

11986N

50-315/316

CONTROLLED DOCUMENT TRANSMITTAL

11986N

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Date: 06/01/2000

Initiator: TAMARA ANDERSON

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ISSUE OF 1 PMP EMERGENCY PLAN PROCEDURE

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Transmitted Controlled Document Listing: (1)

Document	Revision	Status	Title
PMP-2080-EPP.110	0003	Approved	TOXIC GAS RELEASE GUIDELINES

Controlled Document Transmittal Receipt and File Acknowledgement:

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A045

Signature

Date

Please sign and return within 14 calendar days to: **D. C. Cook Nuclear Plant
Nuclear Documents Mgmt (Mail Zone #1) - Document Control
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Nuclear Document Management Emergency Plan Procedure Index

NUCLEAR RECORDS
MANAGEMENT SECTION

JUN 01 2000

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PMP-2080-EPP.103	ALERT	5 06/30/1998	
PMP-2080-EPP.104	SITE AREA EMERGENCY	4 06/30/1998	
PMP-2080-EPP.105	GENERAL EMERGENCY	4 06/30/1998	
PMP-2080-EPP.106	INITIAL OFFSITE NOTIFICATION	14A 03/23/2000	
PMP-2080-EPP.107	NOTIFICATION OF PLANT PERSONNEL	13 06/30/1998	
PMP-2080-EPP.108	INITIAL DOSE ASSESSMENT	3 02/28/1995	
PMP-2080-EPP.110	TOXIC GAS RELEASE GUIDELINES	3 06/01/2000	
PMP-2080-EPP.111	NATURAL EMERGENCY GUIDELINES	1 02/06/1995	
PMP-2080-EPP.112	PERSONNEL INJURY	1 06/05/1997	
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PMP-2081-EPP.101	ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	3 06/30/1998	
PMP-2081-EPP.102	TSC EMERGENCY COMMUNICATIONS	6 04/13/1998	
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PMP-2081-EPP.201	ACTIVATION OF THE OPERATIONS STAGING AREA	2 06/30/1998	
PMP-2081-EPP.202	OPERATION OF THE OPERATIONS STAGING AREA	2 05/04/1993	
PMP-2081-EPP.202-CS1	OPERATION OF THE OPERATIONS STAGING AREA	2 02/23/1995	
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PMP-2081-EPP.207	BARRING OF THE PABX	2 08/07/1992	
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PMP-2081-EPP.209	ONSITE RADIOLOGICAL MONITORING	1 08/07/1992	
PMP-2081-EPP.210	UNIT VENT SAMPLING	2 05/02/2000	
PMP-2081-EPP.211	SECONDARY SYSTEMS SAMPLING	1 12/07/1998	
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PMP-2081-EPP.214	ENVIRONMENTAL SAMPLING	1 07/01/1996	
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PMP-2081-EPP.306	DE-ESCALATION OR TERMINATION OF THE EMERGENCY AND RECOVERY	2 10/27/1997	

REVIEW AND APPROVAL TRACKING FORM

Procedure Information:

Number: PMP 2080 EPP.110 Revision: 03 Change: 00

Title: Toxic Gas Release Guidelines **LEVEL OF USE: REFERENCE** *NV 5-21-00*

Category:

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| <input checked="" type="checkbox"/> Change (Full Procedure) with Review of Change Only | <input type="checkbox"/> Correction (Full Procedure) |
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| <input checked="" type="checkbox"/> Operations | <input type="checkbox"/> ALARA | <input type="checkbox"/> Nuc. Doc. Management |
| <input type="checkbox"/> Maintenance | <input checked="" type="checkbox"/> Training | <input type="checkbox"/> None Required |
| <input type="checkbox"/> Design Engineering | <input type="checkbox"/> Surveillance Section | NUCLEAR RECORDS
MANAGEMENT SECTION |
| <input type="checkbox"/> Plant Engineering | <input type="checkbox"/> Performance Assurance | |
| <input type="checkbox"/> Chemistry/RP | <input checked="" type="checkbox"/> Business Services Procedure Group | JUN 01 2000 |
| <input type="checkbox"/> Other: (Includes Technical Reviewer Determined Reviews) | | CONTROLLED DOCUMENT |

Writer Task Reviews:

- Revision Summary attached? Yes
- Safety Screening complete? SS/SE Tracking No: 2000-1093-00 Yes Exempt N/A
- Implementation Plan developed? (Ref. Step 3.4.17) Yes N/A
- Periodic Review conducted? (Data Sheet 5 Complete) Yes No
- Cognizant Org Review: BK Mollay Date: 5/31/00
- Technical Review: James R Brackley Date: 5/31/00
- Ops Mgr Concurrence: N/A Date: 1/1
- Owner Concurrence: M. Henderson for FRT Managers Date: 5/31/00
- Writer Review: BK Mollay Date: 5/31/00

Approvals:

- PORC Review Required: Yes No Mtg. No.: 3720
- Approval Authority Review/Approval: J. Black Date: 5/31/00
- Effective Date: 6/1/00

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REVISION SUMMARY

Number: PMP 2080 EPP.110 Revision: 03 Change: 00
 Title: Toxic Gas Release Guidelines

Section or Step	Change/Reason For Change
3.0	<p>Change: Added Calculation MD-12-HV-016-N to the reference section.</p> <p>Reason: Document the reason for the caution before step 4.4.1. This is a correction per PMP 2010 PRC.002, Rev. 5, para. 3.1.6.a.15 & PMP 1040 SES.001, Rev. 11, para. 3.13.1 (o).</p>
Caution before step 4.4.1	<p>Change: Added caution before step 4.4.1 that cautions against isolating the control room if there is a freon leak from the control room air conditioning system.</p> <p>Reason: Calculation MD-12-HV-016-N assumed that fresh air would be supplied to the control room in the event of a freon leak from the control room air conditioning system. This fresh air supply would provide adequate dilution flow to maintain a habitable atmosphere in the control room. Therefore, if the freon is leaking the operators must not isolate the control room.</p>
Note before step 4.4.1	<p>Change: Reformatted note box, no change in wording.</p> <p>Reason: Make format consistent with caution, this is a correction per PMP 2010 PRC.002, Rev. 5, para. 3.1.6.a.11 & PMP 1040 SES.001, Rev.11, para. 3.13.1 (k).</p>
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4.4.1	<p>Change: Added dampers "2-ACRDA-1A" & "2-ACRDA-2A" to the list of dampers to be closed (2-ACRDA-1A is redundant to 2-ACRDA-1 so either damper can be closed).</p> <p>Reason: 2-DCP-0574 added the dampers to the control room ventilation system.</p>
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REVISION SUMMARY

Number: PMP 2080 EPP.110

Revision: 03

Change: 00

Title: Toxic Gas Release Guidelines

4.4.1	<p>Change: Separated damper lists to unit specific categories.</p> <p>Reason: To comply with desired Operations department procedure format, this is a correction per PMP 2010 PRC.002, Rev.5, para. 3.1.6.a.18 & PMP 1040 SES.001, Rev.11, para 3.13.1 (r).</p>
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AMERICAN ELECTRIC POWER
DONALD C. COOK NUCLEAR PLANT

1.0 **TITLE:** TOXIC GAS RELEASE GUIDELINES

2.0 **OBJECTIVE**

This procedure provides the actions to be taken to mitigate the impact of a toxic gas release on plant and personnel safety.

3.0 **REFERENCE**

Donald C. Cook Plant Emergency Plan
Calculation MD-12-HV-016-N

4.0 **DETAILED PROCEDURE**

4.1 **Responsibilities**

- 4.1.1 The Site Emergency Coordinator (SEC) is responsible for initiating this procedure and for directing mitigating actions.
- 4.1.2 The HAZMAT Team Safety Officer is responsible for the on-scene actions of the HAZMAT Team in response to a toxic gas release and for providing status reports to the Incident Commander.
- 4.1.3 The Incident Commander is responsible for directing the actions of the HAZMAT Team and for updating and advising the SEC.

4.2 **Limitation**

- 4.2.1 For releases originating offsite, Plant personnel may be called upon to assist the Berrien County Sheriff's Department or the Michigan State Police. When called upon to assist offsite agencies, the Plant response shall be limited to technical support only.

4.3 **Prerequisites**

- 4.3.1 The Plant must be at a declared emergency classification (Unusual Event, Alert, Site Area Emergency or General Emergency) per PMP 2080 EPP.101, "Emergency Classification" before this procedure can be initiated.

4.4 Actions of the Site Emergency Coordinator and the Incident Commander

CAUTION

Do **NOT** isolate the Control Room if there are indications of a freon leak from the Control Room air conditioning system.

NOTE

The Control Room shall remain isolated until the source is located or a determination is made that the Hazard no longer exists.

DO NOT start a Control Room pressurization fan.

- 4.4.1 The SEC shall direct Control Room operators to isolate the Control Room whenever a toxic or unknown gas is detected in the Control Room or it is likely that gas will enter the Control Room. Isolate the Control Room as follows:

Close, or verify closed, the following dampers from the Control Room or from 650' elevation control panel:

UNIT 1

- 1-ACRDA-1, Control Room Vent Intake Damper
- 1-ACRDA-2, CR PRZN CLN-UP Intake Damper
- 1-ACRDA-3, CR PRZN CLN-UP Recirc Damper

UNIT 2

- 2-ACRDA-1, Control Room Vent Intake Damper **OR**
2-ACRDA-1A, Control Room Vent Intake Damper
- 2-ACRDA-2, CR PRZN CLN-UP Intake Damper
- 2-ACRDA-2A, CR PRZN CLN-UP Intake Damper
- 2-ACRDA-3, CR PRZN CLN-UP Recirc Damper

- 4.4.2 The Incident Commander shall determine the need for donning SCBA's.
- 4.4.3 The Incident Commander shall notify the HAZMAT Team and direct them to respond to the incident.
- 4.4.4 The Incident Commander shall direct the verification of the existence of a toxic gas release. This includes identifying the toxic substance if possible, determining the concentration of toxic substance if possible, determining the extent that the toxic gas plume has affected site area and plant personnel, and identifying the source of the toxic gas.
- 4.4.5 The SEC shall maintain surveillance over the situation, direct all required emergency operations, and diagnose extent of emergency.

- 4.4.6 The SEC shall recommend, to offsite agencies, the escalation or termination of the emergency, based on HAZMAT Team reports. See PMP 2080 EPP.101, "Emergency Classification", ECC-9: Toxic gas for emergency classification guidance.

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Nuclear Document Management

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| <input type="checkbox"/> Maintenance | <input checked="" type="checkbox"/> Training | <input type="checkbox"/> None Required |
| <input type="checkbox"/> Design Engineering | <input type="checkbox"/> Surveillance Section | |
| <input type="checkbox"/> Plant Engineering | <input type="checkbox"/> Performance Assurance | |
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| <input type="checkbox"/> Other: (Includes Technical Reviewer Determined Reviews) | | |

NUCLEAR RECORDS
MANAGEMENT SECTION

JUN 01 2000

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DOCUMENT

Writer Task Reviews:

- Revision Summary attached? Yes
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- Implementation Plan developed? (Ref. Step 3.4.17) Yes N/A
- Periodic Review conducted? (Data Sheet 5 Complete) Yes No
- Cognizant Org Review: BK Malloy Date: 5/31/00
- Technical Review: James R Brudaker Date: 5/31/00
- Ops Mgr Concurrence: N/A Date: / /
- Owner Concurrence: M. Henderson for PRT Timmins Date: 5/31/00
- Writer Review: BK Malloy Date: 5/31/00

Approvals:

- PORC Review Required: Yes No Mtg. No.: 3720
- Approval Authority Review/Approval: J. Black Date: 5/31/00
- Effective Date: 6/1/00

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REVISION SUMMARY

Number: PMP 2080 EPP.110 Revision: 03 Change: 00

Title: Toxic Gas Release Guidelines

Section or Step	Change/Reason For Change
3.0	<p>Change: Added Calculation MD-12-HV-016-N to the reference section.</p> <p>Reason: Document the reason for the caution before step 4.4.1. This is a correction per PMP 2010 PRC.002, Rev. 5, para. 3.1.6.a.15 & PMP 1040 SES.001, Rev. 11, para. 3.13.1 (o).</p>
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AMERICAN ELECTRIC POWER
DONALD C. COOK NUCLEAR PLANT

1.0 **TITLE:** TOXIC GAS RELEASE GUIDELINES

2.0 **OBJECTIVE**

This procedure provides the actions to be taken to mitigate the impact of a toxic gas release on plant and personnel safety.

3.0 **REFERENCE**

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Calculation MD-12-HV-016-N

4.0 **DETAILED PROCEDURE**

4.1 **Responsibilities**

- 4.1.1 The Site Emergency Coordinator (SEC) is responsible for initiating this procedure and for directing mitigating actions.
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4.2 **Limitation**

- 4.2.1. For releases originating offsite, Plant personnel may be called upon to assist the Berrien County Sheriff's Department or the Michigan State Police. When called upon to assist offsite agencies, the Plant response shall be limited to technical support only.

4.3 **Prerequisites**

- 4.3.1 The Plant must be at a declared emergency classification (Unusual Event, Alert, Site Area Emergency or General Emergency) per PMP 2080 EPP.101, "Emergency Classification" before this procedure can be initiated.

4.4 Actions of the Site Emergency Coordinator and the Incident Commander

CAUTION

Do NOT isolate the Control Room if there are indications of a freon leak from the Control Room air conditioning system.

NOTE

The Control Room shall remain isolated until the source is located or a determination is made that the Hazard no longer exists.

DO NOT start a Control Room pressurization fan.

- 4.4.1 The SEC shall direct Control Room operators to isolate the Control Room whenever a toxic or unknown gas is detected in the Control Room or it is likely that gas will enter the Control Room. Isolate the Control Room as follows:

Close, or verify closed, the following dampers from the Control Room or from 650' elevation control panel:

UNIT 1

- 1-ACRDA-1, Control Room Vent Intake Damper
- 1-ACRDA-2, CR PRZN CLN-UP Intake Damper
- 1-ACRDA-3, CR PRZN CLN-UP Recirc Damper

UNIT 2

- 2-ACRDA-1, Control Room Vent Intake Damper **OR**
2-ACRDA-1A, Control Room Vent Intake Damper
- 2-ACRDA-2, CR PRZN CLN-UP Intake Damper
- 2-ACRDA-2A, CR PRZN CLN-UP Intake Damper
- 2-ACRDA-3, CR PRZN CLN-UP Recirc Damper

- 4.4.2 The Incident Commander shall determine the need for donning SCBA's.
- 4.4.3 The Incident Commander shall notify the HAZMAT Team and direct them to respond to the incident.
- 4.4.4 The Incident Commander shall direct the verification of the existence of a toxic gas release. This includes identifying the toxic substance if possible, determining the concentration of toxic substance if possible, determining the extent that the toxic gas plume has affected site area and plant personnel, and identifying the source of the toxic gas.
- 4.4.5 The SEC shall maintain surveillance over the situation, direct all required emergency operations, and diagnose extent of emergency.

- 4.4.6 The SEC shall recommend, to offsite agencies, the escalation or termination of the emergency, based on HAZMAT Team reports. See PMP 2080 EPP.101, "Emergency Classification", ECC-9: Toxic gas for emergency classification guidance.