

INDIANA & MICHIGAN
ELECTRIC COMPANY
DONALD C. COOK NUCLEAR PLANT

Instruction or Procedure Temporary Sheet

<p>This temporary sheet applies to <u>OFF-SITE DOSE ASSESSMENTS</u></p> <p>Instruction or Procedure No. <u>PMP 2081 EPP.014</u></p> <p>Revision No. <u>1</u></p>	<p>TEMPORARY SHEET NO. <u>3</u> TP-2</p>
<p>The following change (<input checked="" type="checkbox"/>) new requirement () shall be instituted effective (Date) <u>17 May, 1983</u>.</p> <p>REPLACE the following pages as indicated:</p> <p style="margin-left: 40px;">List of Effective Pages, Page 2 of 2, Revision 1, TP-1 with Revision 1, TP-2</p> <p style="margin-left: 40px;">EXHIBIT T, Page 1 of 1, Revision 1 with Revision 1, TP-2</p> <p><u>REASON FOR CHANGE:</u> To meet new FDA recommendations for use of KI as a thyroid blocking agent in the event of a radiological emergency.</p> <div style="text-align: right; border: 1px solid black; padding: 5px; margin-top: 10px; width: fit-content;"><p style="font-size: 1.5em; margin: 0;">DCR</p><p style="margin: 0;">MAY 26 1983</p></div>	
<p>This change should be made a permanent revision to the Instruction or Procedure:</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NOT KNOWN, additional review required</p>	
<p>Expiration Date: <u>PROCEDURE REVISION</u></p> <p>Originator: <u>Mary A. Glosman</u></p> <p>Management Staff: <u>Michael Deegan</u></p> <p>Senior Reactor Operator: <u>W. J. P. [Signature]</u></p> <p>PNSRC <u>[Signature]</u> Date <u>5/24/83</u></p> <p>Plant Manager <u>[Signature]</u> Date <u>5/24/83</u></p>	<p>Standard Dist. List No.: _____</p> <p>Distribution: _____</p>

Form No. 4330

REVISED 7/78

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PINK — WORKING COPY

LIST OF EFFECTIVE PAGES

<u>Page Number</u>	<u>Revision Number and Date</u>
EXHIBIT S, Page 1 of 1	Revision 1 - Oct.12, 1982
EXHIBIT T, Page 1 of 1	Revision 1 - TP-2
EXHIBIT U, Page 1 of 1	Revision 1 - Oct.12, 1982
EXHIBIT V, Page 1 of 1	Revision 1 - Oct.12, 1982
EXHIBIT W, Page 1 of 1	Revision 1 - Oct.12, 1982
EXHIBIT X, Page 1 of 1	Revision 1 - TP-1
EXHIBIT Y, Page 1 of 1	Revision 1 - TP-1

RECOMMENDED PROTECTIVE ACTIONS FOR POPULATION AND WORKERS

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<u>Projected Dose (Rem)</u>		<u>Recommended Action(s)</u> ^(a)	<u>Comments</u>
<u>To the Population</u>			
Whole Body	Less than 1.0	No planned protective action ^(b) . State may issue an advisory to seek shelter and wait further instructions. Monitor environmental radiation levels.	Previously recommended protective actions may be reconsidered or terminated.
Thyroid	Less than 5.0		
Whole Body	1.0 to less than 5.0	<u>Seek shelter as a minimum. Consider evacuation. Evacuate unless constraints make it impractical.</u> Monitor environmental radiation levels. Control access.	If constraints, exist, special consideration should be given for <u>evacuation of children and pregnant women.</u>
Thyroid	5.0 to less than 25.0		
Whole Body	5 and above	Conduct <u>mandatory evacuation.</u> Monitor environmental radiation levels and adjust area for mandatory evacuation based on these.	Seeking shelter would be an alternative if evacuation were not immediately possible.
Thyroid	25 and above		
<u>To Emergency Workers</u>			
Whole Body	25	Control exposure of emergency team members to these levels except for lifesaving missions. (Appropriate controls for emergency workers include time limitations, respirators, and stable iodine. Administer KI tablets if thyroid dose is projected to be ≥ 25 R.)	Although respirators and stable iodine should be used where effective to control dose to emergency team workers, thyroid dose may not be a limiting factor for lifesaving missions ^(c) !
Thyroid	125		
Whole Body	75	Control exposure of emergency personnel performing lifesaving missions to this level. (Control of time of exposure will be most effective.)	

(a) These actions are recommended for planning purposes. Protective action decisions at the time of the incident must take existing conditions into consideration.

(b) At the time of the incident, officials may implement low-impact protective actions in keeping with the principle of maintaining radiation exposures as low as reasonably achievable.

(c) If one or more lives is likely to be saved, no upper limit for thyroid dose is established.

Revision 1, TP-2

PMP 2081.EPP.014
EXHIBIT 1

INDIANA & MICHIGAN
ELECTRIC COMPANY
DONALD C. COOK NUCLEAR PLANT

Instruction or Procedure Temporary Sheet

<p>This temporary sheet applies to USE OF STABLE IODINE FOR THYROID BLOCKING DURING A RADIATION EMERGENCY Instruction or Procedure No. PMP 2081 EPP.026 Revision No. 1</p>	<p>TEMPORARY SHEET NO. TP-1</p>
<p>The following change (<input checked="" type="checkbox"/>) new requirement () shall be instituted effective (Date) <u>17 May, 1983</u> P. 1061</p> <p>REPLACE the following pages as indicated:</p> <p>List of Effective Pages, Page 1 of 1, Revision 1 with Revision 1, TP-1 Page 1 of 3, Revision 1 with Revision 1, TP-1</p> <div style="text-align: center; margin: 20px 0;"><div style="border: 1px solid black; padding: 10px; display: inline-block;">DCR MAY 26 1983</div></div> <p><u>REASON FOR CHANGE:</u> To meet new FDA recommendations for use of KI as a thyroid blocking agent in the event of a radiological emergency.</p>	
<p>This change should be made a permanent revision to the Instruction or Procedure:</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NOT KNOWN, additional review required</p>	
<p>Expiration Date: <u>PROCEDURE REVISION</u> Originator: <u>Mary G. Clissman</u> Management Staff: <u>Paul Palmer</u> <i>MS</i> Senior Reactor Operator: <u>R. L. Freshling</u> PNSRC: <u>W. L. Smith</u> Date: <u>5/24/83</u> Plant Manager: <u>W. L. Smith</u> Date: <u>5/24/83</u></p>	<p>Standard Dist. List No.: _____ Distribution: _____</p>

LIST OF EFFECTIVE PAGES

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CHECKLIST A

Revision 1, 09-08-82

INDIANA AND MICHIGAN ELECTRIC COMPANY
DONALD C. COOK NUCLEAR PLANT

USE OF STABLE IODINE FOR THYROID BLOCKING
DURING A RADIATION EMERGENCY

1.0 OBJECTIVES

- 1.1 The objective of this procedure is to provide the mechanism and criteria for recommending usage of Potassium Iodide as a thyroid-blocking agent in a radiation emergency. The use of stable iodine is presently condoned only for emergency personnel and as specified, in accordance with state health regulations and under direction of state medical officials. Administration of Potassium Iodide for use by the general public is not addressed in this procedure, since it is currently the responsibility of the State Health Department.

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2.0 RESPONSIBILITIES

- 2.1 The Plant Manager is responsible for confirming the need for and for recommending the use of Potassium Iodide as a thyroid-blocking agent.
- 2.2 The Plant Radiation Protection Supervisor is responsible for providing adequate supplies of Potassium Iodide and for inventory and replacement as needed.

3.0 APPLICABILITY

- 3.1 This procedure is applicable whenever a measured or calculated Iodine dose is likely to equal or exceed 25 rem to the thyroid and/or 20 rem to the whole body.

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4.0 INSTRUCTIONS

- 4.1 The Radiation Assessment Director/R.P. Manager/Radiation Control and Waste Handling Manager should notify the Plant Manager/EOF Manager of the anticipated need for the use of thyroid-blocking agent.
- 4.2 Upon notification by the Plant Manager/EOF Manager that use of Potassium Iodide as a thyroid-blocking agent is anticipated, the Radiation Protection Director shall designate when and who shall receive Iodine thyroid-blocking.

INDIANA & MICHIGAN
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DONALD C. COOK NUCLEAR PLANT

Instruction or Procedure Temporary Sheet

<p>This temporary sheet applies to PROTECTIVE ACTION GUIDES (PAGs) AND Instruction or Procedure No. PROTECTIVE ACTIONS PMP 2081 EPP.004 Revision No. 1</p>	<p>TEMPORARY SHEET NO.</p> <p>TP-1</p>
<p>The following change (<input checked="" type="checkbox"/>) new requirement () shall be instituted effective (Date) <u>17 May, 1983</u>.</p> <p>REPLACE the following pages as indicated:</p> <p style="margin-left: 40px;">List of Effective Pages, Page 1 of 1, Revision 1 with Revision 1, TP-1</p> <p style="margin-left: 40px;">EXHIBIT A, Page 4 of 13, Revision 1 with Revision 1, TP-1</p> <div style="text-align: center; margin: 20px 0;"><div style="border: 1px solid black; padding: 10px; display: inline-block;"><p style="font-size: 1.5em; margin: 0;">DCR</p><p style="margin: 0;">MAY 26 1983</p></div></div> <p><u>REASON FOR CHANGE:</u> To meet new FDA recommendations for use of KI as a thyroid blocking agent in the event of a radiological emergency.</p>	
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<p>Expiration Date: <u>PROCEDURE REVISION</u></p> <p>Originator: <u>Mary A. Glismen</u></p> <p>Management Staff: <u>Michael Regan</u></p> <p>Senior Reactor Operator: <u>A. P. H. H. H.</u></p> <p>PNSRC: <u>W. H. H.</u> Date: <u>5/24/83</u></p> <p>Plant Manager: <u>W. H. H.</u> Date: <u>5/24/83</u></p>	<p>Standard Dist. List No.: _____</p> <p>Distribution: _____</p>

LIST OF EFFECTIVE PAGES

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RECOMMENDED PROTECTIVE ACTIONS FOR POPULATION AND WORKERS

<u>Projected Dose (R)</u>		<u>Recommended Action(s)</u> (a)	<u>Comments</u> (d)
<u>To the Population:</u>			
Whole Body	Less than 0.5	No planned protective action (b). State may issue an advisory to seek shelter and wait further instructions. Monitor environmental radiation levels.	Previously recommended protective actions may be reconsidered or terminated.
Thyroid	Less than 5.0		
Whole Body	0.5 to less than 5.0	Advise to seek shelter. Consider evacuation. Evacuate unless constraints make it impractical. Monitor environmental radiation levels.	If constraints exist, special consideration should be given for evacuation of children and pregnant women.
Thyroid	5.0 to less than 25.0		
Whole Body	5 and above	Seek shelter within a two-mile radius and five miles downwind. Place cows within ten miles on stored feed.	Consider evaluation for children and pregnant women.
Thyroid	25 and above		
<u>To Emergency Workers:</u>			
Whole Body	25	Control exposure of emergency team members to these levels except for lifesaving missions. (Appropriate controls for emergency workers include time limitations, respirators, and stable iodine. Administer KI tablets if thyroid dose is projected to be ≥ 25 R.)	Although respirators and stable iodine should be used where effective to control dose to emergency team workers, thyroid dose may not be a limiting factor lifesaving mission (c).
Thyroid	125.		
Whole Body	75	Control exposure of emergency personnel performing lifesaving missions to this level. (Control of time of exposure will be most effective.)	

- (a) These actions are recommended for planning purposes. Protective action decisions at the time of the incident must take existing conditions into consideration.
- (b) At the time of the incident, officials may implement low-impact protective actions in keeping with the principle of maintaining radiation exposures as low as reasonably achievable.
- (c) If one or more lives is likely to be saved, no upper limit for thyroid dose is established.
- (d) For actions to be taken with foodstuffs and/or livestock, see Exhibit F.

INDIANA & MICHIGAN POWER COMPANY
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PLANT MANAGER PROCEDURE

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Identification Number	Title	Revision No. And Date	Comments
PMP 2081 EPP.001	Emergency Telephone Communications	Rev. 1 6-24-82	
EPP.002	Barring of the PABX	Revision 1 6-29-82	
EPP.003	Follow-Up Off-Site Communications	Revision 1 11-16-82	
EPP.004	Protective Action Guides (PAGs) and Protective Actions	Revision 1 9-28-82	TP-1,5-24-83 Exp NA
EPP.005	Personnel Evacuation	Revision 1 5-25-82	
EPP.006	Activation of the Reentry and Rescue Team	Revision 1 9-28-82	
EPP.007	Security Actions During Emergency Conditions	Revision 1 5-5-82	
EPP.008	Emergency Medical Plan Guidelines	Revision 1 9-28-82	TP-1,11-30-82 Exp NA
EPP.009	Health Physics Procedures	Revision 1 9-29-82	
EPP.010	Activation of Radiation Monitoring Teams	Revision 1 2-1-83	
EPP.011	On-Site Radiological Monitoring	Revision 0 4-1-81	
EPP.012	Off-Site Radiological Monitoring	Revision 1 9-8-82	TP-1,1-25-83 Exp NA
EPP.013	Environmental Monitoring and Analysis	Revision 0 4-1-81	TP-1,2-25-82 Exp N/A

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PLANT MANAGER PROCEDURE

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PMP 2081 EPP.014	Off-Site Dose Assessments	Revision 1 10-12-82	TP-1,1-25-83 Exp. NA TP-2,2-22-83 Exp NA TP-3,5-24-83 Exp NA
EPP.015	Sampling and Analysis of Waterborne Releases	Revision 0 4-1-81	
EPP.016	Collection and Analysis of Liquid and Gaseous Samples	Revision 0 4-1-81	
EPP.017	Interpretation of Liquid and Gaseous Samples	Revision 0 4-1-81	
EPP.018	Transportation Accidents Involving Radioactive Material	Revision 1 6-24-82	
EPP.019	AEP Emergency Response Organization Activation and Management	Revision 0 4-1-83	
EPP.020	Activation and Operation of the Technical Support Center (TSC)	Revision 1 8-24-82	TP-1,9-9-82 Exp NA
EPP.021	Activation and Operation of the Operations Staging Area (OSA) and Personnel Accountability	Revision 1 5-25-82	
EPP.022	Activation and Operation of the Emergency Operations Facility	Revision 3 1-28-83	
EPP.023	Activation and Operation of the Emergency Control Center (ECC) (An Emergency Operations Facility)	CANCELLED 6-4-82	
EPP.024	Activation and Operation of the Joint Public Information Center (JPIC) (An Emergency Operations Facility)	Revision 1 6-24-82	

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PMP 2081 EPP.025	Activation and Operation of the Emergency News Source (ENS) (An Emergency Operations Facility)	Revision 1 6-24-82	
EPP.026	Use of Stable Iodine for Thyroid Blocking During a Radiation Emergency	Revision 1 9-8-82	TP-1,5-24-83 Exp NA
EPP.027	Unit Vent Emergency Release Level Determination	Revision 0 3-1-83	TP-1,4-29-83 Exp NA