

4 FINAL CONDITIONS.....7

5 REFERENCES .....8

Attachment 1: PAR Flowchart and Map .....9

Data Sheet 1: Technical Information Sheet ..... 11

Data Sheet 2: Emergency Turnover Checklist ..... 13

Figure 1: Procedure Flowchart..... 17

Reference	PMP-2080-EPP-100	Rev. 0	Page 2 of 20
<b>Emergency Response</b>			

## 1 PURPOSE AND SCOPE

- 1.1 This procedure provides instructions to the Shift Manager acting as the Site Emergency Coordinator (SEC), for implementing a response to an Unusual Event (UE), Alert, Site Area Emergency (SAE) and General Emergency (GE) after an emergency has been declared.
- 1.2 The steps in this procedure are listed in the preferred order of performance for maximum efficiency. However, the steps may be performed in a different sequence.

## 2 DEFINITIONS AND ABBREVIATIONS

None

**NOTE:** All procedure steps are applicable to all Emergency Classification Levels EXCEPT when the applicable Emergency Classification Level(s) is(are) specified within a step. (Reference Figure 1, Procedure Flowchart.)

## 3 DETAILS

### 3.1 General

- 3.1.1 IF a classification upgrade is required at any time while the procedure is being performed or after it is completed, THEN return to step 3.2, Instructions, and proceed through the procedure again.
- 3.1.2 The Operations Shift Manager acting as the SEC shall implement this procedure until relieved of SEC duties.
- 3.1.3 The following actions shall not be delegated by the SEC:
  - Classification of the emergency.
  - Directing the notification of offsite officials.

Reference	PMP-2080-EPP-100	Rev. 0	Page 3 of 20
Emergency Response			

- Approval of Protective Action Recommendations (PAR) to offsite emergency management agencies.
- 3.1.4 Declaration of an emergency requires the notification of the Berrien County Sheriff and Michigan State Police within 15 minutes. Notification of the NRC shall follow county and state notification and in all cases be completed within one hour.
  - 3.1.5 Declaration of a General Emergency requires that a PAR be made to the state. The PAR should be made immediately after the notification of a General Emergency (i.e., during the same phone call).
  - 3.1.6 The Emergency Response Data System (ERDS) for the affected Unit must be operational and transmitting data to the NRC within one hour of an ALERT or higher declaration.
  - 3.1.7 The Operations Staging Area (OSA), Technical Support Center (TSC), and the Emergency Operations Facility (EOF) are required to be activated at an ALERT classification or higher.
- 3.2 Instructions
- 3.2.1 Inform Unit 1 and Unit 2 Control Room personnel of the event classification and that the Shift Manager has assumed the position of SEC.
  - 3.2.2 Implement or direct the implementation of PMP-2080-EPP-107, Notification.
  - 3.2.3 **IF** a Site Area Emergency or General Emergency has been declared, **THEN** notify the Security Shift Supervisor (x 2005 or 2731) to perform accountability in accordance with PMP-2081-EPP-104, Security Actions During Emergency Conditions.
    - a. **WHEN** evacuation is necessary, **THEN** inform the Security Shift Supervisor (x 2005 or 2731) to implement PMP-2081-EPP-103, Evacuation of Plant Personnel.
    - b. **WHEN** evacuation of the beach is necessary, **THEN** activate the beach activation warning system.

Reference	PMP-2080-EPP-100	Rev. 0	Page 4 of 20
<b>Emergency Response</b>			

- 3.2.4 **IF** a hazard to plant personnel exists (e.g., fire, radiation or toxic gas), **THEN** perform one of the following steps:
- a. **IF** the condition is local, **THEN** evacuate the area by page announcement.
  - b. **IF** the condition impacts significant portions of the plant, **THEN** direct the Security Shift Supervisor (x 2005 or 2731) to perform accountability in accordance with Security Post Orders and perform an evacuation.

**NOTE:** The presence of an offsite dose rate may require re-classification of the event in accordance with ECC R-1, Effluent Release, PMP-2080-EPP-101, Emergency Classification.

- 3.2.5 **IF** a gaseous release of radioactive material is occurring, **THEN** initiate use of the Dose Assessment Program (DAP), to determine the magnitude of offsite dose levels. The following Emergency Plan procedures should be used as appropriate:
- PMP-2080-EPP-108, Initial Dose Assessment (for use in the Control Room).
  - PMP-2081-EPP-304, Offsite Dose Projection (for use in the EOF).
- 3.2.6 **IF** additional personnel are required to respond to an Unusual Event to support the emergency response, **THEN**:
- a. Call the Secondary Alarm Station (SAS) (x1118) and direct security to implement the Dialogic Emergency Response Notification System for an **EMERGENCY**.

Reference	PMP-2080-EPP-100	Rev. 0	Page 5 of 20
<b>Emergency Response</b>			

- b. Direct a Control Room Operator to make the following announcement for the appropriate ERO facility(s) to be activated, over the PA system. Have the announcement broadcast twice.

**“Attention all personnel. Attention all personnel. The Unusual Event is still in effect, however report to and activate the Operations Staging Area/Technical Support Center/Emergency Operations Facility. All other plant personnel be prepared for further announcements.”**

- c. On any touch-tone telephone:
- Dial 1646
  - Wait for the tone
  - Press ## to access the Training Center and Buchanan Office Building PA
  - Repeat the above announcement twice

3.2.7 **IF** a General Emergency has been declared, **THEN** direct the development of a Protective Action Recommendation using the following steps:

- a. Prior to developing a PAR consider whether the following could have an effect on the PAR:
- Adverse weather conditions.
  - A forecast of changing weather conditions.
  - Release characteristics (Puff vs. Continuous)
  - Evacuation times per Attachment 3 of PMP-2081-EPP-305, Protective Action Recommendations
- b. Include any deviations from the PAR flowchart, Attachment 1, based on this step in the protective action recommendation.

Reference	PMP-2080-EPP-100	Rev. 0	Page 6 of 20
Emergency Response			

- c. Obtain the following data:
    - Wind direction
    - AND -
    - Offsite dose projection (if available) as calculated using DAP or actual offsite dose rate measurements.
  - d. Using Attachment 1, determine the appropriate PAR.
  - e. Enter the Protective Action Recommendation on the Nuclear Plant Accident Notification form, obtained from the Emergency Kit and inform the State of Michigan of the recommendation immediately.
  - f. Repeat Steps 3.2.7.a through 3.2.7.e every 15 minutes or as requested until relieved by the incoming Emergency Response Organization.
- 3.2.8 Perform mitigating actions in accordance with appropriate plant procedures.
- 3.2.9 **IF** the Plant Process Computer (PPC) is inoperable, **THEN**:
- Designate someone to complete Data Sheet 1, Technical Information Sheet, every 15 minutes.
  - Forward the completed copy to the TSC.
  - Continue this activity for the duration of the emergency or until the PPC is operable.
- 3.2.10 **IF** accountability results identify a missing person(s) **AND** the TSC and OSA are **NOT** activated, **THEN** have Security attempt to locate the missing person(s) per PMP-2081-EPP-103, Assembly, Accountability, and Evacuation of Personnel.
- 3.2.11 Upon arrival of the oncoming SEC conduct a turnover as follows:
- a. Obtain a copy of Data Sheet 2, Emergency Turnover Checklist.

Reference	PMP-2080-EPP-100	Rev. 0	Page 7 of 20
Emergency Response			

- b. Have the oncoming SEC complete the checklist as each item is verbally addressed.

### 3.3 Subsequent Instructions for the Shift Manager After Being Relieved of SEC Duties

3.3.1 **WHEN** relieved of SEC responsibilities, **THEN** resume the sole function of Shift Manager.

- Notify the Control Rooms that the Shift Manager has been relieved of SEC responsibilities.

3.3.2 Direct the continued implementation of the appropriate Emergency Operating Procedure (EOP) and/or Abnormal Operating Procedure (AOP) to return the unit to a safe condition.

3.3.3 Inform the TSC of changes in plant condition and equipment status.

3.3.4 Inform the TSC of mitigating actions to be taken or any that have been completed.

3.3.5 **IF** additional personnel are required, **THEN** request assistance from the TSC.

3.3.6 Assemble all documentation associated with the emergency and forward it to the Emergency Planning Coordinator. This documentation should include:

- Complete notification forms
- Copies of pertinent log entries
- Copy of the Condition Report if generated
- Other documentation deemed appropriate by the Shift Manager

## 4 FINAL CONDITIONS

4.1 The emergency has been terminated and the plant has entered the recovery phase.

Reference	PMP-2080-EPP-100	Rev. 0	Page 8 of 20
Emergency Response			

## 5 REFERENCES

### 5.1 Use References:

- 5.1.1 PMP-2080-EPP-101, Emergency Classification
- 5.1.2 PMP-2080-EPP-107, Notification
- 5.1.3 PMP-2080-EPP-108, Initial Dose Assessment
- 5.1.4 PMP-2081-EPP-103, Assembly, Accountability and Evacuation of Plant Personnel
- 5.1.5 PMP-2081-EPP-104, Security Actions During Emergency Conditions
- 5.1.6 PMP-2081-EPP-304, Off-Site Dose Projection
- 5.1.7 PMP-2081-EPP-305, Protective Action Recommendations

### 5.2 Writing References:

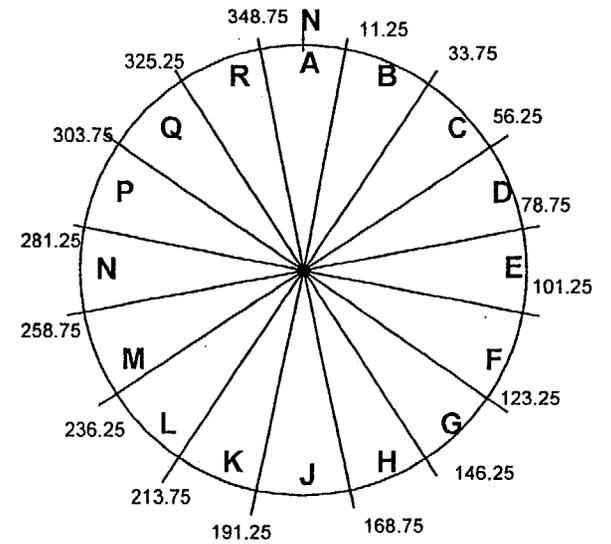
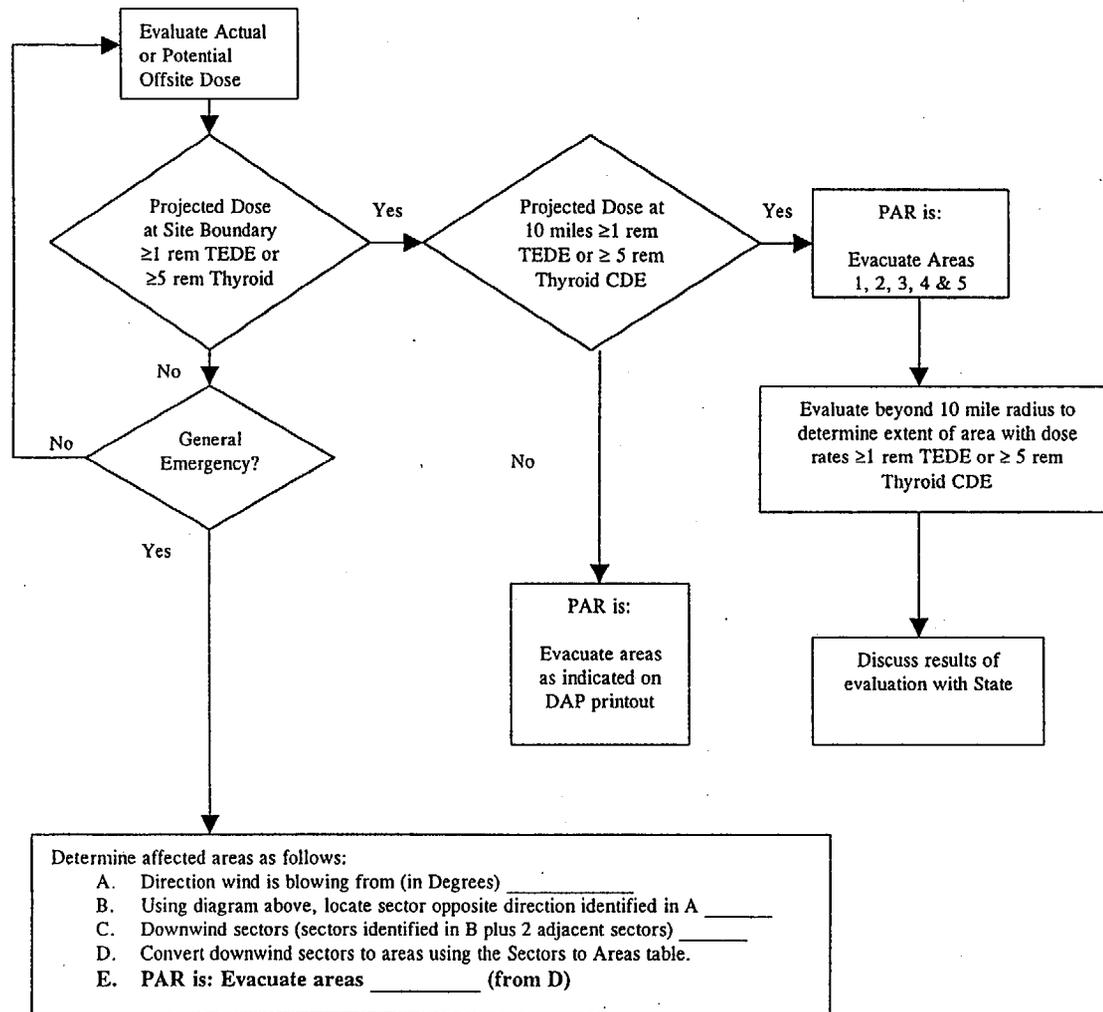
#### 5.2.1 Source References:

- a. Cook Nuclear Plant Emergency Plan

#### 5.2.2 General References

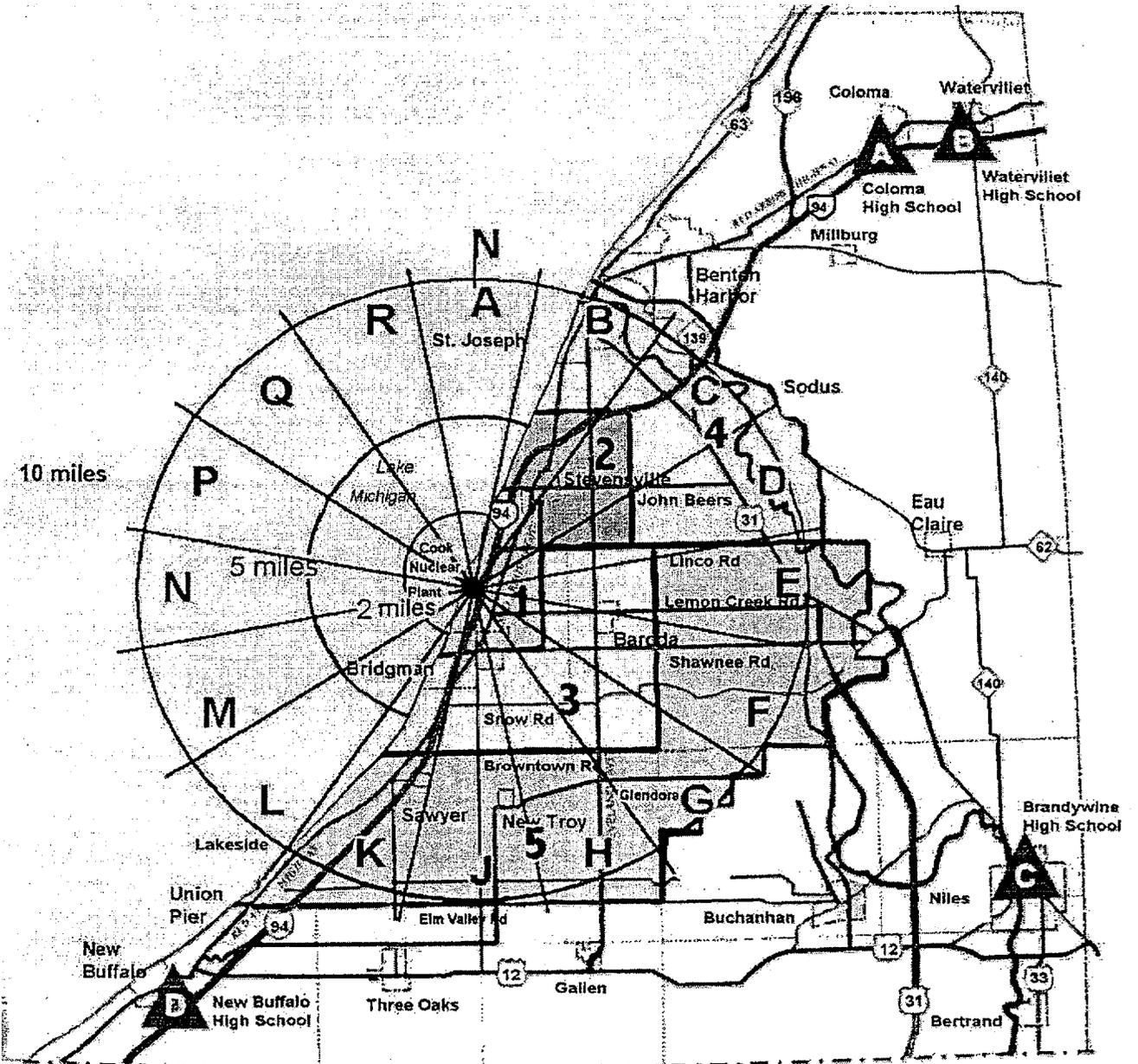
- a. Michigan Emergency Preparedness Plan

Reference	PMP-2080-EPP-100	Rev. 0	Page 9 of 20
<b>Emergency Response</b>			
Attachment 1	PAR Flowchart and Map		Pages: 9 - 10



Sectors	Areas
A, B & C to 5 miles	1 and 2
B, C & D to 5 miles	1, 2 and 3
C, D & E to 5 miles	1, 2 and 3
D, E, & F to 5 miles	1, 2 and 3
E, F & G to 5 miles	1, 2 and 3
F, G & H to 5 miles	1 and 3
G, H & J to 5 miles	1 and 3
H, J & K to 5 miles	1 and 3
J, K & L to 5 miles	1 and 3
K, L & M to 5 miles	1 and 3
L, M & N to 5 miles	1
M, N & P to 5 miles	1
N, P & Q to 5 miles	1
P, Q & R to 5 miles	1
Q, R & A to 5 miles	1
R, A & B to 5 miles	1 and 2

Reference	PMP-2080-EPP-100	Rev. 0	Page 10 of 20
Emergency Response			
Attachment 1	PAR Flowchart and Map		Pages: 9 - 10



Reference	PMP-2080-EPP-100	Rev. 0	Page 11 of 20
Emergency Response			
Data Sheet 1	Technical Information Sheet		Pages: 11 - 12

Unit No: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Data Taken By: \_\_\_\_\_ Data Reviewed By: \_\_\_\_\_

**NOTE:** When redundant indication exists, record most severe condition.

**RCS PARAMETER**

- |                                       |                                    |                                    |                   |
|---------------------------------------|------------------------------------|------------------------------------|-------------------|
| 1. Containment Temp.                  | * _____ °F                         | 5. Intermediate Range              | _____ AMPS        |
| 2. Cont. H <sub>2</sub> Concentration | * _____ %                          | 6. Containment Pressure            | _____ PSIG        |
| 3. RWST Level                         | * _____ %                          | 7. Containment Sump Level          | * _____ %         |
| 4. Source Range                       | * _____ CPM                        | 8. Containment Level               | * _____ %         |
| 9. CTS Pumps                          | East * ON / OFF                    |                                    | West * ON / OFF   |
| 10. RHR Spray Flow                    | East * _____ GPM                   |                                    | West * _____ GPM  |
| 11. SI Flow                           | North * _____ GPM                  |                                    | South * _____ GPM |
| 12. BIT Flow                          | LP1* _____ GPM    LP2* _____ GPM   | LP3* _____ GPM    LP4* _____ GPM   |                   |
| 13. Accum Pressure                    | LP1* _____ PSIG    LP2* _____ PSIG | LP3* _____ PSIG    LP4* _____ PSIG |                   |
| 14. RHR Injection Flow                | East * _____ PSIG                  | West * _____ PSIG                  |                   |
| 15. RCP Status                        | *LP1 ON / OFF    *LP2 ON / OFF     | *LP3 ON / OFF    *LP4 ON / OFF     |                   |
| 16. RCS Pressure                      | _____ PSIG                         | 22. PRT Level                      | _____ %           |
| 17. Charging Flow                     | _____ GPM                          | 23. PRT Pressure                   | _____ PSIG        |
| 18. PZR Liquid Temp.                  | _____ °F                           | 24. PZR Cycling Htrs               | * ON / OFF        |
| 19. PZR Steam Temp.                   | _____ °F                           | 25. PZR Backup Htrs                | * ON / OFF        |
| 20. PZR Level                         | _____ %                            | 26. Letdown Flow                   | _____ GPM         |

Reference	PMP-2080-EPP-100	Rev. 0	Page 12 of 20
Emergency Response			
Data Sheet 1	Technical Information Sheet		Pages: 11 - 12

21. PRT Temp. \_\_\_\_\_ °F

27. Saturation Margin \_\_\_\_\_ °F

NSSS LOOP PARAMETERS

	Loop 1	Loop 2	Loop 3	Loop 4
28. Wide Range T Hot	_____ °F	_____ °F	_____ °F	_____ °F
29. Wide Range T Cold	_____ °F	_____ °F	_____ °F	_____ °F
30. S / G Pressure	_____ PSIG	_____ PSIG	_____ PSIG	_____ PSIG
31. S / G N. R. Level	_____ %	_____ %	_____ %	_____ %
32. S / G W. R. Level	_____ %	_____ %	_____ %	_____ %
33. Steam Flow (pph x 106)	_____	_____	_____	_____
34. Feed Flow (pph x 106)	_____	_____	_____	_____
35. Aux. Feed Flow (pph x 103)*	_____	_____	_____	_____
36. MSIV Status	*OPEN / CLOSE	*OPEN / CLOSE	*OPEN / CLOSE	*OPEN / CLOSE
37. CST Level	* _____ %	* _____ Ft		
38. Steam Dump	*ATMOS / COND			

EQUIPMENT STATUS

	AVAILABLE / UNAVAILABLE				AVAILABLE / UNAVAILABLE		
39. East ESW*	_____	/	_____	49. East CCP*	_____	/	_____
40. West ESW*	_____	/	_____	50. West CCP*	_____	/	_____
41. East CCW*	_____	/	_____	51. TDAFP*	_____	/	_____
42. West CCW*	_____	/	_____	52. EMDAFP*	_____	/	_____
43. East CTS*	_____	/	_____	53. WMDAFP*	_____	/	_____
44. West CTS*	_____	/	_____	54. AB Diesel*	_____	/	_____
45. North SI*	_____	/	_____	55. CD Diesel*	_____	/	_____
46. South SI*	_____	/	_____	56. Normal Res.*	_____	/	_____
47. East RHR*	_____	/	_____	57. 12 EP*	_____	/	_____
48. West RHR*	_____	/	_____				

\* Data to be taken by Control Room Operator.

Reference	PMP-2080-EPP-100	Rev. 0	Page 13 of 20
<b>Emergency Response</b>			
Data Sheet 2	Emergency Turnover Checklist		Pages: 13 - 16

1. Emergency Classification

	<u>Time Declared</u>
_____ Unusual Event	_____
_____ Alert	_____
_____ Site Area Emergency	_____
_____ General Emergency	_____

2. Have notifications been completed?

a. Berrien County:	yes / no / in progress	Time: _____
b. Michigan:	yes / no / in progress	Time: _____
c. NRC:	yes / no / in progress	Time: _____
d. NGG Personnel:	yes / no / in progress	Time: _____

3. Protective Actions:

a. Local area evacuation	yes / no	Time: _____
b. Site evacuation	yes / no	Time: _____
c. Accountability	yes / no	Time: _____
d. Site closed to visitors	yes / no	Time: _____
e. Offsite protective action recommended:		
• Evacuation:	yes / no areas: _____	Time: _____
• Shelter:	yes / no areas: _____	Time: _____

Reference	PMP-2080-EPP-100	Rev. 0	Page 14 of 20
Emergency Response			
Data Sheet 2	Emergency Turnover Checklist		Pages: 13 - 16

4. Plant Operational Status

a. Reactor trip: yes / no time: \_\_\_\_\_ Trip signal: \_\_\_\_\_

b. ESF Status: \_\_\_\_\_

\_\_\_\_\_

c. EOP Status: \_\_\_\_\_

\_\_\_\_\_

5. Plant Status

a. Chronology of Events

Time

Event

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

b. Current Plant Conditions

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Reference	PMP-2080-EPP-100	Rev. 0	Page 15 of 20
<b>Emergency Response</b>			
Data Sheet 2	Emergency Turnover Checklist		Pages: 13 - 16

c. Potential for Plant Degradation

---



---

d. Mitigating Actions Taken or Underway

---



---



---



---



---



---

6. Plant Radiological Conditions

a. Inplant/Onsite Radiological Conditions

---



---



---



---



---



---



---



---

Reference	PMP-2080-EPP-100	Rev. 0	Page 16 of 20
Emergency Response			
Data Sheet 2	Emergency Turnover Checklist		Pages: 13 - 16

b. Potential for Offsite Release of Radioactivity

\_\_\_\_\_ Airborne \_\_\_\_\_ Water

---



---



---



---



---

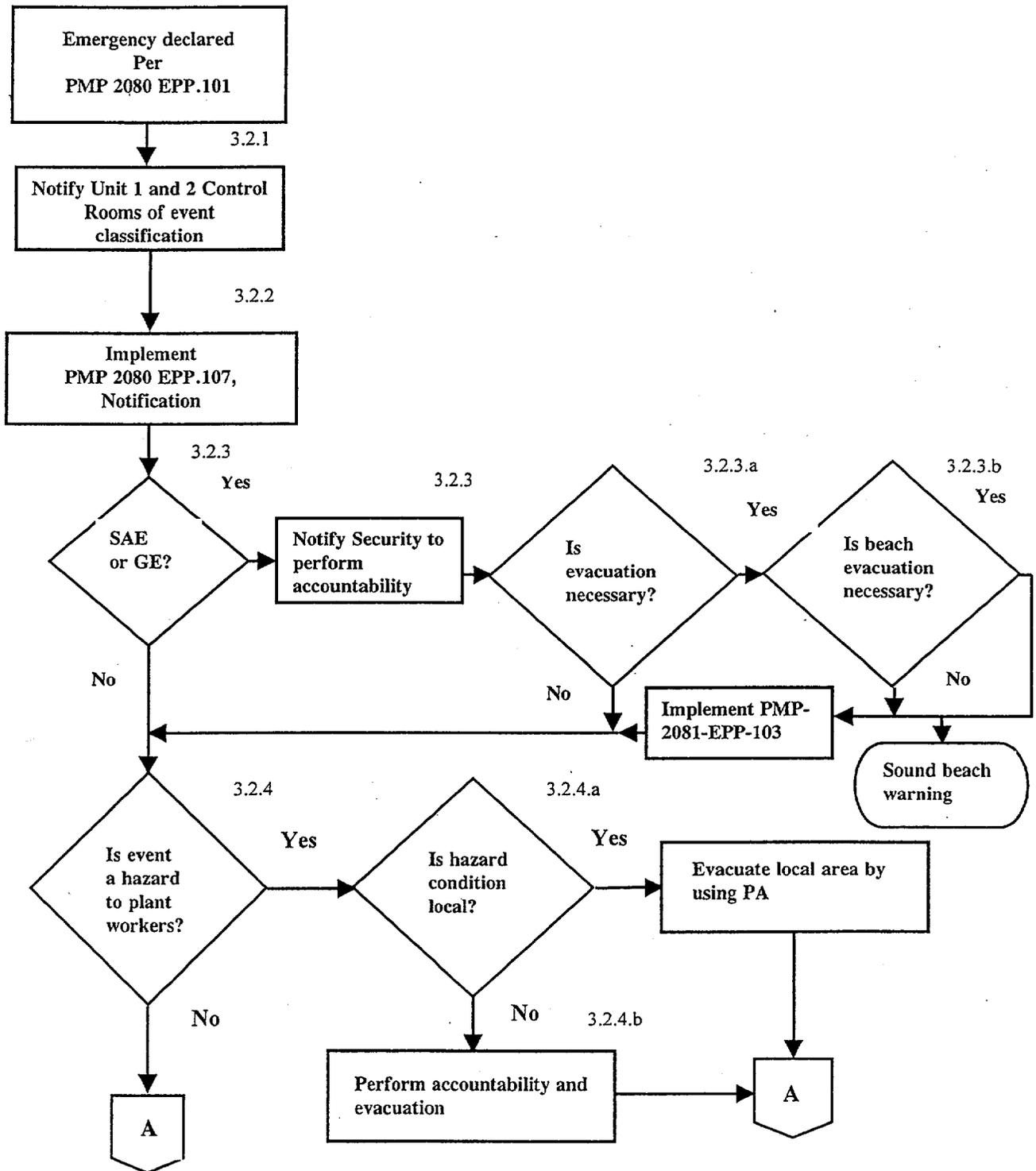


---

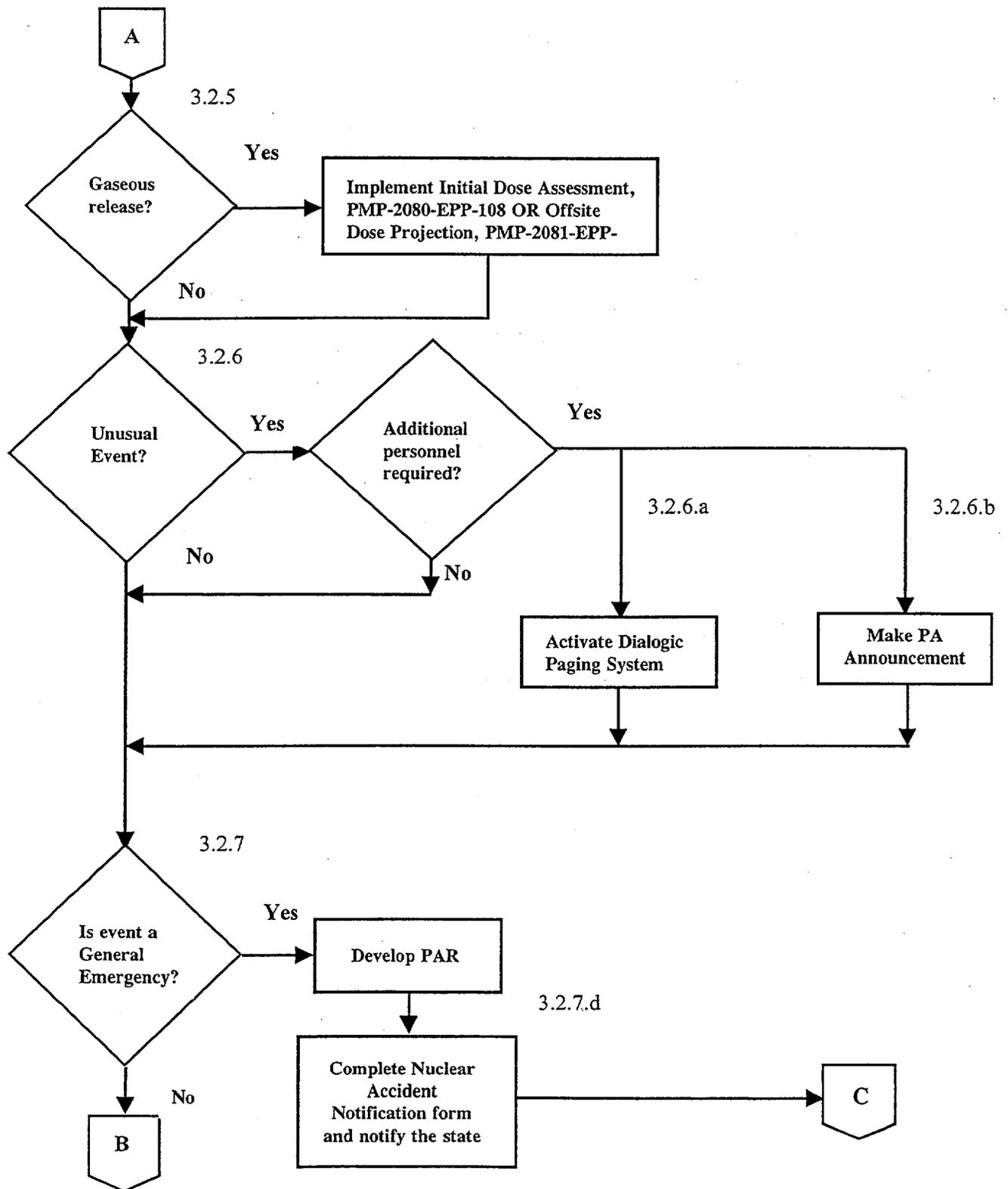
7. Injured or Contaminated Personnel:

<u>Name</u>	<u>Employer</u>	<u>Status</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

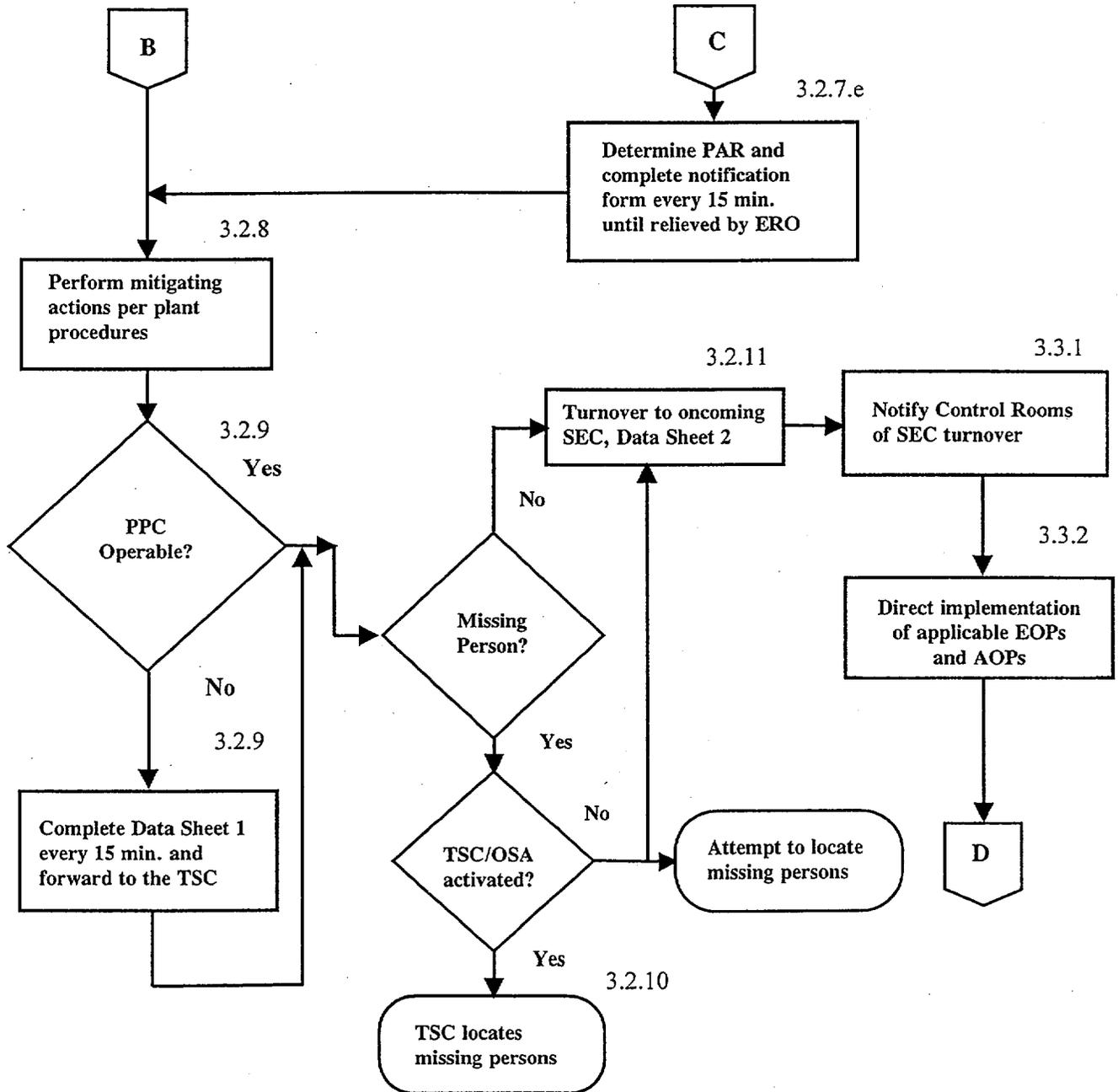
Reference	PMP-2080-EPP-100	Rev. 0	Page 17 of 20
<b>Emergency Response</b>			
Figure 1	Procedure Flowchart		Pages: 17 - 20



Reference	PMP-2080-EPP-100	Rev. 0	Page 18 of 20
Emergency Response			
Figure 1	Procedure Flowchart		Pages: 17 - 20



Reference	PMP-2080-EPP-100	Rev. 0	Page 19 of 20
<b>Emergency Response</b>			
Figure 1	Procedure Flowchart		Pages: 17 - 20



Reference	PMP-2080-EPP-100	Rev. 0	Page 20 of 20
<b>Emergency Response</b>			
Figure 1	Procedure Flowchart		Pages: 17 - 20

