CONTROLLED DOCUMENT TRANSMITTAL

Transmittal#: 23226N

Date: 05/03/2002

Initiator: TRACY NELSON

Page: 1

Description:

ISSUE OF 1 EMERGENCY PLAN PROCEDURE (RMT)

Distribution Group(s):	RM: Ri	MT-2080-I	EOF-001
Section/Name	Mail Zone	Copies	Comments
Emer Plan:Sec Capt Office	11	1C	
Emer Plan:U1 Mockup	11	1C	
Emergency Planning Coord	11	2C	
Maint: I&C Library	2*	1C	
Maint: MTIS, M. Lower	10	1C	
MI Dept Environ Quality	P29	1C	
NDM: Library	1*	1C	
NGH: EOF (via EDCC)	22*	27C	Include 1C Index Only
NGH: JPIC (via EDCC)	22*	1C	
NRC: On Site	4A	1C	
NRC: Region III		2C	
NRC: Washington		2C	·
Operations Library	5B*	1C	
osc	1 *	1C	·
S.S. Office	29*	1C	
Simulator	11	2C	
Site Protective Services	8B	1C	
State of Michigan		1C	
Training Cart 1, T. Ott	11	1C	
Training Cart 2, S. Gleffe	11	1C	
Training Cart 4, S. Stiger	11	1C	
Training Cart 5, M. McKeel	11	1C	
Training Cart 6, D. Terry	11	1C	
Training Lib:Master Copy	11	1U	
Training Library	11	1C	
TSC	1*	2C	Include 1C Index Only
Unit 1 Control Room	29*	2C	
Unit 2 Control Room	29*	2C	
Visitor Center	25	1C	

Transmitted Controlled Document Listing: (1)			
Document	Revision	Status	Title
RMT-2080-E0F-001	001	Approved	ACTIVATION AND OPERATION OF THE

Controlled Document Transmittal Receipt and File Acknowledgement:

CONTROLL	ED F	MIDO	SENITE	ONLY
LUNIKULL	ED L	ハししい	IEN I 3	UNLI

Signature Date

No45

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

MANAGEMENT SECTION

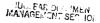
Nuclear Document Management Emergency Plan Procedure Index

MAY 0 3 2002

CONTRU LED

Page.

Document #	Title	Revision/ Date	Comment
12-EPP-2080-EPA-008	EMERGENCY PLAN MANAGEMENT	0 03/30/2001	
12-EPP-2080-OSC-002	UNIT VENT SAMPLING	0 07/03/2001	
PMP-2080-EPP-100	EMERGENCY RESPONSE	0 04/06/2001	
PMP-2080-EPP-101	EMERGENCY CLASSIFICATION	38 12/07/2001	
PMP-2080-EPP-107	NOTIFICATION	15A 06/12/2001	
PMP-2080-EPP-108	INITIAL DOSE ASSESSMENT	4 05/03/2002	
PMP-2080-EPP-111	NATURAL EMERGENCY GUIDELINES	1 02/06/1995	
PMP-2080-EPP-112	PERSONNEL INJURY	1 06/05/1997	
PMP-2080-EPP-200	INITIATING CHANGES TO THE EMERGENCY PLAN OR EMERGENCY PLAN IMPLEMENTING PROCEDURES	0 03/12/2001	
PMP-2081-EPP-105	INITIAL CORE DAMAGE ASSESMENT	4-CS1 06/16/2000	
PMP-2081-EPP-212	CONTAINMENT ATMOSPHERE SAMPLING	1-CS1 05/26/1988	
RMT-2080-EOF-001	ACTIVATION AND OPERATION OF THE EOF	1 05/03/2002	
RMT-2080-EOF-002	EMERGENCY TERMINATION AND RECOVERY	0 07/03/2001	
RMT-2080-JPIC-001	ACTIVATION AND OPERATION OF THE JPIC	0 04/16/2002	
RMT-2080-OSC-001	ACTIVATION AND OPERATION OF THE OSC	0 07/03/2001	
RMT-2080-TSC-001	ACTIVATION AND OPERATION OF THE TSC	0 07/03/2001	



Nuclear Document Management Emergency Plan Procedure Index

MAY 0 3 2002

CONTRU LED

ŗ	חמי	۵.
	ωy	٠.

Document #	Title	Revision/ Date	Comment
12-EPP-2080-EPA-008	EMERGENCY PLAN MANAGEMENT	0 03/30/2001	
12-EPP-2080-OSC-002	UNIT VENT SAMPLING	0 07/03/2001	
PMP-2080-EPP-100	EMERGENCY RESPONSE	0 04/06/2001	
PMP-2080-EPP-101	EMERGENCY CLASSIFICATION	3B 12/07/2001	
PMP-2080-EPP-107	NOTIFICATION	15A 06/12/2001	
PMP-2080-EPP-108	INITIAL DOSE ASSESSMENT	4 05/03/2002	
PMP-2080-EPP-111	NATURAL EMERGENCY GUIDELINES	1 02/06/1995	
PMP-2080-EPP-112	PERSONNEL INJURY	1 06/05/1997	
PMP-2080-EPP-200	INITIATING CHANGES TO THE EMERGENCY PLAN OR EMERGENCY PLAN IMPLEMENTING PROCEDURES	0 03/12/2001	
PMP-2081-EPP-105	INITIAL CORE DAMAGE ASSESMENT	4-CS1 06/16/2000	
PMP-2081-EPP-212	CONTAINMENT ATMOSPHERE SAMPLING	1-CS1 05/26/1988	
RMT-2080-E0F-001	ACTIVATION AND OPERATION OF THE EOF	1 05/03/2002	
RMT-2080-E0F-002	EMERGENCY TERMINATION AND RECOVERY	0 07/03/2001	
RMT-2080-JPIC-001	ACTIVATION AND OPERATION OF THE JPIC	0 04/16/2002	
RMT-2080-OSC-001	ACTIVATION AND OPERATION OF THE OSC	0 07/03/2001	
RMT-2080-TSC-001	ACTIVATION AND OPERATION OF THE TSC	0 07/03/2001	•

REVIEW AND APPROVAL TRACKING FORM

Procedure Information:			
Number: RMT-2080)-EOF-001	Rev. <u>1</u>	Change: 0
Title: Activation	and Operation of the EC	F	
Category (SelectiOne On	11-70 St. Co. (1)-11-11-11-11-11-11-11-11-11-11-11-11-1		
Correction (Full Procedu	re) 🛛 Change (Full	Procedure) with Rev	view of Change Only
Correction (Page Substitu	ution)	e Substitution) with R	Review of Change Only
☐ Cancellation	☐ New Procedu	are or Change with F	ull Review
☐ Superseded (list supersed	ling procedures):		
Associated Configuration			
Change Driver/CDI Tracking	g No(s).:		🛛 N/A
Required Reviews:	别的数据的 表示 经基础		
Cross-Discipline Reviews:	1	atic Reviews:	
	ining \bigcilc ALARA		Performance Assurance
_ =	l	vices Proc Grp	Reactivity Mgmt Team
□ MDM □		ent Engineering	SPS (Safety & Health)
Operations		Engineering	Surveillance Section
□ PA/PV □	Emerg C	per Proc Grp	System Engineering
Reg Affairs	Environ		
☐ RP ⊠ Non	e Required ISI/IST	Coordinator	None Required □
Cognizant Org Review	: Cyndy &	rafforus	Date: <u>3/20/62</u>
☐ Technical Review:	SCOV	ol m	Date: 3/2(/02
Concurrence:			
Ops Mgr Concurren	ce: N/A		Date: / /
	: Xan Wel.		Date: 3 /21/01_
Package Check:			
Updated Revision Summar	ry attached?		⊠ Yes
10 CFR 50.59 Requiremen	-	No.: 2002-053	
Implementation Plan devel		(Ref/Step 3.4.18)	⊠ Yes □ N/A
Package Complete:	Sel Jel	(Red Step 5.4.10)	Date: 3 /22/02_
Approvals:			Date. 3/22/64_
PORC Review Required:	∑ Yes [☐ No	Mtg. No.: 3932 9
Administrative Hold Status		Reissued N/A	
Approval Authority Review		och	Date: 4 /3 /07
Expiration Date/Ending A		^	Effective Date: 5/3/02
Periodic Review:			
Periodic Review conducted	i? (Dat	a Sheet 5 Complete) Yes No
Follow-up Actions:		ar sizeriji i	
Commitment Database Up	dated?	100 100 st 1-1 H-20 10 20	☐ Yes ⊠ N/A
NDM notified of new records		ould affect record ret	·
The state of More records	charges to records that t	Sala arrest record fet	omon 103 KAINA
AUIOLEAN DOCUMENT			
MAY 0 3 2002 CONTROLLED	Office Information Fo	r Form Tracking	Only - Not Part of Form
8 444 0 0 0000			
MAY 0 3 2002	This form is derived from the		•
CONTROLLED	Procedure Correction, Chang Review and Approval Tracki		9a, Data Sheet 1, Page 1 of 7
CONTROLLED DOCUMENT	TOTION and Approval Hacki		rage \ OI \ \

Number:	RMT-2080-EOF-001	Revision: 1	Change: 0
Title:	Activation and Operation of the EOF		

Revision 1 eliminates the EOF Manager position and positions which were required for communication purposes when the JPIC was located in the Lake Michigan Mendal Center. This revision also incorporates changes made because of changes in the State of Michigan notification forms and processes and the changes to the Dose Assessment computer program. Revision 1 also adds an attachment for classification. Though classifications will continue using the classification procedure, the new attachment provides instructions for follow-up actions not in the classification procedure.

Section or Step	Change/Reason For Change
2.1	Change: Changed EOF Manager to Emergency Director (ED)
·	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.
2.6	Change: Under "Briefings" changed EOF Manager to Emergency Director
	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.
2.6	Change: Under "Classification" changed reference from PMP-2080- EPP-001 to Attachment 7.
	Reason: The Classification procedure does not contain all actions necessary by plant personnel when a classification is upgraded. Attachment 7 now provides those supplemental instructions.
2.6	Change: Changed the numbering for references 7 - 19 to 8 - 20.
	Reason: Attachment 7, "Classification" was added to the procedure. Subsequent attachments were renumbered accordingly.
Step 3.1.2	Change: Corrected Use Reference for the Core Damage Assessment Procedure
	Reason: Incorrect reference. 12-RSM-2080-CDA-002 does not exist.
Attachment 1,	Change: Added exception for ED
Note in Step 1.3	Reason: Non-qualified individuals cannot fill the Emergency Director position.
Attachment 1,	Change: Deleted EOF Manager
Step 1.3	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.

Office Information For Form Tracking Only - Not Part of Fo	rm:
This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction,	
Change, and Review, Rev. 9a.	Page $\underline{2}$ of $\underline{7}$

Change: 0

Number:	RMT-2080-EOF-001	Revision: 1
---------	------------------	-------------

Section or Step	Change/Reason For Change
Attachment 1, Step 2	Change: Clarified step to directive statements. Changed times based on new state requirements from 15 minutes to 30 minutes for EMD-32b Technical Data sheets. Added bullet to determine the time the last EMD-32a or b was issued from the control rooms.
	Reason: Emergency Directors were not assuming responsibilities when the facility activated. The State of Michigan requires EMD-32b forms on a 30-minute cycle. The addition of the bullet will help Emergency Directors from transmitting duplicate notification forms to the state and county during the transition.
Attachment 1,	Change: Clarified steps to directive statements
Steps 3, 4, and 5	Reason: Provide Emergency Directors with more distinct instructions for steps to activate the EOF.
Attachment 2,	Change: Added "Facility Priorities"
Step 3.1	Reason: Provide briefer with additional instructions to enhance brief.
Attachment 4	Change: Attachment was completely revised based on the new Dose Assessment Program (DAP).
	Reason: The new DAP computer program has on screen prompts and instant helps available for all fields. The program also allows the user to move between screens unlike the old version. Therefore, many of the instructions in revision 0 to this procedure are no longer necessary as they are available in the program.
Attachment 6, Step 1.5	Change: Moved the "Day" heading to the right and inserted a line to block the section.
	Reason: The line is necessary to indicate that the Wind Speed is applicable to the Day and Night sections of the table. Previously the wind speed appeared to only apply to the Day section of the table.

	Office Information For Form Tracking Only - Not Part of Fo	ır m
	This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction,	
-	Change, and Review, Rev. 9a.	Page <u>3</u> of <u>7</u>

Number:

RMT-2080-EOF-001

Revision: 1

Change: 0

Title:

Section or Step	Change/Reason For Change	
Attachment 7	Change: Added attachment 7, "Classifications".	
	Reason: PMP-2080-EPP-101 does not supply instructions for completion of the EMD-32a, Nuclear Plant Event Notification form, additional instructions for transmitting the information to the appropriate off-site agencies, or notifying control room personnel for follow-up actions. Attachment 7 now provides these instructions.	
Attachment 8	Change: Added steps to include the use of the EMD-32a and EMD-32b notification forms.	
	Reason: The State of Michigan has revised the EMD-32 notification form and added an EMD-32 technical notification form. The attachment was changed to clarify the proper use of the new forms and to provide instructions for notification of the state or county centers.	
Attachment 9, Step 7	Change: Added instructions for the EMD-32a and EMD-32b forms along with appropriate time frames. Changed instructions for distribution to JPIC personnel.	
	Reason: The State of Michigan has revised the EMD-32 notification form and added an EMD-32 technical notification form. The JPIC has moved to the Buchanan office building. Transmission is no longer necessary.	
Attachment 12, Position Table	Change: Deleted PPC Operator, Communicator-ENC/JPIC, and EOF Manager.	
	Reason: Positions are being eliminated. The EOF Computer Analyst is assuming the PPC Operators duties. The ED is assuming the EOF Managers duties. The ENC/JPIC position is no longer needed because the JPIC is moving to the Buchanan office building.	
Attachment 14,	Change: Deleted EOF Manager	
Step 1	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.	

•	
Office Information For Form Tracking Only - Not Part of Fo	rm -
This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction,	
Change, and Review, Rev. 9a.	Page 4 of 7

Number:

RMT-2080-EOF-001

Revision: 1

Change: 0

Title:

Section or Step Change/Reason For Change		
Attachment 15,	Change: Changed EMD-32 to EMD-32a or EMD-32b.	
Step 1.1.2	Reason: The EMD-32 notification form was revised to two forms, the EMD32a and EMD-32b.	
Attachment 15,	Change: Removed reference to Items used on the EMD-32 forms.	
Steps 1.1.2.a and b.	Reason: The new EMD-32 forms do not have item number references anymore.	
Attachment 15, Step 1.2.2.b	Change: Combined sub-steps b, c, and d. Removed reference to Items used on the EMD-32 forms. Changed wording to provide the same instructions but with reference to the appropriate section of the new EMD-32 forms.	
	Reason: The new EMD-32 forms do not have item number references. The wording change specifically addresses the PAR section of the EMD-32a form.	
Attachment 18, Step 3	Change: Removed reference to Items used on the EMD-32 forms.	
	Reason: The new EMD-32 forms do not have item number references anymore.	
Data Sheet 3, Under Vegetation,	Change: Clarified instructions to state the amount of vegetation to be collected.	
Step 5	Reason: Previous instruction lead users to believe a 12 liter sample container existed.	
Figure 1 under EMD-32	Change: Deleted the EMD-32 and added the EMD-32a and EMD-32b along with the appropriate meanings.	
•	Reason: The EMD-32 form was replaced with the EMD-32a and EMD-32b forms when the State of Michigan revised the forms.	
Figure 2, Under	Change: ChangedEOC at a SAE toEOC at an SAE	
Berrien County Liaison	Reason: Grammatically incorrect.	
Figure 2, Under	Change: Changed EOF Manager to Emergency Director	
Communications Director	Reason: The Communications Director now reports to the Emergency Director.	

Office Information For Form Tracking Only - Not Part of	Form :
This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction,	
Change, and Review, Rev. 9a.	Page 5 of 7

Number:

RMT-2080-EOF-001

Revision: 1

Change: 0

Title:

Section or Step	Change/Reason For Change	
Figure 2, Under	Change: Deleted bullet for assuming duties of EOF Manager	
Communications Director	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities. The Communications Director is not qualified to assume the ED duties.	
Figure 2, Under Computer Analyst	Change: Added bullet to include PPC/RDR operations responsibilities to this position.	
	Reason: This responsibility belonged to the Plant Process Computer Operator. That position has been eliminated.	
Figure 2, Under Emergency Director	Change: Deleted bullet for ED to assume the EOF Managers responsibilities. Added bullets to include EOF Managers responsibilities that were eliminated from the EOF Managers position description.	
	Reason: The EOF Manager position is being eliminated therefore this is a redundant statement. The ED is assuming the activation and communications responsibilities from the EOF Manager.	
Figure 2, Under	Change: Added Position	
Emergency Planning	Reason: Position added to provide over site to the ED during emergency situations.	
Figure 2, Under	Change: Removed the position	
ENC/JPIC Communicator	Reason: The JPIC has been moved to the Buchanan Office Building. This interface is no longer necessary since individuals in the EOF and JPIC can now interface directly without going through a communicator.	
Figure 2, Under	Change: Changed EOF Manager to Emergency Director	
Engineering Design & Site Services Manager	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.	
Figure 2, Under ENS	Change: Moved the position in the figure into the correct alphabetical order.	
Communicator	Reason: Order correction.	

Office Information For Form Tracking Only - Not Part of For	m.		
This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction,	· · · · · · · · · · · · · · · · · · ·		
Change, and Review, Rev. 9a.	Page 6	_ of	7

Number: RMT-2080-EOF-001

Revision: 1

Change: 0

Title:

Section or Step	Change/Reason For Change	
Figure 2, Under Environmental Assessment Director	Change: Changed EOF Manager to Emergency Director Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.	
Figure 2, Under EOF Manager	Change: Deleted EOF Manager position description from the figure. Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.	
Figure 2, Under HPN Communicator	Change: Moved the position in the figure into the correct alphabetical order. Reason: Order correction.	
Figure 2, Under Operations Advisor	Change: Added the new position. Reason: Position added to assist the ED with Emergency Classifications and interpretation of plant conditions.	
Figure 2, Under Plant Process Computer Operator position Computer Operator Operator Change: Deleted Plant Process Computer Operator position From the figure Reason: The PPC Operator position is being eliminated. The Analyst is assuming these responsibilities.		
Figure 2, Under Regulatory Affairs Coordinator	Change: Changed EOF Manager to Emergency Director Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.	

Office Information For Form Tracking Only - N	Not Part of Form
This is a free-form as called out in PMP-2010-PRC-002, Procedure Correcti	on,
Change, and Review, Rev. 9a.	Page 7 of 7

AFF AMERICAN ELECTRIC POWER AFF America's Energy Partner-	RMT-2080-EOF-001	Rev. 1	Page 1 of 48	
	Activation and Operation of the EOF			
Reference		Effe	ctive Date: 5/3/62	
P. E. Holland P. E. Holland Emergency		ency Planning		
Writer	Owner	Cognizant Organization		

TABLE OF CONTENTS

1 PURPOSE	AND SCOPE	3
3 REFERENCE	CES	Δ
Attachment 1:	Activation	6
Attachment 2:	Briefings	8
Attachment 3:	Habitability	9
Attachment 4:	Dose Assessment	10
Attachment 5:	Meteorological Data	13
Attachment 6:	Pasquill Category	15
Attachment 7:	Classifications	16
Attachment 8:	Protective Action Recommendations (PAR)	18
Attachment 9:	Document Transmission/Distribution	21
Attachment 10:	Field Team Communications	23
Attachment 11:	Environmental Sampling	26
Attachment 12:	Shift Designation	28
Attachment 13:	Dialogic Paging System	30
Attachment 14:	Logistical Support	32

AMERICAN' ELECTRIC POWER All: America's Every Instant	RMT-2080-EOF-001	Rev. 1	Page 2 of 48
Activation and Operation of the EOF			
Reference Effective Date: 5/-			ctive Date: 5/3/62
P. E. Holland	P. E. Holland P. E. Holland Emergency Planning		ency Planning
Writer	Owner	Cognizant Organization	

Attachment 15:	County Communications
Attachment 16:	ENS Communications
Attachment 17:	HPN Communications
Attachment 18:	Michigan State Police Communications
Attachment 19:	External Support
Attachment 20:	Information Requests
Data Sheet 1:	Meteorological Forecast40
Data Sheet 2:	Offsite Survey Log41
Data Sheet 3:	Environmental Sample Collection
Figure 1:	Definitions and Abbreviations43
Figure 2:	Position Descriptions45

Activation and Operation of the EOF					
	ion and Operation	ion and Operation of the EOF			

1 PURPOSE AND SCOPE

- 1.1 This procedure provides guidance to Emergency Operations Facility (EOF) personnel during emergencies.
- 1.2 Use of this procedure is restricted to emergency conditions or drills/exercises only.

NOTE: 10 CFR 50.54(x) and (y) describe the actions required if deviation from Technical Specifications or License Condition becomes necessary.

2 DETAILS

- 2.1 The Emergency Director (ED) implements this procedure.
- 2.2 Use Attachment 1, Activation, when an emergency response is initiated.
- 2.3 Use Figure 1, Definitions and Abbreviations for a listing of abbreviations, acronyms, and their meanings.
- 2.4 Figure 2, Position Descriptions contains supplemental directions for ERO personnel.
- 2.5 IF additional assistance from other utilities or agencies is required THEN refer to the list in Appendix C of the Emergency Plan. Phone numbers are available in the Emergency Response Organization Phone Directory.

Reference	RMT-2080-EOF-001	Rev. 1	Page 4 of 48		
Activation and Operation of the EOF					

NOTE: O = Optional M = Mandatory

2.6 Perform activities based on the following table.

Activity	Attachment/ Procedure	Responsible Position	UE	Alert	SA	GE
Briefings	2	ED .	M	M	M	M
Habitability	3	EAD			M	M
Dose Assessment (EMD-32)	4	EAD		0	M	M
PAR	8	ED				M
Core Damage Assessment	PMP-2081- EPP.105	Reactor Physics Analyst		0	0	0
Classification	7	ED	M	M	M	M
Document Transmission / Distribution	9	Communications Director	0	М	M	M
Field Team Communications	10	FMT Coordinator		0	M	M
Environmental Sampling	11	Field Teams			-	
Logistical Support	14	Scheduling/Planning Manager			0	0
Shift Designation	12	Security Director	0	0	0	0
Information Requests	20	Communications Director				
External Support	19	Industry Support Communicator		0	0	0
ENS Communications	16	ENS Communicator		M	M	M
HPN Communications	17	HPN Communicator		M	M	M
County Communications	15	Berrien County Communicator			M	M
State Communications	18	MSP Communicator			M	M
Termination/Recovery	12-RMT-2080- EOF-002	ED		M	M	M

3 REFERENCES

3.1 Use References:

- 3.1.1 PMP-2080-EPP-101, Emergency Classification.
- 3.1.2 PMP-2081-EPP.105, Initial Core Damage Assessment.
- 3.1.3 12-RSM-2080-EOF-002, Emergency Termination and Recovery.
- 3.1.4 Donald C. Cook Nuclear Plant Emergency Plan.

MT-2080-EOF-001	Rev. 1	Page 5 of 48
ctivation and Operation (of the EOF	
-		tivation and Operation of the EOF

3.2 Writing References:

3.2.1 Source References.

- a. Donald C. Cook Nuclear Plant Emergency Plan.
- b. EPA 400-R-92-001 Manual of Protective Action Guides and Protective Actions for Nuclear Incidents.
- c. Dose Assessment Program Computer Program, Rev. 7.
- d. Meteorology and Atomic Energy 1968. U. S. Atomic Energy Commission.
- e. Evacuation Time Estimates for the D. C. Cook Nuclear Plant Plume Exposure Emergency Planning Zone HMM Associates July 1992 (Rev.1).

3.2.2 General References

- a. Michigan Emergency Preparedness Plan.
- b. Berrien County Emergency Preparedness Plan.

Reference RMT-2080-EOF-001 Rev. 1 Page 6 o						
Activation and Operation of the EOF						
Attachment 1	Attachment 1 Activation					

NOTE: The Emergency Plan requires activation of the EOF within 60 minutes of the time of a declaration of an Alert, SAE, or GE.

- 1 Ensure the facility has the following or an acceptable alternate prior to activation.
- 1.1 Equipment
 - Facility Power
 - Plant Process Computer (RDR)
 - Dose Assessment Programs and Printers
 - Continuous Air and Area Radiation Monitor
 - Clocks set with the Plant Process computer
- 1.2 Communications
 - 1.2.1 Telephones, Fax machines, or Radios to:
 - State of Michigan Emergency Operations Center
 - Berrien County Emergency Operations Center
 - 1.2.2 Field Monitoring Team Radios
 - 1.2.3 Communications with the Control Room
 - 1.2.4 Managers Telephone Bridge
- 1.3 Personnel

NOTE:	With the exception of the Emergency Director, the use of non-qualified personnel is permissible provided they are briefed and understand the positic specific requirements.	on
	☐ Emergency Director	
	 Communications Director 	
	☐ Environmental Assessment Director	
	☐ Boardwriter	
	☐ Communicator – Berrien County Sheriff Department	
	Communicator - Michigan State Police	
	☐ Communicator –ENS	

Reference	RMT-2080-EOF-001	Rev. 1	Page 7 of 48				
Activation and Operation of the EOF							
Attachment 1	Attachment 1 Activation Pages:						
	Activation		6 - 7				

2 Perform the following:

- Assume responsibilities for communications with offsite agencies.
- Assume responsibilities for Classification, Notification and PARs from the SEC.
- Determine the time the control room will issue their last EMD-32.
- Determine the time the EOF will issue the first EMD-32, Nuclear Plant Event form. The EMD-32a must be issued within 15 minutes of a classification or PAR change. The EMD-32b must be issued within 30 minutes of the last EMD-32a or EMD-32b.
- 3 Perform a facility brief.
- 4 Activate the facility.
- 5 Inform the other ERO facilities that the EOF has been activated.

Reference	Page 8 of 48					
Activation and Operation of the EOF						
Attachment 2 Briefings Page:						
			8			

- 1 Announce the briefing time 2 to 3 minutes prior to it beginning.
- Ensure everyone is paying attention, there are no phone conversations or side discussions taking place, and personnel remain stationary during the brief.
- 3 Perform the briefing. (Time limits are for reference only.)
- 3.1 Current Plant Status (1- Minute Maximum)
 - Major on-going events
 - Major Equipment out of service
 - Prognosis
 - Facility priorities
- 3.2 Current Classification (30-Seconds Maximum)
 - PAR in effect
 - Anticipated changes in classification or PAR
- 3.3 Status of the EOF (for initial briefings up to and including activation)
 - Activation Status (When command and control will be taken over from the Control Room),
 - Problems delaying activation,
 - Time the first EMD-32 is required for transmission to the State (at activation only).
- 3.4 Ask the EOF team for updates on important information
 - Don't solve the problems here. Delegate; then update at the next briefing if necessary.
- 3.5 Ask the EOF team if anyone is having any problems
 - Don't solve the problems here. Delegate; then update at the next briefing if necessary.

Reference	Page 9 of 48					
Activation and Operation of the EOF						
Attachment 3 Habitability Page: 9						

NOTE: The EOF has no specific habitability requirements because it is outside the 10-mile Emergency Planning Zone. Actions taken are at the discretion of the EAD.

- 1 IF a radioactive plume is expected to pass over the EOF, THEN:
 - Start the continuous air monitor.
 - Issue dosimetry to all EOF occupants.
 - Shelter or evacuate non-essential personnel in the Buchanan Office Building.
 - Turn off or close dampers on ventilation systems that draw air from outside the facility.
 - Have personnel remain in the EOF and office building.
 - Perform routine surveys to assess dose rates, airborne activity, and post plume contamination.
- 2 Maintain the dose to the occupants of the EOF below the following for the duration of the emergency.
 - TEDE < 5 Rem
 - CDE Thyroid < 25 Rem

Reference	Rev. 1	Page 10 of 48				
Activation and Operation of the EOF						
Attachment 4	Pages:					
			10 - 12			

- 1 UNLESS the State of Michigan EOC has been notified in advance of a delay or change in frequency, THEN transmit Nuclear Plant Event Technical Data forms (EMD-32b) to the State of Michigan at least every 30 minutes.
- Obtain and record an 8-hour and 24-hour weather forecast on Data Sheet 1, Meteorological Forecast.
- 2.1 Forecasts are normally obtained through Murray and Trettle. The phone number is available in the Emergency Response Organization Phone Directory.
- 2.2 Provide Data Sheet 1, Meteorological Forecast, to the runners for distribution.
- 2.3 Obtain subsequent forecasts approximately every 8 hours.
- 3 IF a projected dose is NOT available from the Dose Assessment Program, THEN use projected doses based on measured dose rates from the field and expected duration of the exposure time.
- 4 IF projected doses are NOT available and a PAR is necessary, THEN use the default PAR. See Attachment 8, PAR.
- 5 Obtain Meteorological Data. See Attachments 5, Meteorological Data, and 6, Pasquill Category, for additional information and help.
- 6 Obtain radiological data as applicable.
- 6.1 Radiation Monitoring System (RMS) data listed in order of preference:
 - PPC/RDR
 - RMS Display Terminals
 - Technical Support Center
 - Direct readings from the Local Area Data Acquisition Modules

6.2 Field Team data

- Radiation reading in R/hr
- Iodine concentration in μCi/cc
- Sample location

Reference	Rev. 1	Page 11 of 48				
Activation and Operation of the EOF						
Attachment 4	Attachment 4 Dose Assessment					

- 7 Determine the Coolant Type from:
 - EOF Reactor Physics Analyst
 - Technical Support Center Plant Evaluation Team
 - GO TO Initial Core Damage Assessment procedure, PMP-2081-EPP-105.
- 8 Determine the Projected Duration of the Release.
 - IF the projected duration of the release is unknown, THEN use 1-hour.
 - IF releases are occurring from multiple points, THEN use the longest projected duration.
- 9 Determine if an Actual Release versus a Potential Release is occurring.
- 9.1 An actual release is occurring when any of the following are true:
 - Valid indication on release point radiation monitoring system channels are present that are associated with a classified event, or
 - Measured offsite radiation readings indicate a release is in progress, or
 - Indications exist that an unmonitored release may be occurring.
- 9.2 A potential release exists if calculated data is postulated based on present plant conditions (i.e., Containment Loss Of Coolant Accident, CLOCA).
- 10 Complete the EMD-32b form.
 - The EMD-32b, Release/Offsite Dose Data section, is only required to be completed if a release is or is suspected to be occurring.
 - The EMD-32b, Measured Offsite Radiation Levels section, needs only be reported when available.
- Review the EMD-32b form to determine if a change in classification or PAR is required.
- 12 IF a change is necessary, THEN:
 - The ED approves the EMD-32b form.
 - Follow the instructions on the Classification or PAR attachment.

Reference	Page 12 of 48					
Activation and Operation of the EOF						
Attachment 4 Dose Assessment Page 10 -						

IF a change is not necessary, THEN: 13

- The ED approves the EMD-32b form.
 Provide the EMD-32b form to the Fax operators for transmittal.

Reference	Reference RMT-2080-EOF-001 Rev. 1						
Activation and Operation of the EOF							
Attachment 5	Attachment 5 Meteorological Data						

NOTE: Wind speeds are expressed as Miles per Hour. To convert Knots to Miles per Hour multiply by 1.15.

- 1 Consider lake breezes in the dose assessment process if all the following are true:
 - The current date is between April 15 and October 31,
 - The current time is between 1-hour after sunrise and 1-hour after sunset,
 - Ambient temperature measured at the main tower must be greater then the Lake Michigan temperature,
 - Wind speed on the shoreline tower is ≤ 13.4 Miles per Hour,
 - Pasquill category must be A, B, C, or D,
 - Shoreline tower wind direction is **FROM** 205° to 23° (i.e., Wind is from the lake).
- 1.1 Obtain meteorological data from one of the following sources. Sources are listed in order of preference.
 - 1.1.1 Plant Process Computer
 - 10 Meter Main
 - 10 Meter Backup
 - 60 Meter Main
 - 1.1.2 Murray and Trettle
 - a. Obtain the phone number from the Emergency Response Organization Phone Directory.
 - b. Request to speak to the Nuclear Emergency Director.
 - c. Obtain
 - Wind Speed in Miles per Hour
 - Wind Direction from, in degrees
 - Pasquill Category as a letter NOT a number
 - Eight and 24-hour meteorological forecast

Reference	Rev. 1	Page 14 of 48				
Activation and Operation of the EOF						
Attachment 5	Pages: 13 - 14					

- 1.1.3 Manual Acquisition of Meteorological Tower Data
 - Contact the Technical Support Center and request a team be dispatched to collect this data.
- 1.1.4 National Oceanic and Atmospheric Administration (NOAA)
 - Obtain the plants NOAA phone extension from the Emergency Response Organization Phone Directory.
 - Use any NOAA weather radio.

Reference	RMT-2080-EOF-001	Rev. 1	Page 15 of 48			
Activation and Operation of the EOF						
Attachment 6 Pasquill Category Page: 15						

Obtain Pasquill Category data from one of the following sources. Sources are listed in order of preference.

1.1 Plant Process Computer

1.2 Temperature Differential

$\Delta T ^{\circ}F = T @ 60m - T @ 10m$	Pasquill Category	ΔT °C = T @ 60m - T @ 10m
(Z = 50 Meters)		(Z = 50 Meters)
ΔT °F ≤ - 1.8	A 25	ΔT °C ≤ - 1.0
-1.8 < ΔT °F ≤ - 1.6	В	-1.0 < ΔT °C ≤ - 0.9
-1.6 < ΔT °F ≤ - 1.4	C. The contract of the contrac	-0.9 < ΔT °C ≤ - 0.8
$-1.4 < \Delta T ^{\circ} F \le -0.5$	D	$-0.8 < \Delta T ^{\circ}C \leq -0.3$
$-0.5 < \Delta T^{\circ}F \le +1.3$	e produce de la composición della composición de	$-0.3 < \Delta T ^{\circ}C \leq +0.7$
$+1.3 < \Delta T ^{\circ}F \le +3.6$	F	$+0.7 < \Delta T ^{\circ}C \leq +2.0$
+3.6 < ΔT °F	G.	+2.0 < ΔT °C

1.3 Standard Deviation of the Horizontal Wind Direction (STD)

- STD	Pasquill Category
STD ≥ 22.5	**************************************
$22.5 \ge STD > 17.5$	В
$17.5 \ge \text{STD} > 12.5$	C
$12.5 \ge STD > 7.5$	D
$7.5 \ge STD > 3.8$	The second secon
$3.8 \ge STD > 2.1$	F
2.1 ≥ STD	G

1.4 Murray and Trettle

• See Attachment 5, Meteorological Data.

1.5 Observation

			liation (Day Only) 1 hour before suns	et)	
Sun Angle			Cloud Cove	r	
Degrees from Horizon	None	None 1/8 - 5/8 5/8 - 7/8		8/8	
	1		Middle Clouds	Low Clouds	
15° - 35°	Slight	Slight	Slight	Slight	Slight
35° - 60°	Moderate	Slight	Slight	Slight	Slight
> 60°	Strong	Strong	Moderate	Slight	Slight

		Day		Night	
Wind Speed @ 10 meters	Incomi	ng Solar Radi	ation	Thinly Overcast or	≤ 3/8
Miles per Hour (Mph)	Strong	Moderate	Slight	≥ 4/8 Low Clouds	Clouds
$Mph \leq 5$	Α	A – B	. В		
$5 < Mph \le 7$	A - B	В	С	E	F
$7 < Mph \le 11$	В	B - C	C	D	Е
$11 < Mph \le 13$	С	C – D	D	D	D
Mph > 13	С	D	D	D	D

Reference	Page 16 of 48					
Activation and Operation of the EOF						
Attachment 7 Classifications Pages:						
Attachment /	Classifications	Classifications				

- 1 Perform classifications using PMP-2080-EPP-101.
- 2 If a classification upgrade is made:
- 2.1 Note the time of the classification and determine the 15-minute notification time.
- 2.2 Notify the control room to initiate plant public address announcements and sound the Nuclear Emergency Alarm as specified in the control room procedures.
- 2.3 Complete an EMD-32a, Nuclear Plant Event Notification, form.
 - 2.3.1 Reason for Classification:
 - IF (H-1) SEC Judgement is used, THEN select the reason most applicable to the situation.
 - 2.3.2 Radiological Release in Progress Due to Event is yes when:
 - Valid indications on release point radiation monitoring system channels are present that are associated with a classified event, or
 - Measured offsite radiation readings indicate a release is in progress, or
 - Indications exist that an unmonitored release may be occurring.
 - 2.3.3 IF the classification is a General Emergency, THEN develop a PAR.
- 2.4 The ED approves the classification upgrade.
- 2.5 The ED notifies the State/County authorities.
 - 2.5.1 If the State EOC has **NOT** been activated:
 - Transmit the EMD-32a to the Berrien County Sheriff's Department
 - The ED discusses the EMD-32a data and applicable PARS, with the Berrien County Sheriff's Department.
 - 2.5.2 If the State EOC has been activated:
 - .Transmit the EMD-32 to the State of Michigan EOC.
 - The ED discusses the EMD-32a data, and applicable PARs, with the State EOC.

Reference	Reference RMT-2080-EOF-001 Rev. 1					
Activation and Operation of the EOF						
Attachment 7	Attachment 7 Classifications					

- 2.6 Notify the other facilities as applicable.
- 2.7 Perform a facility brief.
- 2.8 Update the facility status boards/maps with classification data, PARs, and Protective Action Orders received from the State of Michigan.

Reference	RMT-2080-EOF-001	Rev. 1	Page 18 of 48			
Activation and Operation of the EOF						
Attachment 8	Pages: 18 - 20					

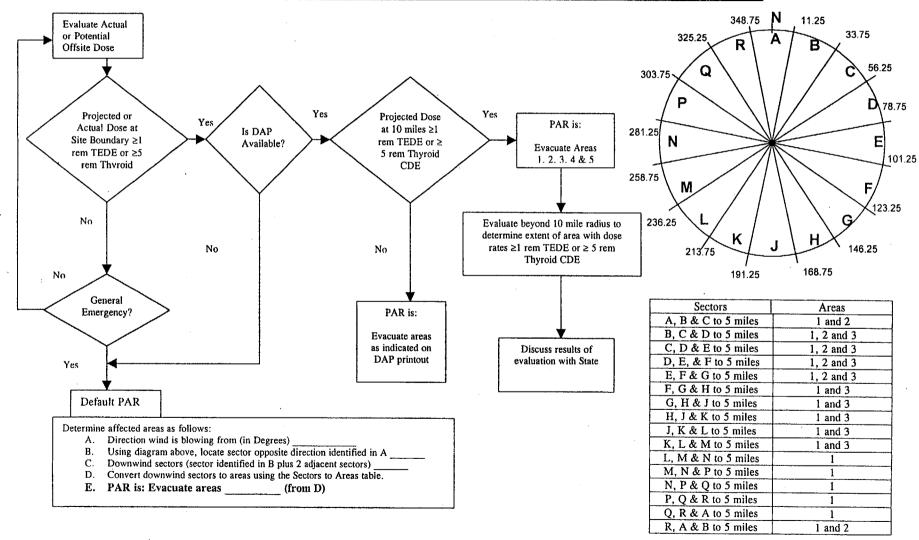
NOTE: PARs must accompany the declaration of a General Emergency.

- 1 Note the time of the PAR and determine the 15-minute notification time.
- 2 Use the Default PAR if:
 - A General Emergency has been declared for non-radiological release conditions, or
 - It is not possible to determine the Site Boundary TEDE or CDE dose and a release is or is suspected to be in progress.
- 3 Prior to developing a PAR, consider any forecasts of changing weather conditions.
- 4 IF the PAR is based on Dose Calculations, THEN an EMD-32b, Nuclear Plant Event Technical Data sheet must accompany the EMD-32a, Nuclear Plant Event Notification form
- 5 Compare field team data to the projected area of the PAR.
- 6 IF the field team data indicates the plume is outside the projected area, THEN change the PAR to include the actual data.
- 7 Update the EMD-32a with the PAR information.
- The ED approves the PAR change.
- 9 The ED notifies the State/County authorities.
- 9.1 If the State EOC has NOT been activated:
 - Transmit the EMD-32a (and EMD-32b as applicable) to the Berrien County Sheriff's Department.
 - The ED discusses the EMD-32 data, and applicable PARs with the Berrien County Sheriff's Department.
- 9.2 If the State EOC has been activated:

Reference	RMT-2080-EOF-001	Rev. 1	Page 19 of 48			
Activation and Operation of the EOF						
Attachment 8	Protective Action Recommen	dations (PAR)	Pages: 18 - 20			

- Transmit the EMD-32a (and EMD-32b as applicable) to the State of Michigan EOC.
- The ED discusses the EMD-32 data, and applicable PARs with the State EOC.
- Notify the other facilities as applicable.
- Perform a facility brief.
- Update the facility status boards/maps with classification data, PARs, and Protective Action Orders received from the State of Michigan.

Reference	RMT-2080-EOF-001	Rev. 1	Page 20 of 48	
Activation and Operation of the EOF				
Attachment 8	Attachment 8 Protective Action Recommendations (PAR) Pages: 18 - 20			



Reference	RMT-2080-EOF-001	Rev. 1	Page 21 of 48	
Activation and Operation of the EOF				
Attachment 9 Document Transmission/Distribution Page: 21 - 22				

NOTE:	Some of the facility Fax machines are designated within the phone directory
	as TRANSMIT and others as RECEIVE. These machines should remain in
	their designated mode to better facilitate communications between facilities.

- 1 Ensure the Fax machine dates and times are set correctly.
- Obtain the Fax machine phone numbers for the facilities and off site agencies from the Emergency Response Organization Phone Directory.
- 3 Forward all documents for duplication and distribution to the facility runners.
- 4 Forward all original documents to the Communication Director.
- 5 Log all incoming and outgoing Fax's in the facility Fax Log.
- 6 IF a Fax is NOT specifically addressed to an individual or position, THEN distribute incoming Fax's to all positions as described on the facility distribution map located in the copy area.

Reference	RMT-2080-EOF-001	Rev. 1	Page 22 of 48	
Activation and Operation of the EOF				
Attachment 9	Document Transmission/I	Distribution	Page: 21 - 22	

7 The following table gives additional direction on the transmission and distribution of material:

Document	Destination	Frequency	Additional Instructions	
Nuclear Plant Event	State EOC	EMD-32a	The EMD-32a and b forms	
Notification Form		15-Minutes	transmitted to the State of Michigan	
(EMD-32a)			should have priority over all other	
		EMD-32b	Fax's.	
Nuclear Plant Event		30-Minutes		
Technical Data	TSC	As Available		
(EMD-32b)	News Center	As Available	The initial transmission of all	
			documents to Corporate	
			Communications shall be established	
			through the News Center by	
			corporate communications personnel.	
	JPIC	As Available	Distribution to the JPIC members.	
	EOF	As Available	Distribute to EOF members.	
	Personnel			
Meteorological	State EOC	As Available	None	
Forecast Data Sheet 1	Berrien	As Available	None	
	County EOC			
	NRC	As Available	None	
	EOF	As Available	Distribute to EOF members.	
	Personnel			
Boardwriter Notes	EOF	As Available	Distribute to EOF members.	
	Personnel			

Reference	RMT-2080-EOF-001	Rev. 1	Page 23 of 48	
Activation and Operation of the EOF				
Attachment 10	Field Team Communi	cations	Pages: 23 - 25	

- WHEN dose assessment is considering lake breezes, THEN dispatch the field teams along the standard routes to locations either North and/or South of the plant to determine if the plume is moving in a parallel path to the Lake Michigan shore line.
- 2 IF the projected offsite dose rates for the team positions exceed 1 rem/hr TEDE or 5 rem/hr CDE Thyroid, THEN consider:
 - Repositioning the team(s) to reduce the overall expected exposure.
 - Distribution of Potassium Iodine (KI) to team members.
- 3 Have the field teams perform surveys based on the appropriate release status:
- 3.1 Pre-release no release has occurred.
 - 3.1.1 Determine the postulated direction and dispersion width of the plume based on the wind direction, wind speed, Pasquill Category stability class, and its associated isopleth.
 - 3.1.2 Position the survey vehicles downwind on Red Route 1.
 - 3.1.3 Have the survey vehicle traverse the downwind portion of the route while surveying for radiation readings above background.
 - 3.1.4 **IF** above background readings are reported, **THEN** notify the EAD immediately. An unmonitored release may be occurring.

3.2 Plume Phase

- 3.2.1 Determine the postulated direction and dispersion width of the plume based on the wind direction, wind speed, Pasquill Category stability class, and isopleth.
- 3.2.2 Use the projected dose rates as guidance to determine the best distance from the plant to collect airborne sample data without risking overexposure to field team members. Iodine and particulate materials tend to plate out quickly on surrounding surfaces. Airborne samples should be collected at the location of the highest dose rate reading within the plume.

Reference	RMT-2080-EOF-001	Rev. 1	Page 24 of 48	
Activation and Operation of the EOF				
Attachment 10 Field Team Communications Pages: 23 - 25				

3.2.3 Direct the survey teams to perform either a full traverse or plume definition survey.

a. Full Traverse

- 1. Direct the survey teams to traverse the plume reporting back, as a minimum, boundary (0.1 mR/hr) and centerline (highest reading) data.
- 2. IF an air sample is necessary, THEN have it taken at the plume centerline.
- 3. Record the Field Team data on Data Sheet 2, Offsite Survey Log.
- 4. Plot the data on a map to define the plume boundries and centerline.

b. Plume Definition

- 1. Direct the survey teams to:
 - Enter the plume until ≥ 0.1 mR/hr is detected.
 - Immediately exit the plume.
 - Report back the plume boundary location and radiation reading.
- 2. Record the Field Team data on Data Sheet 2, Offsite Survey Log.
- 3. Plot the data on a map to define the plume boundary.
- 3.2.4 IF field teams report a reading $\geq 1R/hr$, THEN immediately notify the EAD. A change in the emergency classification may be necessary.
- 3.2.5 Compare the field team data to the most recent PARs.
- 3.2.6 **IF** the field team data does **NOT** match the projected location of the plume, **THEN** immediately notify the EAD. A change to the PAR may be necessary.

Reference	RMT-2080-EOF-001	Rev. 1	Page 25 of 48
	Activation and Operation	of the EOF	
Attachment 10	Field Team Communi	actions	Pages:
ratucinnent 10	Field Team Communi	cations	23 - 25

3.3 Post Plume Phase

- 3.3.1 The post plume phase should be performed in 2 stages: (initial and long term)
 - a. Initial (Ground Deposition Foot Print)
 - 1. Direct the field monitoring teams to traverse the areas the plume covered starting close-in to the plant and working outward.
 - 2. Plot the results on a map to determine the extent of the ground deposition.
 - 3. WHEN the deposition footprint has been determined, THEN initiate the long term post plume phase sampling.
 - b. Long Term

NOTE: Though the emergency may have been terminated prior to entering the long-term post plume phase, these directions are intended to give the field team guidance for the collection of samples.

- 1. Direct the field teams to collect soil, water, snow, and vegetation samples as applicable within the ground deposition area. Take samples in locations to define deposition on the ground.
- 2. Direct the field teams to collect soil, water, snow, and vegetation samples as applicable outside the ground deposition area. Negative results are necessary to confirm no hazards are present.
- 3. Plot the sample positions on a map to allow for further deposition analysis.

Reference	RMT-2080-EOF-001	Rev. 1	Page 26 of 48	
Activation and Operation of the EOF				
		Pages: 26 - 27		

- Collect samples that are representative of the topography of the area unless otherwise specifically requested.
- 2 Change the volume or surface area of samples collected as conditions warrant. Note the changes in the comment section on the appropriate form.
- 3 Log all samples on Data Sheet 3, Environmental Sample Collection, giving a specific location listed in order of preference.
 - Physical location
 - On a map
 - Using landmarks; ensure sufficient references are documented to relocate the specific area.
- 4 Perform Plume Surveys, as directed:
- 4.1 Plume Traverse
 - 4.1.1 Traverse the route as instructed by the EOF, keeping the closed window probe outside the vehicle.
 - 4.1.2 Record the location and reading on Data Sheet 2, Offsite Survey Log, where the instrument indicates:
 - The leading edge of the plume (0.1 mR/hr)
 - The centerline (highest reading) of the plume
 - The trailing edge of the plume (0.1 mR/hr)
 - 4.1.3 Transmit the data to the EOF.
 - 4.1.4 **IF** an air sample was requested, **THEN** re-enter the plume to the instructed location and obtain the sample. This is normally performed at the plume centerline.

4.2 Plume Definition

- 4.2.1 Start the route as instructed by the EOF, keeping the closed window probe outside the vehicle.
- 4.2.2 Record the location and reading on Data Sheet 2,Offsite Survey Log, where the instrument indicates the leading boundary (> 0.1 mR/hr) of the plume.

Reference	RMT-2080-EOF-001	Rev. 1	Page 27 of 48	
Activation and Operation of the EOF				
Attachment 11	Attachment 11 Environmental Sampling			

- 4.2.3 Exit the plume.
- 4.2.4 Transmit the data to the EOF.
- 5 Obtain an air sample as follows:
 - Draw a minimum of 4 cubic feet of air.
 - Document all air sample data on the air sample envelope.
- 6 Obtain soil, snow, water, and vegetation samples as follows:
 - Use Data Sheet 3 for instructions for collection and documentation of environmental samples.

RMT-2080-EOF-001	Rev. 1	Page 28 of 48		
Activation and Operation of the EOF				
Shift Designatio	n .	Pages: 28 - 29		
	Activation and Operation of			

NOTE:	Obtain individual phone numbers from the Emergency Response Organization
	Phone Directory.

- 1 Managers coordinate shift turnovers to ensure plant conditions allow individuals to report to their respective facilities without undue risk or exposure.
- 2 Security Director coordinates and communicates any plant access restrictions with the security force.
- Finalize routing instructions prior to notifying any individuals.

Shift Start Time:

- 4 Obtain position lists specific to the OSC and TSC from 12-RMT-2080-OSC.001 and 12-RMT-2080-TSC-001.
- IF roadblocks have been established by local or state law enforcement, THEN the State EOC should be notified with the list of oncoming personnel to allow passage through roadblocks.
- 6 IF desired, THEN the Dialogic Paging system can be used to contact off-duty team members. Attachment 13, Dialogic Paging System gives detailed instructions for reprogramming and activation.

omit out i mio.	· · · · · · · · · · · · · · · · · · ·	
Routing Instructions:		
Position Title	Name	
Berrien County Liaison		
Boardwriter		
Communicator – Berrien County Sheriff Department		
Communications Director		
Communicator - Michigan State Police		
Communicator -ENS		

Reference	RMT-2080-EOF-001	Rev. 1	Page 29 of 48	
Activation and Operation of the EOF				
Attachment 12 Shift Designation Pages:				
111110111111111111111111111111111111111	Simt Designation	11	28 - 29	

Communicator -HPN	
Computer Analyst	
Emergency Director	·
Emergency Planning	
Engineering Design & Site Services Manager	
Environmental Assessment Coordinator (1)	
Environmental Assessment Coordinator (2)	
Environmental Assessment Director	
Fax Operator	
Field Monitoring Team Coordinator	
Industry Support Communicator	
Michigan State Police Liaison	
Operations Advisor	
Reactor Physics Analyst	
Regulatory Affairs Coordinator	
Runner (1)	
Runner (2)	
Security Director	
Scheduling & Planning Manager	

RMT-2080-EOF-001	Rev. 1	Page 30 of 48		
Activation and Operation of the EOF				
Dialogic Paging Sy	rstem	Pages: 30 - 31		
	ctivation and Operation			

NOTE: The Dialogic Paging system can be reprogrammed to contact off-duty members of the Emergency Response Organization. These actions should only be performed from one facility, preferably the EOF, and should be done to provide subsequent staffing for ALL facilities.

- 1 Prior to contacting Dialogic:
- 1.1 Notify the facility managers to instruct all ERO members who are currently in a facility, NOT to respond to the page.
- 1.2 Prescript the instructions (Dialogic refers to this as a greeting) that will be recorded prior to the activation of the pagers. Consider:
 - 1.2.1 All ERO pagers will be activated. You cannot select a specific team for response.
 - 1.2.2 Having ERO members contact the EOF at particular phone number(s) to receive further instructions after accepting a position.
 - 1.2.3 Where and how the individuals should report. If a release has occurred, it may be advantageous to have member's report to the EOF for transport to the plant.
 - 1.2.4 What time the ERO members are to report.
- 1.3 Obtain the password code, located in the Security Directors' lock box in the EOF.
- To change the recorded instructions for responding ERO members and activate the scenario:
- 2.1 Call Dialogic. The Dialogic Pager Activation phone number can be obtained from the Emergency Response Organization Phone Directory.
- 2.2 The system will ask you for your company ID number, followed by the # sign. Enter 1344 #
- 2.3 The system will ask for your scenario activation password, followed by the # sign. Enter the password code followed by the # sign.

Reference	RMT-2080-EOF-001	Rev. 1	Page 31 of 48	
Activation and Operation of the EOF				
Attachment 13 Dialogic Paging System Pages: 30 - 31				

- 2.4 To start a scenario, enter the scenario ID followed by the # sign or press # alone for more options. Enter 911 #
- 2.5 The system will state:
 - 2.5.1 To listen to the current scenario message, Press 1
 - 2.5.2 To re-record the scenario message, Press 2
 - The system will direct you to record the new message followed by the # sign.
 - 2.5.3 To start the scenario, Press 3
 - The system will respond with "The scenario is building". Press # and hang up.
 - 2.5.4 To return to the main menu, Press #
 - The system will give more options to consider or press # to end this call.
- 2.6 Reports will be faxed to the EOF containing the names of the individuals who have responded and accepted a position.
- 2.7 Forward results to the appropriate facility managers.

Reference	RMT-2080-EOF-001	Rev. 1	Page 32 of 48	
Activation and Operation of the EOF				
Attachment 14 Logistical Support		Page:		

NOTE:

The Scheduling and Planning Manager can provide the following services to the ERO. This position has the authority to purchase or lease materials and equipment necessary to support the ERO and the Plant and to generate contracts necessary for the augmentation of staffing.

- Arranging lodging for ERO personnel who cannot return to their homes because of an evacuation.
- Arranging lodging for personnel responding from outside agencies.
- Providing for the purchase of food to ERO facility members and support personnel.
- Purchasing or renting equipment necessary to mitigate or respond to emergencies.
- Providing for additional assistance from contractors or other agreement facilities.
- Arranging for delivery of equipment and materials.
- Providing assistance for contractual issues.
- Other services as deemed necessary by the Emergency Director.
- 1 Obtain permission from the Emergency Director to initiate the requested actions.
- 2 Generate the appropriate documents necessary to perform the requested action.
- 3 UPON completion of the documents, THEN obtain the Emergency Directors approval.
- 4 IF the materials need to be brought into the 10-mile Emergency Planning Zone, THEN:
 - Obtain concurrence from the Environmental Assessment Director for delivery restrictions.
 - Discuss the delivery route with the TSC Security Director.
 - Ensure the State of Michigan EOC has been notified of the intended delivery and route.
- 5 Implement the approved request, including any restrictions.

Reference	RMT-2080-EOF-001	Rev. 1	Page 33 of 48
Activation and Operation of the EOF			
Attachment 15	County Communica	ations	Pages: 33 - 34

NOTE: The Berrien County Emergency Operations Center may not be operational immediately after the declaration of a Site Area or General Emergency.

Continue to communicate with the Berrien County Sheriff's Department until the Berrien County EOC is operational.

1 Contact the appropriate Berrien County facility based on the emergency classification.

1.1 Alert

- 1.1.1 Contact the Berrien County Sheriff's Department.
- 1.1.2 **UPON** receipt of an EMD-32a or EMD-32b, **THEN** provide the following information:
 - a. Provide your name, Title (BCSD Communicator), and your telephone number.
 - b. Provide the remainder of the information as entered on the EMD-32.
- 1.1.3 **UPON** receipt of any inquiries from the Sheriff's Department, THEN follow the instructions on the Information Request attachment.
- 1.1.4 UPON completion of each communication with the Sheriff's Department, THEN hang up the phone and re-establish communications when necessary.

1.2 SAE OR GE

- 1.2.1 Contact the Berrien County Liaison at the Berrien County EOC. This individual is provided to the county EOC by AEP and is an AEP employee.
- 1.2.2 **UPON** receipt of an EMD-32, **THEN** provide the following information:
 - a. Provide your name, Title (BCSD Communicator), and your telephone number.
 - b. Provide all information except the Protective Action Recommendations on the EMD-32a.
- 1.2.3 **UPON** receipt of any inquiries from the Berrien County EOC, THEN follow the instructions on the Information Requests attachment.

Reference	RMT-2080-EOF-001	Rev. 1	Page 34 of 48
Activation and Operation of the EOF			
Attachment 15	County Communication	ations	Pages: 33 - 34

1.2.4 Maintain constant communications with the Berrien County EOC. Do not hang up the phone.

RMT-2080-EOF-001	Rev. 1	Page 35 of 48		
Activation and Operation of the EOF				
Attachment 16 ENS Communications				
	Activation and Operation of	Activation and Operation of the EOF		

- 1 Contact the NRC using the Emergency Notification System phone.
- Dial the MAIN number listed on the phone. IF there is no answer, THEN dial the BACKUP number.
- 1.2 Once communications is established state the following:
 - "This is the D. C. Cook Emergency Operations Facility. This is an initial contact notification to ensure communications have been established. The EOF is not activated at this time. Communications relative to plant status should continue from the control rooms.
- Provide the NRC Duty Officer with the following information relative to plant conditions:
 - Current emergency classification.
 - Emergency Condition Category (ECC) under which the emergency was declared. Include the ECC number, title, and a brief description of the actual event.
 - Current plant conditions.
- 3 Continue to notify the NRC of changes such as:
 - Changes to the emergency classification
 - Status of injured personnel
 - Equipment unavailability
 - Damage control team status
 - Calculated leak rates
 - Core damage assessment
 - Fission product barrier status
- 4 UPON receipt of any inquiries from the NRC that cannot be answered using data already available from other sources, THEN follow the instructions on the Information Requests attachment.

Reference	RMT-2080-EOF-001	Rev. 1	Page 36 of 48					
Activation and Operation of the EOF								
Attachment 17	Attachment 17 HPN Communications							

- 1 Contact the NRC using the Health Physics Notification System phone.
- Dial the MAIN number listed on the phone. IF there is no answer, THEN dial the BACKUP number.
- 1.2 Once communications is established state the following:
 - "This is the D. C. Cook Emergency Operations Facility. This is an initial contact notification to ensure communications have been established. Communications relative to Health should continue from the control rooms."
- 2 Provide the NRC Duty Officer with the following information relative to plant conditions:
 - Current emergency classification.
 - Emergency Condition Category (ECC) under which the emergency was declared. Include the ECC number, title, and a brief description of the actual event.
 - Current plant conditions.
- 3 Continue to notify the NRC of changes from the EMD-32 such as:
 - Changes to the emergency classification
 - Meteorological data
 - Radiological releases
 - Calculated offsite dose and dose rates
 - Field Team monitoring data
 - PAR
- 4 UPON receipt of any inquiries from the NRC that cannot be answered using data already available from other sources, THEN follow the instructions on the Information Requests attachment.

Reference	RMT-2080-EOF-001	Rev. 1	Page 37 of 48					
Activation and Operation of the EOF								
Attachment 18	Page: 37							

- 1 Contact the Control Room and the MSP Operations Center by:
- 1.1 Using EOF phone extension 1088, pick up the handset and listen for a dial tone.
- 1.2 **IF** a dial tone is present, **THEN** using another phone, contact the Control Room MSP Communicator by dialing extension 1088.
- 1.3 IF a dial tone is NOT present, THEN identify yourself and wait for a reply from the Control Room and/or the State.
- WHEN communications is established, THEN provide the current activation status of the EOF.
- 3 IF, after activation, the EOF is NOT capable of faxing EMD-32 forms to the State, THEN transmit the information verbally.
 - Provide your name, Title (MSP Communicator), and your telephone number (1-616-465-5901, Ext. 1088).
 - Provide the remainder of the information as entered on the EMD-32a or EMD-32b.
- 4 UPON receipt of any inquiries from the MSP, that cannot be answered using data already available from other sources, THEN follow the instructions on the Information Request attachment.

IReference	RMT-2080-EOF-001	Page 38 of 48							
Activation and Operation of the EOF									
Attachment 19	Page: 38								

- 1 UPON declaration of an Alert, SAE, or GE, and activation of the EOF, THEN contact the following agencies. Obtain phone numbers and contact names from the Emergency Response Organization Phone Directory.
 - American Nuclear Insurers (ANI)
 - Institute of Nuclear Power Operators (INPO)
 - Westinghouse
- 2 Provide each with the following information:
- 2.1 ANI
 - Plant status
 - Current emergency classification
 - Offsite PAR
 - Offsite Protective Action Orders
- 2.2 INPO
 - Plant status
 - Unavailable equipment
 - Current emergency classification
 - Offsite PARs
 - Offsite Protective Action Orders
- 2.3 Westinghouse
 - Plant status
 - Unavailable equipment
 - Current emergency classification
- 3 UPON receipt of any inquiries that cannot be answered using data already available from other sources, THEN follow the instructions on the Information Requests attachment.

IReference	IReference RMT-2080-EOF-001 Rev. 1							
Activation and Operation of the EOF								
Attachment 20	Page:							
r tituoiminont 20	Information Requ		39					

NOTE: Information requests are designed to document questions and answers for information not normally available.

- 1 Generating a request.
- 1.1 Print information request on all-purpose forms in complete and legible format.
- 1.2 Supply the following minimal information:
 - Position requesting the information.
 - Position the request is being sent to.
 - Detailed question.
- 1.3 Retain the bottom copy.
- 1.4 Forward the request to the Communications Director.
- 1.5 The Communications Director:
 - 1.5.1 Reads the request and ask for clarification if necessary.
 - 1.5.2 Forwards the request to the appropriate position.
- 2 Responding to a Request.
- 2.1 Print responses in complete and legible format.
- 2.2 Forward the response to the Communications Director.
- 2.3 The Communications Director:
 - 2.3.1 Forwards a copy of the response to the originator.
 - 2.3.2 Retains the original message form.

Reference	RMT-2080-EOF-001	Rev. 1	Page 40 of 48							
	Activation and Operation of the EOF									
Data Sheet 1	Data Sheet 1 Meteorological Forecast									

	Cook Nuclear Plant te Forecast Obtained: /	
Forecast	Source: Murray & Trettle NOAA Other	Contract to the contract of th
A. Ei	ight Hour Forecast	
1. 2. 3. 4. 5.	Wind Speed: Differential Temperature: Stability Class:	Miles Per Hour •F or •C
		· · · · · · · · · · · · · · · · · · ·
3. Tv	wenty-four Hour Forecast	
1. 2. 3. 4. 5.	Wind Speed: Differential Temperature: Stability Class:	Miles Per Hour •F or •C

.

Page 41 of 48		Page: 41
Rev. 1	the EOF	
RMT-2080-EOF-001	Activation and Operation of the EOF	Offsite Survey Log
Reference		Data Sheet 2

Initials														
0	Reading													
ng Edge	Location													
	Reading													
Centerline	Location													
	Reading						***							-
Leading Edge	Location			•	The state of the s									
Time													-	•
Date														

Reference	RMT-2080-EOF-001	Rev. 1	Page 42 of 48					
Activation and Operation of the EOF								
Page:								
Data Sheet 3	Environmental Sample (Collection	42					

Environmental Sample Collection Data Sheet								
Date: Time: Sampled By:								
Type: Soil Snow Water Vegetation								
Location: Location								
Comments:								
Soil								
1) Do NOT obtain samples from disturbed areas or under trees containing foliage.								
2) Remove sufficient soil from the surface of the area to fill a 4-liter sample container.								
3) Mark all containers with the date, time, and samplers initials.								
Surface area of material removed cm ²								
Snow								
1) Do NOT obtain samples from drifts, disturbed areas, or under trees containing foliage.								
2) IF additional snow has fallen since the release occurred, THEN remove fresh snow to obtain a								
representative sample.								
3) IF it was snowing during the plume phase, THEN take the sample to the depth of the								
accumulated snow exposed to the plume.								
4) Collect a minimum of 12-liters of snow.								
5) Mark all containers with the date, time, and samplers initials.								
Surface area of material removed cm ² Depth cm								
Water								
1) Do NOT collect samples from stagnant pools under trees containing foliage.								
2) Avoid disturbing and collecting the surrounding sediment.								
3) Collect a minimum of 4 liters of water.								
4) Mark all containers with the date, time, and samplers initials.								
· · · · · · · · · · · · · · · · · · ·								
Sample obtained from a: Stagnant Pool Running Tributary								
Vegetation								
1) Do NOT obtain samples from disturbed areas or under trees containing foliage.								
2) Cut as close to the root as possible, when sampling ground vegetation.								
3) Remove material from the outer, exposed areas only, when sampling trees or bushes.								
4) Collect only the normally edible portion, when sampling foodstuffs.								
5) Collect a minimum of 12 liters of vegetation.								
6) Mark all containers with the date, time, and samplers initials								
Surface area of material removed cm ²								

Reference	Reference RMT-2080-EOF-001 Rev. 1								
Activation and Operation of the EOF									
Figure 1 Definitions and Abbreviations Page 43 - 4									

Term	Meaning
AEP	American Electric Power
ANI	American Nuclear Insurers
BCSD	Berrien County Sheriff's Department
CDE	Committed Dose Equivalent
CLOCA	Containment Loss of Coolant Accident
DAP	Dose Assessment Program
EAD	Environmental Assessment Director
ECC	Emergency Condition Category
ED	Emergency Director
EMD-32a	Nuclear Plant Event Notification form
EMD-32b	Nuclear Plant Event Technical Data form
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
ENS	Emergency Notification System
ERO	Emergency Response Organization
FMT	Field Monitoring Team
GE	General Emergency
HPN .	Health Physics Network
INPO	Institute of Nuclear Power Operations
JPIC	Joint Public Information Center
KI	Potassium Iodine thyroid blocking agent

Reference	RMT-2080-EOF-001	Rev. 1	Page 44 of 48
	Activation and Operation	of the EOF	
Figure 1	Definitions and Abbre	viations	Pages: 43 - 44

Term	Meaning
MSP	Michigan State Police
NOAA	National Oceanic and Atmospheric Administration
NRC	Nuclear Regulatory Commission
OSC	Operations Support Center
PAO	Protective Action Order
PAR	Protective Action Recommendation
PC	Personal Computer
PET	Plant Evaluation Team
PPC	Plant Process Computer
PORV	Power Operated Relief Valve
RDR	Real-Time Data Repository
RMS	Radiation Monitoring System
SAE	Site Area Emergency
STD	Standard Deviation
TEDE	Total Effective Dose Equivalent
TSC	Technical Support Center
X/Q	Mathematical term for Dispersion Coefficient
ΔΤ	Net Temperature Difference
ΔΖ	Net Vertical Distance

Reference	RMT-2080-EOF-001	Rev. 1	Page 45 of 48
Activation and Operation of the EOF			
Figure 2 Position Descriptions Pages: 45 - 48			Pages: 45 - 48

The position descriptions provided are intended as guidance. Deviations and additions to these descriptions are allowed as long as the accomplished objectives can be achieved.

Berrien County Liaison

- Reports to the Berrien County EOC at an SAE or GE. He should be dispatched at an Alert if escalation is expected.
- Assists county personnel with interpretation of data supplied by plant and state facilities as necessary.

Boardwriter

- Reports to the Communications Director.
- Obtains data from the other facilities and the EOF that is considered common to all facilities and the affected control room in a chronological order.
- Provides other facilities with information and decisions generated in the EOF.
- Maintains the Emergency classification Board with the proper emergency classification, classification time, and reasons for the classification.
- Documents incoming messages or inquiries to other EOF personnel on all-purpose message forms and forwards them to the Communication Director.
- Provides the EOF runners with copies of board data at, at least, 15-minute intervals.

Berrien County Sheriff Department Communicator

- Reports to the Communications Director.
- Prior to activation of the Berrien County EOC, provides plant status to the county.
- Upon activation of the Berrien County EOC, provides plant status and radioactive release data to the Berrien County Liaison.

Communications Director

- Reports to the Emergency Director.
- Directs and coordinates communication activities within the facility.

Computer Analyst

- Reports to the Communications Director.
- Provides for all repair/replacement of computer related equipment in the EOF.
- Operates the PPC/RDR used to display data throughout the EOF.

Emergency Director

- Is responsible for the overall command and control of the emergency.
- Assumes responsibility for Classification, Notification and PAR's.
- Communicates with senior state and county officials on plant conditions and PARs.
- Reviews press releases.
- Directs and coordinates EOF activities.

Reference	RMT-2080-EOF-001	Rev. 1	Page 46 of 48
	Activation and Operation of the EOF		
Figure 2	Figure 2 Position Descriptions		Pages: 45 - 48

- Activates the EOF.
- Maintains regular communication with the other facility managers on the Managers Bridge.
- Updates EOF members through facility briefs on the status of the emergency approximately every 30 minutes.
- Informs the Environmental Assessment Director of changes in plant parameters that may effect off-site releases or PARs.

Emergency Planning

- Reports to the Emergency Director
- Provides facility oversite.
- Provides guidance to the ERO to ensure critical functions are completed in a timely manner.

Engineering Design & Site Services Manager

- Reports to the Emergency Director.
- Coordinates engineering and technical support from sources outside the ERO.
- Provides engineering support and analysis to the EOF.

ENS Communicator

- Reports to the Communications Director.
- Provides information to the NRC relative to plant equipment conditions and plant status.

Environmental Assessment Coordinator

- Reports to the Environmental Assessment Director.
- Evaluates plant effluent readings for indications of radiological releases.
- Evaluates off-site field team data.
- Performs dose assessment.
- Generates EMD-32 Nuclear Plant Accident Notification forms.
- Make recommendations to the Environmental Assessment Director relative to radioactive releases and plant status.

Environmental Assessment Director

- Reports to the Emergency Director.
- Directs and coordinators offsite radiological assessment.
- Provides basic direction to the Environmental Assessment Coordinators for performing dose assessment.
- Generates PARs
- Directs the Field Team Coordinator for placement of survey vehicles.
- Provides overall radiological habitability assessments of the EOF.

Reference	RMT-2080-EOF-001	Rev. 1	Page 47 of 48
	Activation and Operation	of the EOF	
Figure 2	Position Descripti	ons	Pages: 45 - 48

Fax Operator

- Reports to the Communications Director.
- Provides Fax services to personnel within the EOF.
- Forwards all copies of incoming Fax's to the facility Runners for distribution and maintenance.
- Forwards all original outgoing Fax's and data sheets to the Communications Director.

Field Monitoring Team Coordinator

- Reports to the Environmental Assessment Director.
- Directs off-site monitoring teams for tracking of radioactive releases (Plumes).
- Directs off-site monitoring teams for collection of post plume samples.
- Provides data plots to the Environmental Assessment Team showing plume locations and footprints.

HPN communicator

- Reports to the Communications Director.
- Provides information to the NRC relative to radiological conditions on-site and off-site releases.
- Provides PARs and Protective Action Orders information.

Industry Support Coordinator

- Reports to the Communications Director.
- Provides communications links to ANI, Westinghouse, and INPO relative to plant status and radioactive releases.

Michigan State Police Communicator

- Reports to the Communications Director
- Provides plant status and PAR data to the State of Michigan EOC.

Michigan State Police Liaison

- Reports directly to the State of Michigan Emergency Operations Center in Lansing, Michigan.
- Reports to the State of Michigan EOC at a SAE or GE. He should be dispatched at an Alert if escalation is expected.
- Obtains answers to inquiries form the State of Michigan and ensuring these responses are relayed to the State.
- Assists state personnel with interpretation of data supplied by plant facilities as necessary.

Reference	RMT-2080-EOF-001	Rev. 1	Page 48 of 48
	Activation and Operation of	of the EOF	
Figure 2	Position Descripti	ons	Pages: 45 - 48

Operations Advisor

- Reports to the Emergency Director.
- Assists the ED with classification determinations.
- Provides EOF personnel and off-site agencies with plant status clarifications.

Reactor Physics Analyst

- Reports to the Engineering Design & Site Services Manager.
- Provides EOF personnel with the current core status.
- Determines the current reactor coolant status used in dose assessment.
- Coordinates core damage assessment with TSC-PET personnel.

Regulator Affairs Coordinator

- Reports to the Emergency Director.
- Provides guidance to the Emergency Director for license-based decisions and actions.
- Primary EOF contact for the NRC site response team.

Runner

- Reports to the Communications Director.
- Picks up and delivers copies of forms generated by EOF personnel needing either faxing to other facilities or duplication and distribution to EOF personnel.

Scheduling & Planning Manager

- Reports to the ED and Engineering Design and Site Services Manager.
- Provides support for items such as meals, transportation, temporary lodging, and other logistical issues for personnel within the ERO and other organizations responding to the facility.
- Purchases, leases, or contracts with suppliers for equipment, materials, or personnel necessary to support the emergency.

Security Director

- Reports to the Emergency Director.
- Maintains control of personnel entering and exiting the facility.
- Maintains control of unauthorized personnel within the owner controlled area at the Buchanan Office Building.
- Provides transportation to and from the plant as necessary.
- Arranges shift designations.

Telecommunications Personnel

- Reports to the Communications Director.
- Provide any communications equipment or repair/replacement necessary to support the emergency facilities.

REVIEW AND APPROVAL TRACKING FORM

Procedure Information					
Number: RMT-20	80-EOF-001	Rev. <u>1</u>	<u> </u>	Change:	0
Title: Activation	and Operatio	on of the EOF			
Category (Select/One C	a springer and the fact that the second			, 25. St.	
Correction (Full Proce	dure)	Change (Full Procedure) with R	Review of C	hange Only	
Correction (Page Subst		Change (Page Substitution) with			dy
☐ Cancellation		New Procedure or Change with	Full Revie	w	
Superseded (list supers	eding procedures):			
Associated Configurati	ion Impact Ass	essments:	isi.		
Change Driver/CDI Track	ing No(s).:				⊠ N/A
Required Reviews: া					
Cross-Discipline Review	vs:	Programmatic Reviews:			
	raining	☐ ALARA	Per	formance A	ssurance
Maintenance W	ork Control	☐ Bus. Services Proc Grp	☐ Rea	activity Mgn	nt Team
□ NDM		Component Engineering		S (Safety &	
Operations		Design Engineering		veillance Se	- 1
PA/PV		Emerg Oper Proc Grp	☐ Sys	tem Enginee	ring
Reg Affairs		☐ Environmental		O 11	
	one Required	☐ ISI/IST Coordinator	⊠ Nor	ne Required	
☐ Cognizant Org Revie	- A	indu Graffonino			120/02
☐ Technical Review:		S Con al m			121/02
Concurrence:				Property (Street	
Ops Mgr Concurre	ence:	N/A / /		Date:	//_
Owner Concurrence	ce:	a self		Date: 3	121/02
Package Check:					
Updated Revision Summ	ary attached?			⊠ Yes	
10 CFR 50.59 Requirem		Tracking No.: 2002-05	20-00		□ N/A
Implementation Plan dev	•	/ (Ref/Step 3.4.18)		⊠ Yes	□ N/A
Package Complete:	Xa	I'LLL		Date: 3	1
Approvals:					
PORC Review Required	•	Yes No	M	ltg. No.:_3	3932 9m
Administrative Hold Stat	us: Rel	eased Reissued N	_	R No.:	
Approval Authority Revi	iew/Approval:	Xi block		Date: 4	B 107/
Expiration Date/Ending		UNIA	Effective	Date: 5	
Periodic Review:		of Central Herman			
Periodic Review conduct	ed?	(Data Sheet 5 Comple	te)	Yes	⊠ No
Follow-up Actions:					Tank Carlo mendanca est. 20
Commitment Database U		- A KO DOJET OLOVIC - ANGRED BELLAND FOR DESIGNAR, ALL DAY A SHEED BELLANDED	· Correction of College	Yes	⊠ N/A
	•	records that could affect record r	etention?	Yes	⊠ N/A
	3. 3	The man could alloct footing i	OLUMINI.	100	MINA
NUCLEAR DOCUMENT				航货配在1 5:	
NUCLEAR DOCUMENT MANAGEMENT SECTION	Office Infor	mation For Form Trackin	ız Onlv -	Not Part	of Form
MAY 0 3 2002 MAY 0 3 2002 CONTROLLED DOCUMENT					
MAY 0 3 2002	This form is de	rived from the information in PM	1P-2010-PR	RC-002,	
CONTROLLED	Procedure Corr	ection, Change, and Review, Re-			
CONTROLLED DOCUMENT	Review and Ap	proval Tracking Form.		Page	of !

Number:	RMT-2080-EOF-001	Revision: 1	Change: 0

Title: <u>Activation and Operation of the EOF</u>

Revision 1 eliminates the EOF Manager position and positions which were required for communication purposes when the JPIC was located in the Lake Michigan Mendal Center. This revision also incorporates changes made because of changes in the State of Michigan notification forms and processes and the changes to the Dose Assessment computer program. Revision 1 also adds an attachment for classification. Though classifications will continue using the classification procedure, the new attachment provides instructions for follow-up actions not in the classification procedure.

Section or Step	Change/Reason For Change
2.1	Change: Changed EOF Manager to Emergency Director (ED)
	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.
2.6	Change: Under "Briefings" changed EOF Manager to Emergency Director
	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.
2.6	Change: Under "Classification" changed reference from PMP-2080- EPP-001 to Attachment 7.
	Reason: The Classification procedure does not contain all actions necessary by plant personnel when a classification is upgraded. Attachment 7 now provides those supplemental instructions.
2.6	Change: Changed the numbering for references 7 - 19 to 8 - 20.
	Reason: Attachment 7, "Classification" was added to the procedure. Subsequent attachments were renumbered accordingly.
Step 3.1.2	Change: Corrected Use Reference for the Core Damage Assessment Procedure
	Reason: Incorrect reference. 12-RSM-2080-CDA-002 does not exist.
Attachment 1,	Change: Added exception for ED
Note in Step 1.3	Reason: Non-qualified individuals cannot fill the Emergency Director position.
Attachment 1,	Change: Deleted EOF Manager
Step 1.3	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.

Office Information For Form Tracking Only - Not Part of For	an 🖖 📜
This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction,	_
Change, and Review, Rev. 9a.	Page $\underline{2}$ of $\underline{7}$

Number:

RMT-2080-EOF-001

Revision: 1

Change: 0

Title:

Activation and Operation of the EOF

Section or Step	Change/Reason For Change
Attachment 1, Step 2	Change: Clarified step to directive statements. Changed times based on new state requirements from 15 minutes to 30 minutes for EMD-32b Technical Data sheets. Added bullet to determine the time the last EMD-32a or b was issued from the control rooms.
	Reason: Emergency Directors were not assuming responsibilities when the facility activated. The State of Michigan requires EMD-32b forms on a 30-minute cycle. The addition of the bullet will help Emergency Directors from transmitting duplicate notification forms to the state and county during the transition.
Attachment 1,	Change: Clarified steps to directive statements
Steps 3, 4, and 5	Reason: Provide Emergency Directors with more distinct instructions for steps to activate the EOF.
Attachment 2,	Change: Added "Facility Priorities"
Step 3.1	Reason: Provide briefer with additional instructions to enhance brief.
Attachment 4	Change: Attachment was completely revised based on the new Dose Assessment Program (DAP).
	Reason: The new DAP computer program has on screen prompts and instant helps available for all fields. The program also allows the user to move between screens unlike the old version. Therefore, many of the instructions in revision 0 to this procedure are no longer necessary as they are available in the program.
Attachment 6, Step 1.5	Change: Moved the "Day" heading to the right and inserted a line to block the section.
	Reason: The line is necessary to indicate that the Wind Speed is applicable to the Day and Night sections of the table. Previously the wind speed appeared to only apply to the Day section of the table.

Office Information For Form Tracking Only – Not Part of Form This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction, Change, and Review, Rev. 9a. Page <u>9</u> of <u>7</u>

Number:

RMT-2080-EOF-001

Revision: 1

Change: 0

Title:

Activation and Operation of the EOF

Section or Step	Change/Reason For Change
Attachment 7	Change: Added attachment 7, "Classifications".
	Reason: PMP-2080-EPP-101 does not supply instructions for completion of the EMD-32a, Nuclear Plant Event Notification form, additional instructions for transmitting the information to the appropriate off-site agencies, or notifying control room personnel for follow-up actions. Attachment 7 now provides these instructions.
Attachment 8	Change: Added steps to include the use of the EMD-32a and EMD-32b notification forms.
	Reason: The State of Michigan has revised the EMD-32 notification form and added an EMD-32 technical notification form. The attachment was changed to clarify the proper use of the new forms and to provide instructions for notification of the state or county centers.
Attachment 9, Step 7	Change: Added instructions for the EMD-32a and EMD-32b forms along with appropriate time frames. Changed instructions for distribution to JPIC personnel.
	Reason: The State of Michigan has revised the EMD-32 notification form and added an EMD-32 technical notification form. The JPIC has moved to the Buchanan office building. Transmission is no longer necessary.
Attachment 12, Position Table	Change: Deleted PPC Operator, Communicator-ENC/JPIC, and EOF Manager.
	Reason: Positions are being eliminated. The EOF Computer Analyst is assuming the PPC Operators duties. The ED is assuming the EOF Managers duties. The ENC/JPIC position is no longer needed because the JPIC is moving to the Buchanan office building.
Attachment 14,	Change: Deleted EOF Manager
Step 1	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.

	Office Information	i För Form Tracki	ng Only - Not Part	of Form
ļ	This is a free-form as called out in PM	1P-2010-PRC-002, Proc	edure Correction,	
	Change, and Review, Rev. 9a.		ė.	Page 4 of 1

Number:

RMT-2080-EOF-001

Revision: 1

Change: 0

Title:

Activation and Operation of the EOF

Section or Step	Change/Reason For Change
Attachment 15,	Change: Changed EMD-32 to EMD-32a or EMD-32b.
Step 1.1.2	Reason: The EMD-32 notification form was revised to two forms, the EMD32a and EMD-32b.
Attachment 15,	Change: Removed reference to Items used on the EMD-32 forms.
Steps 1.1.2.a and b.	Reason: The new EMD-32 forms do not have item number references anymore.
Attachment 15, Step 1.2.2.b	Change: Combined sub-steps b, c, and d. Removed reference to Items used on the EMD-32 forms. Changed wording to provide the same instructions but with reference to the appropriate section of the new EMD-32 forms.
	Reason: The new EMD-32 forms do not have item number references. The wording change specifically addresses the PAR section of the EMD-32a form.
Attachment 18,	Change: Removed reference to Items used on the EMD-32 forms.
Step 3	Reason: The new EMD-32 forms do not have item number references anymore.
Data Sheet 3, Under Vegetation,	Change: Clarified instructions to state the amount of vegetation to be collected.
Step 5	Reason: Previous instruction lead users to believe a 12 liter sample container existed.
Figure 1 under EMD-32	Change: Deleted the EMD-32 and added the EMD-32a and EMD-32b along with the appropriate meanings.
	Reason: The EMD-32 form was replaced with the EMD-32a and EMD-32b forms when the State of Michigan revised the forms.
Figure 2, Under	Change: ChangedEOC at a SAE toEOC at an SAE
Berrien County Liaison	Reason: Grammatically incorrect.
Figure 2, Under	Change: Changed EOF Manager to Emergency Director
Communications Director	Reason: The Communications Director now reports to the Emergency Director.

Office Information For Form Tracking Only - Not Part of Fo	rm -
This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction,	<i>-</i> 0
Change, and Review, Rev. 9a.	Page \int of $\frac{\gamma}{2}$

Number:

RMT-2080-EOF-001

Revision: 1

Change: 0

Title:

Activation and Operation of the EOF

Section or Step	Change/Reason For Change		
Figure 2, Under	Change: Deleted bullet for assuming duties of EOF Manager		
Communications Director	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities. The Communications Director is not qualified to assume the ED duties.		
Figure 2, Under Computer Analyst	Change: Added bullet to include PPC/RDR operations responsibilities to this position.		
	Reason: This responsibility belonged to the Plant Process Computer Operator. That position has been eliminated.		
Figure 2, Under Emergency Director	Change: Deleted bullet for ED to assume the EOF Managers responsibilities. Added bullets to include EOF Managers responsibilities that were eliminated from the EOF Managers position description.		
	Reason: The EOF Manager position is being eliminated therefore this is a redundant statement. The ED is assuming the activation and communications responsibilities from the EOF Manager.		
Figure 2, Under	Change: Added Position		
Emergency Planning	Reason: Position added to provide over site to the ED during emergency situations.		
Figure 2, Under	Change: Removed the position		
ENC/JPIC Communicator	Reason: The JPIC has been moved to the Buchanan Office Building. This interface is no longer necessary since individuals in the EOF and JPIC can now interface directly without going through a communicator.		
Figure 2, Under	Change: Changed EOF Manager to Emergency Director		
Engineering Design & Site Services Manager	Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.		
Figure 2, Under ENS	Change: Moved the position in the figure into the correct alphabetical order.		
Communicator	Reason: Order correction.		

Office Information For Form Tracking Only - Not Part of Fo	em	
This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction,	,	
Change, and Review, Rev. 9a.	Page 6	of <u>7</u>

Number:

RMT-2080-EOF-001

Revision: 1

Change: 0

Title:

Activation and Operation of the EOF

Section or Step	Change/Reason For Change	
Figure 2, Under Environmental Assessment Director	Change: Changed EOF Manager to Emergency Director Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.	
Figure 2, Under EOF Manager	Change: Deleted EOF Manager position description from the figure. Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.	
Figure 2, Under HPN Communicator	Change: Moved the position in the figure into the correct alphabetical order. Reason: Order correction.	
Figure 2, Under Operations Advisor	Change: Added the new position. Reason: Position added to assist the ED with Emergency Classifications and interpretation of plant conditions.	
Figure 2, Under Plant Process Computer Operator	Change: Deleted Plant Process Computer Operator position description form-the figure Reason: The PPC Operator position is being eliminated. The Computer Analyst is assuming these responsibilities.	
Figure 2, Under Regulatory Affairs Coordinator	Change: Changed EOF Manager to Emergency Director Reason: The EOF Manager position is being eliminated. The ED is assuming these responsibilities.	

Office Information For Form Tracking Only - Not Part of Form

This is a free-form as called out in PMP-2010-PRC-002, Procedure Correction, Change, and Review, Rev. 9a.

Page 7 of 7

AEE AMERICAN ELECTRIC POWER AEF. America's Energy Partner-	RMT-2080-EOF-001	Rev. 1	Page 1 of 48		
	Activation and Operation of the EOF				
Reference		Effe	ctive Date: 5/3 62		
P. E. Holland	P. E. Holland	Emergency Planning			
Writer	Owner	Cognizant Organization			

TABLE OF CONTENTS

1 PURPOSE	AND SCOPE	

5 REFEREN	CES	,
Attachment 1:	Activation	6
Attachment 2:	Briefings	8
Attachment 3:	Habitability	9
Attachment 4:	Dose Assessment	10
Attachment 5:	Meteorological Data	13
Attachment 6:	Pasquill Category	15
Attachment 7:	Classifications	16
Attachment 8:	Protective Action Recommendations (PAR)	18
Attachment 9:	Document Transmission/Distribution	21
Attachment 10:	Field Team Communications	23
Attachment 11:	Environmental Sampling	26
Attachment 12:	Shift Designation	28
Attachment 13:	Dialogic Paging System	30
Attachment 14:	Logistical Support	32

AMERICAN' ELECTRIC POWER Alth-America's Energy further-	RMT-2080-EOF-001	Rev. 1	Page 2 of 48			
	Activation and Operation of the EOF					
Reference	Reference Effective Date: 5/3/62					
P. E. Holland	P. E. Holland P. E. Holland Emergency Planning					
Writer	Owner	Cognizant Organization				

Attachment 15:	County Communications	33
Attachment 16:	ENS Communications	35
Attachment 17:	HPN Communications	36
Attachment 18:	Michigan State Police Communications	37
Attachment 19:	External Support	38
Attachment 20:	Information Requests	39
Data Sheet 1:	Meteorological Forecast	40
Data Sheet 2:	Offsite Survey Log	41
Data Sheet 3:	Environmental Sample Collection	42
Figure 1:	Definitions and Abbreviations	43
Figure 2:	Position Descriptions	45

Reference	RMT-2080-EOF-001	Rev. 1	Page 3 of 48	
Activation and Operation of the EOF				

1 PURPOSE AND SCOPE

- 1.1 This procedure provides guidance to Emergency Operations Facility (EOF) personnel during emergencies.
- 1.2 Use of this procedure is restricted to emergency conditions or drills/exercises only.

NOTE: 10 CFR 50.54(x) and (y) describe the actions required if deviation from Technical Specifications or License Condition becomes necessary.

2 DETAILS

- 2.1 The Emergency Director (ED) implements this procedure.
- 2.2 Use Attachment 1, Activation, when an emergency response is initiated.
- 2.3 Use Figure 1, Definitions and Abbreviations for a listing of abbreviations, acronyms, and their meanings.
- 2.4 Figure 2, Position Descriptions contains supplemental directions for ERO personnel.
- 2.5 IF additional assistance from other utilities or agencies is required THEN refer to the list in Appendix C of the Emergency Plan. Phone numbers are available in the Emergency Response Organization Phone Directory.

Reference	RMT-2080-EOF-001	Rev. 1	Page 4 of 48		
Activation and Operation of the EOF					

NOTE: O = Optional M = Mandatory

2.6 Perform activities based on the following table.

Activity	Attachment/ Procedure	Responsible Position	UE	Alert	SA	GE
Briefings	2	ED	M	M	M	M
Habitability	3	EAD	11/2	172	M	M
Dose Assessment (EMD-32)	4	EAD		0	M	M
PAR	8	ED	1			M
Core Damage Assessment	PMP-2081- EPP.105	Reactor Physics Analyst		0	0	0
Classification	7	ED	M	M	M	M
Document Transmission / Distribution	9	Communications Director	0	· M	M	M
Field Team Communications	10	FMT Coordinator		0	M	М
Environmental Sampling	11	Field Teams				
Logistical Support	14	Scheduling/Planning Manager			0	0
Shift Designation	12	Security Director	0	0	0	0
Information Requests	20	Communications Director				
External Support	19	Industry Support Communicator		0	0	0
ENS Communications	16	ENS Communicator		M	M	M
HPN Communications	17	HPN Communicator		M	M	M
County Communications	15	Berrien County Communicator			М	М
State Communications	18	MSP Communicator			M	M
Termination/Recovery	12-RMT-2080- EOF-002	ED		М	M	М

3 REFERENCES

3.1 Use References:

- 3.1.1 PMP-2080-EPP-101, Emergency Classification.
- 3.1.2 PMP-2081-EPP.105, Initial Core Damage Assessment.
- 3.1.3 12-RSM-2080-EOF-002, Emergency Termination and Recovery.
- 3.1.4 Donald C. Cook Nuclear Plant Emergency Plan.

Reference	RMT-2080-EOF-001	Rev. 1	Page 5 of 48				
Activation and Operation of the EOF							

3.2 Writing References:

3.2.1 Source References.

- a. Donald C. Cook Nuclear Plant Emergency Plan.
- b. EPA 400-R-92-001 Manual of Protective Action Guides and Protective Actions for Nuclear Incidents.
- c. Dose Assessment Program Computer Program, Rev. 7.
- d. Meteorology and Atomic Energy 1968. U. S. Atomic Energy Commission.
- e. Evacuation Time Estimates for the D. C. Cook Nuclear Plant Plume Exposure Emergency Planning Zone HMM Associates July 1992 (Rev.1).

3.2.2 General References

- a. Michigan Emergency Preparedness Plan.
- b. Berrien County Emergency Preparedness Plan.

Reference	Reference RMT-2080-EOF-001 Rev. 1					
Activation and Operation of the EOF						
Attachment 1	Activation		Pages:			
	Activation		6 - 7			

NOTE: The Emergency Plan requires activation of the EOF within 60 minutes of the time of a declaration of an Alert, SAE, or GE.

- 1 Ensure the facility has the following or an acceptable alternate prior to activation.
- 1.1 Equipment
 - Facility Power
 - Plant Process Computer (RDR)
 - Dose Assessment Programs and Printers
 - Continuous Air and Area Radiation Monitor
 - Clocks set with the Plant Process computer
- 1.2 Communications
 - 1.2.1 Telephones, Fax machines, or Radios to:
 - State of Michigan Emergency Operations Center
 - Berrien County Emergency Operations Center
 - 1.2.2 Field Monitoring Team Radios
 - 1.2.3 Communications with the Control Room
 - 1.2.4 Managers Telephone Bridge
- 1.3 Personnel

NOTE:	pe	With the exception of the Emergency Director, the use of non-qualified personnel is permissible provided they are briefed and understand the position specific requirements.			
		Emergency Director			
		Communications Director			
) [
	u	Environmental Assessment Director			
		Boardwriter			
		Communicator - Berrien County Sheriff Department			
		Communicator - Michigan State Police			
		Communicator -ENS			

Reference	Reference RMT-2080-EOF-001 Rev. 1					
Activation and Operation of the EOF						
Attachment 1	Attachment 1 Activation		Pages: 6 - 7			

2 Perform the following:

- Assume responsibilities for communications with offsite agencies.
- Assume responsibilities for Classification, Notification and PARs from the SEC.
- Determine the time the control room will issue their last EMD-32.
- Determine the time the EOF will issue the first EMD-32, Nuclear Plant Event form. The EMD-32a must be issued within 15 minutes of a classification or PAR change. The EMD-32b must be issued within 30 minutes of the last EMD-32a or EMD-32b.
- 3 Perform a facility brief.
- 4 Activate the facility.
- 5 Inform the other ERO facilities that the EOF has been activated.

Reference	Reference RMT-2080-EOF-001 Rev. 1							
Activation and Operation of the EOF								
Attachment 2	Briefings		Page:					
	Diffings		8					

- 1 Announce the briefing time 2 to 3 minutes prior to it beginning.
- Ensure everyone is paying attention, there are no phone conversations or side discussions taking place, and personnel remain stationary during the brief.
- Perform the briefing. (Time limits are for reference only.)
- 3.1 Current Plant Status (1- Minute Maximum)
 - Major on-going events
 - Major Equipment out of service
 - Prognosis
 - Facility priorities
- 3.2 Current Classification (30-Seconds Maximum)
 - PAR in effect
 - Anticipated changes in classification or PAR
- 3.3 Status of the EOF (for initial briefings up to and including activation)
 - Activation Status (When command and control will be taken over from the Control Room),
 - Problems delaying activation,
 - Time the first EMD-32 is required for transmission to the State (at activation only).
- 3.4 Ask the EOF team for updates on important information
 - Don't solve the problems here. Delegate; then update at the next briefing if necessary.
- 3.5 Ask the EOF team if anyone is having any problems
 - Don't solve the problems here. Delegate; then update at the next briefing if necessary.

Reference	Reference RMT-2080-EOF-001 Rev. 1							
	Activation and Operation of the EOF							
Attachment 3	Attachment 3 Habitability							

NOTE: The EOF has no specific habitability requirements because it is outside the 10-mile Emergency Planning Zone. Actions taken are at the discretion of the EAD.

- 1 IF a radioactive plume is expected to pass over the EOF, THEN:
 - Start the continuous air monitor.
 - Issue dosimetry to all EOF occupants.
 - Shelter or evacuate non-essential personnel in the Buchanan Office Building.
 - Turn off or close dampers on ventilation systems that draw air from outside the facility.
 - Have personnel remain in the EOF and office building.
 - Perform routine surveys to assess dose rates, airborne activity, and post plume contamination.
- 2 Maintain the dose to the occupants of the EOF below the following for the duration of the emergency.
 - TEDE < 5 Rem
 - CDE Thyroid < 25 Rem

Reference	Reference RMT-2080-EOF-001 Rev. 1							
	Activation and Operation of the EOF							
Attachment 4	Attachment 4 Dose Assessment							

- 1 UNLESS the State of Michigan EOC has been notified in advance of a delay or change in frequency, THEN transmit Nuclear Plant Event Technical Data forms (EMD-32b) to the State of Michigan at least every 30 minutes.
- 2 Obtain and record an 8-hour and 24-hour weather forecast on Data Sheet 1, Meteorological Forecast.
- 2.1 Forecasts are normally obtained through Murray and Trettle. The phone number is available in the Emergency Response Organization Phone Directory.
- 2.2 Provide Data Sheet 1, Meteorological Forecast, to the runners for distribution.
- 2.3 Obtain subsequent forecasts approximately every 8 hours.
- 3 IF a projected dose is NOT available from the Dose Assessment Program, THEN use projected doses based on measured dose rates from the field and expected duration of the exposure time.
- 4 IF projected doses are NOT available and a PAR is necessary, THEN use the default PAR. See Attachment 8, PAR.
- 5 Obtain Meteorological Data. See Attachments 5, Meteorological Data, and 6, Pasquill Category, for additional information and help.
- 6 Obtain radiological data as applicable.
- 6.1 Radiation Monitoring System (RMS) data listed in order of preference:
 - PPC/RDR
 - RMS Display Terminals
 - Technical Support Center
 - Direct readings from the Local Area Data Acquisition Modules

6.2 Field Team data

- Radiation reading in R/hr
- Iodine concentration in μCi/cc
- Sample location

Reference	Reference RMT-2080-EOF-001 Rev. 1						
Activation and Operation of the EOF							
Attachment 4	Pages:						
			10 - 12				

- 7 Determine the Coolant Type from:
 - EOF Reactor Physics Analyst
 - Technical Support Center Plant Evaluation Team
 - GO TO Initial Core Damage Assessment procedure, PMP-2081-EPP-105.
- 8 Determine the Projected Duration of the Release.
 - IF the projected duration of the release is unknown, THEN use 1-hour.
 - IF releases are occurring from multiple points, THEN use the longest projected duration.
- 9 Determine if an Actual Release versus a Potential Release is occurring.
- 9.1 An actual release is occurring when any of the following are true:
 - Valid indication on release point radiation monitoring system channels are present that are associated with a classified event, or
 - Measured offsite radiation readings indicate a release is in progress, or
 - Indications exist that an unmonitored release may be occurring.
- 9.2 A potential release exists if calculated data is postulated based on present plant conditions (i.e., Containment Loss Of Coolant Accident, CLOCA).
- 10 Complete the EMD-32b form.
 - The EMD-32b, Release/Offsite Dose Data section, is only required to be completed if a release is or is suspected to be occurring.
 - The EMD-32b, Measured Offsite Radiation Levels section, needs only be reported when available.
- Review the EMD-32b form to determine if a change in classification or PAR is required.
- 12 IF a change is necessary, THEN:
 - The ED approves the EMD-32b form.
 - Follow the instructions on the Classification or PAR attachment.

Reference	Reference RMT-2080-EOF-001 Rev. 1						
Activation and Operation of the EOF							
Attachment 4	Attachment 4 Dose Assessment						

13 IF a change is not necessary, THEN:

- The ED approves the EMD-32b form. Provide the EMD-32b form to the Fax operators for transmittal.

Reference	Reference RMT-2080-EOF-001 Rev. 1							
	Activation and Operation of the EOF							
Attachment 5	Meteorological D)ata	Pages: 13 - 14					

NOTE: Wind speeds are expressed as Miles per Hour. To convert Knots to Miles per Hour multiply by 1.15.

- 1 Consider lake breezes in the dose assessment process if all the following are true:
 - The current date is between April 15 and October 31,
 - The current time is between 1-hour after sunrise and 1-hour after sunset,
 - Ambient temperature measured at the main tower must be greater then the Lake Michigan temperature,
 - Wind speed on the shoreline tower is ≤ 13.4 Miles per Hour,
 - Pasquill category must be A, B, C, or D,
 - Shoreline tower wind direction is **FROM** 205° to 23° (i.e., Wind is from the lake).
- 1.1 Obtain meteorological data from one of the following sources. Sources are listed in order of preference.
 - 1.1.1 Plant Process Computer
 - 10 Meter Main
 - 10 Meter Backup
 - 60 Meter Main
 - 1.1.2 Murray and Trettle
 - a. Obtain the phone number from the Emergency Response Organization Phone Directory.
 - b. Request to speak to the Nuclear Emergency Director.
 - c. Obtain
 - Wind Speed in Miles per Hour
 - Wind Direction from, in degrees
 - Pasquill Category as a letter **NOT** a number
 - Eight and 24-hour meteorological forecast

Reference	Reference RMT-2080-EOF-001 Rev. 1							
	Activation and Operation of the EOF							
Attachment 5	Meteorological D	ata	Pages: 13 - 14					

- 1.1.3 Manual Acquisition of Meteorological Tower Data
 - Contact the Technical Support Center and request a team be dispatched to collect this data.
- 1.1.4 National Oceanic and Atmospheric Administration (NOAA)
 - Obtain the plants NOAA phone extension from the Emergency Response Organization Phone Directory.
 - Use any NOAA weather radio.

Reference	RMT-2080-EOF-001	Rev. 1	Page 15 of 48					
	Activation and Operation of the EOF							
Attachment 6	Attachment 6 Pasquill Category							

Obtain Pasquill Category data from one of the following sources. Sources are listed in order of preference.

1.1 Plant Process Computer

1.2 Temperature Differential

$\Delta T ^{\circ}F = T @ 60m - T @ 10m$	Pasquill Category	ΔT °C = T @ 60m - T @ 10m
(Z = 50 Meters)		(Z = 50 Meters)
ΔT °F ≤ - 1.8	A	ΔT °C ≤ - 1.0
$-1.8 < \Delta T ^{\circ}F \le -1.6$	В	$-1.0 < \Delta T ^{\circ}C \le -0.9$
-1.6 < ΔT °F ≤ - 1.4	C	-0.9 < ΔT °C ≤ - 0.8
$-1.4 < \Delta T ^{\circ}F \leq -0.5$	D	-0.8 < ΔT °C ≤ - 0.3
$0.5 < \Delta T$ °F $\leq +1.3$	E TELLE	$-0.3 < \Delta T ^{\circ}C \leq +0.7$
$+1.3 < \Delta T ^{\circ}F \le +3.6$	F	$+0.7 < \Delta T ^{\circ}C \leq +2.0$
$+3.6 < \Delta T ^{\circ} F$	G	+2.0 < ΔT °C

1.3 Standard Deviation of the Horizontal Wind Direction (STD)

STD	Pasquill Category		
STD ≥ 22.5		The second secon	
$22.5 \ge STD > 17.5$		В	
$17.5 \ge STD > 12.5$		C	:
$12.5 \ge STD > 7.5$		D	
$7.5 \ge \text{STD} > 3.8$	* 1,	E E	
$3.8 \ge STD > 2.1$		F	
2.1 ≥ STD		G	•

1.4 Murray and Trettle

See Attachment 5, Meteorological Data.

1.5 Observation

			liation (Day Only) 1 hour before suns	et)		
Sun Angle		Cloud Cover				
Degrees from Horizon	None	1/8 - 5/8	5/8 - 7/8		8/8	
	1		Middle Clouds	Low Clouds		
15° - 35°	Slight	Slight	Slight	Slight	Slight	
35° - 60°	Moderate	Slight	Slight	Slight	Slight	
> 60°	Strong	Strong	Moderate	Slight	Slight	

	Day			Night	. ,
Wind Speed @ 10 meters	Incoming Solar Radiation		Thinly Overcast or	≤ 3/8	
Miles per Hour (Mph)	Strong	Moderate	Slight	≥ 4/8 Low Clouds	Clouds
$Mph \leq 5$	A	A – B	В		
$5 < Mph \le 7$	A – B	В	С	E	F
$7 < Mph \le 11$	В	B - C	С	. D	E
$11 < Mph \le 13$	C	C - D	D	D	D
Mph > 13	С	D	D	D	D

Reference RMT-2080-EOF-001 Rev. 1					
Activation and Operation of the EOF					
Attachment 7 Classifications					
	Activation and Operation	Activation and Operation of the EOF			

- 1 Perform classifications using PMP-2080-EPP-101.
- 2 If a classification upgrade is made:
- 2.1 Note the time of the classification and determine the 15-minute notification time.
- 2.2 Notify the control room to initiate plant public address announcements and sound the Nuclear Emergency Alarm as specified in the control room procedures.
- 2.3 Complete an EMD-32a, Nuclear Plant Event Notification, form.
 - 2.3.1 Reason for Classification:
 - IF (H-1) SEC Judgement is used, THEN select the reason most applicable to the situation.
 - 2.3.2 Radiological Release in Progress Due to Event is yes when:
 - Valid indications on release point radiation monitoring system channels are present that are associated with a classified event, or
 - Measured offsite radiation readings indicate a release is in progress, or
 - Indications exist that an unmonitored release may be occurring.
 - 2.3.3 IF the classification is a General Emergency, THEN develop a PAR.
- 2.4 The ED approves the classification upgrade.
- 2.5 The ED notifies the State/County authorities.
 - 2.5.1 If the State EOC has **NOT** been activated:
 - Transmit the EMD-32a to the Berrien County Sheriff's Department
 - The ED discusses the EMD-32a data and applicable PARS, with the Berrien County Sheriff's Department.
 - 2.5.2 If the State EOC has been activated:
 - Transmit the EMD-32 to the State of Michigan EOC.
 - The ED discusses the EMD-32a data, and applicable PARs, with the State EOC.

Reference	RMT-2080-EOF-001	Rev. 1	Page 17 of 48	
Activation and Operation of the EOF				
Attachment 7	Attachment 7 Classifications			

- 2.6 Notify the other facilities as applicable.
- 2.7 Perform a facility brief.
- 2.8 Update the facility status boards/maps with classification data, PARs, and Protective Action Orders received from the State of Michigan.

Reference RMT-2080-EOF-001 Rev. 1 Page 18						
Activation and Operation of the EOF						
Attachment 8	Pages: 18 - 20					

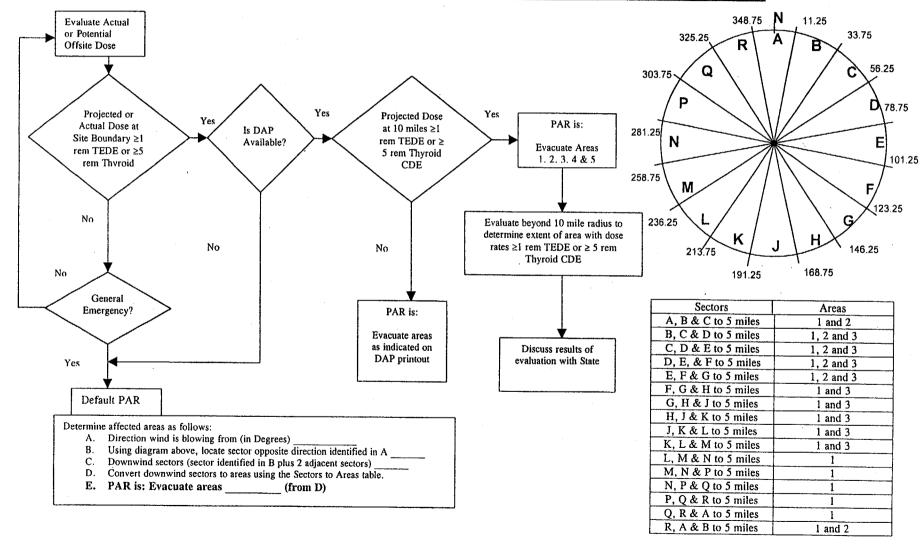
NOTE:	PARs must accompany the declaration of a General Emergency.
1	

- 1 Note the time of the PAR and determine the 15-minute notification time.
- 2 Use the Default PAR if:
 - A General Emergency has been declared for non-radiological release conditions, or
 - It is not possible to determine the Site Boundary TEDE or CDE dose and a release is or is suspected to be in progress.
- 3 Prior to developing a PAR, consider any forecasts of changing weather conditions.
- 4 IF the PAR is based on Dose Calculations, THEN an EMD-32b, Nuclear Plant Event Technical Data sheet must accompany the EMD-32a, Nuclear Plant Event Notification form
- 5 Compare field team data to the projected area of the PAR.
- IF the field team data indicates the plume is outside the projected area, THEN change the PAR to include the actual data.
- 7 Update the EMD-32a with the PAR information.
- The ED approves the PAR change.
- 9 The ED notifies the State/County authorities.
- 9.1 If the State EOC has **NOT** been activated:
 - Transmit the EMD-32a (and EMD-32b as applicable) to the Berrien County Sheriff's Department.
 - The ED discusses the EMD-32 data, and applicable PARs with the Berrien County Sheriff's Department.
- 9.2 If the State EOC has been activated:

Reference	RMT-2080-EOF-001	Rev. 1	Page 19 of 48	
Activation and Operation of the EOF				
Attachment 8	Pages: 18 - 20			

- Transmit the EMD-32a (and EMD-32b as applicable) to the State of Michigan EOC.
- The ED discusses the EMD-32 data, and applicable PARs with the State EOC.
- Notify the other facilities as applicable.
- 11 Perform a facility brief.
- Update the facility status boards/maps with classification data, PARs, and Protective Action Orders received from the State of Michigan.

Reference	RMT-2080-EOF-001	Rev. 1	Page 20 of 48	
Activation and Operation of the EOF				
Attachment 8	Attachment 8 Protective Action Recommendations (PAR)			



Reference	Page 21 of 48			
Activation and Operation of the EOF				
Attachment 9	Attachment 9 Document Transmission/Distribution			

NOTE:	Some of the facility Fax machines are designated within the phone directory as TRANSMIT and others as RECEIVE. These machines should remain in
	their designated mode to better facilitate communications between facilities.

- 1 Ensure the Fax machine dates and times are set correctly.
- Obtain the Fax machine phone numbers for the facilities and off site agencies from the Emergency Response Organization Phone Directory.
- 3 Forward all documents for duplication and distribution to the facility runners.
- 4 Forward all original documents to the Communication Director.
- 5 Log all incoming and outgoing Fax's in the facility Fax Log.
- 6 IF a Fax is NOT specifically addressed to an individual or position, THEN distribute incoming Fax's to all positions as described on the facility distribution map located in the copy area.

Reference	Page 22 of 48			
Activation and Operation of the EOF				
Attachment 9 Document Transmission/Distribution Page: 21 - 22				

7 The following table gives additional direction on the transmission and distribution of material:

Document	Destination	Frequency	Additional Instructions
Nuclear Plant Event	State EOC	EMD-32a	The EMD-32a and b forms
Notification Form		15-Minutes	transmitted to the State of Michigan
(EMD-32a)			should have priority over all other
		EMD-32b	Fax's.
Nuclear Plant Event		30-Minutes	·
Technical Data	TSC	As Available	
(EMD-32b)	News Center	As Available	The initial transmission of all
			documents to Corporate
			Communications shall be established
			through the News Center by
			corporate communications personnel.
	JPIC	As Available	Distribution to the JPIC members.
	EOF	As Available	Distribute to EOF members.
	Personnel		
Meteorological	State EOC	As Available	None
Forecast Data Sheet 1	Berrien	As Available	None
;	County EOC		
	NRC	As Available	None
	EOF	As Available	Distribute to EOF members.
	Personnel		4
Boardwriter Notes	EOF	As Available	Distribute to EOF members.
	Personnel		

Reference	Rev. 1	Page 23 of 48		
Activation and Operation of the EOF				
Attachment 10	Pages: 23 - 25			

- WHEN dose assessment is considering lake breezes, THEN dispatch the field teams along the standard routes to locations either North and/or South of the plant to determine if the plume is moving in a parallel path to the Lake Michigan shore line.
- 2 IF the projected offsite dose rates for the team positions exceed 1 rem/hr TEDE or 5 rem/hr CDE Thyroid, THEN consider:
 - Repositioning the team(s) to reduce the overall expected exposure.
 - Distribution of Potassium Iodine (KI) to team members.
- 3 Have the field teams perform surveys based on the appropriate release status:
- 3.1 Pre-release no release has occurred.
 - 3.1.1 Determine the postulated direction and dispersion width of the plume based on the wind direction, wind speed, Pasquill Category stability class, and its associated isopleth.
 - 3.1.2 Position the survey vehicles downwind on Red Route 1.
 - 3.1.3 Have the survey vehicle traverse the downwind portion of the route while surveying for radiation readings above background.
 - 3.1.4 **IF** above background readings are reported, **THEN** notify the EAD immediately. An unmonitored release may be occurring.

3.2 Plume Phase

- 3.2.1 Determine the postulated direction and dispersion width of the plume based on the wind direction, wind speed, Pasquill Category stability class, and isopleth.
- 3.2.2 Use the projected dose rates as guidance to determine the best distance from the plant to collect airborne sample data without risking overexposure to field team members. Iodine and particulate materials tend to plate out quickly on surrounding surfaces. Airborne samples should be collected at the location of the highest dose rate reading within the plume.

Reference	RMT-2080-EOF-001	Rev. 1	Page 24 of 48	
Activation and Operation of the EOF				
Attachment 10	Pages: 23 - 25			

3.2.3 Direct the survey teams to perform either a full traverse or plume definition survey.

a. Full Traverse

- 1. Direct the survey teams to traverse the plume reporting back, as a minimum, boundary (0.1 mR/hr) and centerline (highest reading) data.
- 2. **IF** an air sample is necessary, **THEN** have it taken at the plume centerline.
- 3. Record the Field Team data on Data Sheet 2,Offsite Survey Log.
- 4. Plot the data on a map to define the plume boundries and centerline.

b. Plume Definition

- 1. Direct the survey teams to:
 - Enter the plume until ≥ 0.1 mR/hr is detected.
 - Immediately exit the plume.
 - Report back the plume boundary location and radiation reading.
- 2. Record the Field Team data on Data Sheet 2,Offsite Survey Log.
- 3. Plot the data on a map to define the plume boundary.
- 3.2.4 IF field teams report a reading $\geq 1R/hr$, THEN immediately notify the EAD. A change in the emergency classification may be necessary.
- 3.2.5 Compare the field team data to the most recent PARs.
- 3.2.6 IF the field team data does NOT match the projected location of the plume, THEN immediately notify the EAD. A change to the PAR may be necessary.

Reference	Page 25 of 48			
Activation and Operation of the EOF				
Attachment 10 Field Team Communications Pages: 23 - 25				

3.3 Post Plume Phase

- 3.3.1 The post plume phase should be performed in 2 stages: (initial and long term)
 - a. Initial (Ground Deposition Foot Print)
 - 1. Direct the field monitoring teams to traverse the areas the plume covered starting close-in to the plant and working outward.
 - 2. Plot the results on a map to determine the extent of the ground deposition.
 - 3. WHEN the deposition footprint has been determined, THEN initiate the long term post plume phase sampling.
 - b. Long Term

NOTE: Though the emergency may have been terminated prior to entering the long-term post plume phase, these directions are intended to give the field team guidance for the collection of samples.

- 1. Direct the field teams to collect soil, water, snow, and vegetation samples as applicable within the ground deposition area. Take samples in locations to define deposition on the ground.
- 2. Direct the field teams to collect soil, water, snow, and vegetation samples as applicable outside the ground deposition area. Negative results are necessary to confirm no hazards are present.
- 3. Plot the sample positions on a map to allow for further deposition analysis.

Reference	RMT-2080-EOF-001	Rev. 1	Page 26 of 48	
Activation and Operation of the EOF				
Attachment 11 Environmental Sampling Pages: 26 - 27				

- Collect samples that are representative of the topography of the area unless otherwise specifically requested.
- 2 Change the volume or surface area of samples collected as conditions warrant. Note the changes in the comment section on the appropriate form.
- 3 Log all samples on Data Sheet 3, Environmental Sample Collection, giving a specific location listed in order of preference.
 - Physical location
 - On a map
 - Using landmarks; ensure sufficient references are documented to relocate the specific area.
- 4 Perform Plume Surveys, as directed:
- 4.1 Plume Traverse
 - 4.1.1 Traverse the route as instructed by the EOF, keeping the closed window probe outside the vehicle.
 - 4.1.2 Record the location and reading on Data Sheet 2, Offsite Survey Log, where the instrument indicates:
 - The leading edge of the plume (0.1 mR/hr)
 - The centerline (highest reading) of the plume
 - The trailing edge of the plume (0.1 mR/hr)
 - 4.1.3 Transmit the data to the EOF.
 - 4.1.4 **IF** an air sample was requested, **THEN** re-enter the plume to the instructed location and obtain the sample. This is normally performed at the plume centerline.

4.2 Plume Definition

- 4.2.1 Start the route as instructed by the EOF, keeping the closed window probe outside the vehicle.
- 4.2.2 Record the location and reading on Data Sheet 2,Offsite Survey Log, where the instrument indicates the leading boundary (≥ 0.1 mR/hr) of the plume.

Reference	RMT-2080-EOF-001	Rev. 1	Page 27 of 48	
Activation and Operation of the EOF				
Attachment 11 Environmental Sampling Pages: 26 - 27				

- 4.2.3 Exit the plume.
- 4.2.4 Transmit the data to the EOF.
- 5 Obtain an air sample as follows:
 - Draw a minimum of 4 cubic feet of air.
 - Document all air sample data on the air sample envelope.
- 6 Obtain soil, snow, water, and vegetation samples as follows:
 - Use Data Sheet 3 for instructions for collection and documentation of environmental samples.

Reference	RMT-2080-EOF-001	Rev. 1	Page 28 of 48	
Activation and Operation of the EOF				
Attachment 12 Shift Designation Pages: 28 - 29				

Obtain individual phone numbers from the Emergency Response Organization Phone Directory.

- Managers coordinate shift turnovers to ensure plant conditions allow individuals to report to their respective facilities without undue risk or exposure.
- 2 Security Director coordinates and communicates any plant access restrictions with the security force.
- Finalize routing instructions prior to notifying any individuals.

Shift Start Time:

- 4 Obtain position lists specific to the OSC and TSC from 12-RMT-2080-OSC.001 and 12-RMT-2080-TSC-001.
- 5 IF roadblocks have been established by local or state law enforcement, THEN the State EOC should be notified with the list of oncoming personnel to allow passage through roadblocks.
- 6 IF desired, THEN the Dialogic Paging system can be used to contact off-duty team members. Attachment 13, Dialogic Paging System gives detailed instructions for reprogramming and activation.

Position Title	Name	
Berrien County Liaison	Name	
Boardwriter		
Communicator - Berrien County Sheriff Department		
Communications Director		
Communicator - Michigan State Police		
Communicator -ENS		

-2080-EOF-001	Rev. 1	Page 29 of 48		
Activation and Operation of the EOF				
Attachment 12 Shift Designation Pages: 28 - 29				
	ion and Operation			

	T
Communicator -HPN	
Computer Analyst	
Emergency Director	·
Emergency Planning	
Engineering Design & Site Services Manager	
Environmental Assessment Coordinator (1)	
Environmental Assessment Coordinator (2)	
Environmental Assessment Director	
Fax Operator	·
Field Monitoring Team Coordinator	
Industry Support Communicator	
Michigan State Police Liaison	
Operations Advisor	
Reactor Physics Analyst	
Regulatory Affairs Coordinator	
Runner (1)	
Runner (2)	
Security Director	
Scheduling & Planning Manager	

Reference	RMT-2080-EOF-001	Rev. 1	Page 30 of 48	
Activation and Operation of the EOF				
Attachment 13 Dialogic Paging System		Pages: 30 - 31		

NOTE:	The Dialogic Paging system can be reprogrammed to contact off-duty members of the Emergency Response Organization. These actions should
	only be performed from one facility, preferably the EOF, and should be done to provide subsequent staffing for ALL facilities.

- 1 Prior to contacting Dialogic:
- 1.1 Notify the facility managers to instruct all ERO members who are currently in a facility, NOT to respond to the page.
- Prescript the instructions (Dialogic refers to this as a greeting) that will be recorded prior to the activation of the pagers. Consider:
 - 1.2.1 All ERO pagers will be activated. You cannot select a specific team for response.
 - 1.2.2 Having ERO members contact the EOF at particular phone number(s) to receive further instructions after accepting a position.
 - 1.2.3 Where and how the individuals should report. If a release has occurred, it may be advantageous to have member's report to the EOF for transport to the plant.
 - 1.2.4 What time the ERO members are to report.
- 1.3 Obtain the password code, located in the Security Directors' lock box in the EOF.
- 2 To change the recorded instructions for responding ERO members and activate the scenario:
- 2.1 Call Dialogic. The Dialogic Pager Activation phone number can be obtained from the Emergency Response Organization Phone Directory.
- 2.2 The system will ask you for your company ID number, followed by the # sign. Enter 1344 #
- 2.3 The system will ask for your scenario activation password, followed by the # sign. Enter the password code followed by the # sign.

Reference	Page 31 of 48			
Activation and Operation of the EOF				
Attachment 13 Dialogic Paging System Pages: 30 - 31			_	

- 2.4 To start a scenario, enter the scenario ID followed by the # sign or press # alone for more options. Enter 911 #
- 2.5 The system will state:
 - 2.5.1 To listen to the current scenario message, Press 1
 - 2.5.2 To re-record the scenario message, Press 2
 - The system will direct you to record the new message followed by the # sign.
 - 2.5.3 To start the scenario, Press 3
 - The system will respond with "The scenario is building". Press # and hang up.
 - 2.5.4 To return to the main menu, Press #
 - The system will give more options to consider or press # to end this call.
- 2.6 Reports will be faxed to the EOF containing the names of the individuals who have responded and accepted a position.
- 2.7 Forward results to the appropriate facility managers.

Reference	RMT-2080-EOF-001	Rev. 1	Page 32 of 48	
Activation and Operation of the EOF				
Attachment 14	Page:			

NOTE:

The Scheduling and Planning Manager can provide the following services to the ERO. This position has the authority to purchase or lease materials and equipment necessary to support the ERO and the Plant and to generate contracts necessary for the augmentation of staffing.

- Arranging lodging for ERO personnel who cannot return to their homes because of an evacuation.
- Arranging lodging for personnel responding from outside agencies.
- Providing for the purchase of food to ERO facility members and support personnel.
- Purchasing or renting equipment necessary to mitigate or respond to emergencies.
- Providing for additional assistance from contractors or other agreement facilities.
- Arranging for delivery of equipment and materials.
- Providing assistance for contractual issues.
- Other services as deemed necessary by the Emergency Director.
- 1 Obtain permission from the Emergency Director to initiate the requested actions.
- 2 Generate the appropriate documents necessary to perform the requested action.
- 3 UPON completion of the documents, THEN obtain the Emergency Directors approval.
- 4 IF the materials need to be brought into the 10-mile Emergency Planning Zone, THEN:
 - Obtain concurrence from the Environmental Assessment Director for delivery restrictions.
 - Discuss the delivery route with the TSC Security Director.
 - Ensure the State of Michigan EOC has been notified of the intended delivery and route.
- 5 Implement the approved request, including any restrictions.

Reference	RMT-2080-EOF-001	Rev. 1	Page 33 of 48			
Activation and Operation of the EOF						
Attachment 15	County Communica	tions	Pages: 33 - 34			

NOTE: The Berrien County Emergency Operations Center may not be operational immediately after the declaration of a Site Area or General Emergency. Continue to communicate with the Berrien County Sheriff's Department until the Berrien County EOC is operational.

1 Contact the appropriate Berrien County facility based on the emergency classification.

1.1 Alert

- 1.1.1 Contact the Berrien County Sheriff's Department.
- 1.1.2 **UPON** receipt of an EMD-32a or EMD-32b, **THEN** provide the following information:
 - a. Provide your name, Title (BCSD Communicator), and your telephone number.
 - b. Provide the remainder of the information as entered on the EMD-32.
- 1.1.3 **UPON** receipt of any inquiries from the Sheriff's Department, THEN follow the instructions on the Information Request attachment.
- 1.1.4 **UPON** completion of each communication with the Sheriff's Department, **THEN** hang up the phone and re-establish communications when necessary.

1.2 SAE OR GE

- 1.2.1 Contact the Berrien County Liaison at the Berrien County EOC. This individual is provided to the county EOC by AEP and is an AEP employee.
- 1.2.2 **UPON** receipt of an EMD-32, **THEN** provide the following information:
 - a. Provide your name, Title (BCSD Communicator), and your telephone number.
 - b. Provide all information except the Protective Action Recommendations on the EMD-32a.
- 1.2.3 **UPON** receipt of any inquiries from the Berrien County EOC, THEN follow the instructions on the Information Requests attachment.

Reference	RMT-2080-EOF-001	Rev. 1	Page 34 of 48				
Activation and Operation of the EOF							
Attachment 15	ations	Pages:					
	•		33 - 34				

1.2.4 Maintain constant communications with the Berrien County EOC. Do not hang up the phone.

Reference	RMT-2080-EOF-001	Rev. 1	Page 35 of 48			
Activation and Operation of the EOF						
Attachment 16	Attachment 16 ENS Communications					

- 1 Contact the NRC using the Emergency Notification System phone.
- Dial the MAIN number listed on the phone. IF there is no answer, THEN dial the BACKUP number.
- 1.2 Once communications is established state the following:
 - "This is the D. C. Cook Emergency Operations Facility. This is an initial contact notification to ensure communications have been established. The EOF is not activated at this time. Communications relative to plant status should continue from the control rooms.
- 2 Provide the NRC Duty Officer with the following information relative to plant conditions:
 - Current emergency classification.
 - Emergency Condition Category (ECC) under which the emergency was declared. Include the ECC number, title, and a brief description of the actual event.
 - Current plant conditions.
- 3 Continue to notify the NRC of changes such as:
 - Changes to the emergency classification
 - Status of injured personnel
 - Equipment unavailability
 - Damage control team status
 - Calculated leak rates
 - Core damage assessment
 - Fission product barrier status
- 4 UPON receipt of any inquiries from the NRC that cannot be answered using data already available from other sources, THEN follow the instructions on the Information Requests attachment.

RMT-2080-EOF-001	Rev. 1	Page 36 of 48				
Activation and Operation of the EOF						
Attachment 17 HPN Communications						
	Activation and Operation	Activation and Operation of the EOF				

- 1 Contact the NRC using the Health Physics Notification System phone.
- 1.1 Dial the MAIN number listed on the phone. IF there is no answer, THEN dial the BACKUP number.
- 1.2 Once communications is established state the following:
 - "This is the D. C. Cook Emergency Operations Facility. This is an initial contact notification to ensure communications have been established. Communications relative to Health should continue from the control rooms."
- Provide the NRC Duty Officer with the following information relative to plant conditions:
 - Current emergency classification.
 - Emergency Condition Category (ECC) under which the emergency was declared. Include the ECC number, title, and a brief description of the actual event.
 - Current plant conditions.
- 3 Continue to notify the NRC of changes from the EMD-32 such as:
 - Changes to the emergency classification
 - Meteorological data
 - Radiological releases
 - Calculated offsite dose and dose rates
 - Field Team monitoring data
 - PAR
- 4 UPON receipt of any inquiries from the NRC that cannot be answered using data already available from other sources, THEN follow the instructions on the Information Requests attachment.

Reference	RMT-2080-EOF-001	Rev. 1	Page 37 of 48				
TANK TANK TANK TANK TANK TANK TANK TANK	Activation and Operation of the EOF						
Attachment 18	Attachment 18 Michigan State Police Communications						

NOTE:	Phone extension 1088 exists in the control rooms and the EOF MSP Communicators position. Communications should already be established	
	between the Control Room and the MSP.	

- 1 Contact the Control Room and the MSP Operations Center by:
- 1.1 Using EOF phone extension 1088, pick up the handset and listen for a dial tone.
- 1.2 **IF** a dial tone is present, **THEN** using another phone, contact the Control Room MSP Communicator by dialing extension 1088.
- 1.3 IF a dial tone is NOT present, THEN identify yourself and wait for a reply from the Control Room and/or the State.
- WHEN communications is established, THEN provide the current activation status of the EOF.
- 3 IF, after activation, the EOF is NOT capable of faxing EMD-32 forms to the State, THEN transmit the information verbally.
 - Provide your name, Title (MSP Communicator), and your telephone number (1-616-465-5901, Ext. 1088).
 - Provide the remainder of the information as entered on the EMD-32a or EMD-32b.
- 4 UPON receipt of any inquiries from the MSP, that cannot be answered using data already available from other sources, THEN follow the instructions on the Information Request attachment.

IReference	RMT-2080-EOF-001	Rev. 1	Page 38 of 48				
	Activation and Operation of the EOF						
Attachment 19	Attachment 19 External Support						

- 1 UPON declaration of an Alert, SAE, or GE, and activation of the EOF, THEN contact the following agencies. Obtain phone numbers and contact names from the Emergency Response Organization Phone Directory.
 - American Nuclear Insurers (ANI)
 - Institute of Nuclear Power Operators (INPO)
 - Westinghouse
- 2 Provide each with the following information:
- 2.1 ANI
 - Plant status
 - Current emergency classification
 - Offsite PAR
 - Offsite Protective Action Orders

2.2 INPO

- Plant status
- Unavailable equipment
- Current emergency classification
- Offsite PARs
- Offsite Protective Action Orders
- 2.3 Westinghouse
 - Plant status
 - Unavailable equipment
 - Current emergency classification
- 3 UPON receipt of any inquiries that cannot be answered using data already available from other sources, THEN follow the instructions on the Information Requests attachment.

IReference	RMT-2080-EOF-001	Rev. 1	Page 39 of 48				
ALL PROPERTY OF THE PROPERTY O	Activation and Operation of the EOF						
Attachment 20	Attachment 20 Information Requests						

NOTE: Information requests are designed to document questions and answers for information not normally available.

- 1 Generating a request.
- 1.1 Print information request on all-purpose forms in complete and legible format.
- 1.2 Supply the following minimal information:
 - Position requesting the information.
 - Position the request is being sent to.
 - Detailed question.
- 1.3 Retain the bottom copy.
- 1.4 Forward the request to the Communications Director.
- 1.5 The Communications Director:
 - 1.5.1 Reads the request and ask for clarification if necessary.
 - 1.5.2 Forwards the request to the appropriate position.
- 2 Responding to a Request.
- 2.1 Print responses in complete and legible format.
- 2.2 Forward the response to the Communications Director.
- 2.3 The Communications Director:
 - 2.3.1 Forwards a copy of the response to the originator.
 - 2.3.2 Retains the original message form.

Reference	RMT-2080-EOF-001	Rev. 1	Page 40 of 48
	Activation and Operation	of the EOF	
Data Sheet 1	Meteorological For	ecast	Page:

Time	e/Date	Forecast Obtained:	
Fore	cast Sc	ource: Murray & Trettle NOAA Other	
A.	Eigh	at Hour Forecast	
	1.	Wind Direction:	Degrees From
	2.	Wind Speed:	Miles Per Hour
	3.	Differential Temperature:	oF or oC
	4. 5.	Stability Class:	
	٥.	Remarks:	
В.	Twe	nty-four Hour Forecast	•
	1.	Wind Direction:	Degrees From
	2.	Wind Speed:	Miles Per Hour
	3.	Differential Temperature:	°F or °C
	4.	Stability Class:	
	5.	Remarks:	

Reference	Rev. 1	Page 41 of 48			
Activation and Operation of the EOF					
Data Sheet 2	Offsite Survey L	og	Page: 41		

Date	Time	Leading E	ldge	Centerline		Trailing E	Edge	Initials
		Location	Reading	Location	Reading	Location	Reading	-
		N.			1			
r								
								
						· · · · · · · · · · · · · · · · · · ·		
								1
					1			

Reference	RMT-2080-EOF-001	Rev. 1	Page 42 of 48
Activation and Operation of the EOF			
Data Sheet 3 Environmental Sample Collection Page: 42			

Environmental Sample Collection Data Sheet			
Date: Time: Sampled By:			
Type: Soil Snow Water Vegetation			
Location: Location			
Comments:			
Soil			
1) Do NOT obtain samples from disturbed areas or under trees cont	taining foliage.		
2) Remove sufficient soil from the surface of the area to fill a 4-lite	r sample container.		
3) Mark all containers with the date, time, and samplers initials.			
Surface area of material removed cm ²			
Snow			
1) Do NOT obtain samples from drifts, disturbed areas, or under tree			
2) IF additional snow has fallen since the release occurred, THEN	remove fresh snow to obtain a		
representative sample.			
3) IF it was snowing during the plume phase, THEN take the samp	le to the depth of the		
accumulated snow exposed to the plume.			
4) Collect a minimum of 12-liters of snow.			
5) Mark all containers with the date, time, and samplers initials.			
Surface area of material removed cm ² Depth	om		
Surface area of material removed cm ² Depth	· cm		
1) Do NOT collect samples from stagnant pools under trees contain	ing foliage		
2) Avoid disturbing and collecting the surrounding sediment.	ing lonage.		
3) Collect a minimum of 4 liters of water.			
4) Mark all containers with the date, time, and samplers initials.			
What will containers with the date, time, and samplers include.			
Sample obtained from a: Stagnant Pool Running Tr	ibutary		
Vegetation			
1) Do NOT obtain samples from disturbed areas or under trees cont	taining foliage.		
2) Cut as close to the root as possible, when sampling ground vegetation.			
3) Remove material from the outer, exposed areas only, when sampling trees or bushes.			
4) Collect only the normally edible portion, when sampling foodstuffs.			
5) Collect a minimum of 12 liters of vegetation.			
6) Mark all containers with the date, time, and samplers initials			
Surface area of material removed cm ²			

Reference	RMT-2080-EOF-001	Rev. 1	Page 43 of 48
Activation and Operation of the EOF			
Figure 1 Definitions and Abbreviations Pages:			
			43 - 44

Term	Meaning	
AEP	American Electric Power	
ANI	American Nuclear Insurers	
BCSD	Berrien County Sheriff's Department	
CDE	Committed Dose Equivalent	
CLOCA	Containment Loss of Coolant Accident	
DAP	Dose Assessment Program	
EAD	Environmental Assessment Director	
ECC	Emergency Condition Category	
ED	Emergency Director	
EMD-32a	Nuclear Plant Event Notification form	
EMD-32b	Nuclear Plant Event Technical Data form	
EOC	Emergency Operations Center	
EOF	Emergency Operations Facility	
ENS	Emergency Notification System	
ERO	Emergency Response Organization	
FMT	Field Monitoring Team	
GE.	General Emergency	
HPN	Health Physics Network	
INPO	Institute of Nuclear Power Operations	
JPIC	Joint Public Information Center	
KI	Potassium Iodine thyroid blocking agent	

Reference	RMT-2080-EOF-001	Rev. 1	Page 44 of 48
Activation and Operation of the EOF			
Figure 1 Definitions and Abbreviations Pages: 43 - 44			

Term	Meaning
MSP	Michigan State Police
NOAA	National Oceanic and Atmospheric Administration
NRC	Nuclear Regulatory Commission
OSC	Operations Support Center
PAO	Protective Action Order
PAR	Protective Action Recommendation
PC	Personal Computer
PET	Plant Evaluation Team
PPC	Plant Process Computer
PORV	Power Operated Relief Valve
RDR	Real-Time Data Repository
RMS	Radiation Monitoring System
SAE	Site Area Emergency
STD	Standard Deviation
TEDE	Total Effective Dose Equivalent
TSC	Technical Support Center
X/Q	Mathematical term for Dispersion Coefficient
ΔΤ	Net Temperature Difference
ΔΖ	Net Vertical Distance

Reference	RMT-2080-EOF-001	Rev. 1	Page 45 of 48
Activation and Operation of the EOF			
Figure 2 Position Descriptions Pages: 45 - 48			

The position descriptions provided are intended as guidance. Deviations and additions to these descriptions are allowed as long as the accomplished objectives can be achieved.

Berrien County Liaison

- Reports to the Berrien County EOC at an SAE or GE. He should be dispatched at an Alert if escalation is expected.
- Assists county personnel with interpretation of data supplied by plant and state facilities as necessary.

Boardwriter

- Reports to the Communications Director.
- Obtains data from the other facilities and the EOF that is considered common to all facilities and the affected control room in a chronological order.
- Provides other facilities with information and decisions generated in the EOF.
- Maintains the Emergency classification Board with the proper emergency classification, classification time, and reasons for the classification.
- Documents incoming messages or inquiries to other EOF personnel on all-purpose message forms and forwards them to the Communication Director.
- Provides the EOF runners with copies of board data at, at least, 15-minute intervals.

Berrien County Sheriff Department Communicator

- Reports to the Communications Director.
- Prior to activation of the Berrien County EOC, provides plant status to the county.
- Upon activation of the Berrien County EOC, provides plant status and radioactive release data to the Berrien County Liaison.

Communications Director

- Reports to the Emergency Director.
- Directs and coordinates communication activities within the facility.

Computer Analyst

- Reports to the Communications Director.
- Provides for all repair/replacement of computer related equipment in the EOF.
- Operates the PPC/RDR used to display data throughout the EOF.

Emergency Director

- Is responsible for the overall command and control of the emergency.
- Assumes responsibility for Classification, Notification and PAR's.
- Communicates with senior state and county officials on plant conditions and PARs.
- Reviews press releases.
- Directs and coordinates EOF activities.

Reference	RMT-2080-EOF-001	Rev. 1	Page 46 of 48
Activation and Operation of the EOF			
Figure 2	Position Descripti	ons	Pages: 45 - 48

- Activates the EOF.
- Maintains regular communication with the other facility managers on the Managers Bridge.
- Updates EOF members through facility briefs on the status of the emergency approximately every 30 minutes.
- Informs the Environmental Assessment Director of changes in plant parameters that may effect off-site releases or PARs.

Emergency Planning

- Reports to the Emergency Director
- Provides facility oversite.
- Provides guidance to the ERO to ensure critical functions are completed in a timely manner.

Engineering Design & Site Services Manager

- Reports to the Emergency Director.
- Coordinates engineering and technical support from sources outside the ERO.
- Provides engineering support and analysis to the EOF.

ENS Communicator

- Reports to the Communications Director.
- Provides information to the NRC relative to plant equipment conditions and plant status.

Environmental Assessment Coordinator

- Reports to the Environmental Assessment Director.
- Evaluates plant effluent readings for indications of radiological releases.
- Evaluates off-site field team data.
- Performs dose assessment.
- Generates EMD-32 Nuclear Plant Accident Notification forms.
- Make recommendations to the Environmental Assessment Director relative to radioactive releases and plant status.

Environmental Assessment Director

- Reports to the Emergency Director.
- Directs and coordinators offsite radiological assessment.
- Provides basic direction to the Environmental Assessment Coordinators for performing dose assessment.
- Generates PARs
- Directs the Field Team Coordinator for placement of survey vehicles.
- Provides overall radiological habitability assessments of the EOF.

Reference	RMT-2080-EOF-001	Rev. 1	Page 47 of 48
Activation and Operation of the EOF			
Figure 2 Position Descriptions Pages: 45 - 48			

Fax Operator

- Reports to the Communications Director.
- Provides Fax services to personnel within the EOF.
- Forwards all copies of incoming Fax's to the facility Runners for distribution and maintenance.
- Forwards all original outgoing Fax's and data sheets to the Communications Director.

Field Monitoring Team Coordinator

- Reports to the Environmental Assessment Director.
- Directs off-site monitoring teams for tracking of radioactive releases (Plumes).
- Directs off-site monitoring teams for collection of post plume samples.
- Provides data plots to the Environmental Assessment Team showing plume locations and footprints.

HPN communicator

- Reports to the Communications Director.
- Provides information to the NRC relative to radiological conditions on-site and off-site releases.
- Provides PARs and Protective Action Orders information.

Industry Support Coordinator

- Reports to the Communications Director.
- Provides communications links to ANI, Westinghouse, and INPO relative to plant status and radioactive releases.

Michigan State Police Communicator

- Reports to the Communications Director
- Provides plant status and PAR data to the State of Michigan EOC.

Michigan State Police Liaison

- Reports directly to the State of Michigan Emergency Operations Center in Lansing, Michigan.
- Reports to the State of Michigan EOC at a SAE or GE. He should be dispatched at an Alert if escalation is expected.
- Obtains answers to inquiries form the State of Michigan and ensuring these responses are relayed to the State.
- Assists state personnel with interpretation of data supplied by plant facilities as necessary.

Reference	RMT-2080-EOF-001	Rev. 1	Page 48 of 48
Activation and Operation of the EOF			
Figure 2 Position Descriptions Pages: 45 - 48			

Operations Advisor

- Reports to the Emergency Director.
- Assists the ED with classification determinations.
- Provides EOF personnel and off-site agencies with plant status clarifications.

Reactor Physics Analyst

- Reports to the Engineering Design & Site Services Manager.
- Provides EOF personnel with the current core status.
- Determines the current reactor coolant status used in dose assessment.
- Coordinates core damage assessment with TSC-PET personnel.

Regulator Affairs Coordinator

- Reports to the Emergency Director.
- Provides guidance to the Emergency Director for license-based decisions and actions.
- Primary EOF contact for the NRC site response team.

Runner

- Reports to the Communications Director.
- Picks up and delivers copies of forms generated by EOF personnel needing either faxing to other facilities or duplication and distribution to EOF personnel.

Scheduling & Planning Manager

- Reports to the ED and Engineering Design and Site Services Manager.
- Provides support for items such as meals, transportation, temporary lodging, and other
 logistical issues for personnel within the ERO and other organizations responding to the
 facility.
- Purchases, leases, or contracts with suppliers for equipment, materials, or personnel necessary to support the emergency.

Security Director

- Reports to the Emergency Director.
- Maintains control of personnel entering and exiting the facility.
- Maintains control of unauthorized personnel within the owner controlled area at the Buchanan Office Building.
- Provides transportation to and from the plant as necessary.
- Arranges shift designations.

Telecommunications Personnel

- Reports to the Communications Director.
- Provide any communications equipment or repair/replacement necessary to support the emergency facilities.