

54187N

CONTROLLED DOCUMENT TRANSMITTAL

54187N

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Page 1

Description: ISSUE OF PMP-2080-EPP-100. PROCEDURE IS BEING ISSUED IN ITS ENTIRETY. PLEASE DISCARD COMPLETE PROCEDURE IN YOUR BOOK AND REPLACE WITH PROCEDURE ATTACHED.

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Document	Revision	Title
PROCEDURE		SEE ATTACHED

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PMP-2080-EPP-100

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REVIEW AND APPROVAL TRACKING FORM

Procedure Information:	
Number: PMP-2080-EPP-100	Rev. 2 Change: 0
Title: Emergency Response	
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<input type="checkbox"/> _____	<input type="checkbox"/> Surveillance Section
<input type="checkbox"/> _____	<input type="checkbox"/> System Engineering
<input type="checkbox"/> None Required	<input type="checkbox"/> SOMS Administrator
	<input checked="" type="checkbox"/> None Required
<input checked="" type="checkbox"/> Cognizant Org Review: <u>Cindy Schaffner</u> Date: <u>8/27/03</u>	
<input checked="" type="checkbox"/> Technical Review: <u>John R. Beckman</u> Date: <u>8/25/03</u>	
Concurrence:	
<input type="checkbox"/> Ops Director Concurrence: <u>N/A</u> Date: <u> / /</u>	
Package Check:	
Updated Revision Summary attached? <input checked="" type="checkbox"/> Yes	
10 CFR 50.59 Requirements complete? Tracking No.: <u>2003-1025-00</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Implementation Plan developed? (Ref. Step 3.4.17) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
Package Complete: <u>Darrell Schroeder</u> Date: <u>9/8/03</u>	
Approvals:	
PORC Review Required: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Mtg. No.: <u>4035</u>	
Administrative Hold Status: <input type="checkbox"/> Released <input type="checkbox"/> Reissued <input checked="" type="checkbox"/> N/A CR No.: <u>N/A</u>	
Approval Authority Review/Approval: <u>Er A. Lee</u> Date: <u>9/18/03</u>	
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Periodic Review:	
Periodic Review conducted? (Data Sheet 5 Complete) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Follow-up Actions:	
Commitment Database update requested in accordance with PMP-7100-CMP-001? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
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	This form is derived from the information in PMP-2010-PRC-002, Procedure Correction, Change, and Review, Rev. 10a, Data Sheet 1, Review and Approval Tracking Form.	
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REVISION SUMMARY

Number: PMP-2080-EPP-100 Revision: 2 Change: 0
 Title: Emergency Response

Section or Step	Change/Reason For Change
3.2.3	<p>Change: Add Note IF accountability and /or evacuation is (are) required at classifications other than a Site Area Emergency or General Emergency, THEN Accountability is performed only ONE time for the event in progress.</p> <p>Reason: Address personnel accountability and evacuation from site when Site Area Emergency or General Emergency do not exist.</p>
3.2.4	<p>Change: Add Note IF accountability and /or evacuation is (are) required at classifications other than a Site Area Emergency or General Emergency, THEN PA announcements may be made using the guidance in step 3.2.3. of PMP-2080-EPP-107, Notification. The announcement may be modified as necessary to fit existing plant and ERO status.</p> <p>Reason: CR 03099018 action 2 to address personnel accountability and evacuation from site when Site Area Emergency or General Emergency do not exist.</p>
Step 3.2.6	<p>Change: Add "or 1119" to the SAS phone extension parenthetical remark.</p> <p>Reason: Identify alternate telephone extension available for use.</p>
NOTE prior to Step 3.2.7	<p>Change: Add NOTE prior to step to caution the user not to change Protective Action Recommendation such that protection is reduced for Areas previously addressed in previous PARs</p> <p>Reason: CRA03178012-01; recommendation from OE/RIS to prevent modifying PARs for areas affected by previously-issued PARs.</p>

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This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction, Change, and Review, Rev. 10a.

 <small>Member of American Energy Partners</small>	PMP-2080-EPP-100	Rev. 2	Page 1 of 21
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Reference			Effective Date: 9/18/03
<u>D. A. Schroeder</u> Writer	<u>S. M. Partin</u> Owner	<u>Site Protective Services</u> Cognizant Organization	

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Emergency Response

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

Term	Meaning
AOP	Abnormal Operating Procedure
BCSD	Berrien County Sheriff Department
DAP	Dose Assessment Program
EMD-32	Nuclear Plant Accident Notification form
ENC	Emergency News Center
EOF	Emergency Operations Facility
EOP	Emergency Operating Procedure
ERDS	Emergency Response Data System
ERO	Emergency Response Organization
GE	General Emergency
JPIC	Joint Public Information Center
MSP	Michigan State Police
OSC	Operations Support Center
PAR	Protective Action Recommendation
PPC	Plant Process Computer
SAE	Site Area Emergency

SAS	Secondary Alarm Station
SEC	Site Emergency Coordinator
SM	Shift Manager
TSC	Technical Support Center
UE	Unusual Event

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 SM 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 PAR to offsite emergency management agencies.
- 3.1.4 Declaration of an emergency requires the notification of the BCSD and MSP 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 GE requires that a PAR be made to the state. The PAR should be made immediately after the notification of a GE (i.e., during the same phone call).

Emergency Response

- 3.1.6 The 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 OSC, TSC, and the 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 SM has assumed the position of SEC.
- 3.2.2 Implement or direct the implementation of PMP-2080-EPP-107, Notification.

NOTE: IF accountability and/or evacuation is (are) required at classifications other than a Site Area Emergency or General Emergency, THEN accountability is performed only ONE time for the event in progress.

- 3.2.3 IF a SAE or GE 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 direct an announcement to be made to evacuate the beach.
 - c. IF offsite agency personnel (e.g., National Guard, MSP, etc.) are stationed in the owner-controlled area, THEN determine if these personnel should be evacuated or if they will remain onsite.
 - Take appropriate action (e.g., evacuate, shelter, relocate onsite, issue dosimetry, etc.) as necessary to protect the offsite agency personnel.

Emergency Response

NOTE: IF accountability and/or evacuation is (are) required at classifications other than a Site Area Emergency or General Emergency, THEN PA announcements may be made using the guidance in Step 3.2.3 of PMP-2080-EPP-107, Notification. The announcement may be modified as necessary to fit existing plant and ERO status.

- 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 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 SAS (x1118 or 1119) and direct security to implement the Dialogic Emergency Response Notification System for an EMERGENCY.

Emergency Response

- 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. 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
 - Repeat the above announcement twice

NOTE: DO NOT revise protective actions such that protection is reduced for areas already addressed in previously issued PARs. For example, if *evacuation* was recommended for Area 1 in a previous PAR, do not revise this recommendation to *sheltering* in Area 1 in any subsequent PAR.

3.2.7 IF a GE 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.

Emergency Response

- b. Obtain the following data:
- Wind direction
 - AND -
 - Offsite dose projection (if available) as calculated using DAP or actual offsite dose rate measurements.
- c. Using Attachment 1, PAR Flowchart and Map, determine the appropriate PAR.
- d. Include any deviations from the PAR flowchart, Attachment 1, based on step 3.2.7.a in the protective action recommendation that is provided to the state.
- e. Enter the PAR on the EMD-32 form, Nuclear Plant Accident Notification, obtained from the Emergency Kit and notify the State of Michigan of the recommendation within 15 minutes, in accordance with PMP-2080-EPP-107, Notification.
- 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 ERO.
- 3.2.8 Perform mitigating actions in accordance with appropriate plant procedures.
- 3.2.9 IF the 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).

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3.2.11 Determine if special directions to the Security Staff are required (e.g., security event, radiation release, etc.) in order to control incoming ERO and/or non-ERO plant staff.

- Provide directions as necessary to control incoming personnel.

3.2.12 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 SM After Being Relieved of SEC Duties

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

- Notify the Control Rooms that the SM 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 Direct plant announcements and sounding of the Nuclear Emergency Alarm, if required, for any change in classification made by the TSC or EOF.

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

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

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- 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.

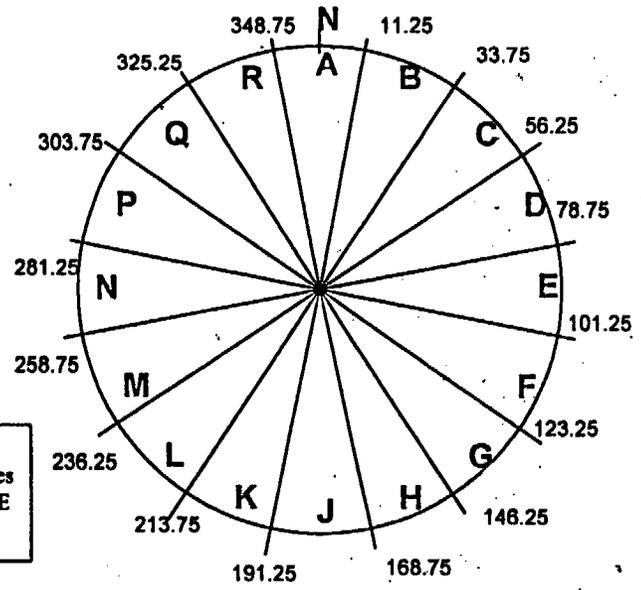
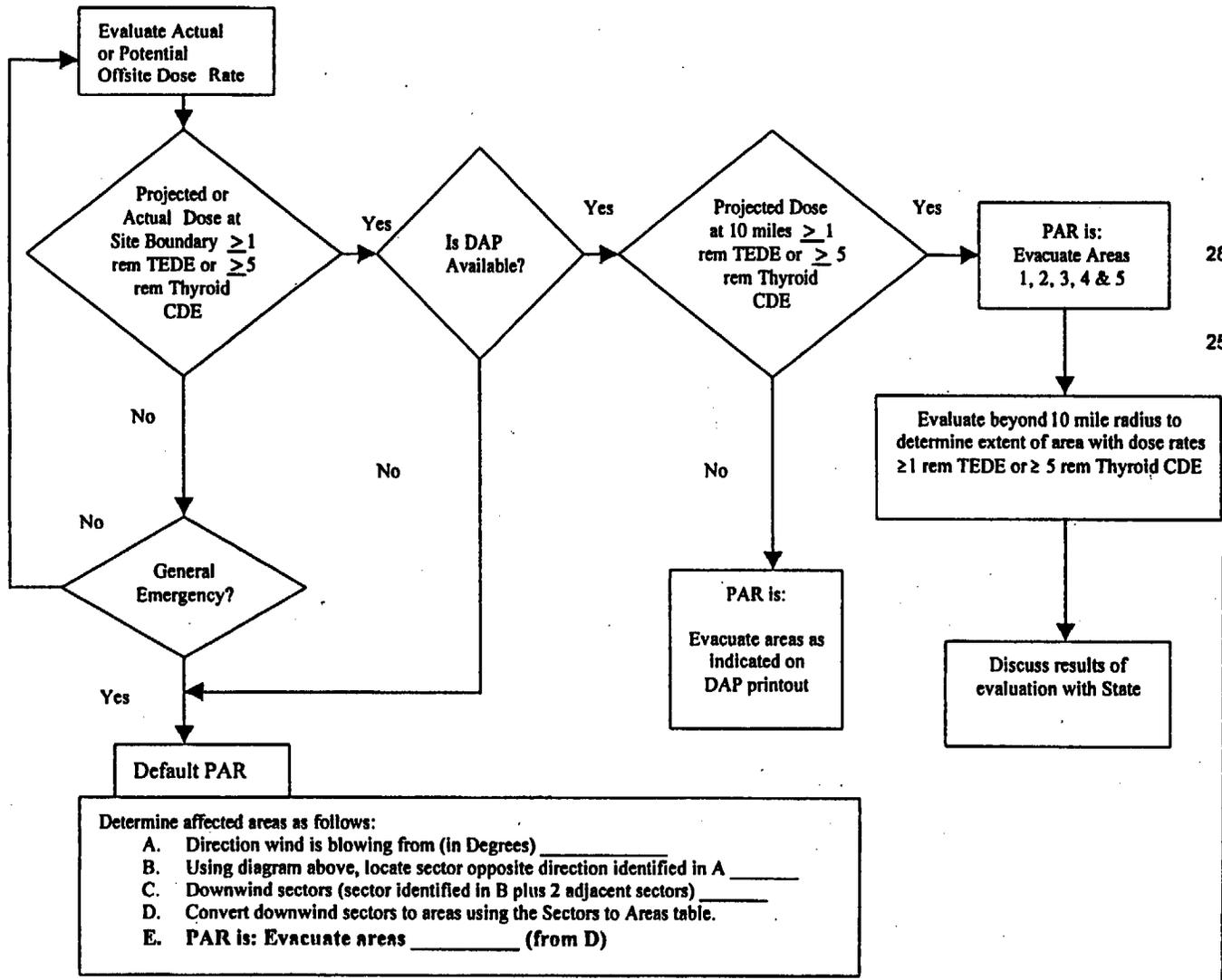
5.2 Writing References:

5.2.1 Source References:

- a. Cook Nuclear Plant Emergency Plan

5.2.2 General References

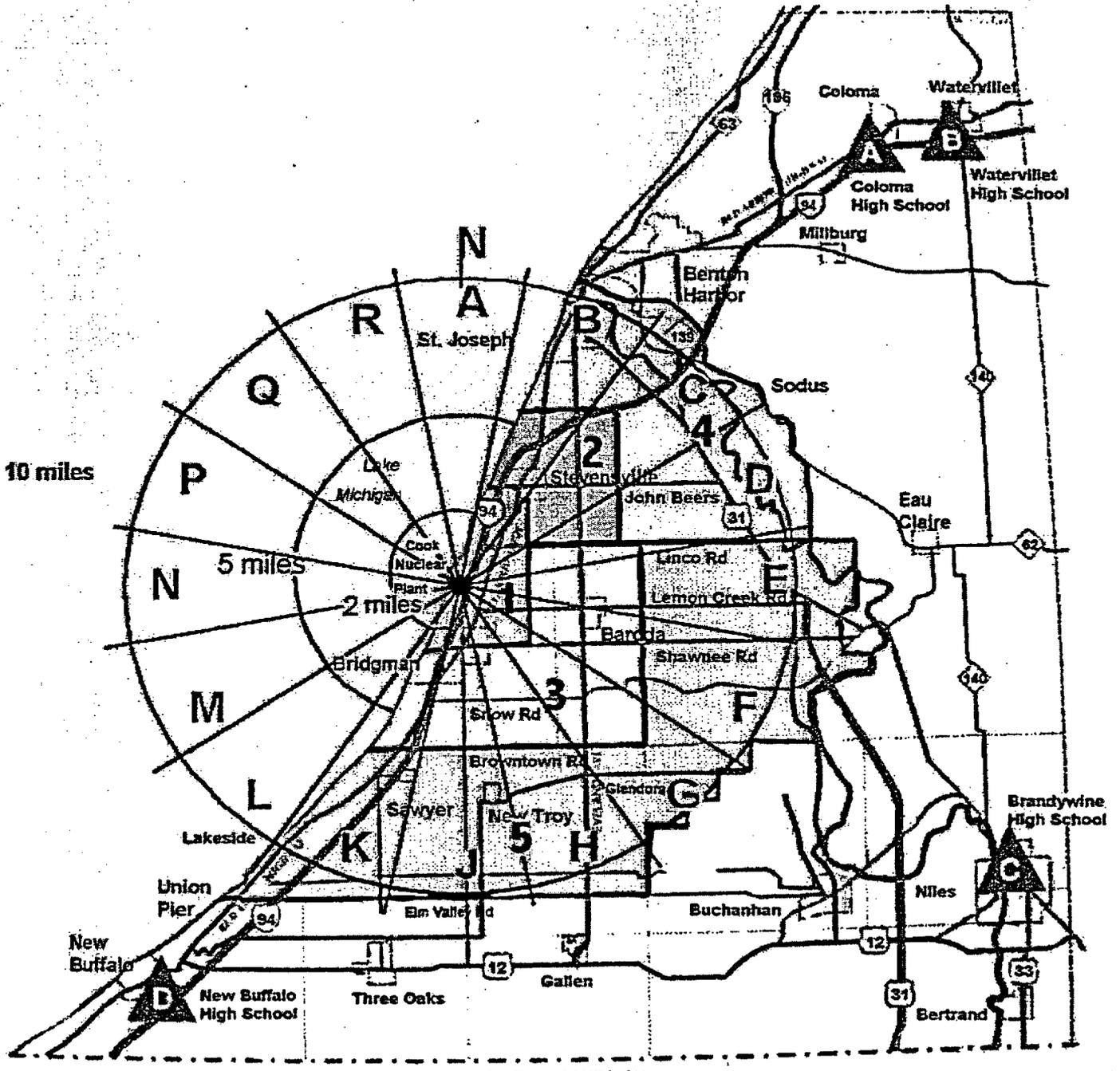
- a. Michigan Emergency Preparedness Plan
- b. NRC Regulatory Issue Summary, RIS-2002-21



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

- Determine affected areas as follows:
- Direction wind is blowing from (in Degrees) _____
 - Using diagram above, locate sector opposite direction identified in A _____
 - Downwind sectors (sector identified in B plus 2 adjacent sectors) _____
 - Convert downwind sectors to areas using the Sectors to Areas table.
 - PAR is: Evacuate areas _____ (from D)

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Data Sheet 1	Technical Information Sheet		Pages: 12 - 13

Unit No: _____ Date: _____ Time: _____

Data Taken By: _____ Data Reviewed By: _____

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

- | | | | |
|---------------------------------------|-----------------|---|--------------------|
| 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. Containment High Range Radiation Level | _____ / _____ R/HR |
| | | Upper/Lower | |
| 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 |
| 13. Accum Pressure | LP1 _____ PSIG | LP2 _____ PSIG | LP3 _____ PSIG |
| 14. RHR Injection Flow | East _____ GPM | West _____ GPM | LP4 _____ GPM |
| 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 |

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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 10 ⁶)	_____	_____	_____	_____
34. Feed Flow (pph x 10 ⁶)	_____	_____	_____	_____
35. Aux. Feed Flow (pph x 10 ³)	_____	_____	_____	_____
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	_____	/	_____		

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Data Sheet 2	Emergency Turnover Checklist		Pages: 14 - 17

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: _____

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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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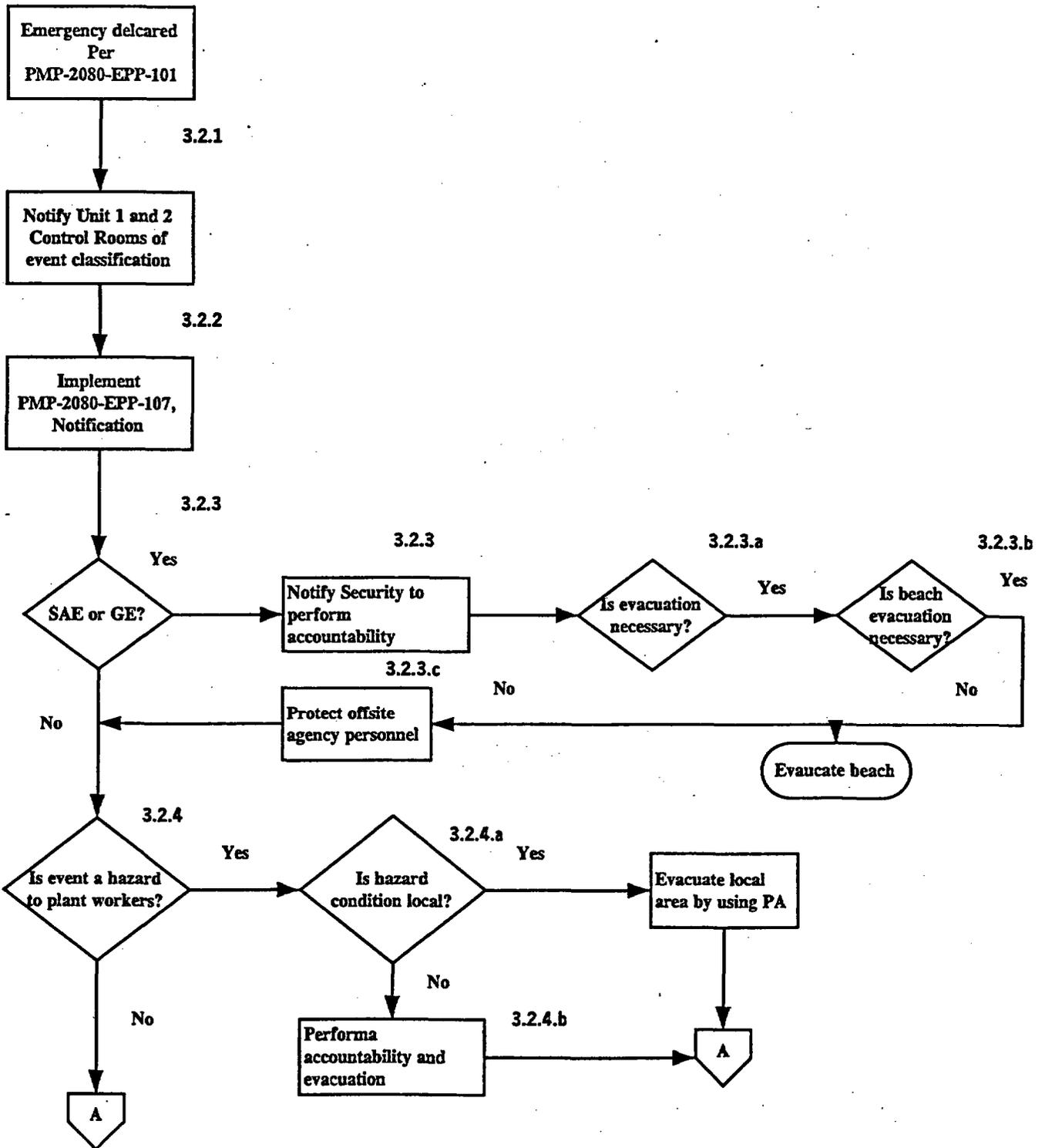
b. Potential for Offsite Release of Radioactivity

_____ Airborne _____ Water

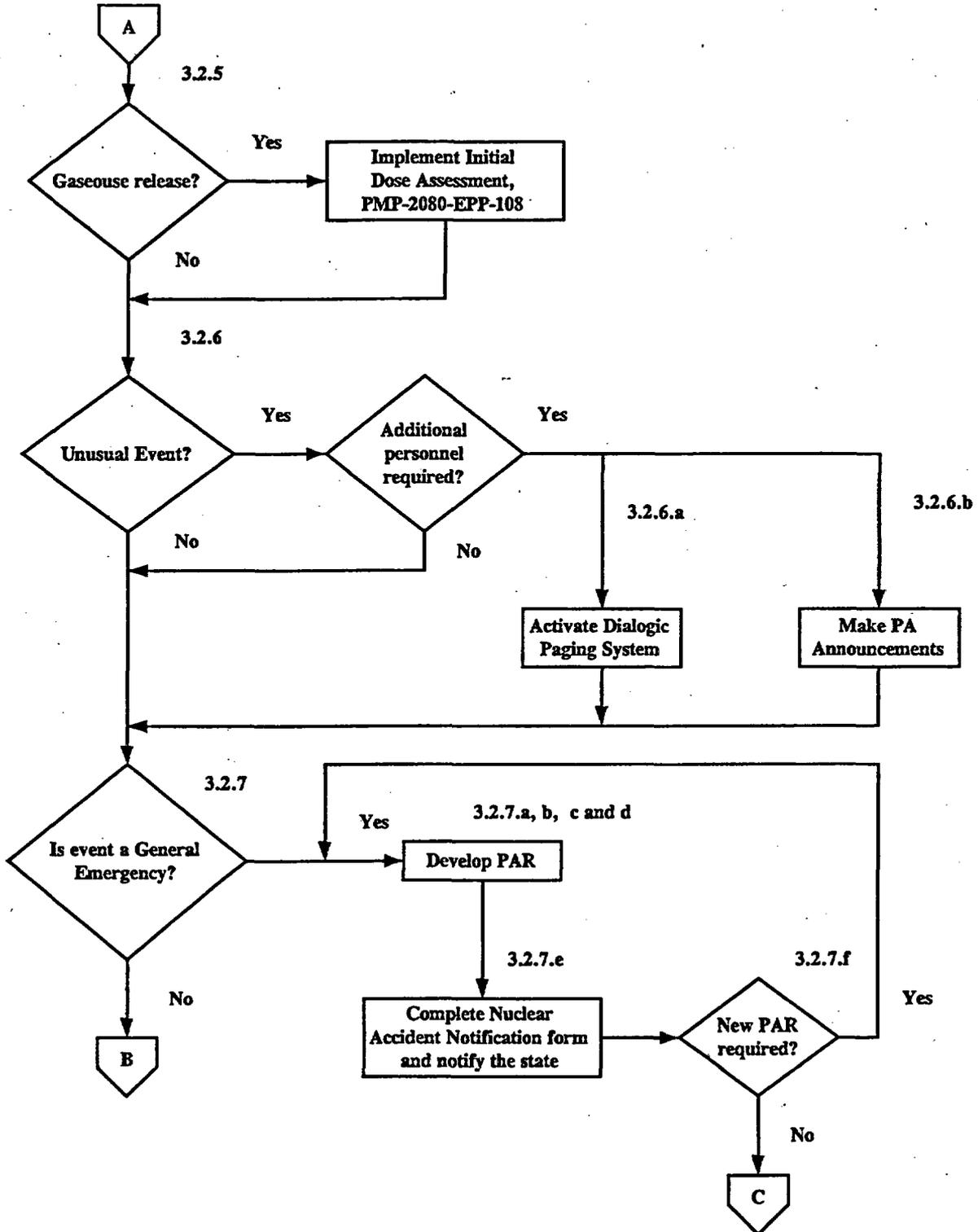
7. Injured or Contaminated Personnel:

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

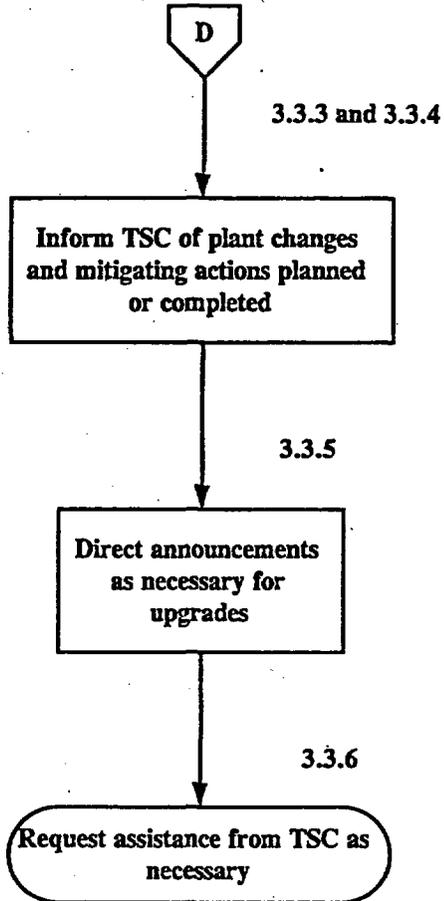
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<input type="checkbox"/> Correction (Page Substitution)	<input type="checkbox"/> Change (Page Substitution) with Review of Change Only		
<input type="checkbox"/> Cancellation	<input type="checkbox"/> New Procedure or Change with Full Review		
<input type="checkbox"/> Superseded (list superseding procedures): _____			
Associated Configuration Impact Assessments:			
Change Driver/CDI Tracking No(s): _____			<input checked="" type="checkbox"/> N/A
Required Reviews:			
Cross-Discipline Reviews:		Programmatic Reviews:	
<input type="checkbox"/> Chemistry	<input type="checkbox"/> Training	<input type="checkbox"/> ALARA	<input type="checkbox"/> Reactivity Mgmt Team
<input type="checkbox"/> Maintenance	<input type="checkbox"/> Work Control	<input type="checkbox"/> Component Engineering	<input type="checkbox"/> SPS (Safety & Health)
<input type="checkbox"/> NDM	_____	<input type="checkbox"/> Design Engineering	<input type="checkbox"/> Surveillance Section
<input checked="" type="checkbox"/> Operations	_____	<input type="checkbox"/> Emerg Oper Proc Grp	<input type="checkbox"/> System Engineering
<input type="checkbox"/> PA/PV	_____	<input type="checkbox"/> Environmental	<input type="checkbox"/> SOMS Administrator
<input type="checkbox"/> Reg Affairs	_____	<input type="checkbox"/> ISI/IST Coordinator	_____
<input type="checkbox"/> RP	<input type="checkbox"/> None Required	<input type="checkbox"/> Performance Assurance	<input checked="" type="checkbox"/> None Required
<input checked="" type="checkbox"/> Cognizant Org Review: _____		Date: 8/27/03	
<input checked="" type="checkbox"/> Technical Review: _____		Date: 8/25/03	
Concurrence:			
<input type="checkbox"/> Ops Director Concurrence: _____		Date: ___/___/___	
Package Check:			
Updated Revision Summary attached?		<input checked="" type="checkbox"/> Yes	
10 CFR 50.59 Requirements complete?		Tracking No.: 2003-1025-00 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Implementation Plan developed? (Ref. Step 3.4.17)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
Package Complete: _____		Date: 9/18/03	
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: _____		Mtg. No.: 4035 ^{SW} CR No.: N/A	
Expiration Date/Ending Activity: N/A		Date: 9/18/03	
		Effective Date: 9/18/03	
Periodic Review:			
Periodic Review conducted?		(Data Sheet 5 Complete) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Follow-up Actions:			
Commitment Database update requested in accordance with PMP-7100-CMP-001?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
NDM notified of new records or changes to records that could affect record retention?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	

NDM Use Only CONTROLLED DOCUMENT	NUCLEAR DOCUMENT MANAGEMENT SECTION SEP 18 2003	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. 10a, Data Sheet 1, Review and Approval Tracking Form.			Page <u>1</u> of <u>2</u>

REVISION SUMMARY

Number: PMP-2080-EPP-100 Revision: 2 Change: 0
Title: Emergency Response

Section or Step	Change/Reason For Change
3.2.3	<p>Change: Add Note IF accountability and /or evacuation is (are) required at classifications other than a Site Area Emergency or General Emergency, THEN Accountability is performed only ONE time for the event in progress.</p> <p>Reason: Address personnel accountability and evacuation from site when Site Area Emergency or General Emergency do not exist.</p>
3.2.4	<p>Change: Add Note IF accountability and /or evacuation is (are) required at classifications other than a Site Area Emergency or General Emergency, THEN PA announcements may be made using the guidance in step 3.2.3. of PMP-2080-EPP-107, Notification. The announcement may be modified as necessary to fit existing plant and ERO status.</p> <p>Reason: CR 03099018 action 2 to address personnel accountability and evacuation from site when Site Area Emergency or General Emergency do not exist.</p>
Step 3.2.6	<p>Change: Add "or 1119" to the SAS phone extension parenthetical remark.</p> <p>Reason: Identify alternate telephone extension available for use.</p>
NOTE prior to Step 3.2.7	<p>Change: Add NOTE prior to step to caution the user not to change Protective Action Recommendation such that protection is reduced for Areas previously addressed in previous PARs</p> <p>Reason: CRA03178012-01; recommendation from OE/RIS to prevent modifying PARs for areas affected by previously-issued PARs.</p>

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. 10a.

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Reference			Effective Date: 9/18/03
<u>D. A. Schroeder</u> Writer	<u>S. M. Partin</u> Owner	<u>Site Protective Services</u> Cognizant Organization	

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Emergency Response

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

Term	Meaning
AOP	Abnormal Operating Procedure
BCSD	Berrien County Sheriff Department
DAP	Dose Assessment Program
EMD-32	Nuclear Plant Accident Notification form
ENC	Emergency News Center
EOF	Emergency Operations Facility
EOP	Emergency Operating Procedure
ERDS	Emergency Response Data System
ERO	Emergency Response Organization
GE	General Emergency
JPIC	Joint Public Information Center
MSP	Michigan State Police
OSC	Operations Support Center
PAR	Protective Action Recommendation
PPC	Plant Process Computer
SAE	Site Area Emergency

SAS	Secondary Alarm Station
SEC	Site Emergency Coordinator
SM	Shift Manager
TSC	Technical Support Center
UE	Unusual Event

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 SM 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 PAR to offsite emergency management agencies.
- 3.1.4 Declaration of an emergency requires the notification of the BCSD and MSP 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 GE requires that a PAR be made to the state. The PAR should be made immediately after the notification of a GE (i.e., during the same phone call).

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Emergency Response			

3.1.6 The 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 OSC, TSC, and the 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 SM has assumed the position of SEC.

3.2.2 Implement or direct the implementation of PMP-2080-EPP-107, Notification.

NOTE: IF accountability and/or evacuation is (are) required at classifications other than a Site Area Emergency or General Emergency, THEN accountability is performed only ONE time for the event in progress.

3.2.3 IF a SAE or GE 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 direct an announcement to be made to evacuate the beach.
- c. IF offsite agency personnel (e.g., National Guard, MSP, etc.) are stationed in the owner-controlled area, THEN determine if these personnel should be evacuated or if they will remain onsite.
 - Take appropriate action (e.g., evacuate, shelter, relocate onsite, issue dosimetry, etc.) as necessary to protect the offsite agency personnel.

Emergency Response

NOTE: IF accountability and/or evacuation is (are) required at classifications other than a Site Area Emergency or General Emergency, THEN PA announcements may be made using the guidance in Step 3.2.3 of PMP-2080-EPP-107, Notification. The announcement may be modified as necessary to fit existing plant and ERO status.

- 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 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 SAS (x1118 or 1119) and direct security to implement the Dialogic Emergency Response Notification System for an EMERGENCY.

Emergency Response

- 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. 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
 - Repeat the above announcement twice

NOTE: DO NOT revise protective actions such that protection is reduced for areas already addressed in previously issued PARs. For example, if *evacuation* was recommended for Area 1 in a previous PAR, do not revise this recommendation to *sheltering* in Area 1 in any subsequent PAR.

3.2.7 IF a GE 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.

Emergency Response

- b. Obtain the following data:
 - Wind direction
 - AND -
 - Offsite dose projection (if available) as calculated using DAP or actual offsite dose rate measurements.
 - c. Using Attachment 1, PAR Flowchart and Map, determine the appropriate PAR.
 - d. Include any deviations from the PAR flowchart, Attachment 1, based on step 3.2.7.a in the protective action recommendation that is provided to the state.
 - e. Enter the PAR on the EMD-32 form, Nuclear Plant Accident Notification, obtained from the Emergency Kit and notify the State of Michigan of the recommendation within 15 minutes, in accordance with PMP-2080-EPP-107, Notification.
 - 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 ERO.
- 3.2.8 Perform mitigating actions in accordance with appropriate plant procedures.
- 3.2.9 **IF** the 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).

Emergency Response

3.2.11 Determine if special directions to the Security Staff are required (e.g., security event, radiation release, etc.) in order to control incoming ERO and/or non-ERO plant staff.

- Provide directions as necessary to control incoming personnel.

3.2.12 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 SM After Being Relieved of SEC Duties

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

- Notify the Control Rooms that the SM 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 Direct plant announcements and sounding of the Nuclear Emergency Alarm, if required, for any change in classification made by the TSC or EOF.

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

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

Reference	PMP-2080-EPP-100	Rev. 2	Page 9 of 21
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- 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

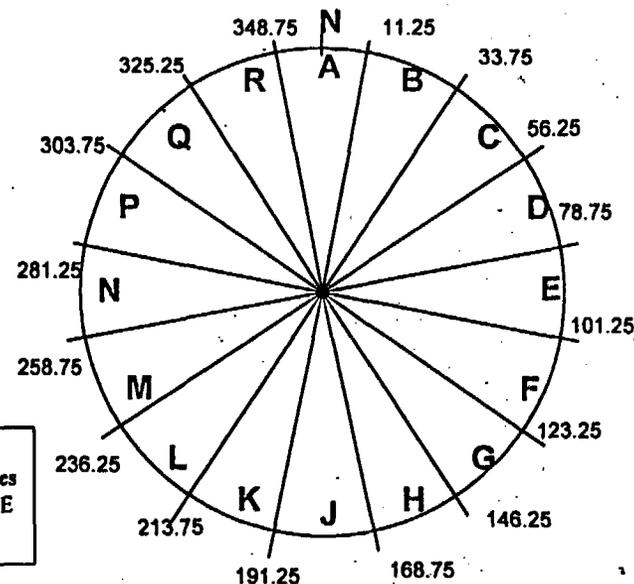
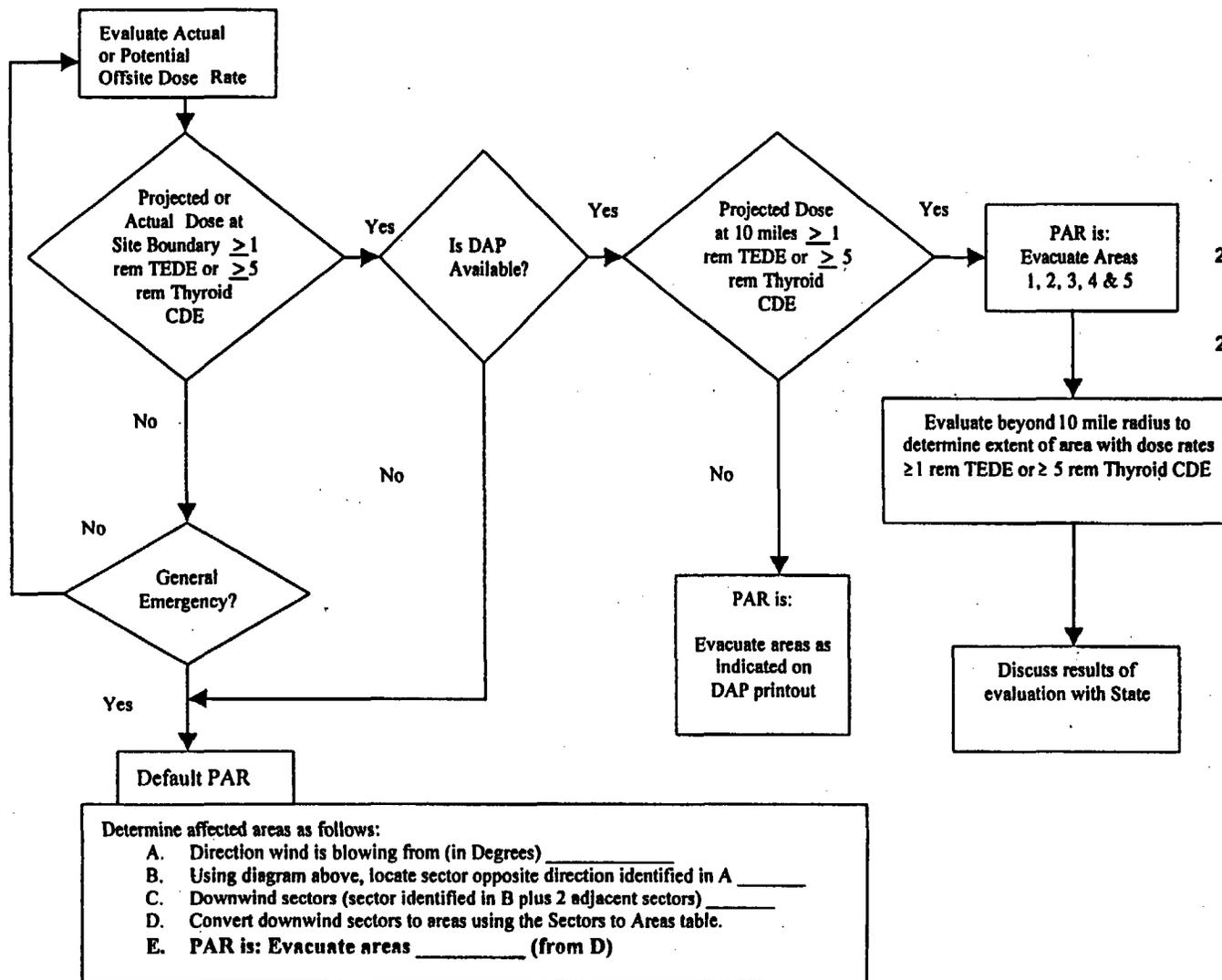
5.2.2 General References

- a. Michigan Emergency Preparedness Plan
- b. NRC Regulatory Issue Summary, RIS-2002-21

Emergency Response

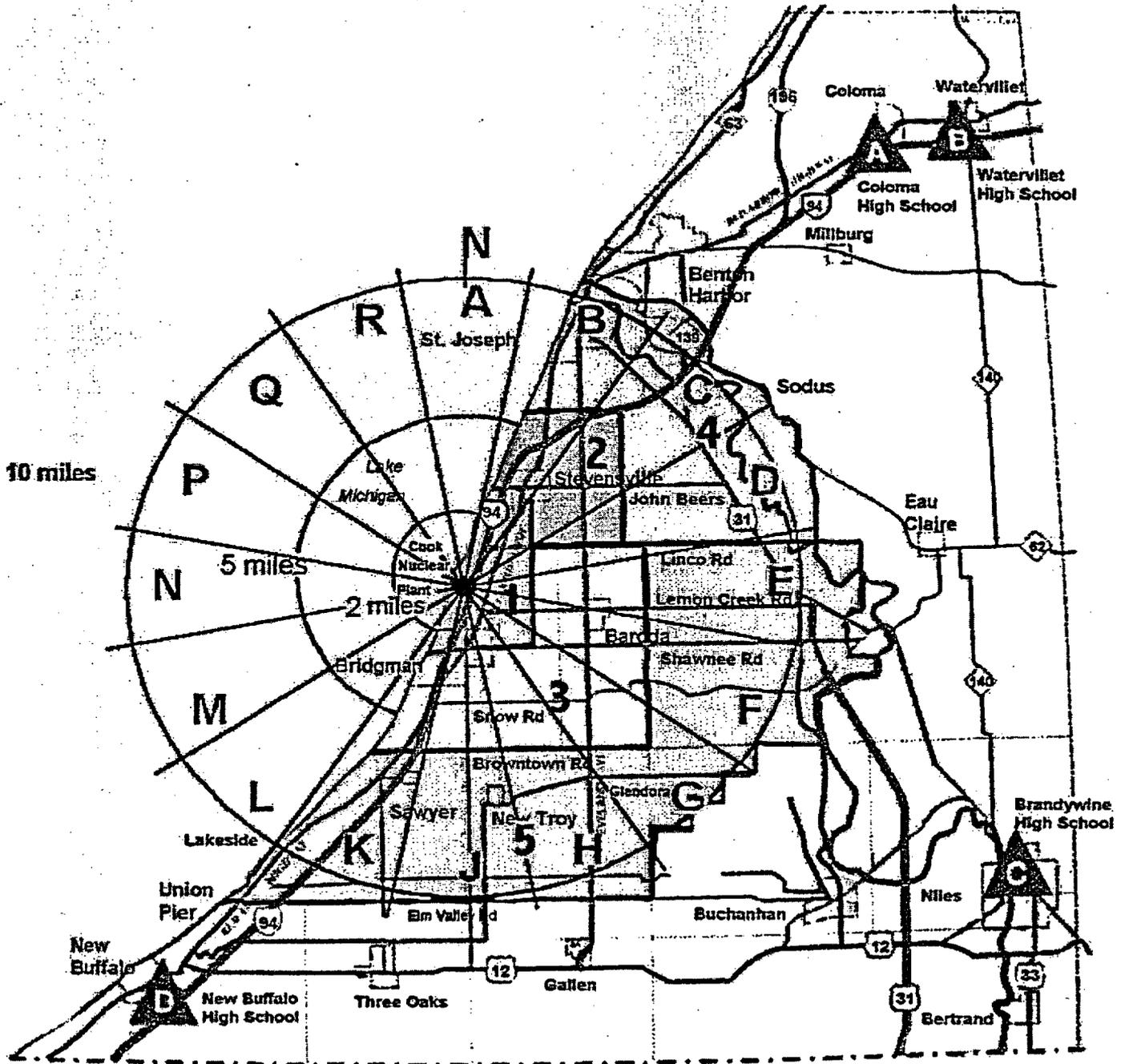
Attachment 1

PAR Flowchart and Map

Pages:
10 - 11

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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Attachment 1	PAR Flowchart and Map		Pages: 10 - 11



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Emergency Response			
Data Sheet 1	Technical Information Sheet		Pages: 12 - 13

Unit No: _____ Date: _____ Time: _____

Data Taken By: _____ Data Reviewed By: _____

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

- | | |
|--|--|
| <p>1. Containment Temp. _____ °F</p> <p>2. Cont. H₂ Concentration _____ %</p> <p>3. RWST Level _____ %</p> <p>4. Source Range _____ CPM</p> | <p>5. Intermediate Range _____ AMPS</p> <p>6. Containment Pressure _____ PSIG</p> <p>7. Containment Sump Level _____ %</p> <p>8. Containment Level _____ %</p> <p>9. Containment High Range Radiation Level
Upper/Lower _____ / _____ R/HR</p> |
| <p>9. CTS Pumps East ON / OFF</p> <p>10. RHR Spray Flow East _____ GPM</p> <p>11. SI Flow North _____ GPM</p> <p>12. BIT Flow LP1 _____ GPM LP2 _____ GPM</p> <p>13. Accum Pressure LP1 _____ PSIG LP2 _____ PSIG</p> <p>14. RHR Injection Flow East _____ GPM</p> <p>15. RCP Status LP1 ON / OFF LP2 ON / OFF</p> | <p>West ON / OFF</p> <p>West _____ GPM</p> <p>South _____ GPM</p> <p>LP3 _____ GPM LP4 _____ GPM</p> <p>LP3 _____ PSIG LP4 _____ PSIG</p> <p>West _____ GPM</p> <p>LP3 ON / OFF LP4 ON / OFF</p> |
| <p>16. RCS Pressure _____ PSIG</p> <p>17. Charging Flow _____ GPM</p> <p>18. PZR Liquid Temp. _____ °F</p> <p>19. PZR Steam Temp. _____ °F</p> <p>20. PZR Level _____ %</p> <p>21. PRT Temp. _____ °F</p> | <p>22. PRT Level _____ %</p> <p>23. PRT Pressure _____ PSIG</p> <p>24. PZR Cycling Htrs ON / OFF</p> <p>25. PZR Backup Htrs ON / OFF</p> <p>26. Letdown Flow _____ GPM</p> <p>27. Saturation Margin _____ °F</p> |

Reference	PMP-2080-EPP-100	Rev. 2	Page 13 of 21
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Data Sheet 1	Technical Information Sheet		Pages: 12 - 13

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 10 ⁶)	_____	_____	_____	_____
34. Feed Flow (pph x 10 ⁶)	_____	_____	_____	_____
35. Aux. Feed Flow (pph x 10 ³)	_____	_____	_____	_____
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	_____	/	_____		

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Data Sheet 2	Emergency Turnover Checklist		Pages: 14 - 17

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: _____

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Data Sheet 2	Emergency Turnover Checklist		Pages: 14 - 17

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: 14 - 17

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: 14 - 17

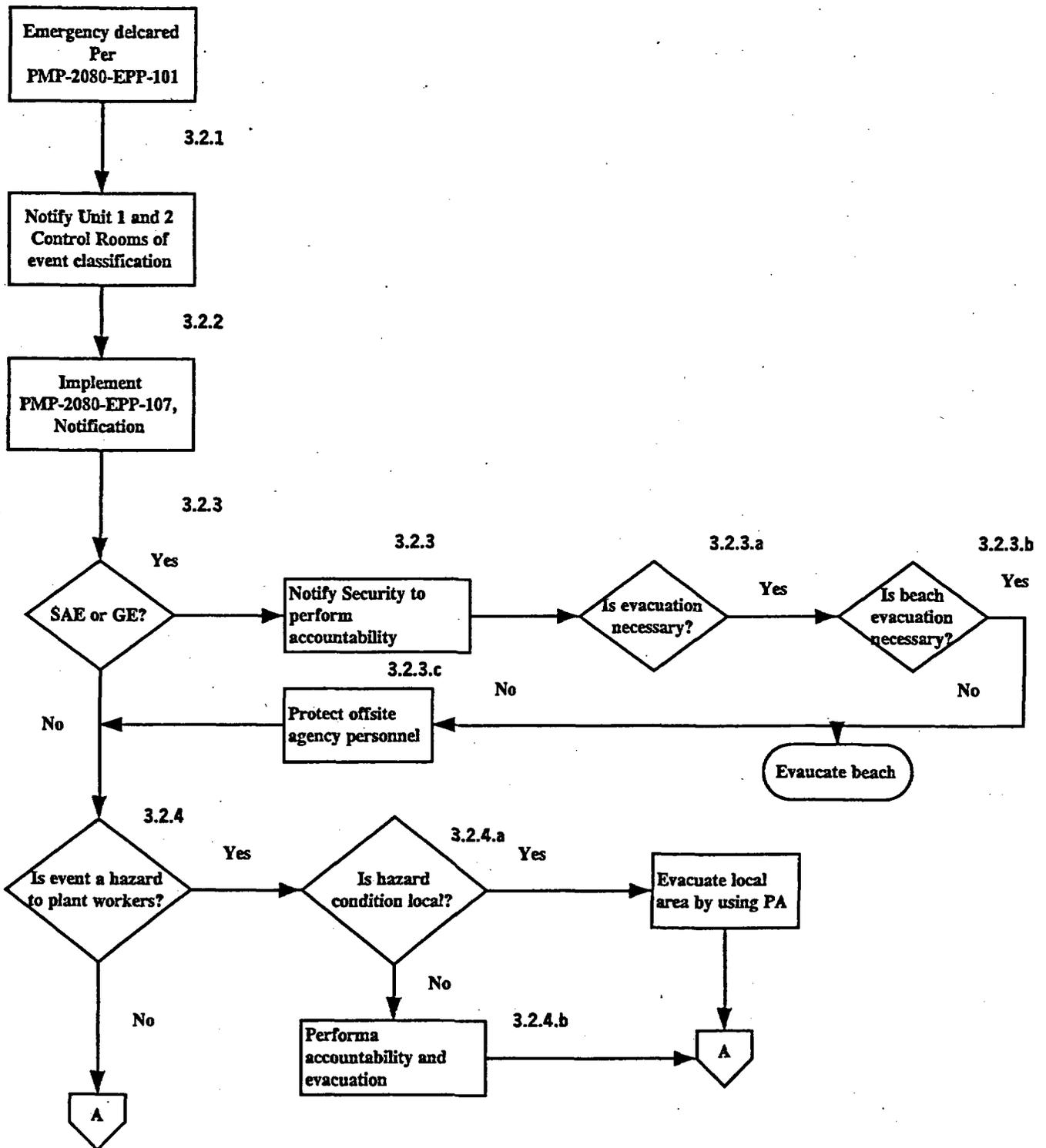
b. Potential for Offsite Release of Radioactivity

_____ Airborne _____ Water

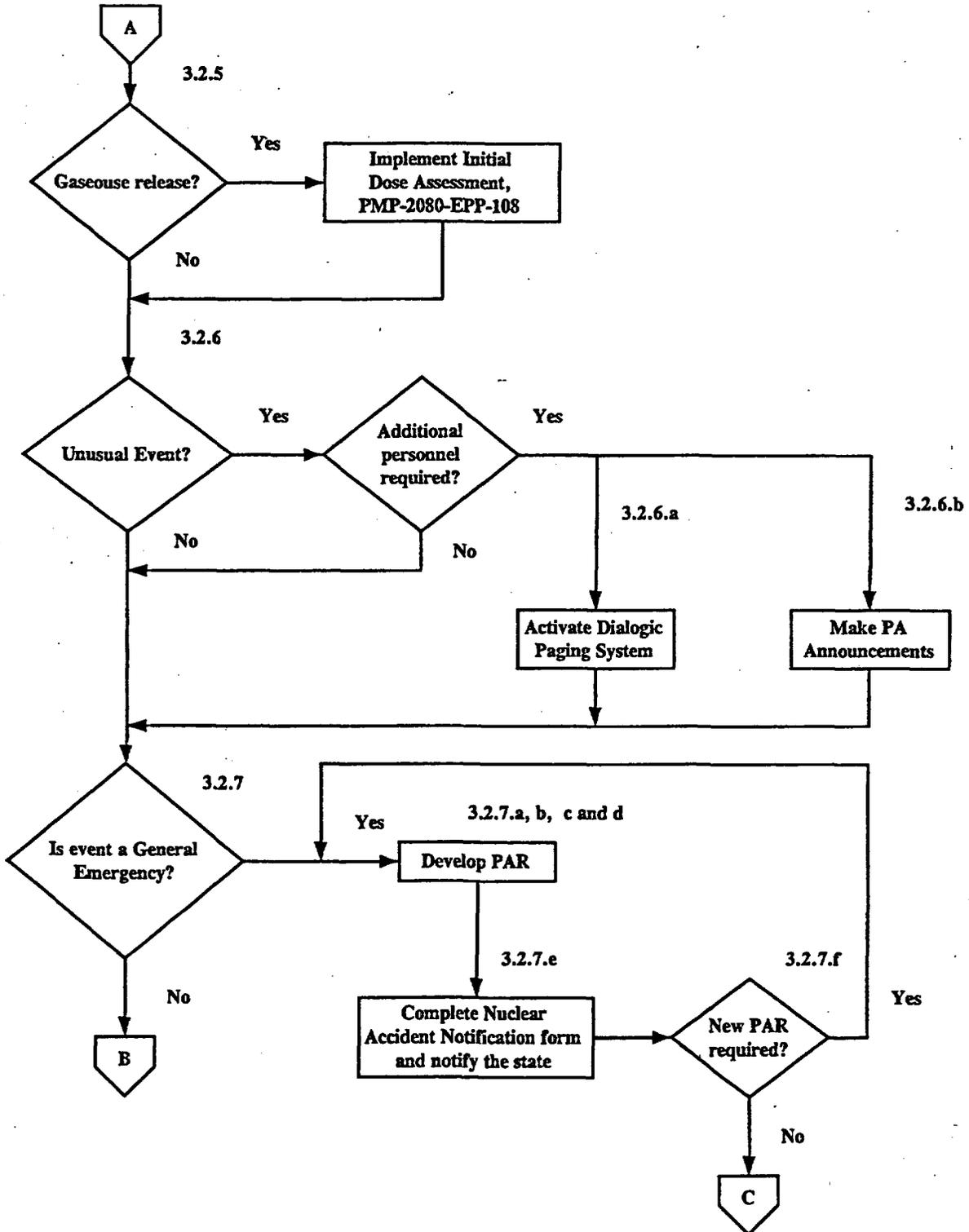
7. Injured or Contaminated Personnel:

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

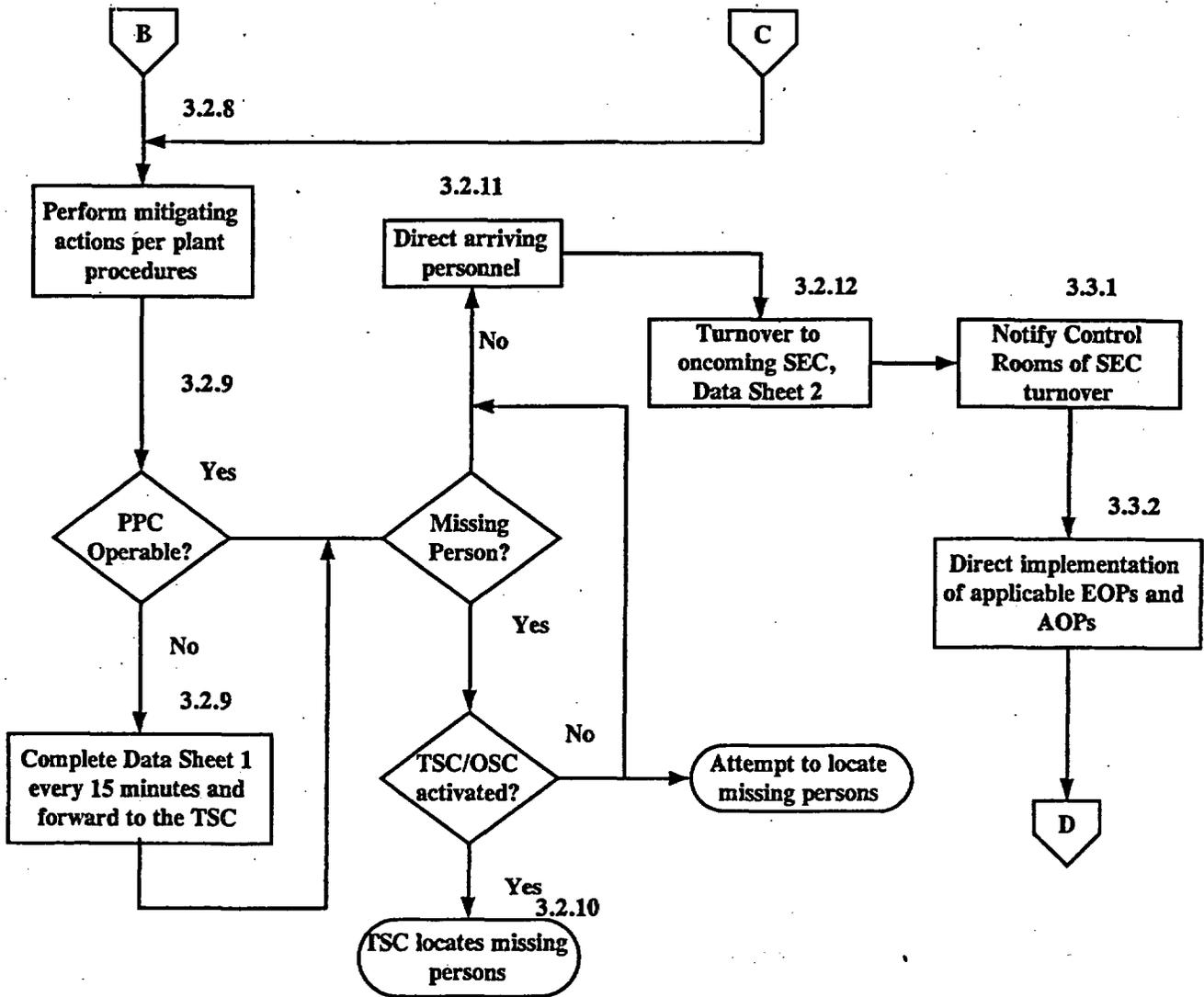
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Figure 1	Procedure Flowchart		Pages: 18 - 21



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