

PLANNING STANDARD J

PROTECTIVE RESPONSE

J. PROTECTIVE RESPONSE

J.1. Owner Controlled Area Warning and Advisement

Since the PA system within the plant is extensive, an announcement of the nature of the emergency can be made to most personnel immediately.

Upon sounding of the Nuclear Emergency Alarm personnel in the outlying areas of the plant site are notified using the methods described in section E.2.a of this plan.

J.1.a. Non ERO Employees

Plant employees without ERO duties and personnel temporarily assigned to the plant for training or other purposes, are required to know the location and routes to the assembly areas and be familiar with the emergency alarm procedure. Personnel already onsite immediately proceed to their appropriate assembly area upon sounding of the Nuclear Emergency Alarm.

J.1.b. Visitors

Groups on tour are escorted to an assembly area by their tour guide, should the Nuclear Emergency Alarm be sounded. Personnel already onsite immediately proceed to their appropriate assembly area upon sounding of the Nuclear Emergency Alarm.

J.1.c. Contractors and Construction

Contractors, supervisors, and/or foremen (i.e., outside labor) are provided with instructions, prior to beginning work as to the emergency alarm procedure and as to their responsibility for assembling the people under their supervision in the area designated by the SEC or designated alternate. Personnel already onsite immediately proceed to their appropriate assembly area upon sounding of the Nuclear Emergency Alarm.

J.1.d Others

The decision to commence evacuation of the Cook Energy Information Center is made by the SEC on the basis of the evaluation of the condition of the plant and the extent of the emergency.

The Manager of the Cook Energy Information Center or designee is responsible for the accountability of all Energy Information Center employees and all visitors of the Center should the Nuclear Emergency Alarm be sounded.

When State Police and National Guard are assigned to the plant their disposition will be determined by the nature of the emergency. If the plant is under attack the MSP and National Guard are considered essential personnel and become Emergency Workers for the event. If the emergency does not involve attack of the plant the MSP and National Guard are considered non-essential personnel and evacuated from site upon evacuation of non-essential personnel.

J.2. Evacuation Routes

If the SEC deems evacuation of personnel from the plant site necessary, the evacuation route to be taken is determined by the nature of the incident. Personnel evacuate the plant and site as directed by the SEC. Evacuation of individuals shall not commence until it is determined that personnel exposure for such evacuation is within the limits of 10 CFR Part 20, or if this is not practical due to the nature of the emergency, the most expeditious and non-hazardous evacuation route shall be used.

The SEC designates the evacuation route. One of the below designated routes is utilized (see Figure 13)

1. East along the plant main access road.
2. North along the Lake Michigan Beach to the plant property line or Rosemary Road.
3. South along the Lake Michigan Beach to Livingston Road.

The Security Director (or alternate) is responsible for the accountability of evacuated personnel from the plant site and reports any missing persons to the SEC.

J.3. Evacuee Monitoring

If evacuation is initiated a personnel monitoring station is established for those evacuated by a person trained in radiation protection. The Radiation Protection Plan specifies the acceptable limits for contamination to the body and clothing for exiting the plant. Suitable equipment intended for such personnel monitoring stations will be stored in both the OSC and the Training Center.

Other equipment is available from the Radiation Protection Access Control (RPAC), if access to that area is feasible.

J.4. Evacuee Decontamination

If any of the evacuated personnel are contaminated, the OSC Manager will institute the necessary steps for movement of these personnel to decontamination facilities and initiate surveys of the surrounding areas.

J.5. Personnel Accountability

Control of all personnel entering, leaving and at various locations throughout the plant is a function of the plant security force. The accountability of all personnel in the protected area of the plant is maintained via the security computer system. The security computer records provide the primary means of assuring the accountability of all persons of the site. Use of this computer will enable the accountability to be performed rapidly with a stated goal of achieving completion of personnel accountability within 30 minutes.

Once the Nuclear Emergency Alarm has been sounded all personnel onsite shall report to their pre-assigned assembly areas. The SEC will notify personnel via the PA system of any changes in the areas to be used due to the release or expected release of radiological effluents from the plant.

Personnel reporting to their assembly area onsite will be accounted for using the plant security access list and security computer. This list provides an up-to-date listing of all personnel onsite by area location. The results of the accountability process will be transmitted to the individual in charge of personnel accountability.

If personnel are unaccounted for, the security computer will be queried to determine the individuals last known location. The individual(s) will be paged on the PA system, the individual's supervisor will be notified and if required, the SEC will initiate search and rescue operations.

J.6 Protective Measures for Those Remaining, or Reporting to the Site

Personnel remaining onsite after the sounding of the Nuclear Emergency Alarm will be required to assemble in an area that is free from ionizing radiation and contamination, or presents the minimum exposure to personnel engaged in emergency operations. Surveys of the assembly area(s) will be conducted to ensure continued habitability.

Personnel remaining onsite who are engaged in emergency operations where there is an actual or potential radiological hazard, shall upon the direction of the RP Director, wear the required protective clothing and respiratory protection. The RP Department shall perform the required surveys and establish the type and quantity of clothing, and other protective measures required.

The Plant Security Force will control access to the Owner Controlled Area at the I-94 Gatehouse as directed by the SEC.

Personnel arriving at the plant to assist in the emergency will be allowed access to the plant via minimal exposure routes as identified by the Plant RP Department and approved by the SEC. The RP Department will establish a Controlled Area Access Point for personnel arriving at (and departing from) the plant from offsite if the access route exceeds the criteria for "Clean Areas" as identified in the Radiation Protection Plan. The amount of exposure personnel receive in reporting to the plant will be included in the individual's dose records.

Additionally, other precautions, such as decontamination, will be taken as necessary prior to entering the plant and reporting to the assigned assembly area. Equipment decontamination and controls are described in detail in the Radiation Protection Plan.

J.6.a. Respiratory Protection

The Radiation Protection Plan and Radiation Protection Procedures identify the instructions and requirements pertaining to respiratory protection requirements and respiratory protection equipment usage.

J.6.b. Protective Clothing

The Radiation Protection Plan and Radiation Protection Procedures identify the instructions and requirements pertaining to protective clothing requirements and protective clothing usage.

J.6.c. Radioprotective Drugs

The procedures and precautions for the issuance and use of thyroid prophylaxis, e.g., individual thyroid protection, by emergency workers will be based on existing conditions. The provisions for stockpiling, inventory, storage and use are included in Emergency Plan Procedures. However, since the medical aftereffects of the agent cannot be determined, wholesale (wide) distribution cannot be incorporated as a responsible protective measure for personnel onsite.

J.7 Off-site Protective Actions

For incidents that fall under the ECLs as defined herein, the SEC or ED will notify the Michigan State Police, the Berrien County Sheriff's Department, the NRC, and the AEP Emergency Response Organization described in this plan that such an incident has occurred.

It is the responsibility of the Governor of Michigan, or authorized representative, to issue Protective Action Orders (PAOs) such as sheltering, evacuation, administration of thyroid blocking agents, etc. These decisions are based upon the protective action guides in Annex S of the Michigan Emergency Management Plan (MEMP). Since copies of the MEMP are maintained

and readily available at the various Emergency Response Facilities, the protective action guides and their bases will not be reproduced here.

For incidents involving actual or imminent releases of radioactive material to the atmosphere the control room or EOF protective action recommendation procedures, as appropriate, will be used as the basis for recommendations for protective actions to the public. These procedures are based on the current issue of the "Manual for Protective Action Guides and Protection Action for Nuclear Incidents" (EPA 400-R-92-001). The EPA Guide provides Protective Action Guides (PAGs) for whole body external gamma radiation and for inhalation of radioactive material in an airborne plume.

The most effective actions to be recommended to the public are evacuation, sheltering, and access control. Evacuation potentially provides the greatest margin of protection. On the other hand, because sheltering may be implemented in less time than evacuation, it may be the protective action of choice if rapid evacuation is impeded for any reason. Also, since sheltering is less disruptive than evacuation, it may be the protective action of choice when the dose reduction factor associated with shelter is adequate to reduce the projected dose to less than PAG levels. Access control is an effective action to avoid exposure of personnel who might otherwise enter areas of high exposure unnecessarily.

Emergency Plan Procedures have been established to provide the mechanism and criteria for recommending protective actions to state and local government.

Additionally the protective action guides for emergency workers and those engaged in lifesaving activities exposed to airborne radioactive materials are listed in Section K.1., Emergency Exposure, and in the Plant Radiation Protection Plan.

J.8. Evacuation Times

Evacuation time estimates and informational county maps are contained in the Berrien County Emergency Operations Plan submitted to the Nuclear Regulatory Commission (NRC).

J.9. Not Applicable

J.10 Plume Exposure Pathway Protective Measures Implementation

J.10.a. Route and Facility Location Maps

Maps for the 10 and 50 mile EPZ, developed by the Michigan State Police are provided for use at the following locations:

Control Rooms	TSC
EOF	OSC
ENC/JPIC	Berrien County EOC
Cook Energy Information Center	

These maps show information such as sector designations, emergency center locations topographical information, and when used in conjunction with Berrien County plan indicates preferred evacuation routes.

J.10.b. Population Distribution Maps

Evacuation time estimates and informational county maps are contained in the Berrien County Emergency Operations Plan submitted to the Nuclear Regulatory Commission (NRC).

J.10.c. Population notification

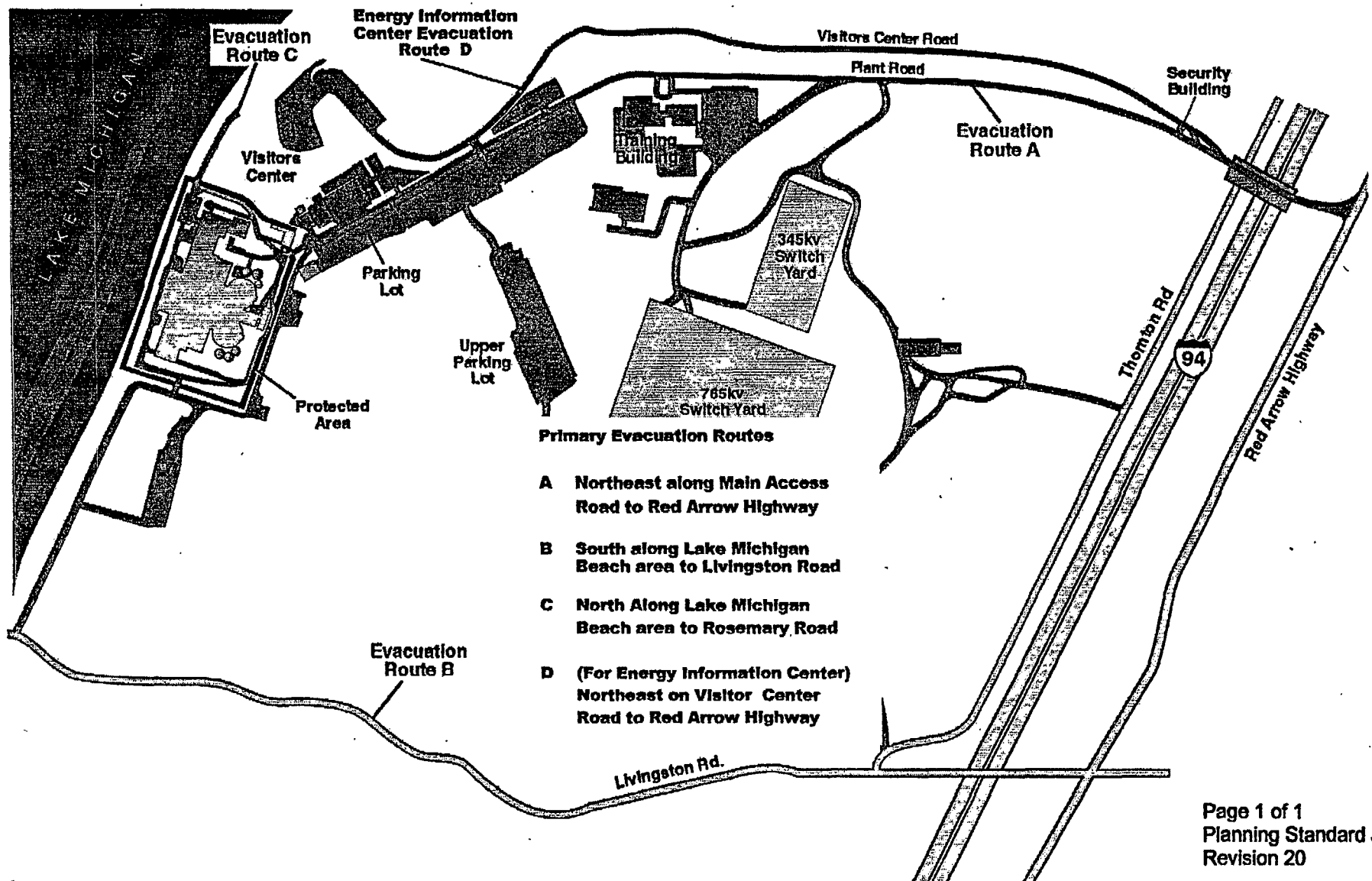
The Berrien County Plan includes provisions for alerting local radio and television stations and, local news media to be prepared to transmit Emergency Public Information. Section E.6 addresses Public Notification

J.10.d. Protective Action Basis

The Dose Assessment Program and off-site survey team results, as well as plant system and equipment status, are the basis for Protective Action Recommendations. DAP and off-site surveys are addressed in sections I.4 and I.5.

Figure 13

Cook Nuclear Plant Primary Evacuation Routes



REVIEW AND APPROVAL TRACKING FORM

Section 1 - Procedure Information:	
Number: <u>PMP-2080-EPP-100</u>	Rev. <u>5</u>
Title: <u>Emergency Response</u>	
Section 2 - Alteration Category:	
<input checked="" type="checkbox"/> Minor Editorial Correction	<input type="checkbox"/> Cancellation
<input type="checkbox"/> Major Editorial Correction (Full Review)	<input type="checkbox"/> Superseded by (list superseding procedures):
<input type="checkbox"/> Minor Revision	
<input type="checkbox"/> Major Revision (Full Review)	<input type="checkbox"/> New Procedure (Full Review)
Section 3 - Temporary Procedure / Revision:	
<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Temporary Procedure <input type="checkbox"/> Temporary Revision	AR No.: _____
Expiration Date / Ending Activity: _____	
Section 4 - Associated Configuration Impact Assessments:	
Change Driver / CDI Tracking No(s). _____ <input checked="" type="checkbox"/> N/A	
Section 5 - Reviews:	
Department	Validation (Figure 11)
SPS/Emergency Preparedness	Cross-Discipline (Figure 7)
	Special (Figure 8 or Figure 10)
	Technical (Figure 9)
	<input checked="" type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>
Section 6 - Technical Review:	
Updated Revision Summary and Implementation Plan (if applicable) attached? <input checked="" type="checkbox"/> Yes	
Implementation Plan developed? If yes, AR No.: _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Are there implementation actions to be completed prior to the effective date?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10 CFR 50.59 Requirements complete? Tracking No.: _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Technical Reviewer: <u>Roger Anderson</u>	Date: <u>6/22/05</u>
Section 7 - Ready for Approval:	
Administrative Hold Status: <input type="checkbox"/> Released <input type="checkbox"/> Reissued <input checked="" type="checkbox"/> N/A	CR No.: _____
Writer: <u>Cindy Kraffert</u>	Date: <u>6/17/05</u>
<input type="checkbox"/> Ops Manager Concurrence: <u>N/A</u>	Date: _____
Section 8 - Approvals:	
PORC Review Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Mtg No.: <u>N/A</u>
Approval Authority Review/Approval: <u>[Signature]</u>	Date: <u>6/24/05</u>
	Effective Date: <u>6/30/05</u>
Section 9 - Follow-up Actions:	
Commitment Database update requested in accordance with PMP-2350-CMS-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		Office Information For Form Tracking Only - Not Part of Form
		<p>This form is derived from the information in PMP-2010-PRC-002, Procedure Alteration, Review, and Approval, Rev. 16, Data Sheet 1, Review and Approval Tracking Form.</p> <p style="text-align: right;">Page <u>1</u> of <u>2</u></p>

REVISION SUMMARY

Number: PMP-2080-EPP-100 Revision: 5
Title: Emergency Response

Alteration	Justification
Page 9, PAR Flowchart under Default PAR; revised the phrase "Determine affected areas as follows using the chart on page 9" to "Determine affected areas as follows using the chart on the following page".	Typographical correction that also allows for easier future procedure revisions within this Visio drawing. CR-05115035

Office Information For Form Tracking Only – Not Part of Form

This is a free-form as called out in PMP-2010-PRC-002, Procedure Alteration, Review, and Approval.

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Emergency Response			
Reference		Effective Date: 6/30/05	
C.J. Graffenius Writer	P. F. Carteaux Owner	Emergency Preparedness Cognizant Organization	

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1 PURPOSE AND SCOPE

- 1.1 This procedure provides Instructions to the Shift Manager (SM) acting as the Site Emergency Coordinator (SEC), and to the Control Room (CR) (under the direction of the 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 per PMP-2080-EPP-101, Emergency Classification.
- 1.2 Once turnover of SEC duties has been completed, the SM retains the overall responsibility of directing and implementing emergency and abnormal procedures to bring the unit(s) to a safe condition.
- 1.3 The CR will retain responsibility for Public Address (PA) announcements and Nuclear Emergency Alarm (NEA) activation throughout the emergency.
- 1.4 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
CR	Control Room
DAP	Dose Assessment Program
EAL	Emergency Action Level
EMD-32	Nuclear Plant Accident Notification form
ENC	Emergency News Center
EOC	Emergency Operation Center
EOF	Emergency Operations Facility
EOP	Emergency Operating Procedure

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ERDS	Emergency Response Data System
ERF	Emergency Response Facility
ERO	Emergency Response Organization
GE	General Emergency
IC	Initiating Conditions
JPIC	Joint Public Information Center
MSP	Michigan State Police
NEA	Nuclear Emergency Alarm
OSC	Operations Support Center
PA	Public Address
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

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3 DETAILS

3.1 General Information

- 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. Notification duties, under the direction of the SEC remain with the CR until the EOF has been activated.**
- 3.1.3 The following actions shall not be delegated by the SEC (Command & Control Function):**
 - **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 Accountability and subsequent evacuation are required at a SAE or higher for non-essential (non-ERO) personnel. SEC discretion should be used for these activities when taking these actions would jeopardize the safety of personnel (e.g., hostile force, radiation release, toxic spill, etc.).**
- 3.1.6 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).**
- 3.1.7 The ERDS for the affected Unit must be operational and transmitting data to the NRC within one hour of an ALERT or higher declaration.**

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3.1.8 The OSC, TSC, and the EOF are required to be activated at an ALERT classification or higher.

3.2 Instructions (initial steps as they are completed, or mark as N/A)

3.2.1 Inform Unit 1 and Unit 2 CR personnel of the event classification and that the SM has assumed the position of SEC. _____

- IF any H-2 ICs (Security EALs) were used to classify the current event, phone calls to offsite agencies (State of Michigan, Berrien County and NRC) must be made as expeditiously as possible. Advise Control Rooms whether or not PA announcements or sounding of the NEA, if applicable, should be performed. _____

3.2.2 Direct the Unaffected Unit (or Unit 1 if a dual unit event) to perform Step 3.2.3.b of this procedure. _____

3.2.3 Direct the implementation of activities per the checklists below:

- a. SEC Checklist – perform each step that applies per the current classification:
 1. IF at Alert or higher, (OR UE at SEC discretion), THEN Activate Dialogic pagers using Attachment 2 (performed only once per event). _____
 2. IF at UE or Alert and degrading/hazardous conditions warrant, THEN use SEC discretion to Dismiss Non-Essential Personnel from the site per Attachment 3 (performed only once per event). _____
 3. IF in a SAE, (or GE, if SAE was not entered), OR at a lower threshold per SEC discretion, THEN Order Accountability using Attachment 4, (performed only once per event). _____
 4. IF in a SAE (or GE, if SAE was not entered), AND non-essential personnel were not dismissed/evacuated under Step 3.2.3.a.2 or 3.2.3.a.3, THEN order Site Evacuation using Attachment 5, (performed only once per event). _____

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5. IF in a GE, THEN direct the development of a Protective Action Recommendation (mandatory) using Attachment 1. _____
6. IF in a UE and conditions warrant AND SEC has Command & Control function, THEN terminate the UE using Attachment 6. _____
7. IF in an Alert, or higher AND conditions warrant AND SEC has Command & Control function, THEN terminate the event using RMT-2080-EOF-002, Event Termination and Recovery. _____
8. When the TSC-SEC or EOF-ED reports for duty, conduct turnover and transfer of command and control function using Data Sheet 2. _____
 - Upon completion of turnover, inform both control rooms that the Command and Control function has been transferred to the SEC (or ED, as applicable). _____
9. WHEN the event has been terminated, THEN inform both control rooms of the event termination. _____
- b. Unaffected CR Checklist (or per SEC discretion) – perform each step that applies per the current classification, delegating assignments as resources permit:
 1. Notify Site Personnel of the emergency classification using Attachment 7. _____
 2. Notify Offsite Authorities of the emergency using Attachment 8. _____
 3. IF a radiological release is in progress due to the emergency, THEN perform PMP-208-EPP-108, Initial Dose Assessment. _____
 4. IF the PPC or RDR are inoperable THEN complete portions of Data Sheet 1, Technical Information Sheet, every 15 minutes, or as otherwise specified by requesting facility until the PPC and RDR are operable. _____

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- Not all portions of Data Sheet 1 need be completed; coordinate with requesting facility (usually TSC) for desired information.
- Transmit Data Sheet 1 to requesting facility (usually TSC).

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-108, Initial Dose Assessment
- 5.1.3 RMT-2080-EOF-001, Activation and Operation of the EOF.
- 5.1.4 RMT-2080-EOF-002, Emergency Termination and Recovery

5.2 Writing References:

5.2.1 Source References:

- a. Cook Nuclear Plant Emergency Plan

5.2.2 General References

- a. Michigan Emergency Management Plan
- b. NRC Regulatory Issue Summary, RIS-2002-21
- c. NRC Regulatory Issue Summary, RIS-2004-13

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Attachment 1	Protective Action Recommendations	Pages: 8 - 11	

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 for Area 1 in any subsequent PAR.

1 PAR Development

1.1 Proceed through the flowchart on page 10 to develop a PAR.

1.1.1 In selecting a PAR, consider what method (evacuation or sheltering) would have the greatest dose-saving benefit to the public. Conditions to consider include:

- Dangerous travel conditions (i.e., snow squalls, thunderstorms, major traffic accident on a main evacuation route, etc.).
- A forecast of changing weather conditions (i.e., changing wind direction and/or speed, precipitation, etc.).
- Radiological release characteristic (continuous release due to the event, that can not be controlled, vice a short-term "puff" release that can be controlled/stopped – e.g., containment pressure relief).
- Evacuation times (Refer to table on page 11).

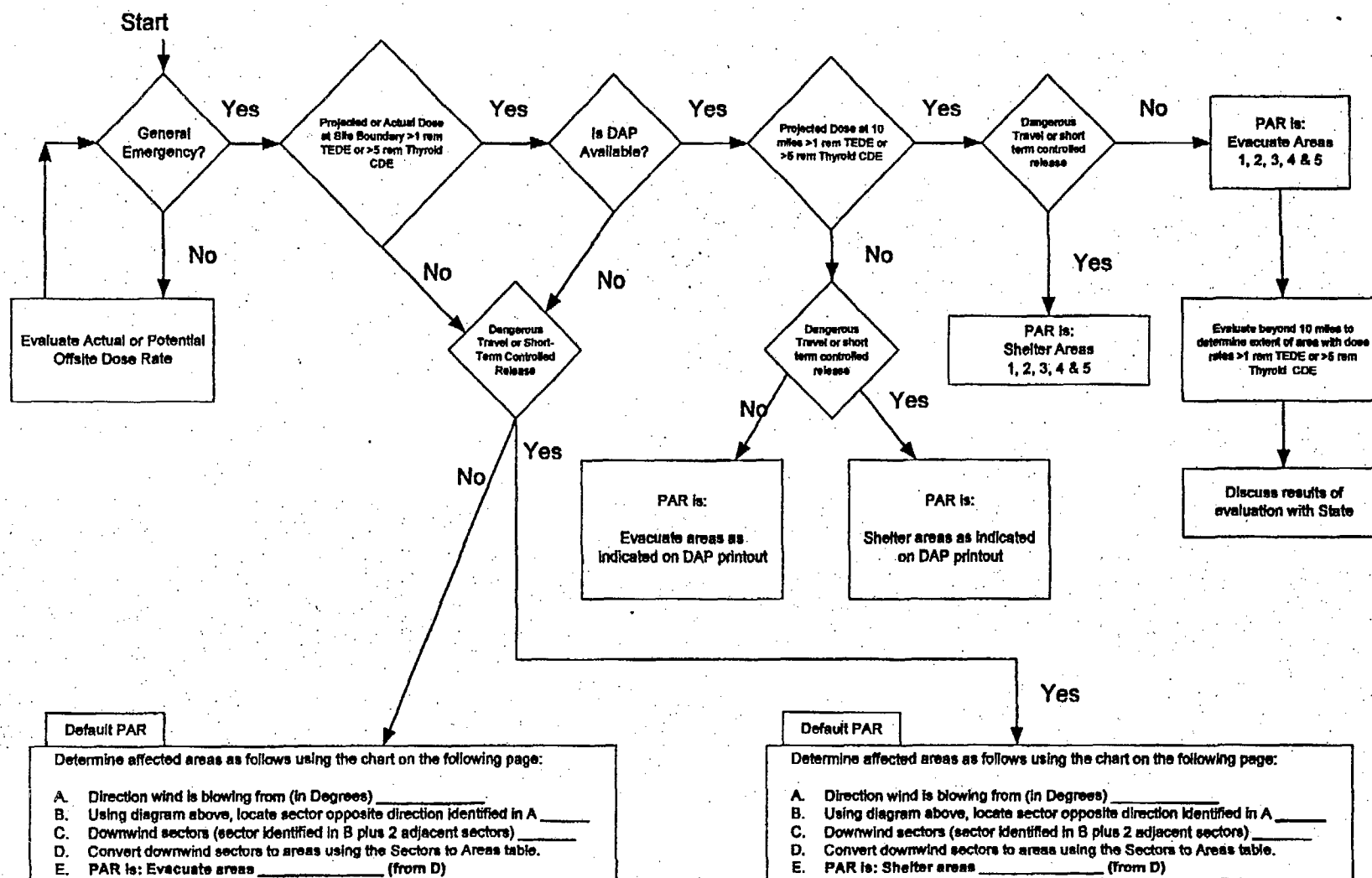
2 Issuing a PAR

2.1 After a PAR is developed, SEC judgment should be applied as necessary in altering the PAR from that determined by use of the flowchart.

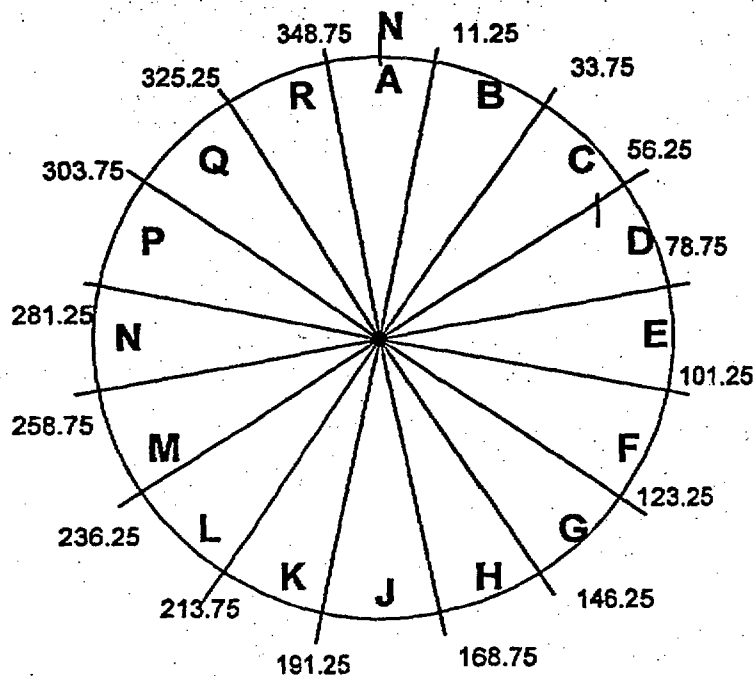
2.2 Ensure that the appropriate PAR boxes are checked on the EMD-32a form, before approving the form.

2.3 Ensure that the GE and PAR are verbally transmitted to the State, and that the EMD-32a (and EMD-32b, if GE is due to dose considerations) is/are transmitted to offsite agencies per Attachment 8, within 15 minutes of the GE/PAR declaration, or PAR change.

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Attachment 1	Protective Action Recommendations	Pages: 8 - 11	



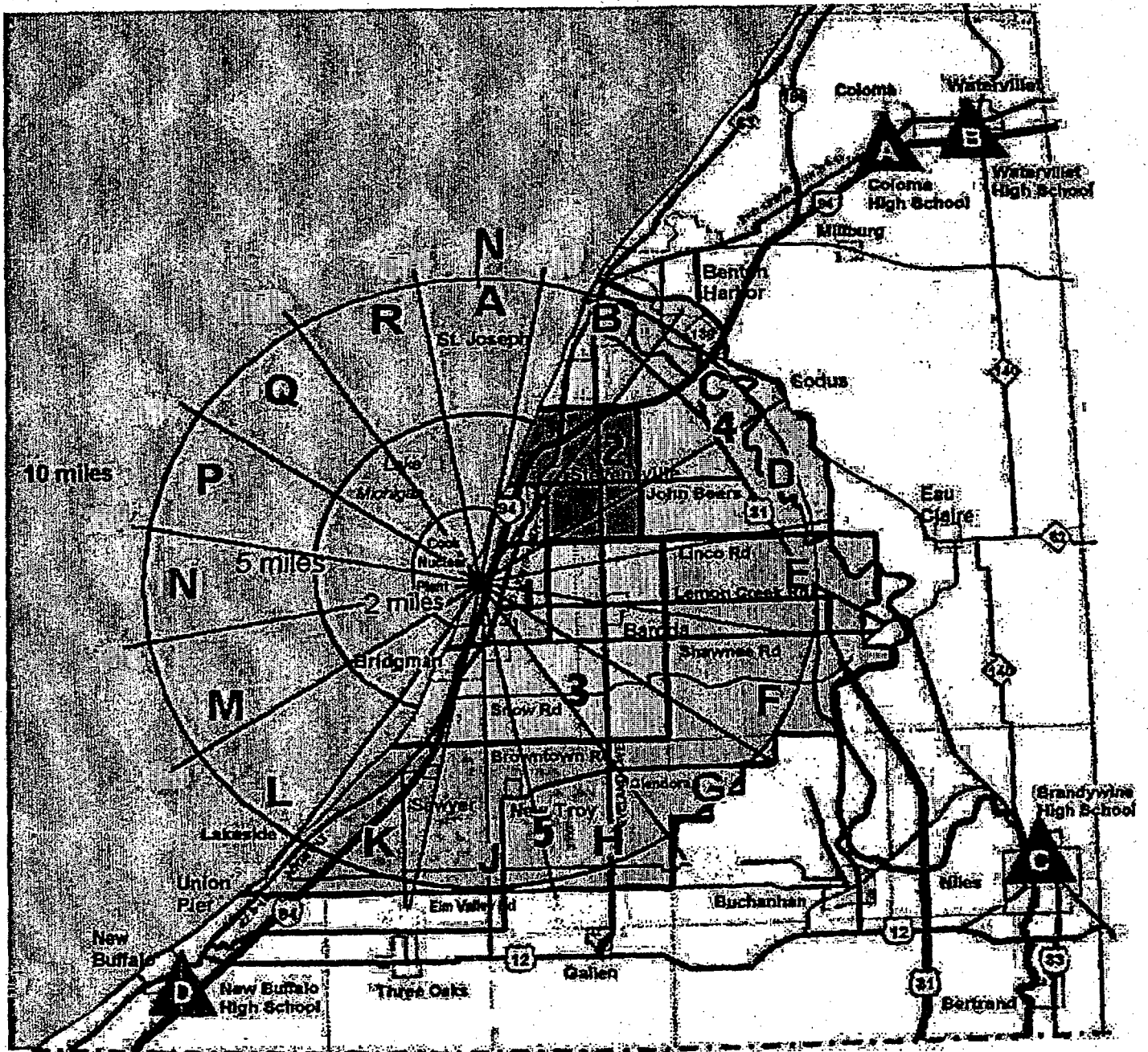
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Attachment 1	Protective Action Recommendations	Pages: 8 - 11	



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

Affected Areas	Longest Estimated Evacuation Time in Minutes	
	Fair Weather	Poor Weather
1	180	200
1 and 2	200	230
1 and 3	180	200
1, 2 and 3	220	240
1, 2, 3 and 4	450	480
1, 2, 3 and 5	230	250
1, 2, 3, 4 and 5	460	480

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Reference	PMP-2080-EPP-100	Rev. 5	Page 12 of 40
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Attachment 2	Activation of Dialogic Pagers		Page: 12

NOTE: SEC judgment will be used to determine which of the following codes will be used. The "007" code will be used if it is determined to be unsafe to report to the plant site (i.e., security event).

1 IF an Alert or higher classification has been declared, OR if the ERO is needed at a UE per SEC discretion, THEN activate the Dialogic pagers.

1.1 Choose a pager code for use:

- Code "911" will direct ERO responders to their respective facilities in the TSC, OSC, EOF, and ENC/JPIC.
- Code "007" will direct all ERO responders reporting from offsite to the Buchanan Office Building. The EOF will activate and the backup TSC will be manned. Personnel will remain in Buchanan pending further instructions by the SEC.

1.2 Open the "Dialogic Instructions" envelope in the Emergency Plan briefcase located in the control room.

1.3 On any touchtone phone, follow the directions provided in the "Dialogic Instructions".

2 IF the Dialogic pager system is inoperable, THEN direct the Security Shift Supervisor (2005 or 2731) or SAS (1118 or 1119) to make manual notifications to ERO members per the ERO Phone Directory.

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Attachment 3	Dismissal of Non-Essential Personnel	Pages: 13 - 14	

NOTE: SEC judgment should be used in making the decision to dismiss non-essential personnel (i.e., non-ERO members) from the site. Events where dismissal should strongly be considered are rapidly degrading conditions (core damage is occurring or imminent), large fire, or other conditions which, in the judgment of the SEC warrants such dismissal.

- 1 IF hazardous conditions are occurring or imminent AND no further hazard would be introduced by the dismissal of non-essential personnel, THEN dismiss all non-essential personnel from the site.
- 1.1 IF radiological conditions may impact dismissal of non-essential personnel (e.g., radiological release in progress), THEN, contact RP for assistance/guidance in dismissal route, and other considerations as applicable.
- 1.2 Contact the Security Shift Supervisor (2005 or 2731) to coordinate the dismissal of non-essential personnel from site. Discuss:
 - Whether or not rapid egress is required (e.g., imminent airborne attack)
 - Route to be used for dismissal (e.g. main plant access road or Livingston Road).
- 1.2.1 Instruct the Security Shift Supervisor to carry out agreed upon method of egress using specific route, and to inform personnel in the Owner-Controlled Area to leave the site.
- 1.2.2 Instruct the Security Shift Supervisor to inform the SM/SEC when dismissal of Non-Essential Personnel has been completed.
- 1.3 Inform both Control Rooms of the decision to dismiss non-essential personnel and how dismissal will be accomplished (normal or rapid egress, with specific route to be used).
- 1.4 Determine if the Unit 1 and/or Unit 2 Containment evacuation Alarm should be sounded.

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Attachment 3	Dismissal of Non-Essential Personnel	Pages: 13 - 14	

- 1.4.1 Sound the Containment Evacuation Alarm(s), if required.
- 1.5 Direct an operator to make PA announcement for dismissal of all non-essential personnel. Repeat the announcement once.

- 1.5.1 IF normal egress is to be used, THEN make the following announcement two times. Modify the announcement if an alternate route (Livingston Road) is used:

“Attention all personnel. Attention all personnel. Due to the current plant conditions, all non-essential personnel are requested to leave the plant site at this time using the main plant access road.”

- a. Make the same announcement two times in the Training Building by dialing 1646.

- 1.5.2 IF rapid egress is to be used, THEN make the following announcement two times:

“Attention all personnel. Attention all personnel. Due to the current plant conditions, all non-essential personnel are requested to leave the plant site, using (specify Security portal, including location, e.g., “vehicle portal near the North Access Building”) and exiting the site using (State the route).”

- a. Make the same announcement two times in the Training Building by dialing 1646, omitting the “using Security portal” statement.

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Emergency Response			
Attachment 4	Accountability		Pages: 15- 18

NOTE: During some postulated events, assembly & accountability, may pose a greater danger than directing a rapid egress of personnel from the Protected Area, or directing personnel to remain in their work areas. SEC discretion, with input from Security personnel when necessary, should be used in the decision to perform accountability and/or evacuation under these conditions.

1 Review the three methods of Accountability below:

- Primary Method - using this method, all non-ERO individuals within the Protected Area will proceed to an Assembly Area located in the Office Building and Service Building and swipe their security badges at one of the associated Accountability Card Readers. Personnel will remain in the Assembly Areas until evacuated per SEC direction. A list of missing individuals will be generated by Security 30 minutes from the time accountability is ordered (i.e., NEA is sounded).
- Alternate Method - using this method, and under direction from the Security Shift Supervisor all non-ERO individuals within the Protected Area will exit through a Security Portal (e.g., vehicle portal near North Access Building) selected by Security per conditions at the time. This method allows for rapid egress of personnel from the Protected Area because exit card readers/turnstiles may be bypassed. In this method, individuals may be required to relinquish their security badges so that Security personnel can account for them and verify their leaving the Protected Area. This method should only be used under extreme circumstances where assembly and accountability may pose a greater hazard to personnel than rapid evacuation.
- No Accountability - under some Security events Accountability may be delayed or omitted entirely per SEC discretion (e.g., security event in a vital area - intrusion by a hostile force).

2 Contact the Security Shift Supervisor (2005 or 2731) to consult about which method of accountability should be used.

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Attachment 4	Accountability		Pages: 15- 18

2.1 Choose which of the accountability methods will be used, Primary, Alternate, or No Accountability and inform the Shift Security Supervisor. _____

2.1.1 IF using the Primary Method of accountability, THEN request that Security:

- Prepare for accountability.
- Commence evacuation of the Owner Controlled Area outside of the Protected Area.
- a. GO TO Step 3.

NOTE:	RP should be consulted for input on best means of egress from the Protected Area/Site if a radiological release is in progress or imminent.
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2.1.2 IF using the Alternate Method of accountability, THEN request that Security initiate the alternate method of accountability.

- a. Coordinate with the Security Shift Supervisor (and RP, if a radiological release is imminent or in progress) as to which Security Portal(s) will be used for Protected Area evacuation.
- b. Request that the Owner-Controlled area also be evacuated.

3 Contact Personnel Inside the Protected Area.

3.1 IF using the Primary Method of Accountability, THEN direct an Operator to perform the following:

- Sound the Unit 1 and Unit 2 Containment Evacuation Alarm.
- Sound the Nuclear Emergency Alarm.
- Make a Public Address announcement for personnel to report for accountability. Repeat the announcement once. An example of this announcement is:

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Attachment 4	Accountability	Pages: 15- 18	

“Attention all personnel. Attention all personnel. A (State the current classification – usually a SAE) has been declared due to (brief description of EAL). Report to an Assembly Area located in the North Office Buildings or Service Building for accountability at this time. Use an accountability card reader and then remain in the area for further announcements.”

- IF the ERFs have not already been activated, THEN make the following announcement twice:

“Attention all personnel. Attention all personnel. Activate the Technical Support Center, Operations Support Center, Emergency Operations Facility, and Joint Public Information Center.”

- 3.2 IF using the Alternate Method of Accountability, THEN direct an Operator to perform the following:

- Sound the Unit 1 and Unit 2 Containment Evacuation Alarm.
- Sound the Nuclear Emergency Alarm.
- Make a Public Address announcement for personnel to use the alternate method of accountability. Repeat the announcement once. An example of this announcement is:

“Attention all personnel. Attention all personnel. A (State the current classification – usually a SAE) has been declared due to (brief description of EAL). Due to the current plant conditions, all non-essential personnel are requested to leave the plant site, using (specify Security portal, including location, e.g., “vehicle portal near the North Access Building”) and exiting the site using (State the route).”

- 3.3 IF the No Accountability Method is used, THEN DO NOT sound the NEA, Containment Evacuation Alarms, or make a public address announcements. Direct any necessary announcements per Security Shift Supervisor guidance.

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Attachment 4	Accountability		Pages: 15- 18

4 Perform follow-up actions.

4.1 IF the Primary Method of Accountability was used, THEN

- Obtain a list of missing personnel from Security (this list should be provided 30 minutes following the sounding of the NEA).
- Coordinate with Security to locate any missing individuals.

4.2 IF the Alternate Method of Accountability was used, THEN

- Obtain a list of missing personnel from Security upon completion of the manual accountability (this will take longer than 30 minutes).
- Coordinate with Security to locate any missing individuals.

4.3 IF the No Accountability Method was used, THEN take any necessary follow-up actions when conditions warrant. Examples of the follow-up actions include:

- After hostile force has been neutralized, SEC may choose to perform accountability (per Primary or Alternate Method).
- Coordinate with Security to locate any missing personnel.
- Public Address announcements as necessary.
- Dismissal or evacuation of personnel as necessary.

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Attachment 5	Evacuation		Page: 19 - 21

NOTE: During some postulated events, evacuation may pose a greater danger than sheltering personnel within buildings. Under other events, rapid egress from the Protected Area and evacuation of the site is prudent. SEC discretion, with input from Security and/or RP personnel as applicable, should be used in the decision whether to evacuate under these conditions.

1 Determine If Evacuation Should Be Performed

- 1.1 IF a security event is in progress in which evacuation could cause personnel harm (e.g., hostile force in a vital area), THEN SEC should shelter personnel within work areas, or as recommended by Security, rather than evacuation.**
 - 1.1.1 Coordinate with Security (1118, 1119, 2005 or 2731) in taking protective measures as necessary for plant personnel.**
 - 1.1.2 WHEN the security event has been terminated (i.e., hostile force has been neutralized, THEN GO to Step 2.**
- 1.2 IF a radiological release is in progress, THEN consult with RP in determining whether evacuation should be delayed.**
- 1.3 IF no new hazards would be introduced by evacuation, THEN evacuate personnel per Step 2.**
- 1.4 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 on site.**
 - Take appropriate actions (e.g., evacuate, shelter, relocate on site, issue dosimetry, etc.) as necessary to protect the offsite agency personnel.

2 Site Evacuation

2.1 Rapid Egress

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Attachment 5	Evacuation		Page: 19 - 21

2.1.1 IF an event is in progress in which rapid evacuation of the Protected Area is necessary (e.g., airborne attack threat), THEN implement such evacuation by using the Rapid Egress Method.

- a. **Contact the Security Shift Supervisor (2005 or 2731) to initiate Rapid Egress of the Protected Area.**
 - **Coordinate with the Security Shift Supervisor (and RP, if available, if a radiological release is imminent or in progress) as to which Security Portal(s) and evacuation route (main access road or Livingston Road) will be used for Protected Area evacuation.**
 - **Request that the Owner Controlled Area also be evacuated.**
 - **Instruct the Security Shift Supervisor to notify the SEC when evacuation of the Protected Area is complete.**
 - **Instruct the Security Shift Supervisor to notify the SEC when evacuation of the Owner Controlled Area is complete.**
- b. **Direct an Operator to make the following announcements for personnel to exit the Protected Area per designated Security Portal(s). Modify the announcement if an alternate route (Livingston Road) is used and as conditions warrant. Repeat the announcement once.**

“Attention all personnel. Attention all personnel. A (State the current classification – usually a SAE) has been declared due to (brief description of EAL). Due to the current plant conditions, all non-essential personnel are requested to exit the Protective Area using (specify Security portal, including location, e.g., ‘vehicle portal near the North Access Building’) and leave the site using (State the route) .”

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- c. Direct an Operator to make the following announcements in the Training Building and TSOC by dialing 1646. Modify the announcement if an alternate route is used (Livingston Road), and as conditions warrant.

“Attention all personnel. Attention all personnel. A (State the current classification – usually a SAE) has been declared due to (brief description of EAL). Due to the current plant conditions, all non-essential personnel are requested to leave the site using (State the route).”

- d. Direct an Operator to make an announcement to evacuate the beach area using the Beach PA system microphone.

2.2 Normal Egress

2.2.1 IF normal egress from the Protected Area will be used for evacuation (North Access turnstiles), THEN contact the Security Shift Supervisor (2005 or 2731) to initiate evacuation.

- Coordinate with the Security Shift Supervisor (an RP, if a radiological release is imminent or in progress) as to which evacuation route (e.g., main access road or Livingston Road) will be used for evacuation.
- Request that the Owner Controlled Area also be evacuated.
- Instruct the Security Shift Supervisor to notify the SEC when evacuation of the Protected Area is complete.
- Instruct the Security Shift Supervisor to notify the SEC when evacuation of the Owner Controlled Area is complete.

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Emergency Response			
Attachment 6	Terminating a UE		Page: 22

1 UE Termination

1.1 IF the conditions for the UE no longer exist, and no escalation of classification is expected, THEN perform the following:

1.1.1 Instruct operators to inform the BCSD and MSP that the event is terminated.

1.1.2 Instruct operators to:

- Fax a final EMD-32a form (with the current classification check box marked *Termination*) to BCSD and MSP.
- Verify that the form was received by the State and County.
- Notify the NRC (Red Phone – NRC Operations Center) that the emergency is terminated.

1.2 Inform both Control Rooms that the event is terminated.

1.3 Inform Security that the event is terminated (1118, 1119, 2005 or 2731).

1.4 Direct an operator to make a public address announcement that the UE has been terminated per the SEC.

2 Collection of Data

2.1 Provide for collection of data, paperwork, etc. related to the event and forward to Emergency Preparedness for disposition.

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Emergency Response			
Attachment 7	Notification of On-Site Personnel	Pages: 23 - 24	

1 Notify Security

1.1 Inform the Security Shift Supervisor (ext. 2005 or 2731) or SAS Operator (ext. 1118 or 1119) of the initial emergency classification or classification upgrade.

1.1.1 IF an UE, THEN instruct Security to notify personnel as prescribed in Section 5 of the ERO Phone Directory.

1.1.2 IF an Alert, THEN instruct Security to notify personnel as prescribed in Sections 2 and 5 of the ERO Phone Directory.

1.1.3 IF a SAE, THEN instruct Security to:

- Ready the Security Computer for accountability and prepare for subsequent evacuation.
- Notify personnel as prescribed in Sections 2 and 5 of the ERO Phone Directory (if not already performed for this emergency).

1.1.4 IF a GE, THEN instruct Security to:

- Ready the Security Computer for accountability and prepare for subsequent evacuation (if not already performed for this emergency).
- Notify personnel per instructions in the ERO Phone Directory (if not already performed for this emergency).

1.1.5 IF conditions at the plant are such that personnel reporting to the plant would be at risk (e.g., security event, radiation release, toxic spill, etc.), THEN direct Security to close access to the plant until the SEC determines that the condition no longer exists.

2 Notify Chemistry and RP Technicians of the initial emergency classification.

3 Make Public Addresses Announcements

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Attachment 7	Notification of On-Site Personnel	Pages: 23 - 24	

CAUTION: PA announcements should not be made for some ICs (EALs) due to their sensitive nature. IF any of the H-2, Security ICs (EALs) have been used to classify the current event, THEN obtain SEC permission before making any PA announcements or sounding the NEA.

NOTE: PA announcements for SAE and GE are conducted via Attachments 4 and 5.

3.1 Direct an operator to make a PA announcement for the current classification. Make the announcement twice. Modify announcements below as conditions warrant.

3.1.1 IF in a UE, THEN make the following announcement:

“Attention all personnel. Attention all personnel. An Unusual Event has been declared due to ____ (brief description) ____.
Continue with your work and be prepared for future announcements.”

3.1.2 IF in an Alert, THEN make the following announcement:

“Attention all personnel. Attention all personnel. An Alert has been declared due to ____ (brief description) ____.”

- IF emergency facilities are not already activated continue the announcement with:

“Activate the Operations Support Center, Technical Support Center, Emergency Operations Facility, and the Emergency News Center. All other personnel stand by for further announcements.”

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Emergency Response			
Attachment 8	Notification of Off-Site Agencies	Pages: 25 - 28	

NOTE: Notification to offsite authorities (State and County) must be initiated within 15 minutes of classification.

1 Completing MSP EMD-32 Form

1.1 Direct a licensed operator to:

NOTE: PARs are developed using Attachment 1, Protective Action Recommendations

1.1.1 Complete a EMD-32a form for the classification and/or PAR.

- a. **IF** in a GE due to dose calculation, **THEN** an EMD-32b form must also be completed.
- b. **IF** a release is in progress due to the event, **THEN** coordinate with personnel performing dose assessment per PMP-2080-EPP-108 for completion of EMD-32 form(s).

1.1.2 Obtain the SM/SECs "Plant Approval" signature on the form(s).

1.1.3 Make copies of the form(s) as necessary for offsite notification phone communicators.

NOTE: Alternate phones/extension may be used, at the discretion of the Unit Supervisor, or designee as conditions warrant.

2 Phone Contacts and Faxes (usually performed by AEOs)

2.1 Setup the Emergency Plan telephones (located in the "E-Plan" drawer) in the back of the Control Room (if not already performed).

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2.2 Contact:

- MSP at 8-1-517-336-6250 using the MSP bridge phone (ext. [REDACTED] in the back of the Control Room.
- BCSD at 8-1-269-983-3911. (IF the automated system answers, THEN dial [REDACTED])

2.3 Provide the following to the MSP and BCSD:

- Provide the information from the EMD-32 form.
- Inform the agency that the EMD-32 will be faxed.
- Request a callback (for authentication) from the applicable agency (using ext. [REDACTED] for MSP) and then hang up.

NOTE: Offsite agencies may wish to maintain constant communications with the Control Room until the EOF is activated.

- For callbacks: BCSD callback, dial ext. [REDACTED] and wait for the deputy to call into the phone bridge; for MSP callback ext. [REDACTED] phone line will ring in the Control Room.

2.4 Fax the signed EMD-32 form(s):

- Place the form(s) face down in the fax machine in either Control Room,
- Push the P1 Function button (Red) to broadcast the form(s) (to the State, County, and ERFs),
- Push the Start button

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- 2.4.1 IF the Broadcast feature does not work, THEN fax the form(s) individually at the following numbers:
- MSP EOC: 8-1-517-336-6257
 - BC EOC: 8-1-269-983-5726
 - State EOC: 8-1-517-333-4987
- 2.5 Call the NRC Operations Center on the NRC "Red Phone" (FTS-2000 phone) by dialing 1-301-816-5100.
- Provide the information on Data Sheet 4, Plant Status, to the NRC as soon as possible after the State and County have been notified, and within one hour of classification.
 - Make the one hour notification in accordance with the instructions provided in PMP-7030-001-001, Prompt NRC Notification.
- 2.6 Document phone calls on Data Sheet 3, Shift Manager Initial Notification List.
- 3 Follow Up Notifications
- 3.1 UNLESS the State of Michigan has been notified in advance of a delay or change in frequency, THEN direct a licensed operator to complete an EMD-32b form at least every 30 minutes, (commencing 30 minutes from initial notification).
- 3.2 Obtain the SM/SECs "Plant Approval" signature on the form.
- 3.3 Fax the signed EMD-32 form(s):
- Place the form(s) face down in the fax machine in either Control Room,
 - Push the P1 Function button (Red) to broadcast the form(s) (to the State, County, and ERFs),
 - Push the Start button.

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Attachment 8	Notification of Off-Site Agencies	Pages: 25 - 28	

3.3.1 IF the broadcast feature does not work, THEN fax the form(s) individually at the following fax numbers:

- **MSP EOC: 8-1-517-336-6257**
- **BC EOC: 8-1-269-983-5726**
- **State EOC: 8-1-517-333-4987**
- a. **IF ERFs will be activated (at Alert or higher, or UE per SEC discretion), THEN also send EMD-32 form(s) to the following fax numbers (if broadcast feature is non-functional):**
 - **EOF: 8-284-2942**
 - **TSC: 2431**
 - **ENC/JPIC: 8-284-5892**

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Emergency Response			
Attachment 9	Drills and Exercises		Page: 29

1 Drills and Exercises

- 1.1 IF an Alert, Site Area Emergency, or a General Emergency has been declared, THEN the Simulator Shift Manager implements the Dialogic Emergency Response Organization pager system for an announced or unannounced drill as directed by the controller. The drill or exercise controller may provide alternate instructions for contacting Security as dictated by the drill scenario.**
- 1.2 The Simulator Shift Manager requests that the Shift Manager have a control room staff member page the plant using the Plant PA system, and make an announcement in accordance with the drill controller's instructions.**
- 1.3 The Simulator Shift Manager directs the Simulator control room staff to sound the Nuclear Emergency Alarm and the Containment Evacuation Alarm in the SIMULATOR for a Site Area Emergency or General Emergency.**
- 1.4 The Simulator Shift Manager directs the Simulator unaffected control room staff to page the Training Building and Buchanan Office Building by dialing 41-1646 on the plant phone system, and make an announcement in accordance with the drill controller's instructions.**

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Emergency Response			
Attachment 10	Communication System Tests	Pages: 30 - 31	

1 Communication System Tests

1.1 Nuclear Emergency Alarm Test and ERO Turnover/Notification Process Test

1.1.1 Operating shift shall perform the following tests every Tuesday at approximately 1000 hours during non-outages, approximately 0700 hours during outages, or at a time approved by the Shift Manager:

1.1.2 Test Nuclear Emergency Alarm

- **Announce: "This is a test. The following is a test of the Nuclear Emergency Alarm and ERO turnover notification."**
- **Sound the Nuclear Emergency Alarm (NEA) for 8 to 10 seconds and then reset by pushing "OVERRIDE" button.**
- **Announce: "The test of the Nuclear Emergency Alarm is complete. Oncoming duty ERO personnel should call Dialogic when the ERO pager activates."**

1.1.3 ERO Pager Activation

- **Obtain the "ERO Weekly Turnover Pager Test" instruction (available in E-Plan briefcase in Control Room).**
- **Follow the instructions for turnover for the applicable oncoming team.**
- **Acceptance Criteria:**

NEA alarm is heard in the Control Room.

Print Name/Signature

Date

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1.1.4 Perform test of the Training Building and Buchanan Office Building Public Address System.

- Dial 1646 and announce the following:

"This is a test of the Training Building and Buchanan Office Building Public Address System and ERO turnover notification. Oncoming duty ERO personnel should call Dialogic when the ERO pager activates. Test is complete."

- Acceptance Criteria: (only required to be verified during normal work days):

Emergency Preparedness personnel report that PA system test is heard in the Training Building and Buchanan Office Building.

Print Name/Signature

Date

1.1.5 Perform the test of the Beach PA system monthly, between May 1st and October 31st.

- Station an AEO within range of the Beach PA system speakers.
- Make the following announcement using the Beach PA system microphone.
- **"This is a test of the Beach Public Address System. Test complete."**
- Acceptance Criteria:

Announcement is heard by the AEO stationed for the test.

Print Name/Signature

Date

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Emergency Response			
Data Sheet 1	Technical Information Sheet		Pages: 32 - 33

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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Data Sheet 1	Technical Information Sheet	Pages: 32 - 33	

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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Emergency Response			
Data Sheet 2	Emergency Turnover Checklist		Pages: 34 - 37

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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Emergency Response			
Data Sheet 2	Emergency Turnover Checklist		Pages: 34 - 37

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: 34 - 37	

c. Potential for Plant Degradation

d. Mitigating Actions Taken or Underway

6. Plant Radiological Conditions

a. Inplant/Onsite Radiological Conditions

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Emergency Response			
Data Sheet 3	Shift Manager Initial Notification List	Page: 38	

ON-SITE NOTIFICATION	PHONE NUMBER	CONTACT ESTABLISHED INITIALS / TIME
Security Notification	1118 or 1119 or 2005	_____/_____ _____/_____
Training and Buchanan Office PA Announcement	1646	_____/_____ _____/_____

OFF-SITE NOTIFICATION	PHONE NUMBER	CONTACT ESTABLISHED INITIALS / TIME	EVENT CLOSEOUT INITIALS / DATE
Berrien County Sheriff's Department	8-1-269-983-3911	_____/_____ _____/_____	_____/_____ _____/_____
REQUEST CALL BACK VERIFICATION	BCSD Person Contacted: _____ Time Call Back Received: _____		
Michigan State Police	8-1-517-336-6250	_____/_____ _____/_____	_____/_____ _____/_____
REQUEST CALL BACK VERIFICATION	MSP Person Contacted: _____ Time Call Back Received: _____		
NRC Operations Center -	8-1-301-816-5100	Red Phone or Commercial	
	8-1-301-951-0550	_____/_____ _____/_____	_____/_____ _____/_____
	8-1-301-415-0553	_____/_____ _____/_____	_____/_____ _____/_____
	NRC Person Contacted: _____ Continuous contact will be required for an Alert, Site Area Emergency, or General Emergency		

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Emergency Response			
Data Sheet 4	Plant Status		Pages: 39 - 40

NOTE: This Data Sheet is not required to be sent to the NRC unless asked for by the NRC. It is to be used as a guide for the communicator talking to the NRC.

Time of NRC Notification: _____

Reactivity Control

- | | | | |
|---------------------------------|-----|----|---------------------|
| • All Control rods inserted? | Yes | No | _____ # of rods out |
| • Reactor Subcritical? | Yes | No | |
| • Emergency Boration initiated? | Yes | No | |
| • Adequate Shutdown Margin? | Yes | No | |

RCS Inventory Control - check all that apply for the current plant conditions

- Inventory makeup controlled by: (Identify all pumps injecting into RCS)

CVCS - Normal Charging

Charging Pumps via BIT (High Head SI)

Safety injection pumps (Intermediate Head SI)

RHR Pumps (Low Head SI)

Other: _____

RCS Pressure Control

- | | | |
|--------------------------------|-----|----|
| • Pressurizer PORVs Closed? | Yes | No |
| • Pressurizer Safeties Closed? | Yes | No |

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RCS Heat Transport Control - check all that apply for the current plant conditions

Forced Circulation by RCP

Natural Circulation

Feed and Bleed

Decay Heat Removal System (RHR)

RCS Heat Sink (Available Or In Operation) - check all that apply for the current plant conditions

S/G - Condenser Dump Valves

S/G - Atmospheric Dump Valves

S/G - Safety Valves

RCS - Feed/Bleed

Decay Heat Removal System (RHR)

S/G Inventory Control - check all that apply for the current plant conditions

Main Feedwater

Aux. Feedwater

Other: _____

Containment Control

- | | | |
|---|-----|----|
| • Ice Condenser Doors OPEN? | Yes | No |
| • Containment Sprays ON? | Yes | No |
| • Hydrogen Recombiners/Igniters ON? | Yes | No |
| • Containment Isolation Valves fail to CLOSE? | Yes | No |
| • Phase A Actuation? | Yes | No |