

INDIANA & MICHIGAN POWER COMPANY  
DONALD C. COOK NUCLEAR PLANT

PLANT MANAGER PROCEDURE

Index

Identification Number	Title	Revision No. And Date	Comments
PMP 2080 EPP.013	Duties of the Individual Who Discovers an Emergency Condition	Rev. 1 6-24-82	
EPP.014	Personnel Injury	Revision 1 6-15-82	
EPP.015	Responsibility of the On-Site Emergency Coordinator	Revision 2 10-12-82	
EPP Appendix A	Telephone Numbers for Key Plant Personnel	Revision 3 9-23-82	
EPP Appendix B	Hospital Assistance Plan	Revision 3 10-1-82	
EPP Appendix C	Radiological Supplement	Revision 0 4-1-81	

100

**INDIANA & MICHIGAN**  
ELECTRIC COMPANY  
DONALD C. COOK NUCLEAR PLANT

PROCEDURE COVER SHEET

Procedure No. PMP-2080 EPP.015

Revision No. 2

TITLE RESPONSIBILITIES OF THE ON-SITE EMERGENCY COORDINATOR

SCOPE OF REVISION

Revision 1 --Clarified the responsibilities of the OSEC to include activation of emergency centers. Also, referenced PMP 2080 EPP.006, Initial Dose Assessment and PMP 2080 EPP.012, Initial Off-Site Notifications. Added Exhibit A.

Revision 2 - Incorporated temporary sheets. Replaced references to the Emergency Control Center and Recovery Center with reference to the Emergency Operations Facility.

SIGNATURES

	ORIGINAL	Rev. 1	REV. 2	Rev. 3
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LIST OF EFFECTIVE PAGES

<u>Page Number</u>		<u>Revision Number And Date</u>
Page 1 of 13		Revision 2, 10-12-82
Page 2 of 13		Revision 2, 10-12-82
Page 3 of 13		Revision 2, 10-12-82
Page 4 of 13		Revision 2, 10-12-82
Page 5 of 13	Exhibit A	Revision 2, 10-12-82
Page 6 of 13	Exhibit A	Revision 2, 10-12-82
Page 7 of 13	Exhibit A	Revision 2, 10-12-82
Page 8 of 13	Exhibit A	Revision 2, 10-12-82
Page 9 of 13	Exhibit A	Revision 2, 10-12-82
Page 10 of 13	Exhibit A	Revision 2, 10-12-82
Page 11 of 13	Exhibit A	Revision 2, 10-12-82
Page 12 of 13	Exhibit A	Revision 2, 10-12-82
Page 13 of 13	Exhibit A	Revision 2, 10-12-82

INDIANA & MICHIGAN ELECTRIC COMPANY,  
DONALD C. COOK NUCLEAR PLANT

RESPONSIBILITIES OF THE ON-SITE EMERGENCY COORDINATOR

1.0 OBJECTIVES

This procedure describes the responsibilities of and line of succession to the On-Site Emergency Coordinator.

2.0 RESPONSIBILITY

The On-Site Emergency Coordinator (OSEC) is responsible for overall plant emergency response functions. As such, the OSEC is responsible for:

- Declaration of an Emergency Condition
- Determination of Protective Actions
- Ensuring Prompt Notification of emergency classification and appropriate protective actions to off-site authorities.
- Overall management of site resources in response to the emergency
- Declaration of entry into a recovery phase (de-escalation of event classification of operations).

The OSEC is additionally responsible for ensuring activation of:

- The Technical Support Center and Operations Staging Area for an Alert Classification
- The Joint Public Information Center, the American Electric Power Emergency Response Organization, and the Emergency Operations Facility for a Site Emergency Classification

The S.S. is the individual on site at all times who has the responsibility and authority to carry out the functions of the OSEC. The SS is superseded as the OSEC by senior company personnel as they arrive on site, as follows:

- Executive Vice President - Construction and New York Engineering
- Assistant Vice President and Chief Nuclear Engineer
- D. C. Cook Plant Manager
- Assistant Plant Manager in order of Seniority
- Operations Superintendent
- Production Supervisor of Affected Unit

3.0 APPLICABILITY

This procedure is applicable upon activation of the Emergency Plan.

#### 4.0 ACTIONS

NOTE: See Exhibit A for a summary of each emergency classification; including definition, dose levels, Cook Plant actions, and offsite authority actions.

4.1 The S.S. shall act as the On-Site Emergency Coordinator until relieved of this responsibility by the Plant Manager or his designated alternate, or the emergency condition terminated.

4.1.1 The SS/OSEC shall implement PMP 2080 EPP.001.

4.1.2 If protective actions of the public are appropriate, as determined by PMP 2080 EPP.006, the SS/OSEC shall ensure immediate notification of the Michigan State Police and the Berrien County Sheriff's Department.

4.1.3 The SS/OSEC shall insure implementation of PMP 2080. EPP.012, Initial Off-Site Notifications.

4.2 The Plant Manager or his designated alternate shall replace the SS as OSEC until relieved by the Vice President - Construction and New York Engineering, or the emergency condition terminated.

4.2.1 The PM/OSEC shall additionally implement the below listed procedures as appropriate:

4.2.1.1 PMP 2081 EPP.001 Emergency Telephone Communications

4.2.1.2 PMP 2081 EPP.002 Barring of the PABX

4.2.1.3 PMP 2081 EPP.003 Follow-Up of Off-Site Communications

4.2.1.4 PMP 2081 EPP.004 Protective Action Guides (PAGs) and Protective Actions

4.2.1.5 PMP 2081 EPP.005 Personnel Evacuation

4.2.1.6 PMP 2081 EPP.006 Activation of the Re-entry and Rescue Team

4.2.1.7 PMP 2081 EPP.007 Security Actions During Emergency Conditions

4.2.1.8 PMP 2081 EPP.008 Emergency Medical Plan Guidelines

4.2.1.9 PMP 2081 EPP.009 Health Physics Procedures

- 4.2.1.10 PMP 2081 EPP.010 Activation of Radiation Monitoring Teams
- 4.2.1.11 PMP 2081 EPP.011 On-Site Radiological Monitoring
- 4.2.1.12 PMP 2081 EPP.012 Off-Site Radiological Monitoring
- 4.2.1.13 PMP 2081 EPP.013 Environmental Monitoring and Analysis
- 4.2.1.14 PMP 2081 EPP.014 Off-Site Dose Assessments
- 4.2.1.15 PMP 2081 EPP.015 Sampling and Analysis of Waterborne Releases
- 4.2.1.16 PMP 2081 EPP.016 Collection and Analysis of Liquid and Gaseous Samples
- 4.2.1.17 PMP 2081 EPP.017 Interpretation of Liquid and Gaseous Samples
- 4.2.1.18 PMP 2081 EPP.018 Transportation Accidents Involving Radioactive Material
- 4.2.1.19 PMP 2081 EPP.019 AEP Emergency Response Organization Activation and Management
- 4.2.1.20 PMP 2081 EPP.020 Activation and Operation of the Technical Support Center (TSC)
- 4.2.1.21 PMP 2081 EPP.021 Activation and Operation of the Operation Staging Area (OSA) and Personnel Accountability
- 4.2.1.22 PMP 2081 EPP.022 Activation and Operation of the Emergency Operations Facility
- 4.2.1.23 PMP 2081 EPP.024 Activation and Operation of the Joint Public Information Center (JPIC) (An Emergency Operations Facility)
- 4.2.1.24 PMP 2081.EPP.026 Use of Stable Iodine for Thyroid Blocking During A Radiation Emergency

4.2.2 The PM/OSEC shall, after consultation with Federal, State, and County officials, de-escalate emergency classifications thereby entering the recovery stage of operations.

4.3 The Vice President - Construction and New York Engineering or his designated alternate shall replace the Plant Manager as On-Site Emergency Coordinator, upon his arrival on site and until the emergency condition is terminated.

4.3.1 The VP/OSEC shall, after consultation with Federal, State, and County officials, de-escalate emergency classifications thereby entering the recovery stage of operations.



UNUSUAL EVENT

1.0 Description

- 1.1 Events are in process or have occurred which are defined as an in-Plant occurrence requiring only in-Plant action to mitigate the event. The event does not affect the health and safety of the public.

2.0 Purpose

- 2.1 Assure Plant staff members are notified.  
2.2 Activate appropriate emergency response.

3.0 Radiological Emergency Action Level at Site Boundary

- 3.1 No radiological releases.

4.0 Protective Action Guide (Limiting Values)

- 4.1 To population due to external and inhalation exposure - none.  
4.2 For contaminated human and animal food - none.

5.0 Cook Plant Action

- 5.1 Promptly inform State and County Authorities and Plant Staff in accordance with PMP 2080.EPP.012, Initial Off-Site Notifications, and PMP 2080.EPP.008, Initial Manning of the Emergency Response Facilities and Calling Off-Duty Plant Personnel.  
5.2 Verbally notify the NRC. Follow with written notification as required by Technical Specifications and significant events. (10CFR 50.72)  
5.3 Assess and respond.  
5.4 Close out by verbal summary to NRC, State/County Authorities, as required.

(or)

- 5.5 Escalate to a more serious level.

6.0 Off-Site Authority Action

- 6.1 Provide assistance, as requested, in accordance with established agreements and emergency plans.  
6.2 County will notify appropriate State and Local agencies as required.

ALERT

1.0 Description

- 1.1 Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the Plant. The alert could possibly affect the health and safety of the public.

2.0 Purpose

- 2.1 Assure that emergency personnel are readily available to respond, if the situation becomes more serious, or to perform confirmatory radiation monitoring if required.
- 2.2 Provide offsite authorities with current status information.

3.0 Radiological Emergency Action Level at Site Boundary

- 3.1 2mR in one hour.

(or)

- 3.2 Liquid effluent concentrations greater than 10 times Technical Specification limits for a mixture of radioisotopes or a single isotope.

4.0 Protective Action Guide (Limiting Values)

- 4.1 To population due to external and inhalation exposure:

Whole body dose < 0.5R  
Thyroid dose < 5R

- 4.2 For contaminated human and animal food:

Whole body dose < 0.5R  
Thyroid dose < 1.5R

5.0 Cook Plant Action

- 5.1 Promptly inform State and County Authorities and Plant Staff in accordance with PMP 2080.EPP.012, Initial Off-Site Notifications, and PMP 2080.EPP.008, Initial Manning of the Emergency Response Facilities and Calling Off-Duty Plant Personnel.
- 5.2 Verbally notify the NRC. Follow with written notification as required by Technical Specifications and significant events. - (10 CFR 50.72)
- 5.3 Assess and respond.

ALERT - Continued

- 5.4 Activate the Technical Support Center and Operations Staging Area.
- 5.5 Place Emergency Operations Facility personnel on standby, as appropriate.
- 5.6 Activate other emergency functions/resources as required.
- 5.7 Alert appropriate members of the AEP Emergency Response Organization to standby only (not to travel to Cook Plant).
- 5.8 Dispatch on-site monitoring teams and associated communications if necessary.
- 5.9 Provide periodic Plant status updates to off-site authorities.
- 5.10 Provide meteorological and dose estimates to off-site authorities for actual releases, and dose projections on foreseeable contingencies.
- 5.11 Close out by verbal summary to NRC and off-site State/County Authorities.

(or)

- 5.12 Escalate to a more severe level.

6.0 Off-Site Authority Action

- 6.1 Provide assistance as requested in accordance with established agreements and emergency plans.
- 6.2 County will notify appropriate State and Local agencies as required.
- 6.3 Augment State and County EOC's as appropriate.
- 6.4 No protective actions are required for levels below those listed in the Protective Action Guide (Section 3.0 and 4.0 above).
- 6.5 Michigan Department of Public Health (DPH) will monitor and investigate the cause of radiation levels and assure that corrective action measures are progressing.
- 6.6 DPH will consider issuing an advisory to seek shelter or to evacuate.
- 6.7 DPH and Department of Agriculture (DA) will monitor food and milk as required.
- 6.8 Alert to standby status additional resources as appropriate.
- 6.9 Escalate to a more severe level, if necessary.

SITE EMERGENCY

1.0 Description

- 1.1 Events are in process or have occurred which involve actual failures of Plant functions needed to mitigate the events for protection of the public.

2.0 Purpose

- 2.1 Activate the required response centers.
- 2.2 Assure that monitoring teams are mobilized.
- 2.3 Assure that personnel required for taking protective actions are at duty stations if situation becomes more serious.
- 2.4 Provide current information for off-site authorities.

3.0 Radiological Emergency Action Level at Site Boundary

- 3.1 50 mR/hr for 30 minutes whole body.  
250 mR/hr for 30 minutes thyroid.  
(or)
- 3.2 500 mR/hr for 2 minutes whole body.  
2.5 R/hr for 2 minutes thyroid.  
(or)
- 3.3 500 mR/hr in 30 days whole body.  
2.5 R in 30 days thyroid.  
(or)
- 3.4 Containment reading of  $1.03 \times 10^6$  R/hr  
(or)
- 3.5 Liquid effluent concentrations greater than 50 times Technical Specification limits for a mixture of radioisotopes or a single isotope.

4.0 Protective Action Guide (Limiting Values)

- 4.1 To population due to external and inhalation exposure:

.5R  $\leq$  Whole Body Dose < 5R  
5R  $\leq$  Thyroid Dose < 25R

SITE EMERGENCY - Continued

4.2 For contaminated human and animal food:

0.5R  $\leq$  Whole Body Dose  $< 5R$   
1.5R  $\leq$  Thyroid Dose  $< 15R$

5.0 Cook Plant Action

- 5.1 Sound the Nuclear Emergency Alarm. Follow with a P.A. announcement indicating the emergency classification and any general instructions.
- 5.2 Promptly inform State and County Authorities, and Plant Staff in accordance with PMP 2080 EPP.012, Initial Off-Site Notifications, and PMP 2080 EPP.008, Initial Manning of the Emergency Response Facilities and Calling Off-Duty Plant Personnel.
- 5.3 Verbally notify the NRC. Follow with written notification as required by technical specifications and significant events (10CFR 50.72).
- 5.4 Assess and respond.
- 5.5 Activate the Technical Support Center, Operations Staging Area, Emergency Operations Facility, Joint Public Information Center, and the American Electric Power Emergency Response Organization.
- 5.6 Activate other emergency functions and resources, as required.
- 5.7 Notify appropriate members of the AEP Emergency Response Organization.
- 5.8 Dispatch on-site monitoring teams and associated communications if necessary.
- 5.9 Provide periodic Plant status updates to off-site authorities.
- 5.10 Provide meteorological and dose estimates to off-site authorities for actual releases, and dose projections on foreseeable contingencies.
- 5.11 Make Senior Technical and Management Staff available on-site for consultation with NRC, State and County personnel on a periodic basis.
- 5.12 Close out or reduce class category. Provide briefing to off-site authorities.
- (or)
- 5.13 Escalate to General Emergency Level.

6.0 Off-Site Authority Action

- 6.1 Provide assistance as requested in accordance with established agreements and emergency plans.
- 6.2 County will notify appropriate State and Local agencies, as required.
- 6.3 Augment State and County EOC's as appropriate.
- 6.4 Alert to standby status additional resources as appropriate.
- 6.5 Michigan Department of Public Health (DPH) will monitor and investigate the cause of radiation levels and assure that corrective action measures are progressing.
- 6.6 Consult with Cook Plant personnel on results of radiological surveys being conducted.
- 6.7 Assess information provided by all agencies concerned in monitoring of actual releases.
- 6.8 Protective action may be required for the public. Public notification may be deemed necessary.
- 6.9 DPH may advise individuals to seek shelter and await further instructions.
- 6.10 DPH may consider evacuation, particularly for children and pregnant women, based on monitoring results.
- 6.11 Michigan Department of Agriculture (DA) in conjunction with DPH will divert, condemn or dispose of food and issue advisories regarding home-grown foods and protective action of animals if necessary.
- 6.12 DPH and DA will monitor food and especially milk as required.
- 6.13 State Police will control access to areas affected to avoid unnecessary exposure to individuals if necessary.
- 6.14 Provide for press briefings and releases.
- 6.15 Maintain Site Emergency until closeout or reduction in class.
- 6.16 Escalate to General Emergency if necessary.

GENERAL EMERGENCY

1.0 Description

- 1.1 Events are in process or have occurred which involve actual substantial core degradation, or melting with imminent potential for loss of containment integrity.

2.0 Purpose

- 2.1 Initiate protective actions for public.
- 2.2 Provide continuous assessment of information from Cook Plant and off-site measurements.
- 2.3 Initiate additional measures as indicated by actual or potential releases.
- 2.4 Provide current information for off-site authorities.

3.0 Radiological Emergency Action Level at Site Boundary

- 3.1 Whole body dose  $\geq$  500 MR in 2 hours.

Thyroid dose  $\geq$  2.5 R in 2 hours.

(or)

- 3.2 Whole body dose  $\geq$  5 R in 30 days.

Thyroid dose  $\geq$  25 R in 30 days.

(or)

- 3.3 Containment reading of  $10.4 \times 10^6$  R/HR.

- 3.4 Liquid effluent concentrations greater than 500 times Technical Specification limits for a mixture of radioisotopes or a single isotope.

4.0 Protective Action Guide (Limiting Values)

- 4.1 To population due to external and inhalation exposure

Whole body dose  $\geq$  5 R

Thyroid dose  $\geq$  25 R

- 4.2 For contaminated human and animal food

Whole body dose  $\geq$  5 R

Thyroid dose  $\geq$  15 R

GENERAL EMERGENCY - Continued

5.0 Cook Plant Action

- 5.1 Sound the Nuclear Emergency Alarm. Follow with a P.A. announcement indicating the emergency classification and any general instructions.
- 5.2 Promptly inform State and County Authorities, and Plant Staff in accordance with PMP 2080 EPP.012, Initial Off-Site Notifications, and PMP 2080 EPP.008, Initial Manning of the Emergency Response Facilities and Calling Off-Duty Plant Personnel.
- 5.3 Verbally notify the NRC. Follow with written notification as required by technical specifications and significant events (10CFR 50.72).
- 5.4 Assess and respond.
- 5.5 Activate the Technical Support Center, Operations Staging Area, Emergency Operations Facility, Joint Public Information Center, and the American Electric Power Emergency Response Organization.
- 5.6 Activate other emergency functions and resources, as required.
- 5.7 Notify appropriate members of the AEP Emergency Response Organization.
- 5.8 Dispatch on-site monitoring teams and associated communications if necessary.
- 5.9 Provide periodic Plant status updates to off-site authorities.
- 5.10 Provide meteorological and dose estimates to off-site authorities for actual releases, and dose projections on foreseeable contingencies.
- 5.11 Make Senior Technical and Management Staff available on-site for consultation with NRC, State and County personnel on a periodic basis.
- 5.12 Recommend the Berrien County Sheriff's Department and Michigan State Police consider the following protective actions as a minimum:
  - 5.12.1 Activation of the Siren Warning System
  - 5.12.2 Sheltering within a two-mile radius and five miles downwind
  - 5.12.3 Placing cows within ten miles on stored feed, if appropriate
- 5.13 Close out or recommend reduction of emergency class by briefing of off-site authorities.



GENERAL EMERGENCY - Continued

6.0 Off-Site Authority Action

- 6.1 Provide assistance as requested in accordance with established agreements and emergency plans.
- 6.2 County will notify appropriate State and Local agencies, as required.
- 6.3 Augment State and County EOC's as appropriate.
- 6.4 Alert to standby status additional resources as appropriate.
- 6.5 Michigan Department of Public Health (DPH) will monitor and investigate the cause of radiation levels and assume that corrective action measures are progressing.
- 6.6 Recommend sheltering in a two (2) mile radius and five (5) miles downwind.
- 6.7 Consult with Cook Plant personnel on results of radiological surveys being conducted.
- 6.8 Further protective actions may be required for the public. DPH may consider evacuation, particularly for children and pregnant women, based on monitoring results.
- 6.9 State Police will control access to areas affected to avoid unnecessary exposure to individuals if necessary.
- 6.10 Assess information provided by all agencies concerned in monitoring of actual releases.
- 6.11 DPH will coordinate and perform the monitoring of environmental radiation levels.
- 6.12 Recommend placing milk animals within LPZ on stored feed.
- 6.13 Michigan Department of Agriculture (DA) in conjunction with DPH will divert, condemn or dispose of food, and issue advisories regarding home-grown foods and protective action of animals if necessary.
- 6.14 Provide for press briefings and releases.
- 6.15 Maintain a General Emergency until closeout or reduction of class.