25477N

CONTROLLED DOCUMENT TRANSMITTAL

25477N

Transmittal#: 25477N Date: 09/20/2002 Initiator: TRACY NELSON Page: 1

Description:
ISSUE OF 1 EMERGENCY PLAN PROCEDURE

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

Section/Name	Mail Zone	Copies	Comments
Emergency Planning Coord	11	3C	
Maint: MTIS, M. Lower	10	1C	
MI Dept Environ Quality	P29	1C	
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NGH: EDCC	22*	1C	
NGH: EOF (via EDCC)	22*	3C	
NGH: JPIC (via EDCC)	22*	1C	
NRC: On Site	4A	1C	
NRC: Region III		2C	
NRC: Washington	P16	2C	
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OSC	1*	1C	
S.S. Office	29*	1C	
Simulator	11	2C	
Site Protective Services	8B	1C	
State of Michigan	P2	1C	
Training Cart 1, T. Ott	11	1C	
Training Cart 2, D. Terry	11	1C	
Training Cart 4, S. Stiger	11	1C	
Training Cart 5, M. McKeel	11	1C	
Training Cart 6, D. Terry	11	1C	
Training Lib:Master Copy	11	1U	
Training Library	11	1C	
TSC	1*	3C	Include 1C Index Only
Unit 1 Control Room	29*	2C	
Unit 2 Control Room	29*	2C	

Transmitted Controlled Document Listing: (1)

Document	Revision	Status	Title
PMP-2080-EPP-100	00A	Approved	EMERGENCY RESPONSE

Controlled Document Transmittal Receipt and File Acknowledgement:

CONTROLLED DOCUMENTS ONLY

A045

Signature Date

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

Nuclear Document Management
Emergency Plan Procedure Index

Document #	Title	Revision/ Date	Comment
12-EPP-2080-EPA-008	EMERGENCY PLAN MANAGEMENT	0 03/30/2001	
12-EPP-2080-OSC-002	UNIT VENT SAMPLING	0 07/03/2001	
PMP-2080-EPP-100	EMERGENCY RESPONSE	0A 09/20/2002	
PMP-2080-EPP-101	EMERGENCY CLASSIFICATION	3B 12/07/2001	
PMP-2080-EPP-107	NOTIFICATION	16 07/12/2002	
PMP-2080-EPP-108	INITIAL DOSE ASSESSMENT	4 05/03/2002	
PMP-2080-EPP-111	NATURAL EMERGENCY GUIDELINES	1 02/06/1995	
PMP-2080-EPP-112	PERSONNEL INJURY	1 06/05/1997	
PMP-2080-EPP-200	INITIATING CHANGES TO THE EMERGENCY PLAN OR EMERGENCY PLAN IMPLEMENTING PROCEDURES	0 03/12/2001	
PMP-2081-EPP-105	INITIAL CORE DAMAGE ASSESMENT	4-CS1 06/16/2000	
PMP-2081-EPP-212	CONTAINMENT ATMOSPHERE SAMPLING	1-CS1 05/26/1988	
RMT-2080-EOF-001	ACTIVATION AND OPERATION OF THE EOF	1 05/03/2002	
RMT-2080-EOF-002	EMERGENCY TERMINATION AND RECOVERY	0 07/03/2001	
RMT-2080-JPIC-001	ACTIVATION AND OPERATION OF THE JPIC	0 04/16/2002	
RMT-2080-OSC-001	ACTIVATION AND OPERATION OF THE OSC	1A 09/17/2002	
RMT-2080-TSC-001	ACTIVATION AND OPERATION OF THE TSC	1 09/17/2002	

Nuclear Document Management
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PMP-2081-EPP-105	INITIAL CORE DAMAGE ASSESMENT	4-CS1 06/16/2000	
PMP-2081-EPP-212	CONTAINMENT ATMOSPHERE SAMPLING	1-CS1 05/26/1988	
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RMT-2080-EOF-002	EMERGENCY TERMINATION AND RECOVERY	0 07/03/2001	
RMT-2080-JPIC-001	ACTIVATION AND OPERATION OF THE JPIC	0 04/16/2002	
RMT-2080-OSC-001	ACTIVATION AND OPERATION OF THE OSC	1A 09/17/2002	
RMT-2080-TSC-001	ACTIVATION AND OPERATION OF THE TSC	1 09/17/2002	

REVIEW AND APPROVAL TRACKING FORM

Procedure Information:

Number: PMP-2080-EPP-100 Rev. 0a Change: 0

Title: Emergency Response

Category (Select One Only):

- ☒ Correction (Full Procedure)
- ☐ Correction (Page Substitution)
- ☐ Cancellation
- ☐ Change (Full Procedure) with Review of Change Only
- ☐ Change (Page Substitution) with Review of Change Only
- ☐ New Procedure or Change with Full Review
- ☐ Superseded (list superseding procedures): _____

Associated Configuration Impact Assessments:

Change Driver/CDI Tracking No(s).: _____ ☒ N/A

Required Reviews:

Cross-Discipline Reviews:		Programmatic Reviews:	
☐ Chemistry	☐ Training	☐ ALARA	☐ Performance Assurance
☐ Maintenance	☐ Work Control	☐ Bus. Services Proc Grp	☐ Reactivity Mgmt Team
☐ NDM	☐ _____	☐ Component Engineering	☐ SPS (Safety & Health)
☐ Operations	☐ _____	☐ Design Engineering	☐ Surveillance Section
☐ PA/PV	☐ _____	☐ Emerg Oper Proc Grp	☐ System Engineering
☐ Reg Affairs	☐ _____	☐ Environmental	☐ _____
☐ RP	☒ None Required	☐ ISI/IST Coordinator	☒ None Required

☐ Cognizant Org Review: N/A Date: __/__/__

☒ Technical Review: Jack T. Conrad Date: 9/17/2002

Concurrence:

☐ Ops Mgr Concurrence: N/A Date: __/__/__

☐ Owner Concurrence: N/A Date: __/__/__

Package Check:

Updated Revision Summary attached? ☒ Yes

10 CFR 50.59 Requirements complete? Tracking No.: _____ ☐ Yes ☒ N/A

Implementation Plan developed? (Ref. Step 3.4.18) ☐ Yes ☒ N/A

Package Complete: B K Mallory Date: 9/17/02

Approvals:

PORC Review Required: ☐ Yes ☒ No Mtg. No.: _____

Administrative Hold Status: ☐ Released ☐ Reissued ☒ N/A CR No.: _____

Approval Authority Review/Approval: J. Molden Date: 9/18/02

Expiration Date/Ending Activity N/A Effective Date: 9/20/02

Periodic Review:

Periodic Review conducted? (Data Sheet 5 Complete) ☐ Yes ☒ No

Follow-up Actions:

Commitment Database Updated? ☐ Yes ☒ N/A

NDM notified of new records or changes to records that could affect record retention? ☐ Yes ☒ N/A

NDM Use Only

NUCLEAR DOCUMENT MANAGEMENT SECTION

SEP 20 2002

CONTROLLED DOCUMENT

Office Information For Form Tracking Only - Not Part of Form

This form is derived from the information in PMP-2010-PRC-002, Procedure Correction, Change, and Review, Rev. 9a, Data Sheet 1, Review and Approval Tracking Form.

REVISION SUMMARY

Number: PMP-2080-EPP-100 Revision: 0a Change: 0

Title: Emergency Response

Corrections have been made for procedure number changes and title changes. No marginal markings used.

Section or Step	Change/Reason For Change
Step 3.1.7	Change: Changed title of Operations Staging Area (OSA) to Operations Support Center (OSC). Correction - e Reason: OSA is now the OSC.
Step 3.2.3	Change: Deleted reference to PMP-2081-EPP-104. Correction-o Reason: Procedure has been deleted.
Step 3.2.3.a	Change: Deleted reference to PMP-2081-EPP-103. Correction-o Reason: Procedure has been deleted.
Step 3.2.5 second bullet	Change: Corrected procedure number reference. Correction - o Reason: Procedure number changed.
Step 3.2.6.b	Change: Changed title of Operations Staging Area (OSA) to Operations Support Center (OSC). Correction - e Reason: OSA is now the OSC.
Step 3.2.7	Change: Deleted procedure reference in fourth bullet, PMP-2081-EPP-305. Correction - o Reason: Procedure deleted.
Step 3.2.7.e	Change: Added (within 15 minutes). Correction - q Reason: To clarify when initial notification is required.
Step 3.2.7.f	Change: Changed "15 minutes" to "30 minutes or within 15 minutes of a PAR change." Correction - m Reason: State requirements have changed to allow updates with no PAR changes to be made every 30 minutes.
Step 3.2.10	Change: Deleted reference to PMP 2081-EPP-103. Correction – o Changed OSA to OSC. Correction - e Reason: Procedure deleted.
Step 5.1.4, 5.1.5 and 5.1.7	Change: Deleted reference procedures. Correction - o Reason: Procedures have been deleted.

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. 9a.

REVISION SUMMARY

Number: PMP-2080-EPP-100 Revision: 0a Change: 0

Title: Emergency Response

Section or Step	Change/Reason For Change
New Step 5.1.4	Change: Changed procedure number to RMT-2080-EOF-001. Re-numbered step. Correction - o Reason: Procedure reference has changed.
Figure 1	Change: Modified procedure flow chart to reflect the deleted procedures incorporated by this change. Correction - m Reason: Correct the flow chart.

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. 9a.

TABLE OF CONTENTS

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.
- 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 Support Center (OSC), 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.

a. WHEN evacuation is necessary, THEN inform the Security Shift Supervisor (x 2005 or 2731) to evacuate plant personnel.

b. WHEN evacuation of the beach is necessary, THEN activate the beach activation warning system.

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).
- RMT-2080-EOF-001, Activation and Operation of the EOF (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.

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 Support Center/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.

b. Include any deviations from the PAR flowchart, Attachment 1, based on this step in the protective action recommendation.

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 within 15 minutes.

f. Repeat Steps 3.2.7.a through 3.2.7.e every 30 minutes or within 15 minutes of a PAR change 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 OSC are NOT activated, **THEN** have Security attempt to locate the missing person(s).

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.

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.

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 RMT-2080-EOF-001, Activation and Operation of the EOF.

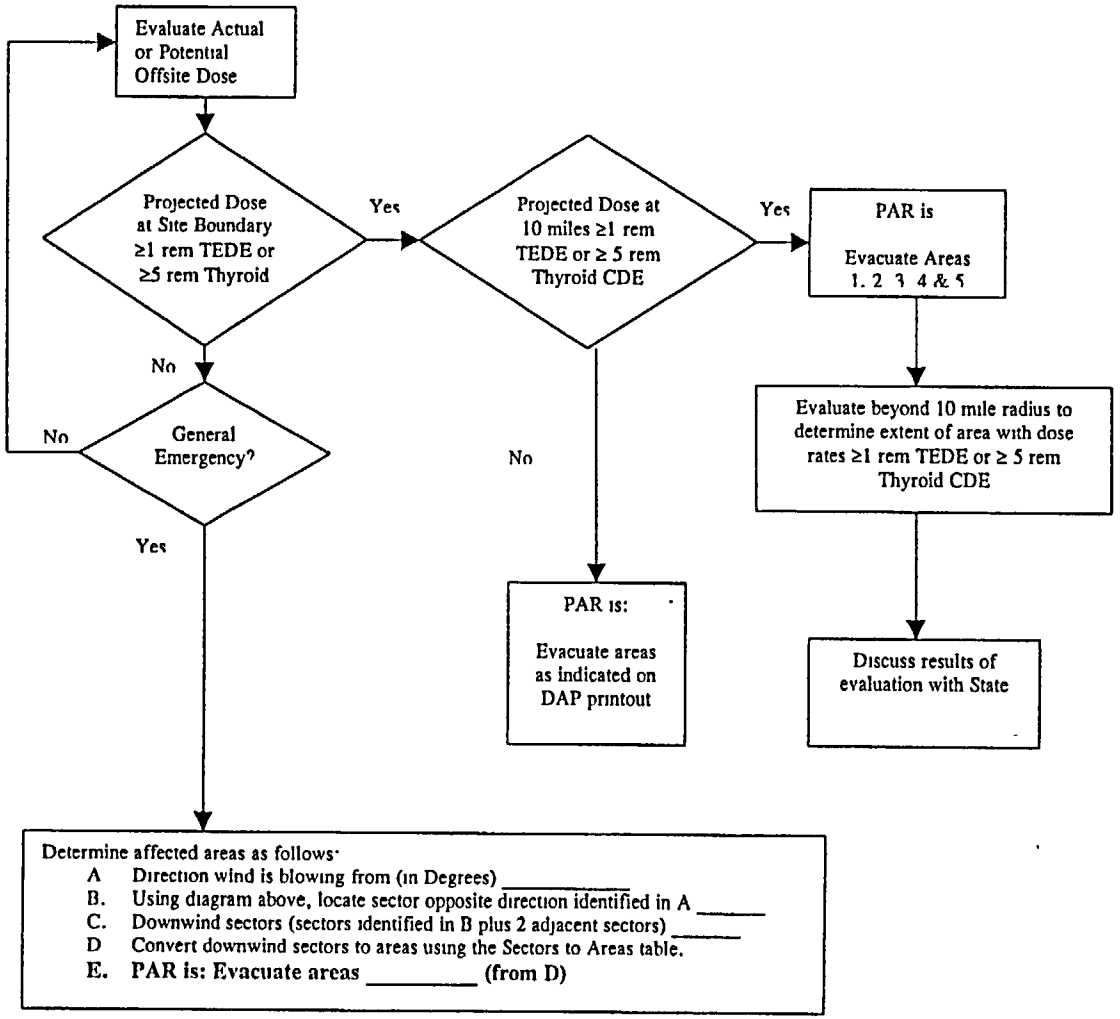
5.2 Writing References:

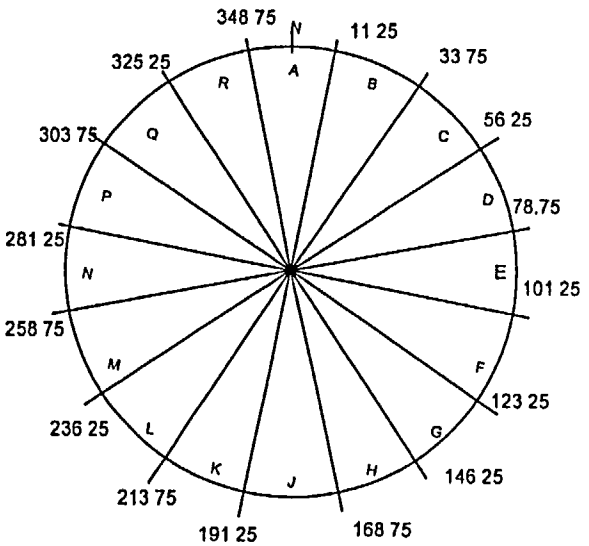
5.2.1 Source References:

a. Cook Nuclear Plant Emergency Plan

5.2.2 General References

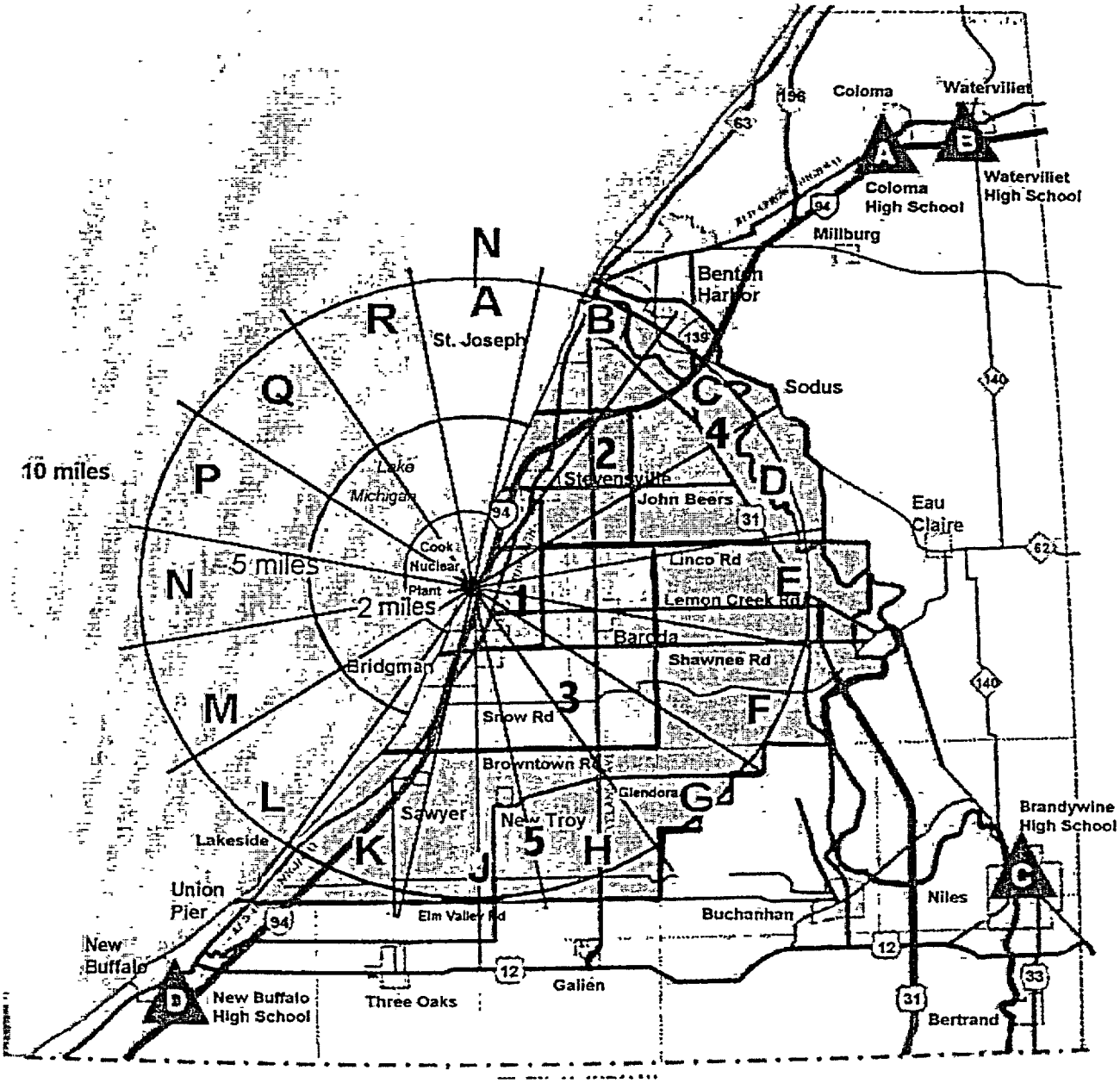
a. Michigan Emergency Preparedness Plan





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. 0a	Page 10 of 20
Emergency Response			
Attachment 1	PAR Flowchart and Map		Pages: 9 - 10



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
2. Cont. H_2 Concentration * _____ %
3. RWST Level * _____ %
4. Source Range * _____ CPM
5. Intermediate Range _____ AMPS
6. Containment Pressure _____ PSIG
7. Containment Sump Level * _____ %
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
17. Charging Flow _____ GPM
18. PZR Liquid Temp. _____ °F
19. PZR Steam Temp. _____ °F
20. PZR Level _____ %
21. PRT Temp. _____ °F
22. PRT Level _____ %
23. PRT Pressure _____ PSIG
24. PZR Cycling Htrs * ON / OFF
25. PZR Backup Htrs * ON / OFF
26. Letdown Flow _____ GPM
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.

1. Emergency Classification

	Time Declared
_____ 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: _____

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

_____

_____

_____

_____

c. Potential for Plant Degradation

d. Mitigating Actions Taken or Underway

6. Plant Radiological Conditions

a. Inplant/Onsite Radiological Conditions

b. Potential for Offsite Release of Radioactivity

_____ Airborne _____ Water

_____

_____

_____

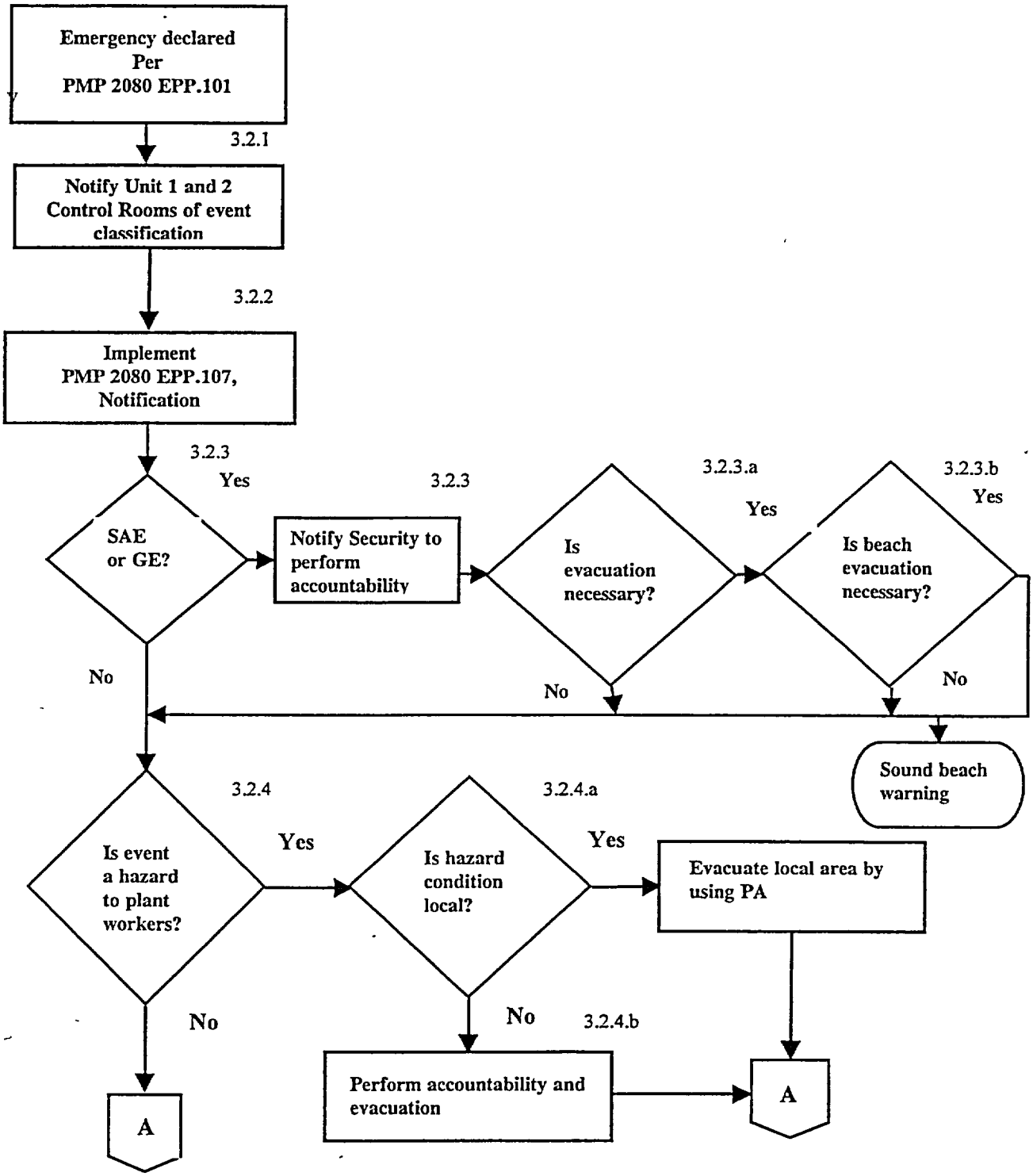
_____

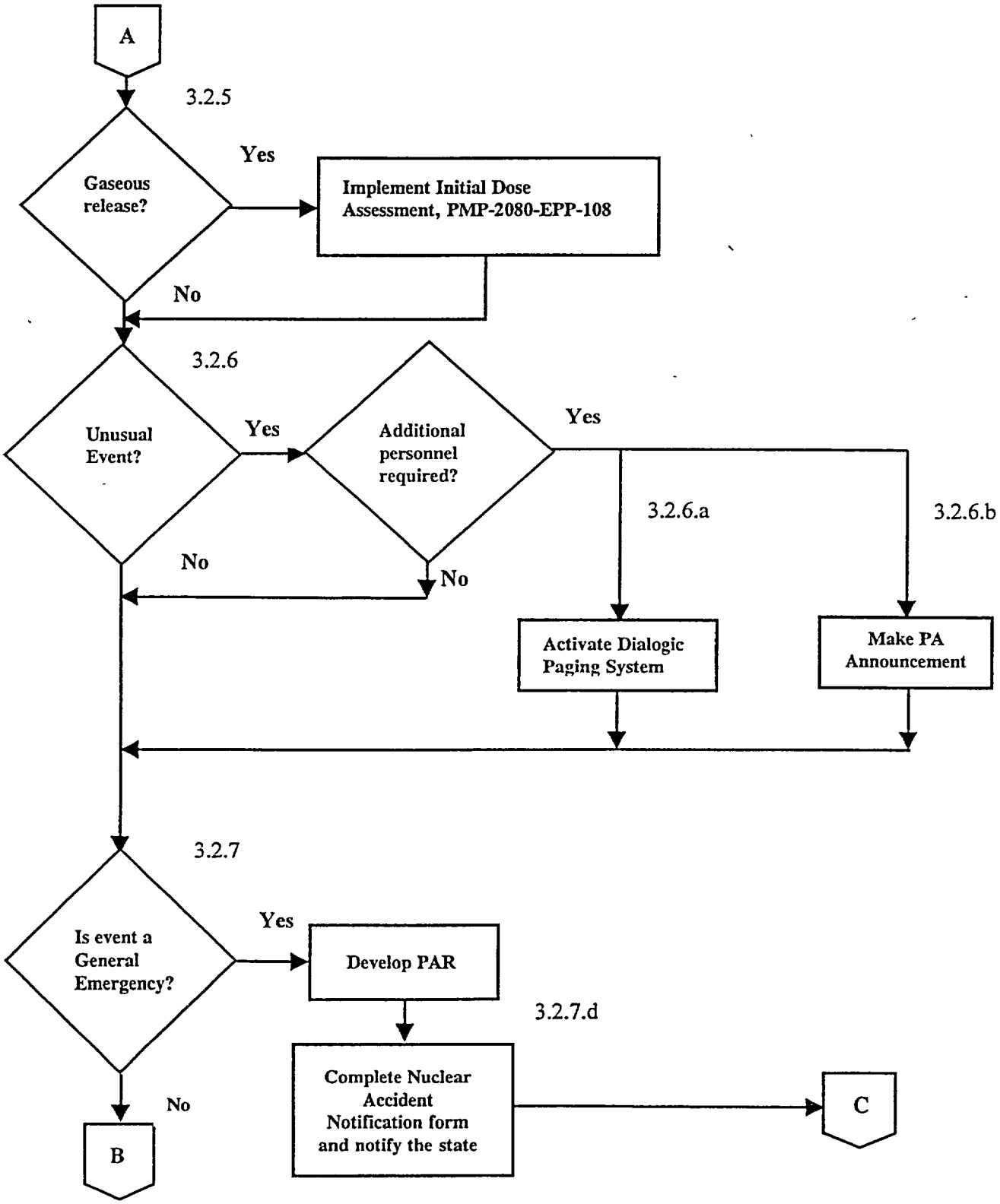
_____

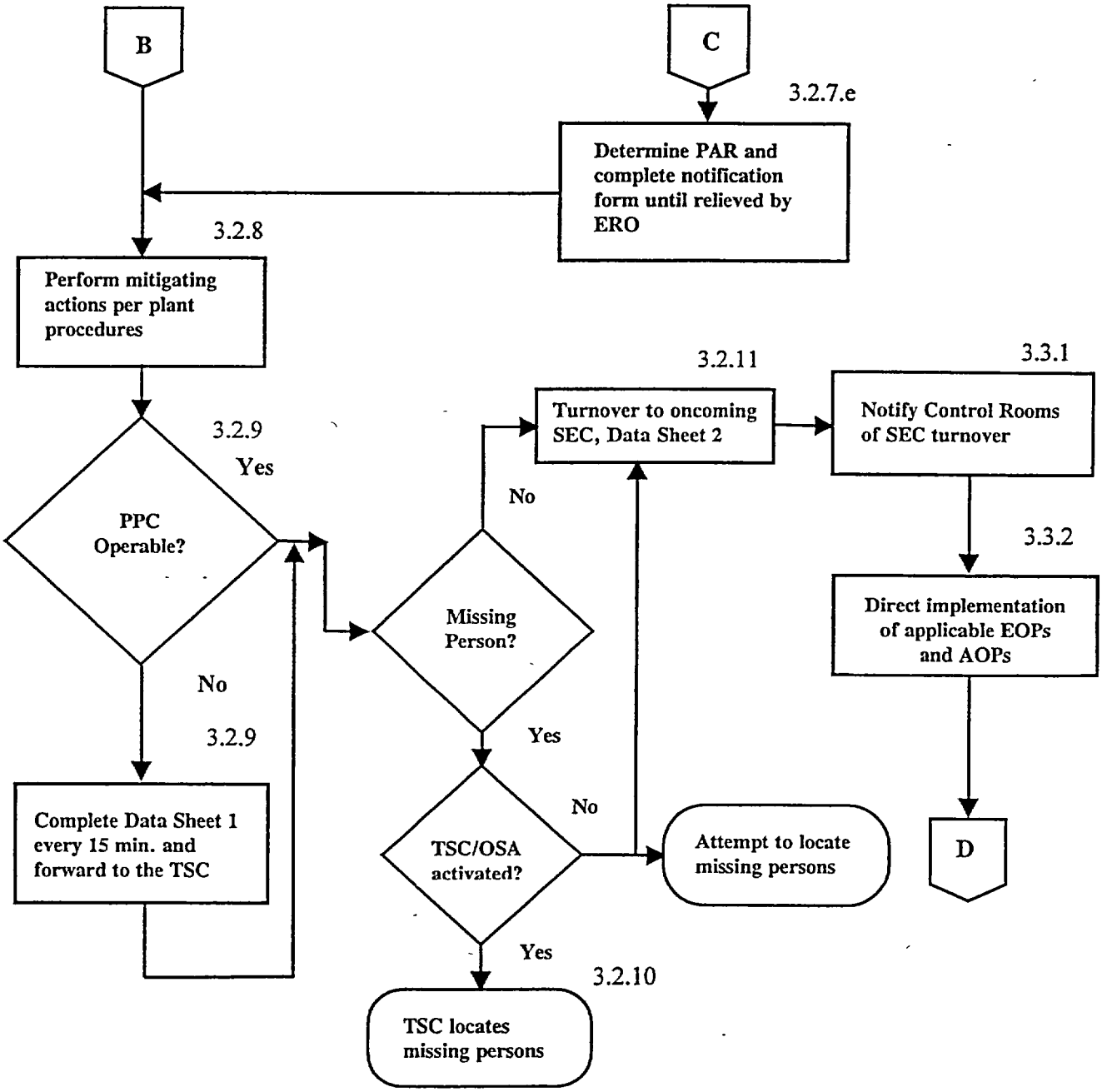
_____

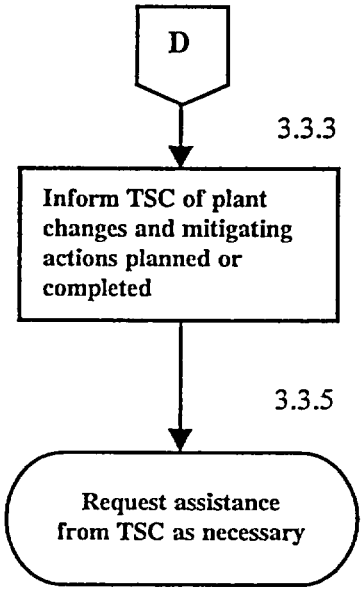
7. Injured or Contaminated Personnel:

Name	Employer	Status
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____


Emergency declared Per PMP 2080 EPP.101
3.2.1
Notify Unit 1 and 2 Control Rooms of event classification
3.2.2
Implement PMP 2080 EPP.107, Notification
3.2.3
Yes
SAE or GE?
3.2.3
Notify Security to perform accountability
3.2.3.a
Yes
Is evacuation necessary?
3.2.3.b
Yes
Is beach evacuation necessary?
No
No
No
Sound beach warning
3.2.4
Is event a hazard to plant workers?
Yes
3.2.4.a
Is hazard condition local?
Yes
Evacuate local area by using PA
No
No
3.2.4.b
Perform accountability and evacuation
A
A


A
3.2.5
Gaseous release?
Yes
Implement Initial Dose Assessment, PMP-2080-EPP-108
No
3.2.6
Unusual Event?
Yes
Additional personnel required?
Yes
No
No
3.2.6.a
3.2.6.b
Activate Dialogic Paging System
Make PA Announcement
3.2.7
Is event a General Emergency?
Yes
Develop PAR
3.2.7.d
Complete Nuclear Accident Notification form and notify the state
C
No
B


B
C
3.2.7.e
Determine PAR and complete notification form until relieved by ERO
3.2.8
Perform mitigating actions per plant procedures
3.2.11
3.3.1
Turnover to oncoming SEC, Data Sheet 2
Notify Control Rooms of SEC turnover
3.2.9
Yes
PPC Operable?
No
Missing Person?
No
Yes
3.3.2
Direct implementation of applicable EOPs and AOPs
No
3.2.9
Complete Data Sheet 1 every 15 min. and forward to the TSC
TSC/OSA activated?
No
Attempt to locate missing persons
D
Yes
3.2.10
TSC locates missing persons


D
3.3.3
Inform TSC of plant changes and mitigating actions planned or completed
3.3.5
Request assistance from TSC as necessary

REVIEW AND APPROVAL TRACKING FORM

Procedure Information:

Number: PMP-2080-EPP-100 Rev. 0a Change: 0

Title: Emergency Response

Category (Select One Only):

- ☒ Correction (Full Procedure)
- ☐ Correction (Page Substitution)
- ☐ Cancellation
- ☐ Superseded (list superseding procedures): _____
- ☐ Change (Full Procedure) with Review of Change Only
- ☐ Change (Page Substitution) with Review of Change Only
- ☐ New Procedure or Change with Full Review

Associated Configuration Impact Assessments:

Change Driver/CDI Tracking No(s).: _____ ☒ N/A

Required Reviews:

Cross-Discipline Reviews:

- ☐ Chemistry
- ☐ Maintenance
- ☐ NDM
- ☐ Operations
- ☐ PA/PV
- ☐ Reg Affairs
- ☐ RP
- ☐ Training
- ☐ Work Control
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☒ None Required

Programmatic Reviews:

- ☐ ALARA
- ☐ Bus. Services Proc Grp
- ☐ Component Engineering
- ☐ Design Engineering
- ☐ Emerg Oper Proc Grp
- ☐ Environmental
- ☐ ISI/IST Coordinator
- ☐ Performance Assurance
- ☐ Reactivity Mgmt Team
- ☐ SPS (Safety & Health)
- ☐ Surveillance Section
- ☐ System Engineering
- ☐ _____
- ☒ None Required

☐ Cognizant Org Review: N/A Date: __/__/__

☒ Technical Review: John T. Conrad Date: 9/17/2002

Concurrence:

☐ Ops Mgr Concurrence: N/A Date: __/__/__

☐ Owner Concurrence: N/A Date: __/__/__

Package Check:

Updated Revision Summary attached? ☒ Yes

10 CFR 50.59 Requirements complete? Tracking No.: _____ ☐ Yes ☒ N/A

Implementation Plan developed? (Ref. Step 3.4.18) ☐ Yes ☒ N/A

Package Complete: B K Mallory Date: 9/17/02

Approvals:

PORC Review Required: ☐ Yes ☒ No Mtg. No.: _____

Administrative Hold Status: ☐ Released ☐ Reissued ☒ N/A CR No.: _____

Approval Authority Review/Approval: J Melder Date: 9/18/02

Expiration Date/Ending Activity N/A Effective Date: 9/20/02

Periodic Review:

Periodic Review conducted? (Data Sheet 5 Complete) ☐ Yes ☒ No

Follow-up Actions:

Commitment Database Updated? ☐ Yes ☒ N/A

NDM notified of new records or changes to records that could affect record retention? ☐ Yes ☒ N/A

NDM Use Only

NUCLEAR DOCUMENT MANAGEMENT SECTION

SEP 20 2002

CONTROLLED DOCUMENT

Office Information For Form Tracking Only - Not Part of Form

This form is derived from the information in PMP-2010-PRC-002, Procedure Correction, Change, and Review, Rev. 9a, Data Sheet 1, Review and Approval Tracking Form.

REVISION SUMMARY

Number: PMP-2080-EPP-100 Revision: 0a Change: 0

Title: Emergency Response

Corrections have been made for procedure number changes and title changes. No marginal markings used.

Section or Step	Change/Reason For Change
Step 3.1.7	Change: Changed title of Operations Staging Area (OSA) to Operations Support Center (OSC). Correction - e Reason: OSA is now the OSC.
Step 3.2.3	Change: Deleted reference to PMP-2081-EPP-104. Correction-o Reason: Procedure has been deleted.
Step 3.2.3.a	Change: Deleted reference to PMP-2081-EPP-103. Correction-o Reason: Procedure has been deleted.
Step 3.2.5 second bullet	Change: Corrected procedure number reference. Correction - o Reason: Procedure number changed.
Step 3.2.6.b	Change: Changed title of Operations Staging Area (OSA) to Operations Support Center (OSC). Correction - e Reason: OSA is now the OSC.
Step 3.2.7	Change: Deleted procedure reference in fourth bullet, PMP-2081-EPP-305. Correction - o Reason: Procedure deleted.
Step 3.2.7.e	Change: Added (within 15 minutes). Correction - q Reason: To clarify when initial notification is required.
Step 3.2.7.f	Change: Changed "15 minutes" to "30 minutes or within 15 minutes of a PAR change." Correction - m Reason: State requirements have changed to allow updates with no PAR changes to be made every 30 minutes.
Step 3.2.10	Change: Deleted reference to PMP 2081-EPP-103. Correction – o Changed OSA to OSC. Correction - e Reason: Procedure deleted.
Step 5.1.4, 5.1.5 and 5.1.7	Change: Deleted reference procedures. Correction - o Reason: Procedures have been deleted.

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. 9a.

REVISION SUMMARY

Number: PMP-2080-EPP-100 Revision: 0a Change: 0

Title: Emergency Response

Section or Step	Change/Reason For Change
New Step 5.1.4	Change: Changed procedure number to RMT-2080-EOF-001. Re-numbered step. Correction - o Reason: Procedure reference has changed.
Figure 1	Change: Modified procedure flow chart to reflect the deleted procedures incorporated by this change. Correction - m Reason: Correct the flow chart.

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. 9a.

TABLE OF CONTENTS

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.
- 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 Support Center (OSC), 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.

a. **WHEN** evacuation is necessary, **THEN** inform the Security Shift Supervisor (x 2005 or 2731) to evacuate plant personnel.

b. **WHEN** evacuation of the beach is necessary, **THEN** activate the beach activation warning system.

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).
- RMT-2080-EOF-001, Activation and Operation of the EOF (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.

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 Support Center/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.

b. Include any deviations from the PAR flowchart, Attachment 1, based on this step in the protective action recommendation.

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 within 15 minutes.

f. Repeat Steps 3.2.7.a through 3.2.7.e every 30 minutes or within 15 minutes of a PAR change 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 OSC are NOT activated, **THEN** have Security attempt to locate the missing person(s).

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.

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.

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 RMT-2080-EOF-001, Activation and Operation of the EOF.

5.2 Writing References:

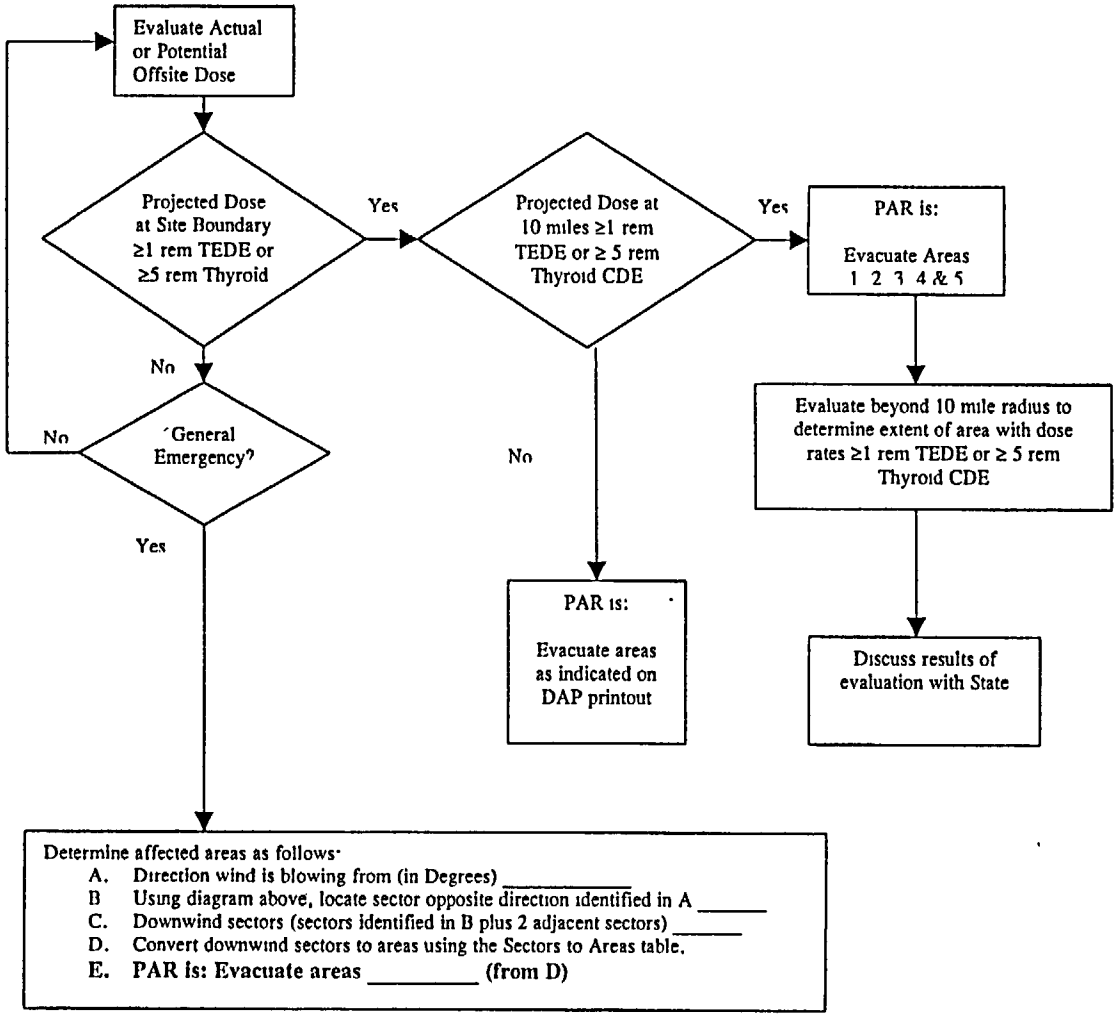
5.2.1 Source References:

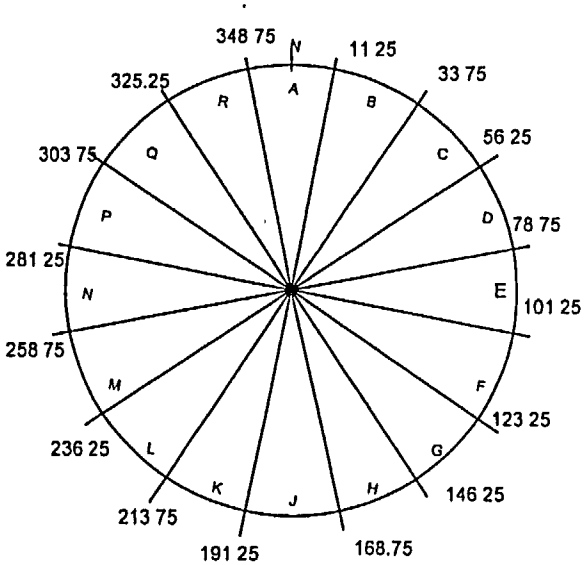
a. Cook Nuclear Plant Emergency Plan

5.2.2 General References

a. Michigan Emergency Preparedness Plan

Reference	PMP-2080-EPP-100	Rev. 0a	Page 9 of 20
Emergency Response			
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. 0a	Page 10 of 20
Emergency Response			
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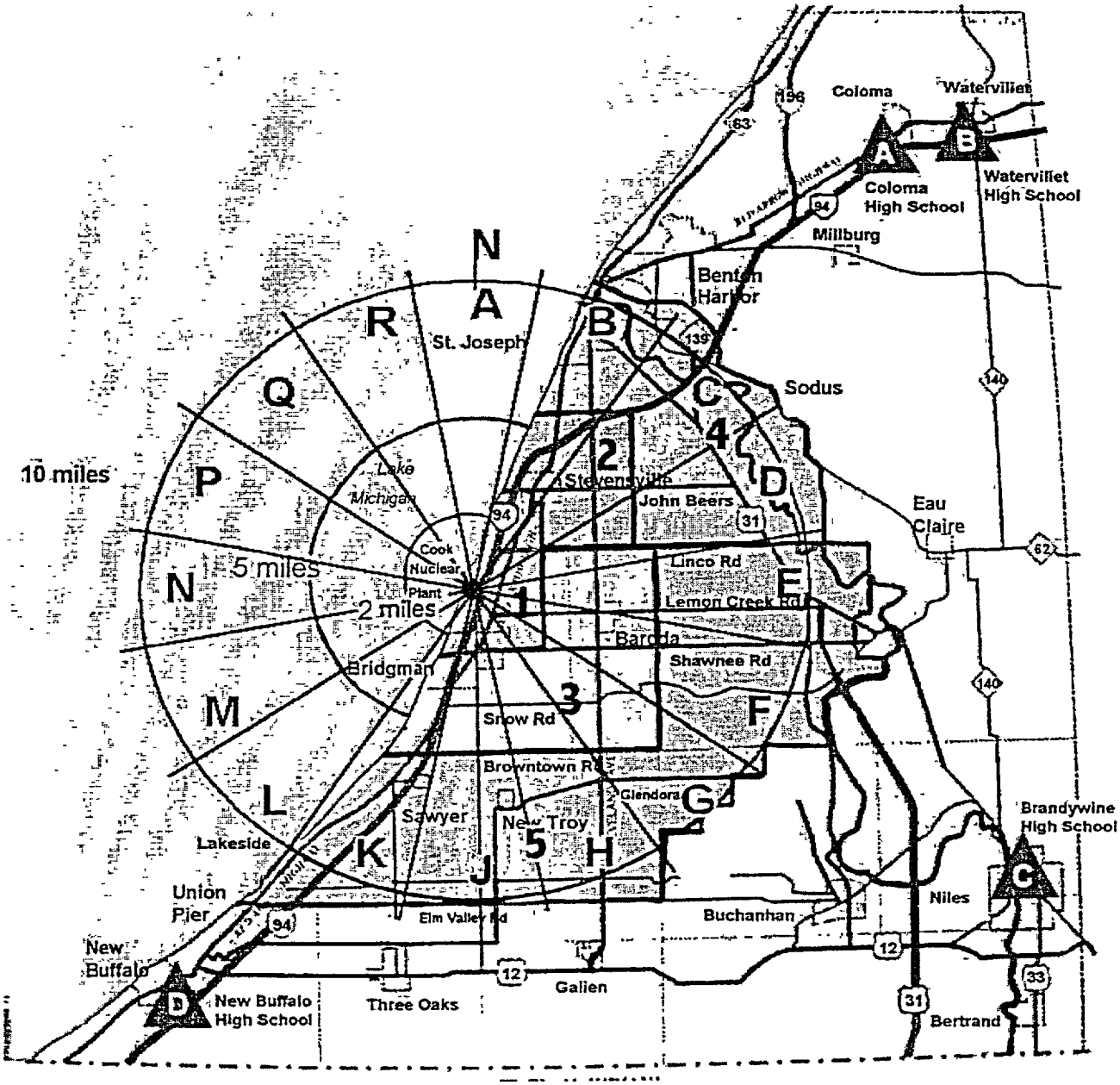


Unit No: _____ Date: _____ Time: _____

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_2 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
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.

1. Emergency Classification

	Time Declared
_____ 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: _____

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

_____

_____

_____

_____

c. Potential for Plant Degradation

d. Mitigating Actions Taken or Underway

6. Plant Radiological Conditions

a. Inplant/Onsite Radiological Conditions

b. Potential for Offsite Release of Radioactivity

_____ Airborne _____ Water

_____

_____

_____

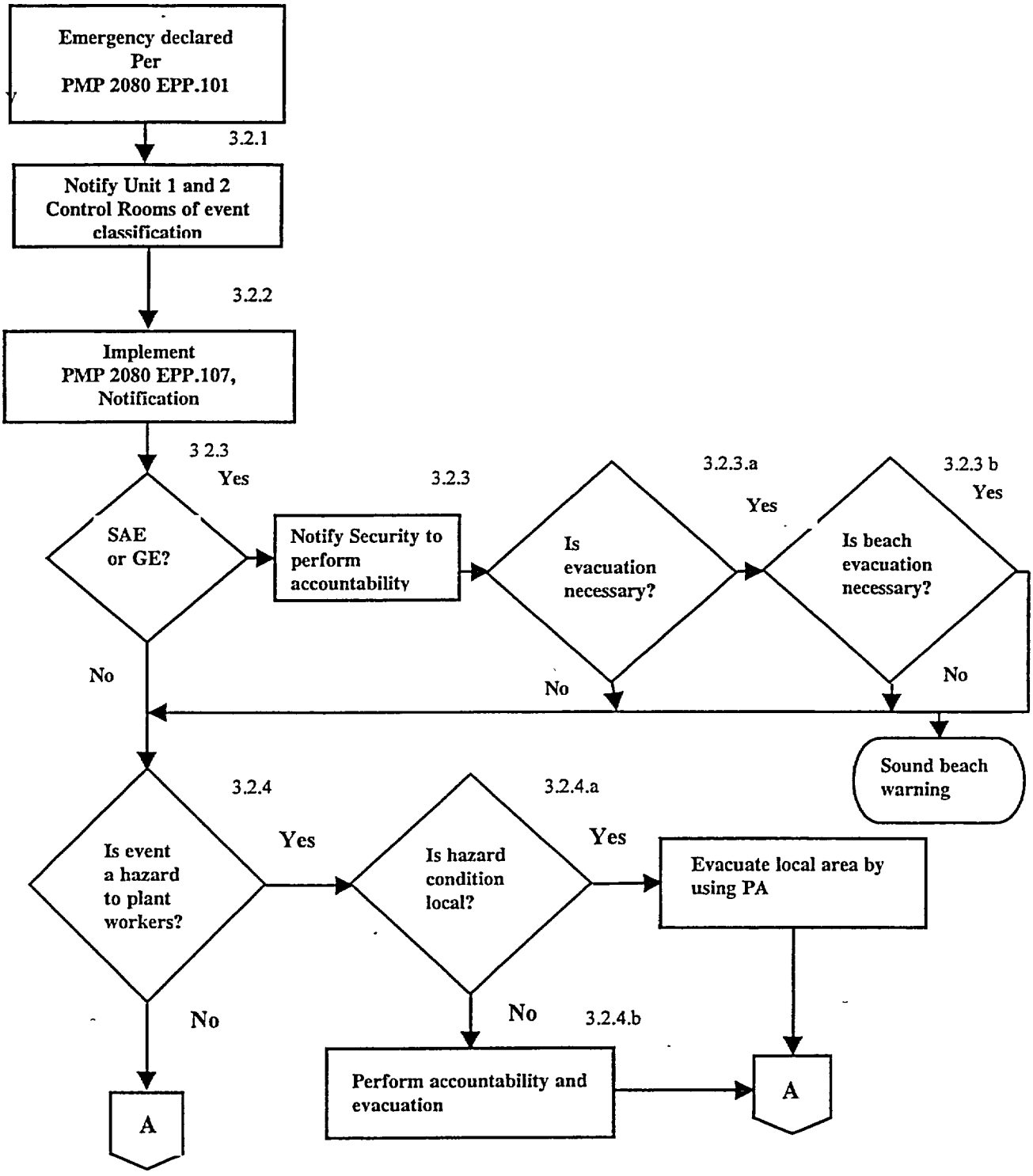
_____

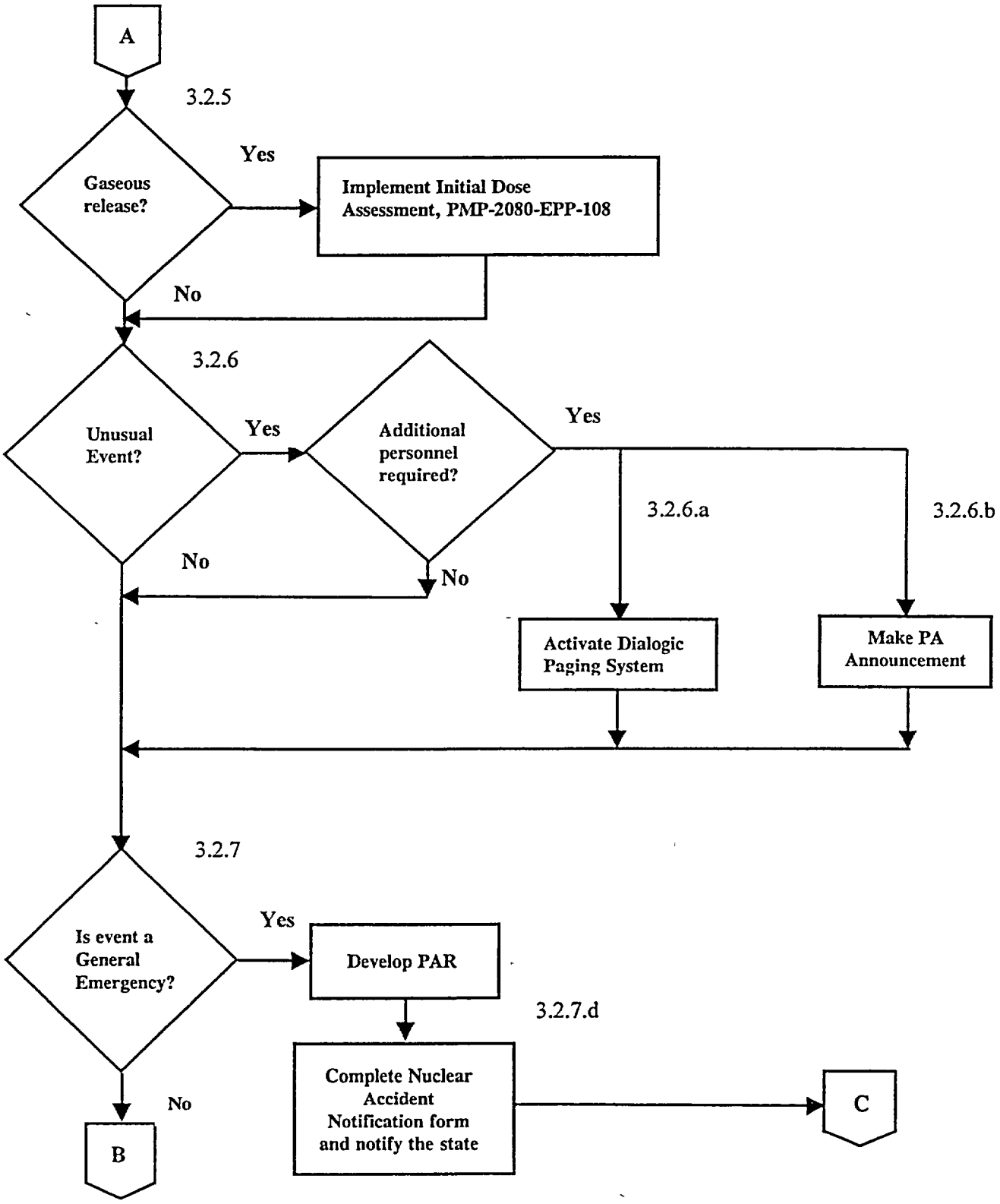
_____

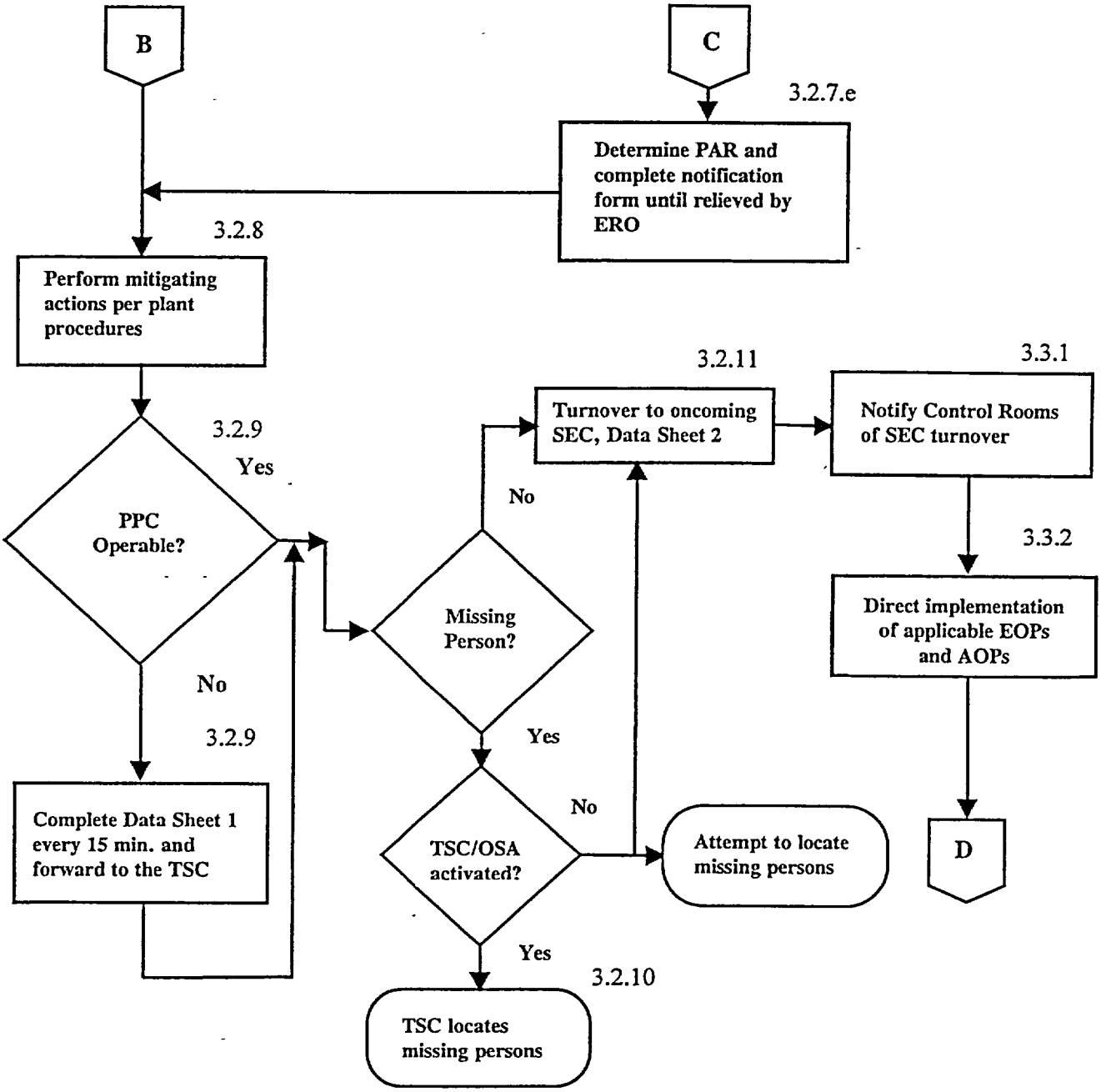
_____

7. Injured or Contaminated Personnel:

Name	Employer	Status
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____


Emergency declared Per PMP 2080 EPP.101
3.2.1
Notify Unit 1 and 2 Control Rooms of event classification
3.2.2
Implement PMP 2080 EPP.107, Notification
3 2.3
Yes
SAE or GE?
3.2.3
Notify Security to perform accountability
3.2.3.a
Yes
Is evacuation necessary?
3.2.3 b
Yes
Is beach evacuation necessary?
No
No
No
Sound beach warning
3.2.4
Is event a hazard to plant workers?
Yes
3.2.4.a
Is hazard condition local?
Yes
Evacuate local area by using PA
No
No
3.2.4.b
Perform accountability and evacuation
A
A


A
3.2.5
Gaseous release?
Yes
Implement Initial Dose Assessment, PMP-2080-EPP-108
No
3.2.6
Unusual Event?
Yes
Additional personnel required?
Yes
No
No
3.2.6.a
3.2.6.b
Activate Dialogic Paging System
Make PA Announcement
3.2.7
Is event a General Emergency?
Yes
Develop PAR
3.2.7.d
Complete Nuclear Accident Notification form and notify the state
C
No
B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Complete Data Sheet 1 every 15 min. and forward to the TSC
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Missing Person?
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3.2.10
TSC locates missing persons
Attempt to locate missing persons
3.3.2
Direct implementation of applicable EOPs and AOPs
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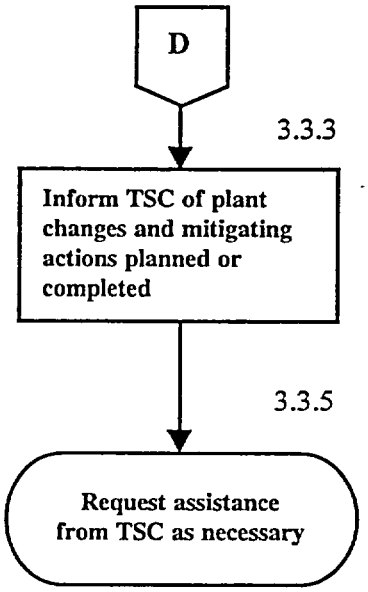
D
3.3.3
Inform TSC of plant changes and mitigating actions planned or completed
3.3.5
Request assistance from TSC as necessary