

16748N

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Description:

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

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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:

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Date

Please sign and return within 14 calendar days to: C. Cook Nuclear Plant
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A045

REVIEW AND APPROVAL TRACKING FORM

Procedure Information:

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

Category (Select One Only):

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☐ Superseded (list superseding procedures): _____

Associated Configuration Document Impact Assessments:

CDI Tracking No(s): _____ ☒ N/A

Required Reviews:

Cross-Discipline Reviews:

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

Programmatic Reviews:

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

☒ Cognizant Org Review: Cynthia Braggins Date: 3/22/01

☒ Technical Review: John T. Conrad Date: 3/23/2001

Concurrence:

☐ Ops Mgr Concurrence: N/A Date: ___/___/___
☒ Owner Concurrence: [Signature] Date: 3/22/01

Package Check:

Updated Revision Summary attached? ☒ Yes
 10 CFR 50.59 Requirements complete? Tracking No.: 2001-0166-00 ☒ Yes ☐ N/A
 Implementation Plan developed? (Ref. Step 3.4.18) ☒ Yes ☐ N/A
 Package Complete: B. Connelly Date: 3/23/01

Approvals:

PORC Review Required: ☒ Yes ☐ No Mtg. No.: 3862
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Periodic Review conducted? (Data Sheet 5 Complete) ☐ Yes ☒ No

NDM Use Only

NUCLEAR DOCUMENT
MANAGEMENT SECTION

APR 06 2001

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. 8, Data Sheet 1,
 Review and Approval Tracking Form.

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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.

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Emergency Response			
Reference		Effective Date: 4/6/01	
B. K. Molloy Writer	P. E. Holland Owner	Site Protective Services Cognizant Organization	

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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

<p>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.)</p>
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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.

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- 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.

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- 3.2.4 IF a hazard to plant personnel exists (e.g., fire, radiation or toxic gas), THEN perform one of the following steps:
- IF the condition is local, THEN evacuate the area by page announcement.
 - 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.

<p>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.</p>

- 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:
- Call the Secondary Alarm Station (SAS) (x1118) and direct security to implement the Dialogic Emergency Response Notification System for an EMERGENCY.

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- 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.

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- 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.

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- 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.

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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:

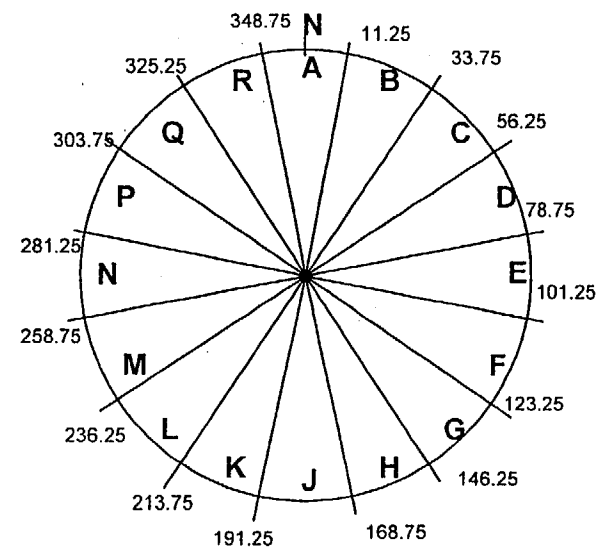
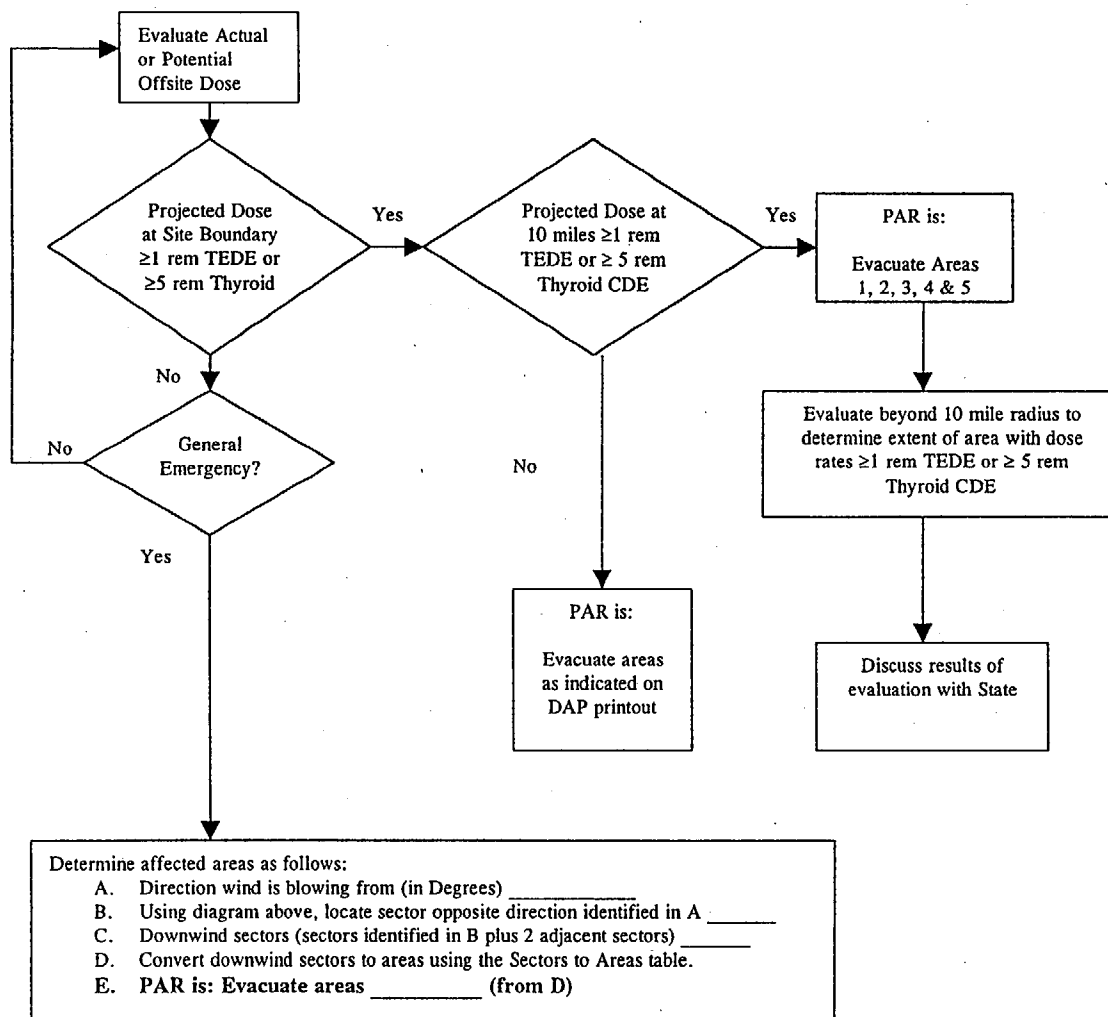
5.2.1 Source References:

- a. Cook Nuclear Plant Emergency Plan

5.2.2 General References

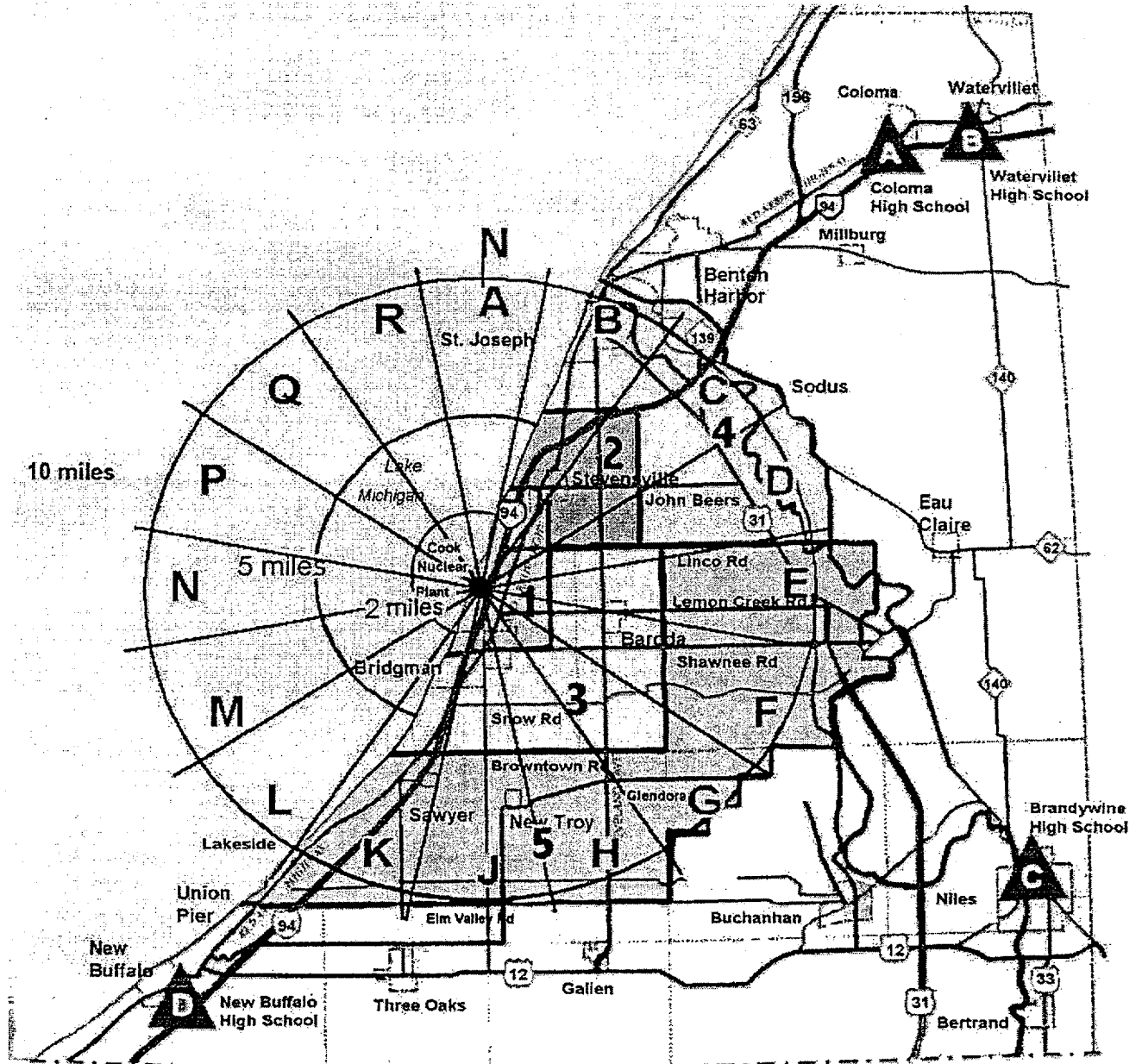
- a. Michigan Emergency Preparedness Plan

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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

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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 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 |

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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.

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Data Sheet 2	Emergency Turnover Checklist		Pages: 13 - 16

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: _____

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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

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c. Potential for Plant Degradation

d. Mitigating Actions Taken or Underway

6. Plant Radiological Conditions

a. Inplant/Onsite Radiological Conditions

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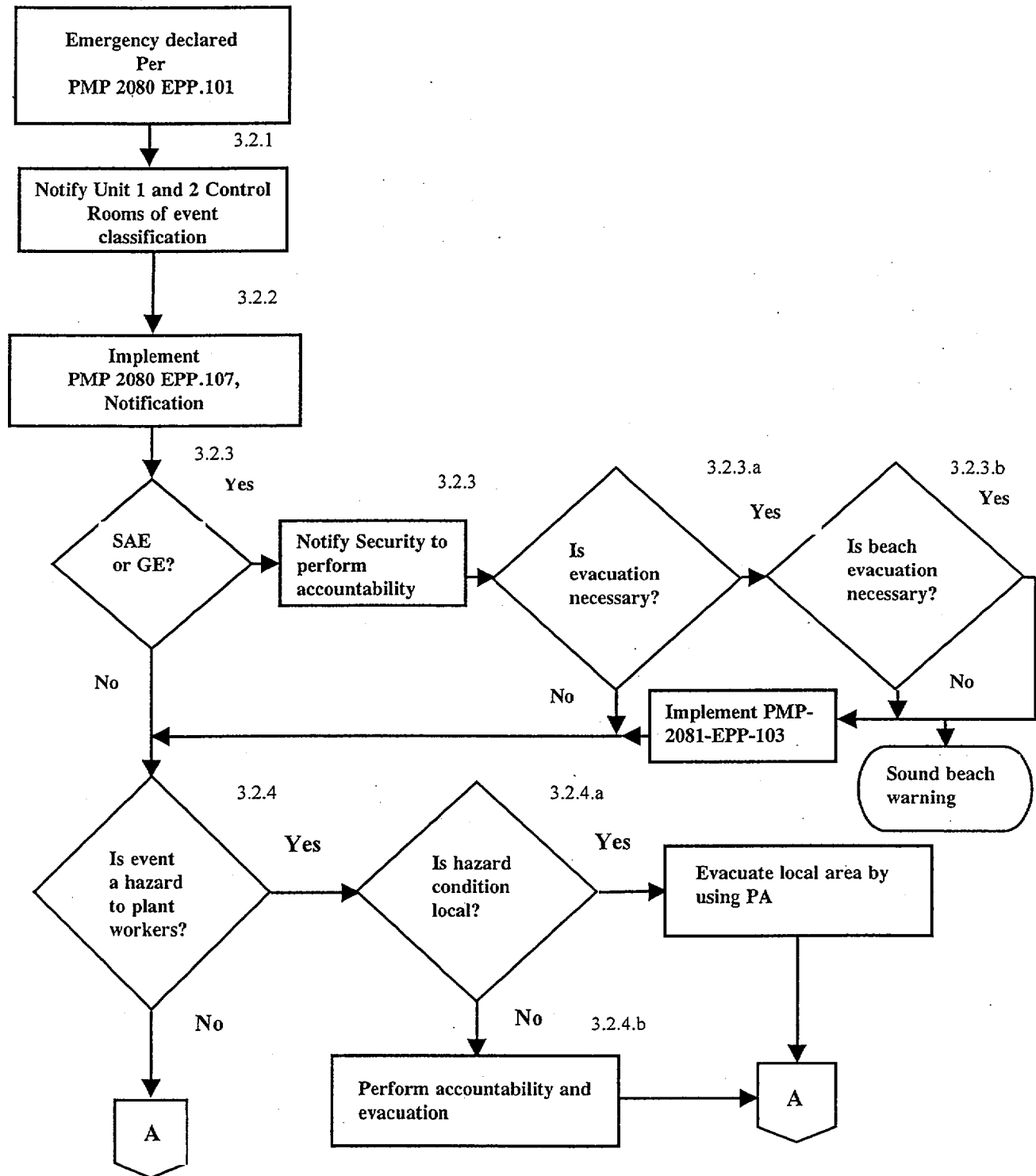
b. Potential for Offsite Release of Radioactivity

_____ Airborne _____ Water

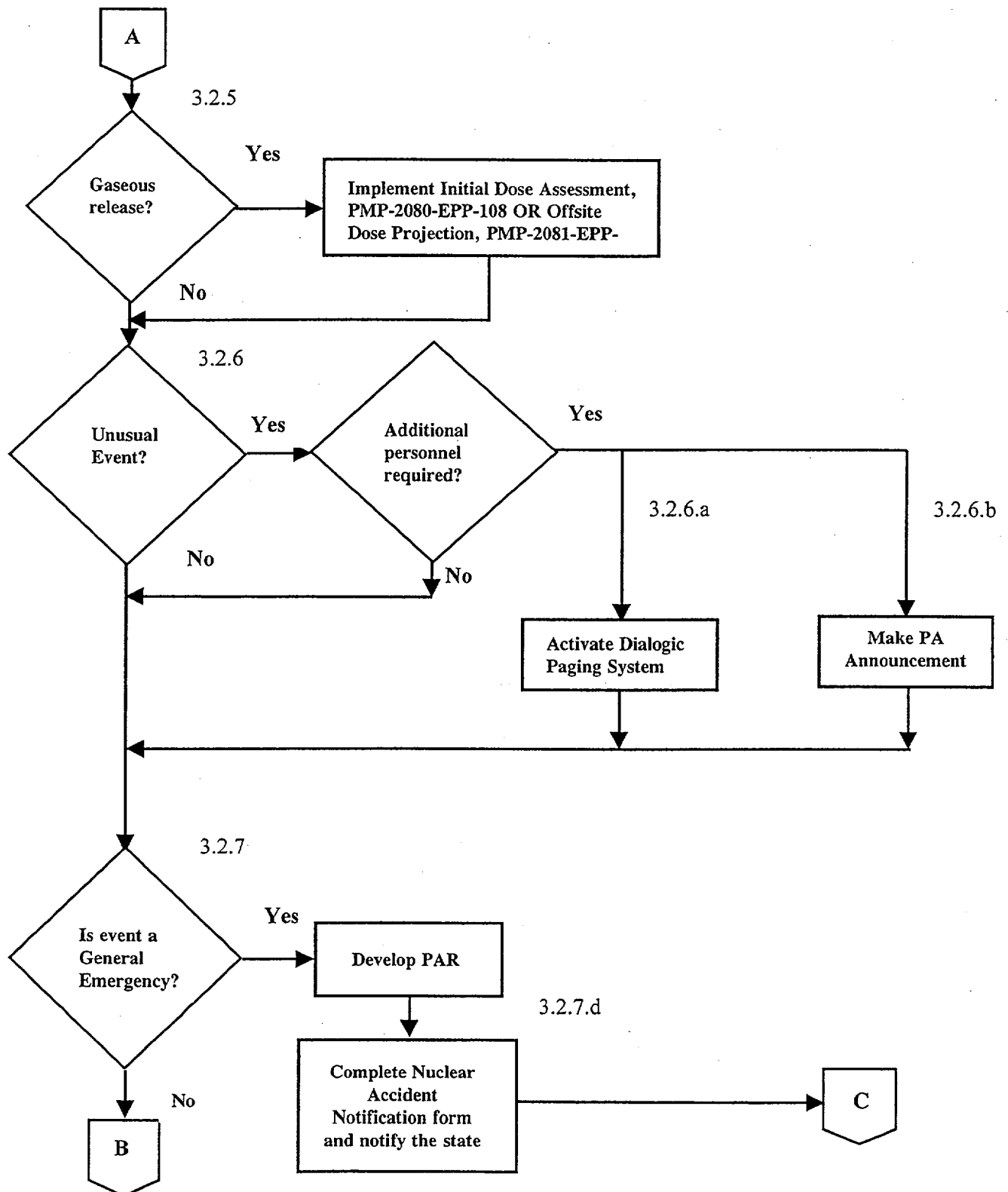
7. Injured or Contaminated Personnel:

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

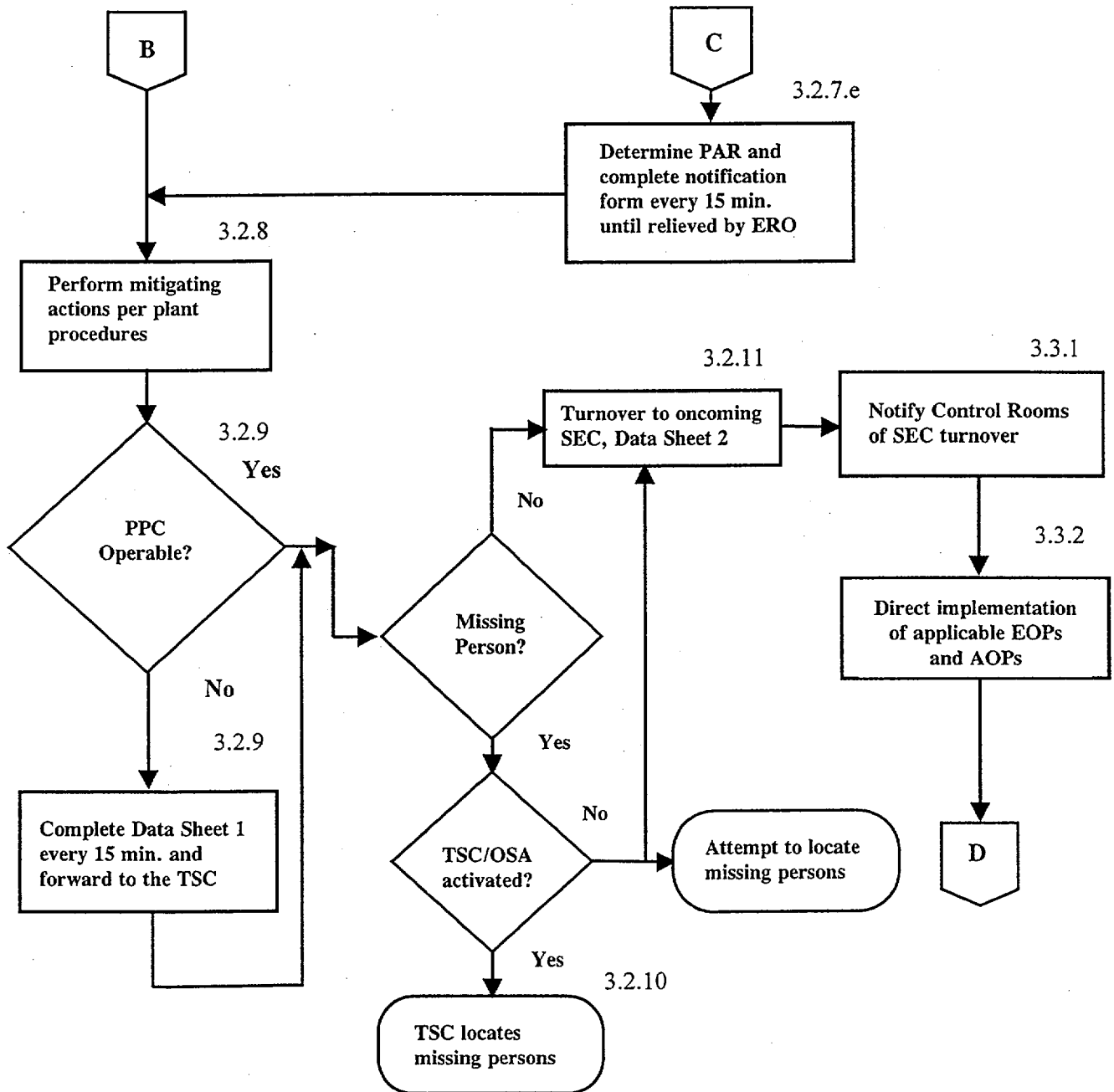
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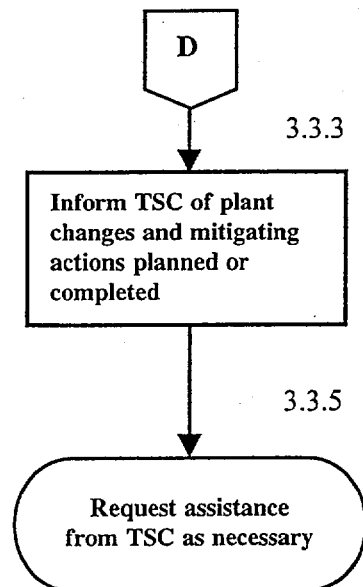
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REVIEW AND APPROVAL TRACKING FORM

Procedure Information:			
Number: <u>PMP 2080 EPP 100</u>		Revision: <u>0</u>	Change: <u>0</u>
Title: <u>Emergency Response</u>			
Category (Select One Only):			
<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): _____			
Associated Configuration Document Impact Assessments:			
CDI Tracking No(s): _____		<input checked="" type="checkbox"/> N/A	
Required Reviews:			
Cross-Discipline Reviews:		Programmatic Reviews:	
<input type="checkbox"/> Chemistry	<input checked="" type="checkbox"/> Training	<input type="checkbox"/> ALARA	<input type="checkbox"/> Performance Assurance
<input type="checkbox"/> Maintenance	<input type="checkbox"/> Work Control	<input checked="" type="checkbox"/> Bus. Services Proc Grp	<input type="checkbox"/> Reactivity Mgmt Team
<input type="checkbox"/> NDM	<input type="checkbox"/> _____	<input type="checkbox"/> Component Engineering	<input type="checkbox"/> SPS (Safety & Health)
<input checked="" type="checkbox"/> Operations	<input type="checkbox"/> _____	<input type="checkbox"/> Design Engineering	<input type="checkbox"/> Surveillance Section
<input type="checkbox"/> PA/PV	<input type="checkbox"/> _____	<input type="checkbox"/> Emerg Oper Proc Grp	<input type="checkbox"/> System Engineering
<input type="checkbox"/> Reg Affairs	<input type="checkbox"/> _____	<input type="checkbox"/> Environmental	<input type="checkbox"/> _____
<input type="checkbox"/> RP	<input type="checkbox"/> None Required	<input type="checkbox"/> ISI/IST Coordinator	<input type="checkbox"/> None Required
<input checked="" type="checkbox"/> Cognizant Org Review: <u>Cynthia Bruffert</u>		Date: <u>3/23/01</u>	
<input checked="" type="checkbox"/> Technical Review: <u>John T. Conrad</u>		Date: <u>3/23/2001</u>	
Concurrence:			
<input type="checkbox"/> Ops Mgr Concurrence: _____		Date: <u> </u> / <u> </u> / <u> </u>	
<input checked="" type="checkbox"/> Owner Concurrence: <u>[Signature]</u>		Date: <u>3/22/01</u>	
Package Check:			
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 Mallory</u>		Date: <u>3/23/01</u>	
Approvals:			
PORC Review Required:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Administrative Hold Status:		<input type="checkbox"/> Released <input type="checkbox"/> Reissued <input checked="" type="checkbox"/> N/A	
Approval Authority Review/Approval: <u>J. Molder</u>		Mtg. No.: <u>3862</u>	
Expiration Date/Ending Activity: <u>NA</u>		CR No.: _____	
		Date: <u>4/4/01</u>	
		Effective Date: <u>4/6/01</u>	
Periodic Review:			
Periodic Review conducted?		(Data Sheet 5 Complete) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
NDM Use Only	Office Information For Form Tracking Only - Not Part of Form		
	NUCLEAR DOCUMENT MANAGEMENT SECTION		
	APR 06 2001		
	CONTROLLED DOCUMENT		
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.			
Page <u>1</u> of <u>2</u>			

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.

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Emergency Response			
Reference		Effective Date: <u>4/6/01</u>	
<u>B. K. Molloy</u> Writer	<u>P. E. Holland</u> Owner	<u>Site Protective Services</u> Cognizant Organization	

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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

<p>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.)</p>
--

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.

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- 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.

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- 3.2.4 IF a hazard to plant personnel exists (e.g., fire, radiation or toxic gas), THEN perform one of the following steps:
- IF the condition is local, THEN evacuate the area by page announcement.
 - 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:
- Call the Secondary Alarm Station (SAS) (x1118) and direct security to implement the Dialogic Emergency Response Notification System for an EMERGENCY.

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- 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.

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- 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.

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- 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.

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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:

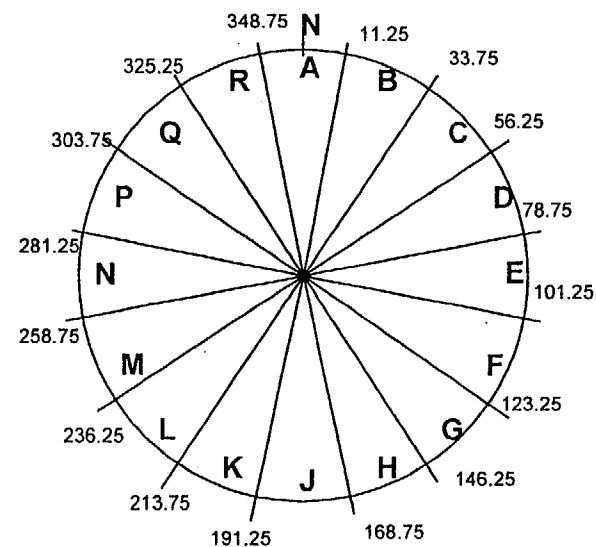
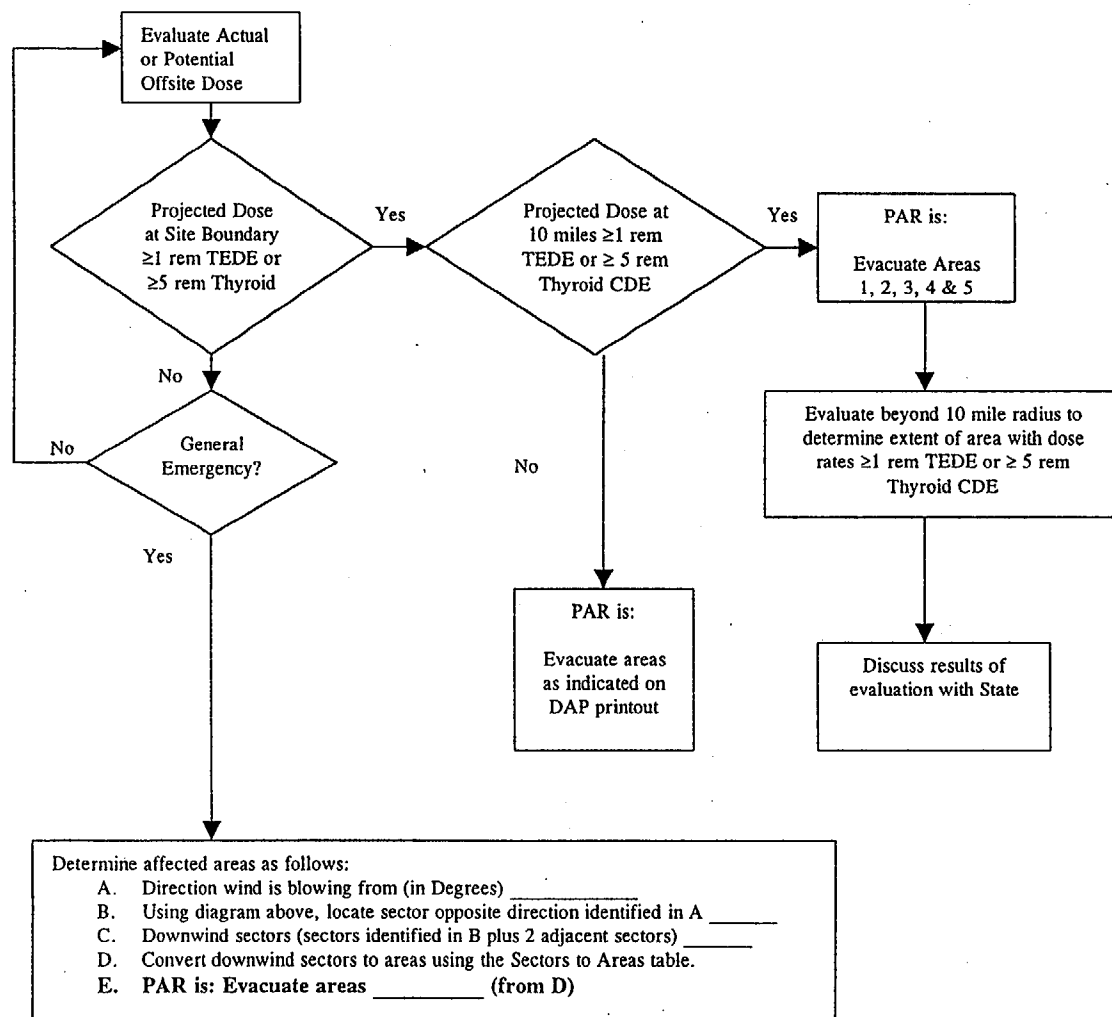
5.2.1 Source References:

- a. Cook Nuclear Plant Emergency Plan

5.2.2 General References

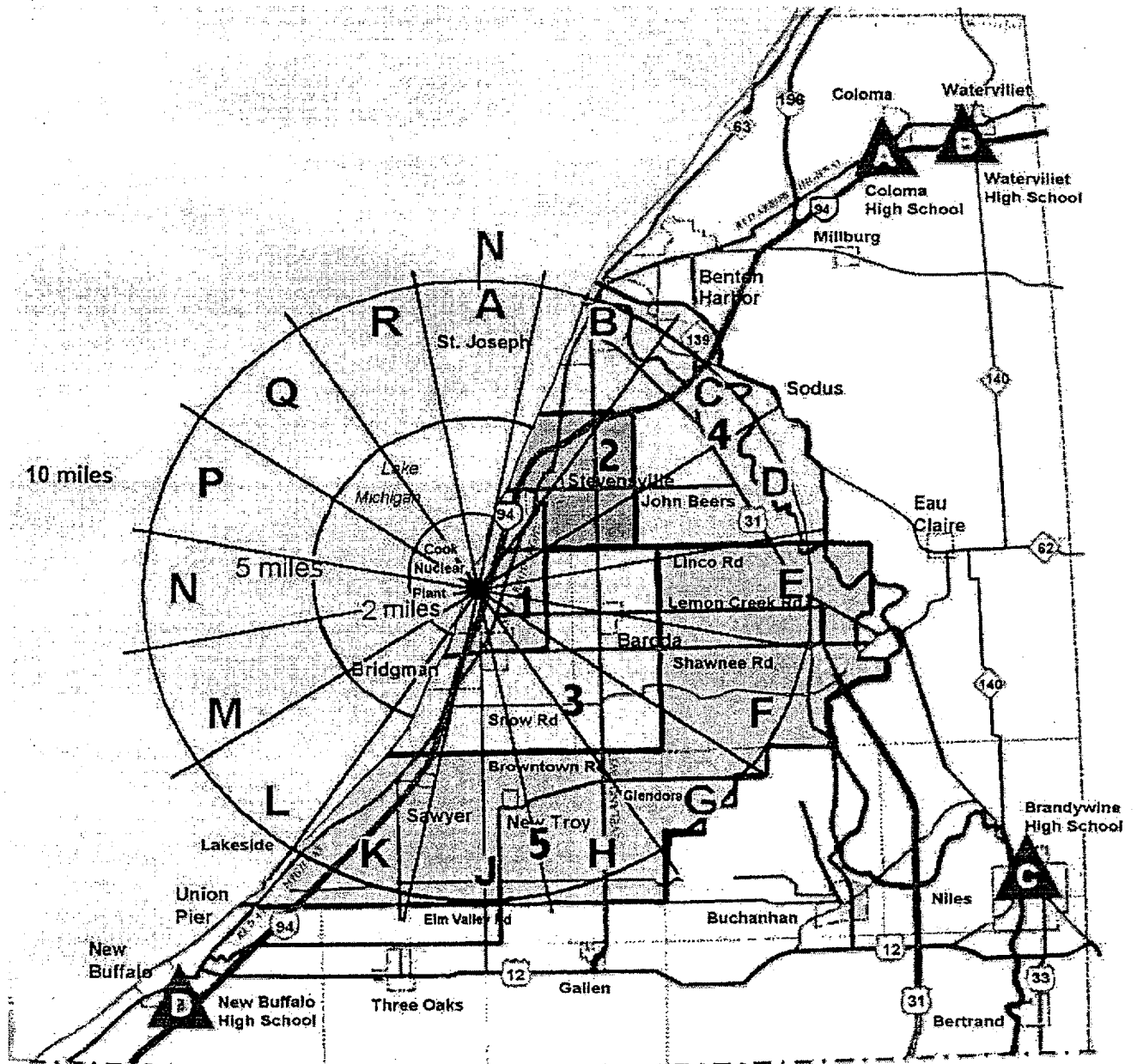
- a. Michigan Emergency Preparedness Plan

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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

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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 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 |

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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.

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Emergency Response			
Data Sheet 2	Emergency Turnover Checklist		Pages: 13 - 16

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: _____

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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

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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

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Data Sheet 2	Emergency Turnover Checklist		Pages: 13 - 16

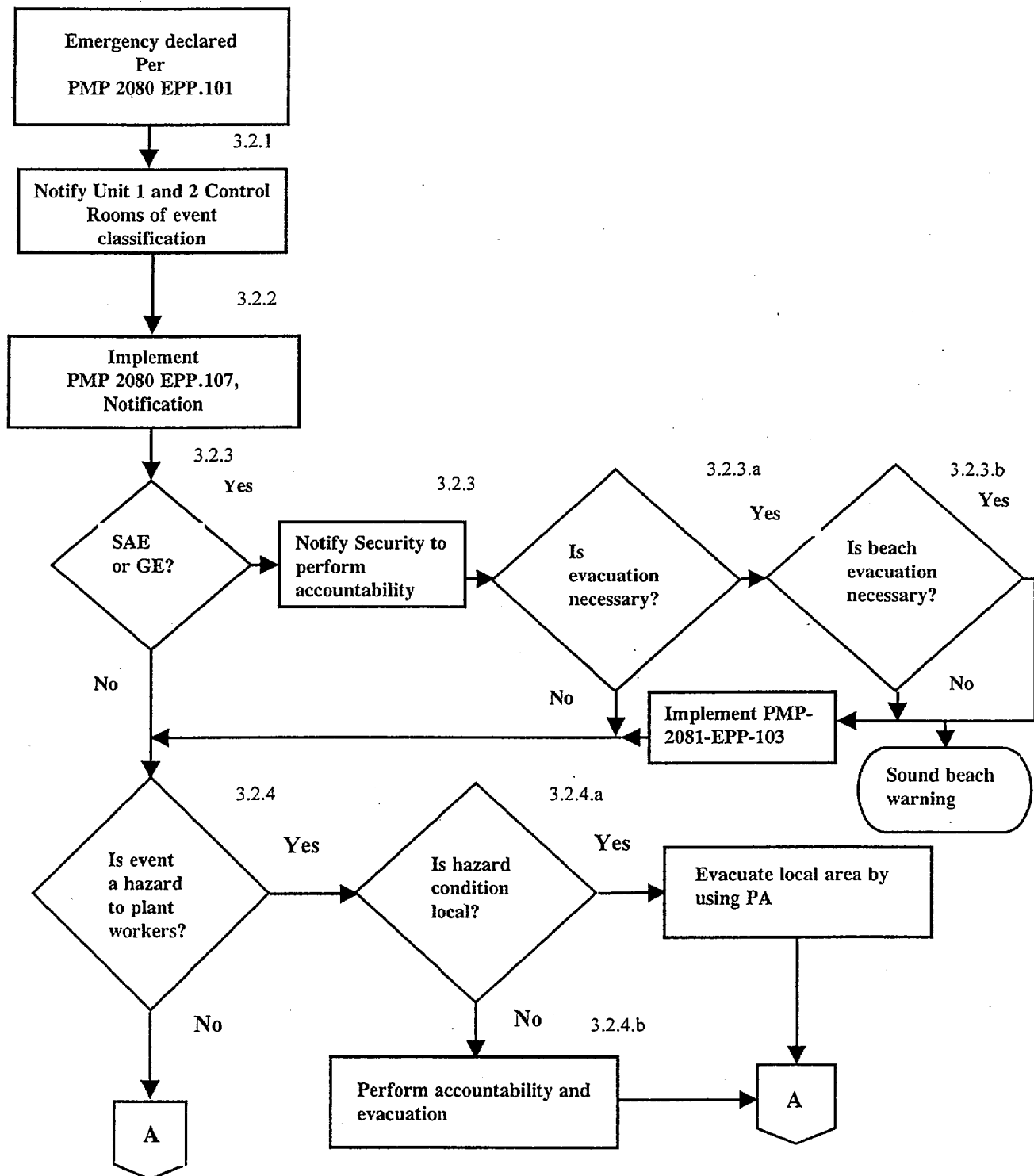
b. Potential for Offsite Release of Radioactivity

_____ Airborne _____ Water

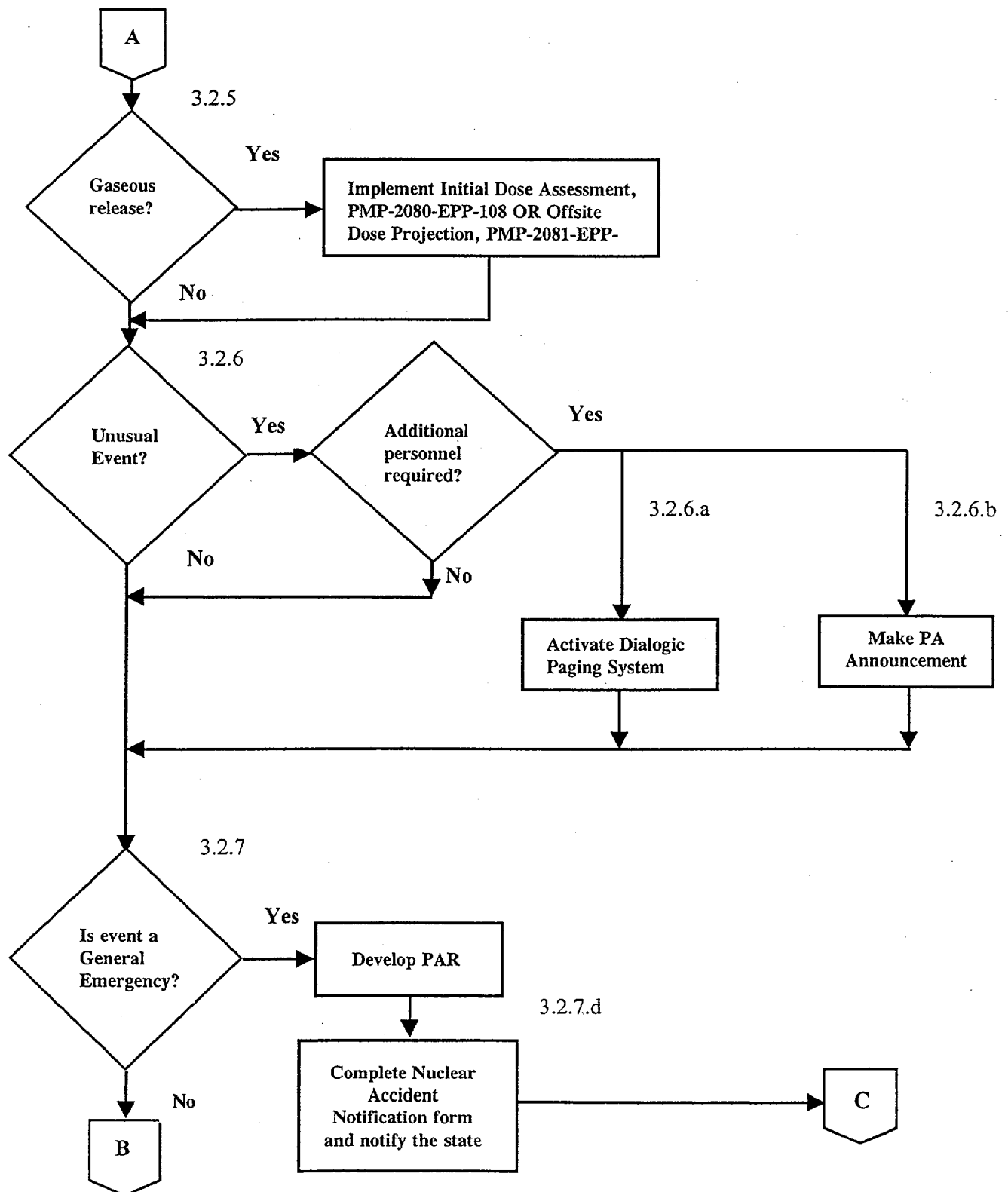
7. Injured or Contaminated Personnel:

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

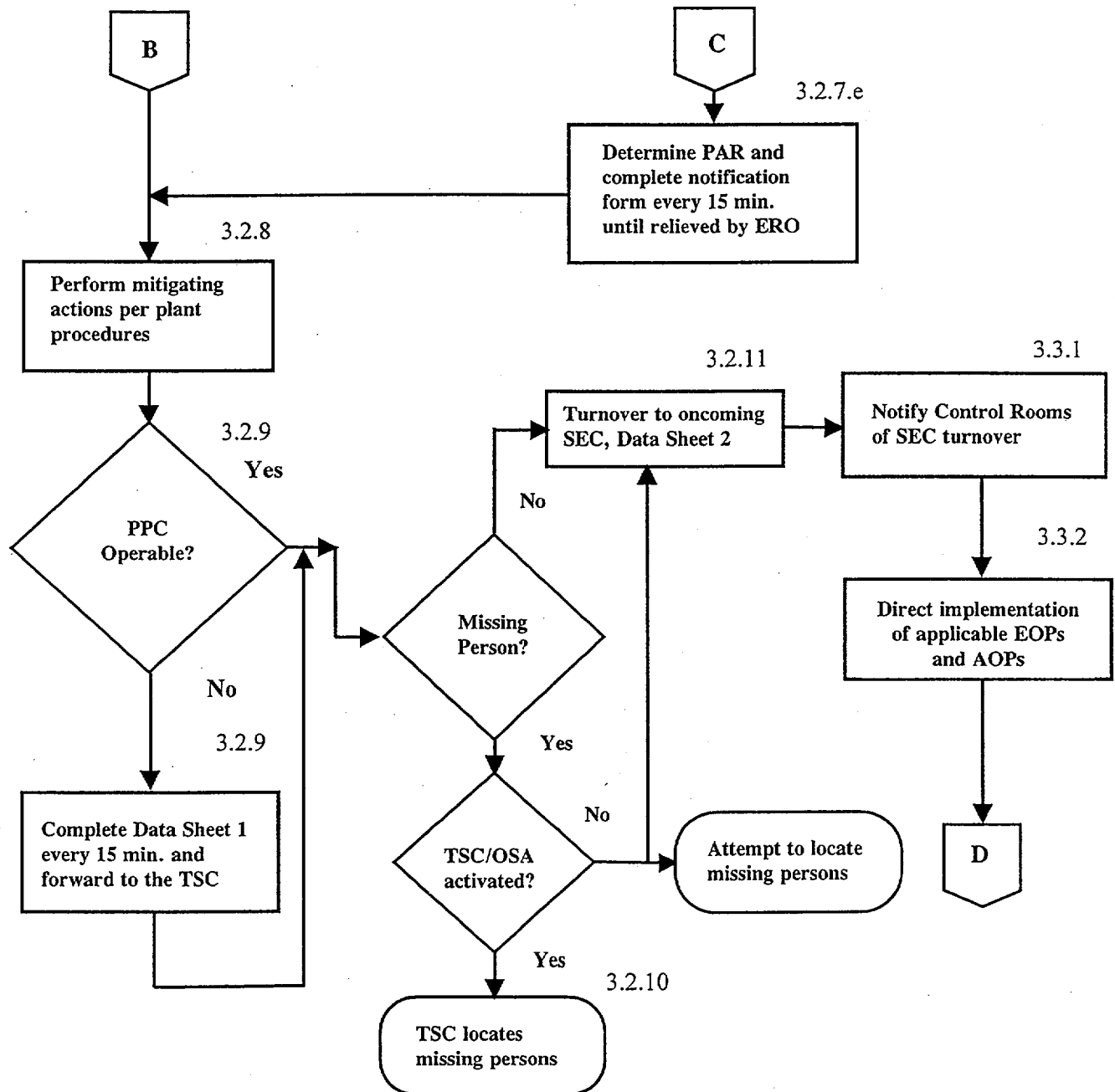
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