

INDIANA & MICHIGAN
ELECTRIC COMPANY
DONALD C. COOK NUCLEAR PLANT

PROCEDURE COVER SHEET

Procedure No. PMP 2080 EPP.011
Revision No. 1

<p>TITLE NATURAL EMERGENCY GUIDELINES</p> <p>SCOPE OF REVISION</p> <p style="margin-left: 40px;">Rev. 1 - Revised references to an earthquake to reflect present capabilities.</p> <div style="text-align: right; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p style="font-size: 1.5em; margin: 0;">DCR</p> <p style="margin: 0;">NOV 16 1982</p> </div> </div>
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SIGNATURES

	ORIGINAL	Rev. 1	REV. 2	Rev. 3
PREPARED BY	<i>Dave Webster</i>			
QUALITY ASSURANCE REVIEW	<i>Bob Smith</i>	<i>Michael Brown</i>		
INTERFACING DEPARTMENT HEAD CONCURRENCE	N.A.	NA		
DEPARTMENT HEAD APPROVAL	N.A.	NA		
PLANT NUCLEAR SAFETY COMMITTEE	<i>Bob Smith</i>	<i>W. J. Smith</i>		
PLANT MANAGER APPROVAL	<i>W. J. Smith</i>			
DATE OF ISSUE	3-31-81	11-15-82		

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INDIANA & MICHIGAN ELECTRIC COMPANY
DONALD C. COOK NUCLEAR PLANTNATURAL EMERGENCY GUIDELINES1.0 OBJECTIVES

The objective of this procedure is to facilitate preparation and response to a natural emergency (if adequate warning is available) and to mitigate the radiological impact that may be associated with such an emergency.

2.0 RESPONSIBILITIES

The Shift Operating Engineer (SOE)/On-Site Emergency Coordinator (OSEC) has primary responsibility for evaluating natural emergency conditions and implementing the appropriate emergency response actions set forth in this procedure.

3.0 APPLICABILITY

This procedure specifies preparatory actions required of key personnel to identify selected emergency functions before or during a natural emergency. Included among the events classified as natural emergencies are earthquakes, seiches, tornadoes, and associated winds and floods.

This procedure shall be implemented in the event:

- a) A tornado warning or tornado watch is declared.
- b) A seiche is imminent or has occurred.
- c) An earthquake has occurred as indicated by the Strong Motion Recording System.

4.0 INSTRUCTIONS

-CAUTION-

RADIATION SAFETY TAKES PRECEDENCE OVER REPAIR OR DAMAGE CONTROL FUNCTIONS

- 4.1 The SOE assumes the role of the On-Site Emergency Coordinator as necessary and records information on the procedure checklist as information is received.
- 4.2 As reports are received, determine the need for and activate the Reentry and Rescue Team.

FOR TORNADOES

- 4.3 If notified of a Tornado Warning by the Systems Operator:
- 4.3.1 Verify Emergency Diesel Generators are available, as per Technical Specifications requirements. Take all reasonable steps to return inoperable diesels to service.
 - 4.3.2 Verify diesel-driven pumps are available. Take all reasonable steps to return inoperable diesel-driven pumps to service. Manual starting capability may be lost if Screen House damage is imminent.
 - 4.3.3 Inspect exterior areas of the plant to ensure that all loose material and equipment are tied down or secured.
 - 4.3.4 Halt irradiated fuel handling and properly store all irradiated fuel.
- 4.4 Determine whether to continue operating the plant based on capabilities of the plant and plant safety.

NOTE: GO TO STEP 4.11 IF CONDITIONS FOR SEICHES OR EARTHQUAKES DO NOT EXIST.

FOR SEICHES

- 4.5 Contact the U.S. Coast Guard and meteorological personnel at the nearest weather bureau, per Appendix A, to obtain the latest pertinent meteorological information.
- 4.6 Call out additional plant personnel to assemble at the plant site for possible emergency action as directed.
- 4.7 Direct plant operators stationed at key locations in the plant to report any leakage into the plant or of malfunctioning equipment.
- 4.7.1 If the water level reaches elevation 590' (per control room instrumentation), shut the plant down and start cooldown of the RCS.
 - 4.7.2 If the water level continues to rise, start emergency diesel generators and stand by for a rapid shutdown of the plant.

NOTE: GO TO STEP 4.11 IF EARTHQUAKE CONDITIONS ARE NOT MET.

FOR EARTHQUAKES

When the event indicator on the Strong Motion Recording System changes from black to white, the recording system has been actuated by remote starter unit. This signifies that the ground acceleration threshold has been exceeded.

- 4.8 Initiate PMP 2080 EPP.001, Emergency Plan Activation and Condition Classification, and classify the event as per ECC-3.
- 4.9 Conduct a comprehensive physical inspection of the plant per Procedure 4023.001.012.
- 4.10 Trip the reactor if there is any significant observable damage to the plant or surrounding structures. Initiate plant cooldown at the maximum rate.
- 4.11 Log the events and the emergency action taken.
- 4.12 Refer to PMP 2080 EPP.001 and continue to review Emergency Action Levels.
- 4.13 When conditions stabilize and units are safe, terminate this procedure.

INDIANA & MICHIGAN
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DONALD C. COOK NUCLEAR PLANT

PROCEDURE COVER SHEET

Procedure No. PMP 2082 EPP.009
Revision No. 2

TITLE
MAINTENANCE OF THE EMERGENCY PLAN PROCEDURES

SCOPE OF REVISION

Rev. 1 - Minor changes.

Rev. 2 - Revised to agree with present commitments.

DCR

NOV 16 1982

SIGNATURES

	ORIGINAL	Rev. 1	REV. 2	Rev. 3
PREPARED BY	<i>J. P. Duffy</i>	<i>Richard Beggs</i>	<i>Richard Beggs</i>	
QUALITY ASSURANCE REVIEW	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
INTERFACING DEPARTMENT HEAD CONCURRENCE	N.A.	<i>Richard Beggs</i>	NA	
DEPARTMENT HEAD APPROVAL	N.A.	N.A.	NA	
PLANT NUCLEAR SAFETY COMMITTEE	<i>R. D. Keith</i>	<i>[Signature]</i>	<i>[Signature]</i>	
PLANT MANAGER APPROVAL	<i>[Signature]</i>	<i>E. J. Tomlin</i>	<i>[Signature]</i>	
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INDIANA & MICHIGAN ELECTRIC COMPANY
DONALD C. COOK NUCLEAR PLANT

MAINTENANCE OF THE EMERGENCY PLAN PROCEDURES

1.0 OBJECTIVE

This procedure defines periodic checks to insure the Emergency Plan Procedures are maintained up to date.

2.0 RESPONSIBILITIES

The Plant Manager is responsible for ensuring the checklists included in this procedure are completed at the proper intervals. The Information and Records Center will retain these checklists for the current year, and for the previous year.

The Plant Emergency Planning Coordinator is responsible for accomplishing Emergency Plan Procedure changes and updates on a continuing basis and coordinating the annual PNSRC Emergency Plan Procedure review and approval.

4.0 INSTRUCTIONS

The Plant Manager shall ensure that:

- 4.1 The checklists cited below are completed as per the specified interval.
 - 4.1.1 EXHIBIT A, EMERGENCY PREPAREDNESS ANNUAL CHECKLIST
 - 4.1.2 EXHIBIT B, EMERGENCY PREPAREDNESS SEMI-ANNUAL CHECKLIST.
 - 4.1.3 EXHIBIT C, EMERGENCY PREPAREDNESS QUARTERLY CHECKLIST.
- 4.2 Arrangements are made for an independent audit, annually, of emergency preparedness. This audit shall include but not be limited to:
 - 4.2.1 The Emergency Plan
 - 4.2.2 The Emergency Plan Procedures
 - 4.2.3 Training
 - 4.2.4 Drills and Exercises
 - 4.2.5 Facilities and Equipment
- 4.3 The Emergency Plan Procedures are reviewed at least annually by the PNSRC to ensure their applicability.

EMERGENCY PREPAREDNESS ANNUAL CHECKLIST

Date Initiated _____

Date Completed _____

Review Items:

Source documents have been reviewed for changes and EPP updated as necessary; (e.g., Reg. Guides, 10 CFR 20)

Remarks: _____

Plant Emergency Planning Coordinator Date

Referenced Health Physics Procedures have been reviewed, and all recent changes are reflected in the Emergency Plan Procedures.

Plant Radiation Protection Supervisor Date

Reviewed and approved documentation indicating personnel in Emergency Organization have received required training in past year.

Remarks: _____

Plant Emergency Planning Coordinator Date

Reviewed and approved documentation indicating personnel not in the Emergency Organization (including non-badged personnel) have received required training in past year.

Remarks: _____

Training Supervisor Date

Verified letters of agreement with
outside agencies are current. _____

Plant Emergency Planning
Coordinator

Date

EPP submitted to PNSRC and Plant Manager
for annual review.
Remarks: _____

Plant Emergency Planning
Coordinator

Date

EMERGENCY PREPAREDNESS SEMI-ANNUAL CHECKLIST

Date Initiated _____

Date Completed _____

Review Items:

Conduct random review of copies of the EPP for content of latest revisions (minimum of 3 manuals, if errors are found review an additional 3, if errors still found, review all manuals).

Plant Emergency Planning Coordinator Date

Reviewed and resolved discrepancies noted in previous EPP drills.
Remarks: _____

Plant Emergency Planning Coordinator Date

Reviewed EPP for technical content and accuracy, i.e., sampling methods, protective measures, significant levels.

Plant Radiation Protection Supervisor Date

EMERGENCY PREPAREDNESS QUARTERLY CHECKLIST

Date Initiated _____

Date Completed _____

Review Items:

Inventories of all equipment listed in
Equipment Checklists of PMP 2082 EPP.007
completed.

Plant Radiation Protection Supervisor Date

Radiation detection equipment is
within required calibration per
Health Physics Procedures, and
located per inventories.

Plant Radiation Protection Supervisor Date

Emergency personnel assignments in
PMP 2082 EPP.004 are up to date.

Plant Emergency Planning Coordinator Date

EOF "OP" drawings and other
documentation has been updated.

Accounting Supervisor Date

Verified phone listings for key
personnel and support agencies.

Accounting Supervisor Date

Remarks: _____

INDIANA & MICHIGAN
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DONALD C. COOK NUCLEAR PLANT

PROCEDURE COVER SHEET

Procedure No. PMP 2081 EPP.022

Revision No. 2

TITLE ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY

SCOPE OF REVISION

Rev. 1: Revised the operation of the EOF to a single location as per NRC requirements.

Rev. 2: Revised operation of the EOF to reflect operation at Benton Harbor.

DCR

NOV 16 1982

SIGNATURES

	ORIGINAL	Rev. 1	REV. 2	Rev. 3
PREPARED BY	<i>David Webster</i>	<i>Richard C. ...</i>	<i>Richard C. ...</i>	
QUALITY ASSURANCE REVIEW	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
INTERFACING DEPARTMENT HEAD CONCURRENCE	N.A.	N.A.	N.A.	
DEPARTMENT HEAD APPROVAL	N.A.	N.A.	N.A.	
PLANT NUCLEAR SAFETY COMMITTEE	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
PLANT MANAGER APPROVAL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
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 <u>EXHIBIT A</u>	
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INDIANA & MICHIGAN ELECTRIC COMPANY
DONALD C. COOK NUCLEAR PLANTACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY1.0 OBJECTIVE

- 1.1 This procedure defines the responsibilities of individuals in the Emergency Operations Facility (EOF); the interfaces of the EOF with other centers and organizations; the operation of the EOF during short-term emergency response; and the staffing necessary to carry out these functions.

2.0 RESPONSIBILITIES AND FUNCTIONS

- 2.1 Responsibilities - See Exhibit A for the Emergency Operations Facility Organization.
- 2.1.1 Radiation Control and Waste Handling Manager (RCWHM): Assistant Plant Manager
- 2.1.2 Communications Director: Production Supervisor, Technical
- 2.1.3 Communications Personnel: Training Instructors, Performance Engineers, Operations Quality Control Implementation Coordinators
- 2.1.4 Radiological Assessment Director: R.P. Performance Engineer
- 2.1.5 Radiation Protection Manager: Plant Radiation Protection Supervisor
- 2.2 Functions - The EOF, upon activation, will assume responsibility for performing the following functions:
- 2.2.1 Management of overall I&M response
- 2.2.2 Coordination of radiological and environmental assessment
- 2.2.3 Determination of recommended public protective actions
- 2.2.4 Coordination of emergency response activities with Berrien County, the State of Michigan, and the Federal Government.

2.3 The Emergency Operations Facility is a support facility established for the purpose of performing the above functions. The EOF shall have appropriate technical data information and plant records to assist in the diagnosis of plant conditions to evaluate the potential or actual release of radioactive materials to the environment. An Assistant Plant Manager in this center shall organize and manage I&M support (dose assessment, communication, and radiation protection) resources to support the TSC and control room operators.

3.0 LIMITATIONS AND PRECAUTIONS

3.1 The Emergency Operations Facility shall be activated as necessary for any emergency condition and specifically for Site Emergencies and General Emergencies. This procedure covers the operation of the EOF until establishment of the AEP Emergency Response Organization on-site and/or until deactivation of the EOF.

4.0 INSTRUCTIONS

4.1 Upon recognition of the need for, or desirability of activating the EOF, the On-Site Emergency Coordinator shall direct the Communications Director to initiate PMP 2080 EPP.008, Initiating Manning of Emergency Response Facilities and Calling Off-Duty Plant Personnel for the purpose of staffing the EOF.

4.2 Security Personnel are expected to be the first to arrive at the EOF. Upon arrival, they should perform the following:

4.2.1 Unlock the EOF.

4.2.2 Turn on the radiation monitor. Instructions are posted on the monitor.

4.2.3 Turn on the copier machine.

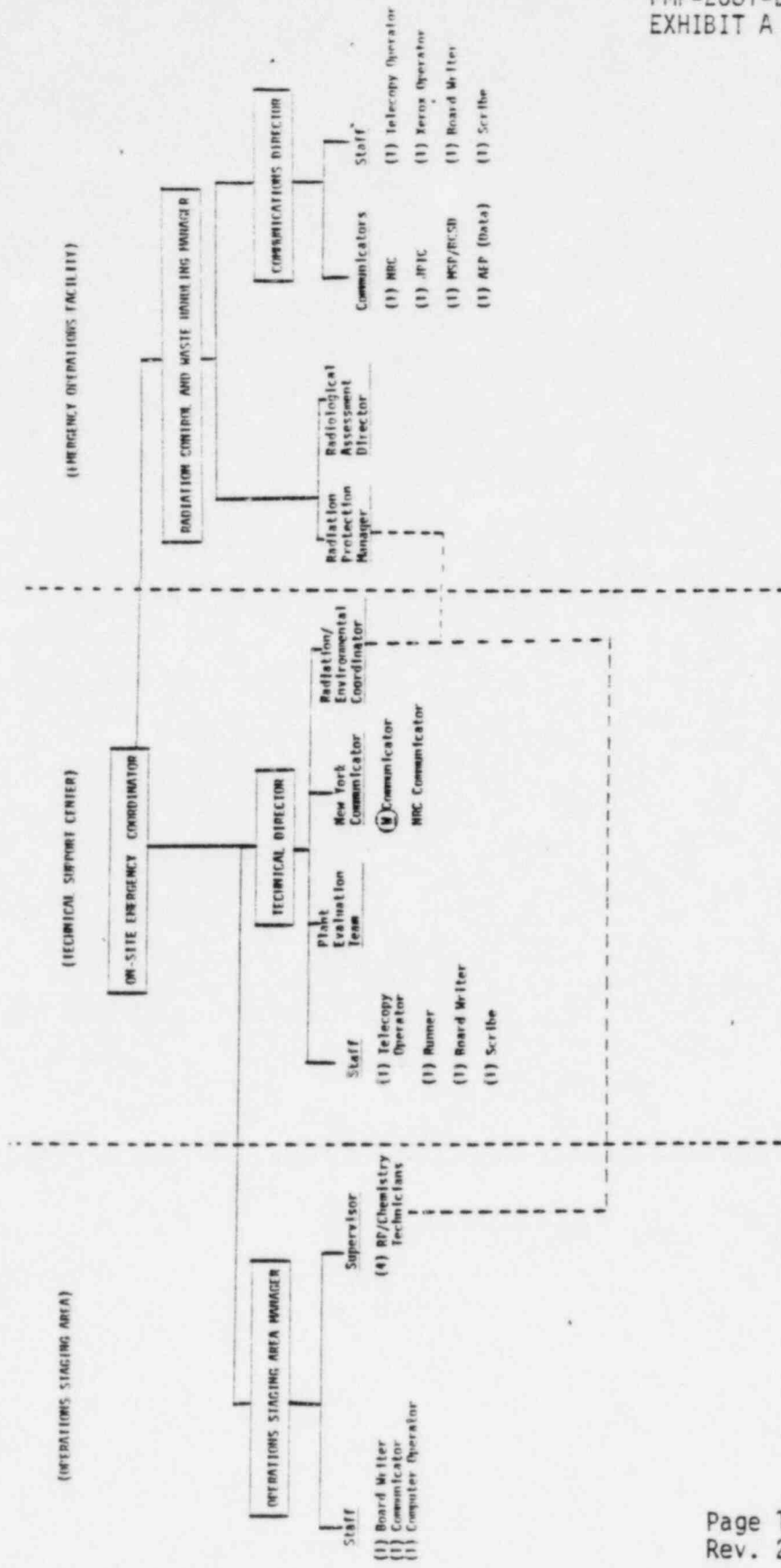
4.2.4 Establish a log of personnel in the EOF by logging the arrival and departure of all personnel.

- 4.3 The Radiation Control and Waste Handling Manager shall manage I&M support activities (dose assessment, communications, and radiation protection) from the EOF, and interface with the On-Site Emergency Coordinator. Specifically, the RCWHM shall:
- 4.3.1 Oversee activation of the EOF. See Emergency Plan Procedures, Appendix A, for work space assignments and telephone number.
 - 4.3.2 Establish communications directly as needed, with the OSEC for the purpose of managing I&M response to the event.
 - 4.3.3 Ensure the EOF assumes responsibility for communication with off-site organizations.
 - 4.3.4 Ensure the EOF assumes dose assessment and protective action decision-making responsibilities.
- NOTE: See PMP 2081 EPP.003, Follow-Up Off-Site Communications, for the conditions and procedure for transfer of communications and dose assessment to the EOF from the TSC.
- 4.3.5 Coordinate I&M and Federal, State, and local response to the event via:
 - 4.3.5.1 Information passed both ways through the communicators.
 - 4.3.5.2 Providing a location for Berrien County, State of Michigan, FEMA, NRC, and AEPSC personnel to coordinate activities.
 - 4.3.6 Complete the top portion of PMP 2081 EPP.020, Exhibit C, for use by the Radiological Assessment Director.
 - 4.3.7 Ensure Exhibit C is normally developed every 15 minutes. Approve Exhibit C upon completion and prior to release to off-site organizations.
 - 4.3.8 Remain cognizant of the activities of the Radiation Protection Manager in response to the emergency.
 - 4.3.9 Ensure that security controls are established at the EOF.

- 4.4 The Communications Director shall perform the following functions:
- 4.4.1 Establish a chronological history log of events and make this log available to communications, dose assessment, radiation protection, and other EOF personnel.
 - 4.4.2 Ensure that detailed event data, PMP 2081 EPP.020, Exhibit B, is made available regularly to communications, dose assessment, and radiation protection personnel. Normally this data will be provided every fifteen minutes by telecopier from the TSC.
 - 4.4.3 Ensure the communicators, dose assessment, and radiation protection personnel are brought up-to-date regarding event data and information required to perform their functions.
 - 4.4.4 Establish communication with the Berrien County Sheriff's Department, Michigan State Police, Nuclear Regulatory Commission (Emergency Notification System and Health Physics Network), American Electric Power Initial Assessment Group, and Public Affairs. Assume responsibility for this function from the TSC.
 - 4.4.5 Assume responsibility for the dose assessment and radiation protection function from the TSC.
 - 4.4.6 Communicate requests from off-site groups to the Technical Director.
- 4.5 The Radiological Assessment Director is responsible for:
- 4.5.1 Performing dose calculations for on-site and off-site areas and reporting these results to the Communications Director and Radiation Control and Waste Handling Manager.
 - 4.5.2 Recommending protective actions on-site and off-site when appropriate.

4.6 The Radiation Protection Manager is responsible for:

- 4.6.1 Implementing the emergency radiation protection program including personnel monitoring and decontamination.
- 4.6.2 Directing activities of Radiation Monitoring teams and reporting results to the Radiation Control and Waste Handling Manager.
- 4.6.3 Directing the activities of Re-entry and Rescue teams, as appropriate.
- 4.6.4 Coordinating first-aid activities.



INDIANA & MICHIGAN POWER COMPANY
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PLANT MANAGER PROCEDURE

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EPP.003	Alert	CANCELLED 10-29-81	
EPP.004	Site Emergency	CANCELLED 10-29-81	
EPP.005	General Emergency	CANCELLED 10-29-81	
EPP.006	Initial Dose Assessment (Gaseous)	Revision 3 8-27-82	
EPP.007	Initial Release Assessments (Liquid)	Revision 0 4-1-81	TP-1,2-23-82 Exp NA
EPP.008	Initiating Manning of Emergency Response Facilities & Calling Off-Duty Personnel	Revision 3 10-12-82	
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EPP.010	Toxic Gas Release Guidelines	Revision 1 6-2-82	
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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 4-1-81	
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 2 11-15-82	
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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PLANT MANAGER PROCEDURE

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EPP.004	Personnel Assignments to Emergency Centers	Revision 1 8-24-82	
EPP.005	Tests and Exercises	Revision 1 6-24-82	
EPP.006	Training	Revision 0 4-1-81	
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