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THREE MILE ISLAND NUCLEAR STATION UNIT NO. 2 EMERGENCY PLAN IMPLEMENTING PROCEDURE 1054.1 UNUSUAL EVENT

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### THREE MILE ISLAND NUCLEAR STATION UNIT NO. 2 EMERGENCY PLAN IMPLEMENTING PROCEDURE 1054.1 UNUSUAL EVENT

#### 1.0 PURPOSE

The purpose of this procedure is to define the conditions that shall be regarded as an Unusual Event for Three Mile Island Nuclear Station (Unit 2) and to:

- a. Ensure necessary actions are taken to protect the health and safety of the public.
- b. Ensure necessary actions are taken to notify GPU-Nuclear management and offsite emergency response organizations.
- c. Mobilize the appropriate portions of the emergency response organization to initiate appropriate emergency actions.

The Emergency Director is responsible for implementing this procedure.

- NOTE: Emergency Director responsibilitites that may NOT be delegated include:
- a. Decision to notify offsite emergency management agencies.
- Making protective action recommendations as necessary to offsite emergency management agencies.
- c. Classification of Emergency Event.
- d. Determining the necessity for onsite evacuation based upon potential exposure to non-essential personnel.

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e. Authorization for emergency workers to exceed 10 CFR 20 radiation exposure limits.

### 2.0 ATTACHMENTS

2.1 Attachment I, Unusual Event Notifications

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- 2.2 Attachment II, Emergency Status Report.
- 2.3 Attachment III, Checklist for Notification of Significant Events made in accordance with 10 CFR 50.72.

### 3.0 EMERGENCY ACTION LEVELS

#### INITIATING CONDITION

- 3.1 Any event resulting in manual automatic actuation of engineered safety features.
- 3.2 Any accidental, unplanned or uncontrolled radioactive release, or exceeding any radiological effluent technical specification limit.
- 3.3 The loss or inoperability of both mini-decay heat removal pumps coincident with the loss or inoperability of the Standby Reactor Coolant Pressure Control System.
- 3.4 An increasing reactor coolant temperature coincident with either:
  - Total loss of forced reactor coolant flow capability
  - b. Total loss of all main and emergency feedwater pumps or the inability to feed the steam generators.
- 3.5 Confirmed unidentified reactor coolant system leakage >1 gpm, or confirmed total reactor coolant system leakage >10 gpm.

#### INDICATION

Any condition whereby the engineered safety feature actuation system is initiated per Technical Specifications Table 3.3-3.

- a. Any valid unanticipated "Alert" condition on any effluent radiation monitor.
- Any discharge or radioactive release by other than planned or controlled means.

Loss or inoperability is when the system or component is incapable of performing its specified function(s), per Technical Specification definition of Operable/Operability, Section 1.5.

- Increasing reactor cooland temperature as indicated by R.C.S. hot leg temperature indicator(s).
- Total loss of forced reactor coolant flow capability is:
  - 1. Reactor coolant pumps
  - Decay Heat Removal System inoperable.
  - Mini Decay Heat Removal system inoperable.
- Unidentified reactor coolant leakage >1 gpm as measured by R.C.S. leak rate test.
- b. Total reactor coolant leakage >10 gpm as measured R.C.S. leak rate test.

- 3.6 A failure of a safety or relief valve in a safety releated system to close following reduction of applicable pressure.
- 3.7 Both diesel generators inoperable resulting in a loss of backup emergency power.
- 3.8 Sustained loss of offsite power.
- 3.9 The sustained loss of containment integrity.
- 3.10 Reactor building pressure > 0 PSIG not due to meteorological conditions or below minimum allowable pressure.
- 3.11 Any fire in a permanent plant structure which cannot be controlled by the fire brigade within 10 minutes of discovery.
- 3.12 Any fire outside plant structures requiring offsite assistance.
- 3.13 Any significant loss of assessment or communication capability which would reduce the ability to detect, assess, or respond to a plant emergency.

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Typical indications:

- a. Increased R.C.S. makeup
   b. Accoustical valve monitoring or flow measuring equipment indication.
- Continuing drop in system pressure.

Inoperable as defined per Technical Specification of Operability Section 1.5, or by a loss of the ability to meet any of the conditions of Technica Specifications -Limiting Conditions for Operation, Section 3.8.1.

Loss of all A.C. power indicacation from offsite transmission network:

- The loss of the ability to meet the conditions of containment integrity as defined in Technical Specifications, Section 1.7.
- As indicated by the reactor building pressure monitoring instrumentation.
- b. Minimum allowable pressure per Technical Specification Figure 3.6-1.
- \*Shift Foreman's judgement, based on advice of the fire brigade leader.

Shift Foreman's judgement, based on request of the fire brigade leader for offsite firefighting assistance.

Shift Foreman's/Emergency Director's judgement.

\*In many cases the Shift Foreman will assume the position of Fire Brigade Leader.

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3.15 Any natural phenomenon being experienced or projected beyond usual levels.

- 3.16 Onsite aircraft crash outside the protected area fence and not impacting on plant structures, or an onsite train derailment.
- 3.17 Any near or onsite explosion outside the protected area fence and not impacting on plant structures.
- 3.18 Any near or onsite toxic or flammable gas or liquid release which could affect the habitability required for normal plant operations.
- 3.19 Strikes of operating employees or security guards, or honoring of picket lines by these employees.
- 3.20 Transportation of any contaminated injured personnel from the site to an offsite medical facility.

Shift Foreman's/Emergency Director's judgement.

As indicated by any one of the following:

- Any earthquake of a magtude > .01g as indicated by the "Theshold Seismic Condition" annunciator.
- Projected river stage > 302 ft. at the River Water In-take Structure.
- Sustained winds ≥ 75 mph as indicated on Wind Speed Recorder (CNSD-1A).
- National Weather Service projection of hurricane force winds or a tornado.

Shift Foreman's/Emergency Director's judgement.

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3.21 Other plant conditions are in progress or have occurred which may indicate a potential degradation of the level of safety of the plant. 1054.1 Revision 2

Shift Foreman's/Emergency Director's Judgement

NOTE: In exercising the judgement as to the need for declaring an Unusual Event, uncertainty concerning safety status of the plant, the length of time the uncertainty exists, and the prospects for early resolution of ambiguities should be considered; i.e., uncertainty about the level of safety of the plant extending beyond a reasonable time period is a sufficient basis for declaring an Unusual Event.

### 4.0 EMERGENCY ACTIONS

- 4.1 Upon recognition that any of Emergency Action Levels of Section 3.0 above have been reached or exceed, the Shift Foreman shall announce or have announced, the following message over the public address system (merged): (NOTE: Turn on whelen siren switch.) "ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL: AN UNUSUAL EVENT HAS BEEN DECLARED IN UNIT TWO. ALL MEMBERS OF THE ON-SHIFT EMERGENCY ORGANIZATION REPORT TO YOUR STATIONS. ALL OTHER PERSON- NEL SHOULD CONTINUE WITH THEIR NORMAL DUTIES UNLESS FURTHER IN- STRUCTION IS GIVEN. Give a brief description of the event and repeat the announcement.) (NOTE: Turn off whelen siren switch.)
- 4.2 The Shift Foreman shall assume the duties of the Emergency Director until properly relieved. He shall announce to the Control Room personnel that he, \_\_\_\_\_\_(name) has assumed the duties of the Emergency Director.

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The Emergency Director shall periodically (every 1 hour min.) consult with the lead personnel of each area involved in the emergency and discuss:

- a. Status of each area
- b. Immediate actions to be taken by each lead person
- c. Problem areas
- d. Recommendations on course of action.

### Initials

- 4.3 Ensure Communciator has made notifications to persons and/or agencies per Attachment I, Section I.
  - 4.4 Contact the Duty Section Superintendent and discuss:
    - a. Plant status
    - b. Which members of the Duty Section are required to augment the Onsite Emergency Organization.
- \_\_\_\_4.5 Depending on the emergency action level which was reached or exceeded, ensure that the appropriate Emergency Operating Procedures have been implemented and/or the following Emergency Plan Implementing Procedures as required:
  - a. Contaminated Injuries and Radiation Overexposure(1054.16)
  - b. High winds Tornado/High Winds (1054.22).
  - \_4.6 Assign a Communications Assistant and direct him to perform all applicable steps of 1054.8.

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- 4.7 If local services (fire, ambulance, police) are required, ensure the Communicator has notified Dauphin County Emergency Operations Center and has requested the appropriate assistance. Notify security (N/S gate) to begin preparations to expedite entry of responding emergency personnel (Police/Fire Ambulance). Security should be advised to implement EPIP 1054.19, Emergency Dosimetry, Security Badge Issuance.
- 4.8 If changes in onsite or offsite radiation levels are expected, ensure the Radiological Assessment Coordinator has:
  - Dispatched offsite and/or onsite radiation monitoring teams in accordance with EPIP 1054.10 and 1054.11.
  - b. Implemented Offsite Dose Projections procedure (1054.7).
  - 4.9 If additional resources or notifications are required, refer to Additional Assistance and Notification Procedure (1054.6).
  - 4.10 If the emergency involves in-plant radiological controls problems, ensure the Radiological Assessment Coordinator has implemented In-Plant Radiological Controls During Emergencies (1054.9).
    - \_\_\_\_4.11 Assign an individual to complete Attachment II, Section I (Emergency Status Report) and give to the Radiological Assessment Coordinator to transmit to the Bureau of Radiation Protection.
  - 4.12 Ensure the Radiological Assessment Coordinator has completed Attachment II, Section II to transmit to the Bureau of Radiation Protection if a radioactive release has occurred or is occurring.

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- 4.13 Ensure that communications and documentation are maintained per procedure Communications and Recordkeeping (1054.5).
- 4.14 If applicable, ensure the operations Coordinator has dispatched Emergency Repair/Operations personnel to investigate the identified problem area in accordance with procedure 1054.21.
  - \_\_\_\_\_4.15 30 minutes after initial contact with PEMA, confirm that BRP verification has been made. If no verification, instruct the Communicator to proceed to Attachment I, Section 1.2.(e).
- \_\_\_\_4.16 Based upon assessment of plant conditions, either close out the Unusual Event or escalate to a higher class of emergency.
  - a. If Recovery Phase criteria have been met (see EPIP 1054.24), close out the Unusual Event by ensuring the Communicator has performed the notifications in Attachment I, Section II. Implement EPIP 1054.24.
  - b. If emergency action levels exceed those for an Unusual Event, escalate to a higher class, notify BRP on Radiological Line and make remaining notifications in accordance with the appropriate emergency procedure as specified in Step 5.1.
- \_4.17 If necessary, due to potential contamination of normally non-contaminated sumps and/or tanks, or the need to closely monitor liquid releases, initiate EPIP 1054.14, monitoring/controlling liquid discharges.

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### 5.0 FINAL CONDITIONS

- \_\_\_\_\_5.1 A higher class of emergency has been declared by the Emergency Director after meeting or exceeding an emergency action level of one of the higher classes and one of the following procedures is being implemented:
  - a. Alert (1054.2)
  - b. Site Emergency (1054.3)
  - c. General Emergency (1054.4)
- 5.2 The Unusual Event has been closed out since no recovery operations are required.
- \_\_\_\_\_5.3 The Unusual Event can be shifted to a recovery mode by implementing the procedure Recovery Operations (1054.24).

Date

Signature of Person Responsible for Implementation Procedure

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### ATTACHMENT I SECTION I

### INITIAL CONTACT

- INITIAL The Communicator shall notify the following agencies and personnel, and update the Attachment I, Section II checklist for each notification.
  - DAUPHIN COUNTY EMERGENCY OPERATION CENTER

(If this is a reclassification notification, ignore Items 1 and 2 and proceed to Item 3.

- a. Telephone:
- b. Message:

This is\_\_\_\_\_\_at the Three Mile Island Nuclear (name/title) Station Unit 2 calling. We have declared an Unusual Event at hours, and (based upon Emergency Director judgement, (time)

deliver one of the following statements):

- We have not had a radioactive release
   OR
- We have had a radioactive release, but do not expect this situation to result in detectable changes in offsite radiation levels, OR
- 3) We have had a radioactive release, but do not know if there will be detectable changes in offsite radiation levels. We will be keeping the Bureau of Radiation Protection (BRP)informed of the results of our investigation, OR

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### ATTACHMENT I SECTION I INITIAL CONTACT

INITIAL

- 4) We have had a radioactive release and expect to be able to detect changes in offsite radiation levels but they are expected to be less than the levels calling for an alert. We will be keeping the Bureau of Radiation Protection informed.
- c. Give a short non-technical description of the emergency and any potentially affected population and areas.

2. PENNSYLVANIA EMERGENCY MANAGEMENT AGENCY (PEMA)

(If this is a reclassification notification, go to Item 3, Unaffected Control Room).

Telephone: \_\_\_\_\_\_\_ (A diverter forwards this call to a PEMA duty officer after working hours.)
 NOTE: If no contact, proceed to step 2.d.

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

INITIAL

b. Message:

This is Three Mile Island Nuclear Station Unit 2 calling. We have an emergency. Give me the Operations Duty Officer. (When Duty Officer answers:) This is \_\_\_\_\_\_ at the Three Mile Island \_\_\_\_\_\_(name/title)

Nuclear Station Unit 2 calling. We have declared an Unusual Event at \_\_\_\_\_\_ hours. We request you (time) contact Bureau of Radiation Protection. Bureau of Radiation Protection call back should be made on the Radiological Line or .

(Based upon Emergency Director judgement, deliver one of the following statements):

- 1. We have not had a radioactive release, OR
- We have had a radioactive release, but do not expect this situation to result in detectable changes in offsite radiation levels, OR
- 3. We have had a radioactive release, but do not know if there will be detectable changes in offsite radiation levels. We will be keeping the Bureau of Radiation Protection informed of the results of our investigation, OR

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

#### INITIAL

4) We have had a radioactive release and expect to be able to detect changes in offsite radiation levels, but they will be less than the levels calling for an Alert. We will be keeping the Bureau of Radiation Protection informed.

c. Give a short non-technical description of the emergency, and any potentially affected populations and areas:

d. If PEMA was unable to be contacted, contact Dauphin County; advise them that PEMA cannot be contacted and direct them to notify PEMA, BRP, and Lancaster, York, Lebanon, and Cumberland counties.

e. Message verification:

Expect Bureau of Radiation Protection (BRP) contact after PEMA notification. If no BRP confirmation is received within 30 minutes, notify PEMA of the situation. If unable to contact PEMA (line busy), call Dauphin County and notify them that BRP has not verified initial contact. Request Dauphin County to contact PEMA and/or BRP.

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

### INITIAL

- 3. UNAFFECTED CONTROL ROOM
  - a. Telephone: or inter Control Room Hot-Line

b. MES SAGE :

Give a brief description of Plant Status to Shift Supervisor/Shift Foreman.

- 1. We have not had a radioactive release, OR
- We have had a radioactive release, but do not expect this situation to result in detectable changes in offsite radiation levels, OR
- 3. We have had a radioactive release, but do not know if there will be detectable changes in offsite radiation levels. We will be keeping the Bureau of Radiation Protection informed of the results of our investigation, OR
- 4. We have had a radioactive release and expect to be able to detect changes in offsite radiation levels but they will be less than the levels calling for an Alert. We expect these levels to be less than 10 mRem/hr (gamma). We will be keeping the Bureau of Radiation Protection informed.
- c. Give a short non-technical description of emergency and potentially affected populations and areas:

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

### INITIAL

INSTITUTE OF NUCLEAR POWER OPERATIONS

(Do not notify if this is a reclassification notification.)

- a. Telephone:
- b. MESSAGE:

This is \_\_\_\_\_\_ at Three Mile Island Nuclear (name/title)

Station Unit 2 calling. We have declared an Unusual Event at

(time) hours. (Give a brief description of the emergency.)

- 5. Notify the following personnel/agencies if the emergency situation is such that notification is deemed appropriate:
  - a. Hershey Medical Center

Notification to be performed per procedure 1054.16.

b. Pennsylvania State Police

MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear Station

Unit 2 calling. We have declared an Unusual Event at \_\_\_\_\_

(time)

hours. We had a radioactive release. We (have/have not)

required assistance as follows:

(State any assistance required).

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

INITIAL

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c. Radiation Management Corporation

Emergencies (

### Office

MESSAGE:

d.

÷.

This is at the Three Mile Island Nuclear Station (name/title)	
Unit 2 calling. We have declared an Unusual Event at(time	e)
hours. (Give a brief description of the emergency). We	
had a radioactive release. We required the (have/have not)	
following assistance: (State any assistance required).	
American Nuclear Insurers	
MESSAGE :	
This is at the Three Mile Island Nuclear Station	1
Unit 2 calling. We have declared an Unusual Event at(time	2)
hours. (Give a brief description of the emergency).	

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

#### INITIALS

NUCLEAR REGULATORY COMMISSION OFFICE NO. Bethesda, MD.

(Communications with the NRC will be continuously maintained following contact.)

- a. Telephone: Emergency Notification System No. (ENS) (If ENS phone does not work refer to EPIP 1054.6, "Additional Assistance and Notification", for alternate methods.)
- b. MESSAGE:

This is\_\_\_\_\_\_at Three Mile Island Nuclear Station (name/title)

Unit 2 calling. We declared an Unusual Event at

(time)

DATE	TIME	OF	COMPLETION	COMPLETED BY	

<u>NOTE</u>: After initial NRC notification is complete per Attachment I Section I above, refer to the NRC Notification Checklist, Attachment III. This checklist contains information desired by the NRC and may be helpful in providing follow-up information.

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### ATTACHMENT I SECTION II

### SECONDARY CONTACT

### INITIAL

The Communicator shall notify the following agencies and personnel and update the Attachment I, Section II checklist:

### Bureau of Radiaton Protection

- a. Telephone: Radiological Line
- b. MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear Station (name/title)

Unit 2. We have closed-out the Unusual Event at \_\_\_\_\_ hours. (time) Please notify PEMA, Dauphin, Lancaster, York Lebanon and Cumber-

land counties.

Telephone: <

### 2. Unaffected Control Room

- \_\_\_\_\_
  - b. MES SAGE:

a.

Notify Shift Supervisor of close-out of the Unusual Event.

3. Nuclear Regulatory Commission Office - Bethesda, Md.

a. Telephone: Emergency Notification System (ENS)

### (RED PHONE)

b. MES SAGE:

This is at the Three Mile Island Nuclear (name/title) Station Unit 2. We have closed-out the Unusual Event at hours.

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### ATTACHMENT I SECTION II (Cont'd)

### SECONDARY CONTACT

### INITIAL

(...)

- 4. If applicable, notify the following persons and/or agencies of close-out of the Unusual Event:
  - a. Hershey Medical Center:
    - b. Pennsylvania State Police:
  - c. Radiation Management Corporation (RMC):

Emergencies

Office

- d. American Nuclear Insurers:
- e. Others: As directed by the Emergency Director.

DATE		TIME	COMPLETED BY
	A standard complete lands on the set of the		CON LLILD DI

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### ATTACHMENT I

### SECTION II (Cont'd)

### NOT IFICATION CHECKLIST

	::	1-4-12		INITIAL NO	TIFICATION		DE		TIME OF TION OR CLOSE	OUT
AGENCY	::	UNUSUAL	: ALERT	: SITE : EMERGEN	: : Gene ICY : Emerg	ENCY ::	UNUSUAL : EVENT :	ALERT	SITE EMERGENCY	GENERAL EMERGENCY
Dauphin County	::		:	:		::				
PEMA	::		:	-		::				
Unit 2 Control Room	::			-		::				
INPO	::									
NRC	::					:: :: ::				
Hershey Medical Center	:: r :: ::	*	*		*	* ::				
State Police		*	*		*	 				
RMC	::	*	*		* :	* ::				
ANI		*	*							
B and W		N/A	: N/A	<u>.</u>						
5 Affected Counties	::		: N/A	: N/A						

\* Optional

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### ATTACHMENT II

### EMERGENCY STATUS REPORT

### SECTION I

1.	CLASSIFICATION OF EMERGENCY:
2.	WHAT IS THE STATUS OF THE PLANT:
	A. REACTOR PRESSURE
	B. REACTOR TEMPERATURE
	C. METHOD OF PRESSURE CONTROL
	D. METHOD OF TEMPERATURE CONTROL
3.	WHAT ARE THE ENVIRONMENTAL CONDITIONS:
	A. WIND SPEED
	B. WIND DIRECTION
4.	IS OFFSITE POWER AVAILABLE YES/NO
5.	ARE BOTH DIESEL GENERATORS OPERABLE YES/NO
6.	HAVE ANY PERSONNEL INJURIES OCCURRED YES/NO
	IS THE INJURED PERSON(S) CONTAMINATED YES/NO
	IF SO, INDICATE APPROXIMATE RADIATION AND/OR CONTAMINATION LEVELS
	BELOW:
	MR/HRDPM/100 CM <sup>2</sup>
7.	HAVE ALL OFFSITE NOTIFICATIONS BEEN MADE YES/NO
	IF NOT, WHO HAS NOT BEEN NOTIFIED AND WHY

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### ATTACHMENT II

### EMERGENCY STATUS REPORT

SECTION I (Cont'd)

8. IS THE EMERGENCY EXPECTED TO RESULT IN DETECTABLE CHANGES IN OFFSITE

RADIATION LEVELS YES/NO

IF YES -- WHAT RECOMMENDATIONS HAVE BEEN MADE TO PEMA BY THE EMERGENCY

DIRECTOR

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### ATTACHMENT II

### EMERGENCY STATUS REPORT

### SECTION II

Fill out if a release has occurred or is occurring. Provide BRP all available information for verification call.

- What is the approximate radioactive source term discharge rate from the plant (As determined by the Projected Dose Calculation procedure (1054.7)).
  - a) Noble gases Ci/sec
  - b) Airborne Ci/sec

2. What is the approximate meteorology

- a) Wind speed mph
- b) Wind direction °
- c) Stability Class Stable / Neutral / Unstable

 What is the projected whole body dose rate and airborne concentration at the nearest offsite downwind point

- a) mR/nr
- b) uCi/cc
- c) (Location)

4. Estimated duration of the release

a) If the release is terminated:

 Start time
 Stop Time
 Duration

 Start time
 Stop time
 Duration

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### ATTACHMENT II

### EMERGENCY STATUS REPORT

### SECTION II (Cont'd)

5. a. Based on projected dose rate, airborne concentration and duration or estimated duration (if still in progress) of the release, will the lower limits of the EPA Protective Action Guides be exceeded (i.e., 1 Rem Whole body, 5 Rem Child Thyroid)?

Yes/No

Date

Time Completed

Completed By

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### ATTACHMENT III

CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

MADE IN ACCORDANCE WITH 10 CFR 50.72

A. Identification	Α.	Identi	fication:
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icensee Facil	ity Affected
Applicable Part of 10 CFR 50.72	
Description:	
Date of Event	Time
Description of What Happened	
Consequences of Event: (Complete de	epending on type of event)
Injuries	Fatalities
Contamination (personnel)	(property)
and the second s	(h. h. h. )
Overexposures (known/possible)	tential)
Overexposures (known/possible) Safety Hazard (describe - actual/pot	
Overexposures (known/possible) Safety Hazard (describe - actual/pot Offsite Radiation Levels	tential)
Overexposures (known/possible) Safety Hazard (describe - actual/pot Offsite Radiation Levels Integrated Dose	tential)
Overexposures (known/possible) Safety Hazard (describe - actual/pot Offsite Radiation Levels Integrated Dose Meterology (wind speed)	Location
Overexposures (known/possible) Safety Hazard (describe - actual/pot Offsite Radiation Levels Integrated Dose Meterology (wind speed) Meather Conditions (rain, clear, ove	Location From (direction)
Overexposures (known/possible) Safety Hazard (describe - actual/pot Offsite Radiation Levels Integrated Dose Meterology (wind speed) Weather Conditions (rain, clear, ove Equipment/Property Damage	Location From (direction) ercast, temperature)
Overexposures (known/possible) Safety Hazard (describe - actual/pot Offsite Radiation Levels Integrated Dose Meterology (wind speed) Weather Conditions (rain, clear, ove Equipment/Property Damage Cause of Event:	Location From (direction) ercast, temperature)
Overexposures (known/possible) Safety Hazard (describe - actual/pot Offsite Radiation Levels Integrated Dose Meterology (wind speed) Weather Conditions (rain, clear, ove Equipment/Property Damage Cause of Event:	Location From (direction) ercast, temperature)

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ATTACHMENT	III (	Cont	'd)

CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

	MADE	IN	ACCORDANCE	WITH	10	CFR	50.7	12
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21.3		
	anned	
Eme	ergency Plan Activated (Yes/No	D) Classification of Emergency <sup>1</sup>
Res	sident Inspector Notified (Yes	<pre>s/No) State Notified (Yes/No)</pre>
Pre	ess Release Planned (Yes/No)	News Media Interest (Yes/No)
		Local/National
Cur	rrent Status: (Complete depen	
		After Event
	and the second	Temp. (t <sub>hot</sub> ) (t <sub>cold</sub> )
	riessure	
	RCS Flow (Yes/No)	Pumps On (Yes/No)
	RCS Flow (Yes/No) Heat Sink: Condenser	Pumps On (Yes/No)Steam Atm. Dump
	RCS Flow (Yes/No) Heat Sink: Condenser Other Sample	Pumps On (Yes/No)Stear Atm. Dump e Taken (Yes/No)Activity Level
	RCS Flow (Yes/No) Heat Sink: Condenser Other Sample ECCS Operating (Yes/No)	Pumps On (Yes/No)Steam Atm. DumpActivity Level e Taken (Yes/No)Activity Level ECCS Operable (Yes/No)
	RCS Flow (Yes/No) Heat Sink: Condenser Other Sample ECCS Operating (Yes/No) ESF Actuation (Yes/No)	Pumps On (Yes/No) Steam Atm. Dump e Taken (Yes/No)Activity Level ECCS Operable (Yes/No)
	RCS Flow (Yes/No) Heat Sink: Condenser Other Sample ECCS Operating (Yes/No) ESF Actuation (Yes/No) PZR or RX Level	Pumps On (Yes/No)Steam Atm. DumpActivity LevelECCS Operable (Yes/No)

See Emergency Action Levels, Appendix 1, NUREG-0654, Revision 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.

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### ATTACHMENT III (Cont'd)

### CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

### MADE IN ACCORDANCE WITH 10 CFR 50.72

### F. 1. (Cont'd)

2

3

Containment Pressure Safety Relief Valve Actuation (Yes/No	Containment	Pressure	Safety	Relief	Valve	Actuation	(Yes/No)
--	-------------	----------	--------	--------	-------	-----------	----------

Containment Water Level Indication

Equipment Failures			
Normal Offsite Power Available (Yes/	NO)		
Major Busses/Loads Lost			
Safeguards Busses Power Source			
D/G Running (Yes/No)	Loaded (Yes/No)		
Radioactivity Release			
iquid/Gas	Location/Source		
Release Rate	Duration		
Stopped (Yes/No)	Release Monitored (Yes/No)		
mount of Release	Tech Spec. Limits		
Radiation Levels in Plant	Areas Evacuated		
Security/Safeguards <sup>2</sup>			
Bomb Threat: Search Conducted (Yes/	No) Search Results		
Site Evacuated (Yes/No)			
Intrusion: Insider	Outsider		
Point of Intrusion	Extent of Intrusion		
Apparent Purpose			

2 See 10 CFR 73.71(c), effective April 6, 1981.

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### ATTACHMENT III (Cont'd)

CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

MADE IN ACCORDANCE WITH 10 CFR 50.72

### F. 3. (Cont'd)

Strike/Demonstrations: Size of Group

Purpose

Sabotage: Radiological (Yes/No) Arson (Yes/No)

Equipment/Property\_\_\_\_

Extortion: Source (phone, letter etc.)

Location of Letter\_\_\_\_\_

Demands

General: Firearms involved (Yes/No) Violence (Yes/No)

Control of Facility Compromised or Threatened (Yes/No)

Stolen/Missing Material

Agencies Notified (FBI, State Police, Local Police, etc.)

Media Interest (present, anticipated)

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THREE MILE ISLAND NUCLEAR STATION UNIT NO. 2 EMERGENCY PLAN IMPLEMENTING PROCEDURE 1054.2 CONTROLLED COPY FOR-ALERT

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Unit 2 Staff Recommends Approval Date 5/4/82 Approval Lange Cognizant Dept. Head Unit 2 PORC Recommends Approval Date 7/13/82 Chairman of PORC Unit 2 Superintendent Approval Date 7/1/82

Mgr QA Approval

Date

NRC Approval

Date

Document ID: 0002w

NA

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1. 10 1

### THREE MILE ISLAND NUCLEAR STATION UNIT NO. 2 EMERGENCY PLAN IMPLEMENTING PROCEDURE 1054.2

#### ALERT

### 1.0 PURPOSE

The purpose of this procedure is to define the conditions that shall be regarded as an Alert for Three Mile Island Nuclear Station (Unit 2) and to:

- a. Ensure necessary actions are taken to protect the health and safety of the public.
- b. Ensure necessary actions are taken to notify GPU-Nuclear management and offsite emergency response organizations.
- c. Mobilize the appropriate portions of the emergency response organization to initiate appropriate emergency actions.

The Emergency Director is responsible for implementing this procedure.

- NOTE: Emergency Director responsibilities that may not be delegated include:
- Decision to notify offsite emergency management agencies.
- Making protective action recommendations as necessary to offsite emergency management agencies.
- Classification of Emergency Event.
- d. Determining the necessity for onsite evacuation.
- Authorization for emergency workers to exceed 10 CFR 20 radiation exposure limits.

### 2.0 ATTACHMENTS

- 2.1 Attachment I, Alert Notifications
- 2.2 Attachment II, Emergency Status Report
- 2.3 Attachment III, Checklist for notification of Significant Events made in accordance with 10CFR50.72

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3.0 Emergency Action Levels

### INITIATING CONDITION

- 3.1 Reactor Coolant system pressure and temperature reach saturation conditions.
- INDICATION
- Reactor coolant temperature as indicated by R.C.S. hot leg temperature indicator(s)
- Reactor coolant pressure as indicated by R.C.S. pressure indicator(s).
- c. Saturation conditions as indicated by R.C.S. Pressure/Temperature curves.

As indicated by R.C.S. hot leg temperature indicator(s).

As indicated by R.C.S pressure indicator(s).

Loss of indication on all channel of Source and Intermediate range nuclear instrumertation.

As measured by R.C.S. leakrate test.

As indicated by the reactor building pressure monitoring instrumentation.

- R.C.S. sampling indicates increasing levels of transuranics.
- b. Area monitoring and/or survey indicates increasing levels radioactivity.
  Primary system leakrate attribute as primary to secondary leakage by sample analysis.

Area monitoring and/or surveys indicate a major increase in radiation of contamination level. (Increase of Factor of 1000 above normal levels)

- 3.2 Reactor coolant system "A" or "B" hot leg temperature  $(T_h) \ge 280^{\circ}F$
- 3.3 Reactor coolant system pressure > 600 psig.
- 3.4 Complete loss of all Source and Intermediate Range nuclear instrumentation.
- 3.5 Total reactor coolant system leakrate > 50 gpm.
- 3.6 Reactor building pressure ≥ 2 psig but less than 4 psig.
- 3.7 Indication of increasing fuel degradation with increasing radioactivity levels outside of the primary system boundaries
- 3.8 Primary to secondary leakrate >lgpm but <50gpm, or secondary activity levels >1.0uCi/ml.
- 3.9 Radiation levels or radioactive contamination which indicates a severe degradation in the control of radioactive materials.

- 3.10 Any accidental, unplanned or uncontrolled radioactive release resulting in radiological effluents greater than Technical Specification instantaneous limits.
- 3.11 Sustained loss of all offsite power coincident with the loss of both diesel generators for less than 15 minutes.
- 3.12 Loss of all onsite D.C. power for less than 15 minutes.
- 3.13 Evacuation of control room anticipated or required with control of shutdown systems established from local stations.
- 3.14 Any severe natural phenomenon being experienced.

- 3.15 Any fire in a permanent plant structure requiring outside assistance or potentially affecting a safety related system.
- 3.16 An aircraft crash or other missile impact within the protected area or onto any permanent plant structure.

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- Any valid unanticipated "Alarm" condition on any effluent radiation monitor.
- b. An offsite radiological monitoring team reports >10mR/hr (gamma) but <50mR/hr at any offsite location.

Loss of all A.C. power indication from offsite transmission network and the failure of both diesel generators to start and/or load.

All battery voltmeters read zero with no D.C. lighting or control power available.

Shift Foreman's/Emergency Director judgement

As indicated by any of the following:

- Any earthquake of a magnitude > OBE levels as indicated by an alarm on Panel 8.
- Actual river stage > 302 ft. but < 307 feet at the river water intake structure.
- Hurricane winds (75 mph sustained).
- Any tornado striking the facility.

Shift Foreman's/Emergency Director's judgement based on advice of the Fire Brigade Leader.

Shift Foreman's/Emergency Director's judgement

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- 3.17 Any near or onsite toxic or flammable gas or liquid release which affects the habitability required for normal operations.
- 3.18 Known explosion damage to any permanent plant structure.
- 3.19 An ongoing security compromise.
- 3.20 Other plant conditions in progress or have occurred which may involve an actual or potential substantial degradation of

Shift Foreman's/Emergency Director's judgement.

Shift Foreman's/Emergency Director's judgement.

Shift Foreman's/Emergency Director's judgement based on advice of plant security.

Shift Foreman's/Emergency Director's Judgement

NOTE: In exercising the judgment as to the need for declaring an Alert, uncertainty considering safety status of the plant, the length of time the uncertainty exists, the prospects for early resolution of ambiguities, and the potential for substantial degradation of the level of safety of the plant should be considered; i.e., uncertainty as to the the existence of substantial degradation of the level of safety of the plant extending beyond a reasonable time period is a sufficient basis for declaring an Alert.

### 4.0 EMERGENCY ACTIONS

Initials

4.1 Upon recognition that any of the Emergency Action Levels of section 3.0 above have been reached or exceeded, the Shift Foreman shall announce or have announced, the following message over the public address sytem: (NOTE: TURN ON WHELEN SIREN SWITCH.)

> "ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL: AN ALERT HAS BEEN DECLARED IN UNIT 2. ALL MEMBERS OF THE

### 4.0

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ONSITE AND ONSHIFT EMERGENCY ORGANIZATION REPORT TO YOUR STATIONS. ALL OTHER PERSONNEL AWAIT FURTHER INSTRUC-TIONS." (If emergency is radiation-oriented, add "There will be No Smoking, Drinking, or Eating until further notice") (Give a brief description of the event and repeat the announcement). (NOTE: TURN OFF WHELEN SIREN SWITCH.)

4.2 The Shift Foreman shall assume the duties of the Emergency Director until properly relieved. He shall announce to the Control Room personnel that he, \_\_\_\_\_\_ has (name)

> assumed the duties of the Emergency Director. The Emergency Director shall periodically (every 1 hour min.) consult with the lead personnel of each area involved in the emergency, and discuss

- a. Status of each area.
- b. Immediate actions to be taken by each lead person.
- c. Problem areas.
- d. Recommendations on course of action.
- 4.3 If emergency is radiation-oriented, ensure that the Radiation Emergency Alarm has been sounded. (NOTE: TURN ON WHELEN SIREN SWITCH AND TURN OFF AFTER ALARM HAS BEEN SOUNDED.)
- 4.4 Assign a Communicator to make notifications to persons and/or agencies per Attachment I, Section I.
- 4.5 Contact the Duty Section Superintendent and discuss:
  - (a) Plant status
  - (b) Which members of the Duty Section are required to augment the Onsite/Offsite Emergency Organization. 5.0

- 4.6 Assign a Communications Assistant and direct him to perform all applicable steps of 1054.8.
- 4.7 Depending on the Energency Action Level which was reached or exceeded, ensure that the appropriate Emergency Operating Procedures have been implemented and/or the following Emergency Plan Implementing Procedures as required:
  - (a) Contaminated Injuries and Radiation Overexposure (1054.16).
  - (b) High Winds Tornado/High Winds (1054.22)
- 4.8 If local services (fire, ambulance, police) are required, ensure the Communicator has notified the Dauphin County Emergency Operations Center to request the appropriate assistance. Notify Security (N/S Gate) to begin preparations to expedite entry of responding emergency personnel (Police/Fire/Ambulance). Security should be advised to implement EPIP 1054.19 Emergency Security/Dosimetry Badge Issurance.
- 4.9 If changes in onsite or offsite radiation levels are expected, ensure the Radiological Assessment Coordinator has:
  - (a) Dispatched offsite and/or onsite radiation monitoring teams in accordance with EPIP's 1054.10 and 1054.11.
  - (b) Implemented Offsite Dose Projections procedure (1054.7).
- 4.10 Activate the Technical Support Center, procedure (1054.28), and the Operations Support Center, procedure (1054.29).
- 4.11 If additional resources or notifications are required, refer to Additional Assistance and Notifications procedure (1054.6).

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- 4.12 If the emergency involves in-plant Radiological Controls problems, ensure the Radiological Assessment Coordinator has implemented in-plant Radiological Controls During Emergencies (1054.9).
- \_\_\_\_4.13 Assign an individual to complete Attachment II, Section I (Emergency Status Report) and give it to the Radiological Assessment Coordinator to transmit to the Bureau of Radiation Protection.
- 4.14 Ensure the Radiological Assessment Coordinator has completed Attachment II, Section II to transmit to the Bureau of Radiation Protection if a radioactive release has occurred or is occurring.
- 4.15 Ensure that communications and documentation are maintained per procedure Communications and Recordkeeping (1054.5).
  - \_\_\_\_\_4.16 If applicable, ensure that the Operations Coordinator has dispatched Emergency Repair/Operations personnel to investigate the identified problem area, in accordance with Emergency Repair/Operations procedure 1054.21.
- 4.17 30 minutes after initial contact with PEMA, confirm that BRP verification has been made. If no verification, ensure the communicator has proceeded to Attachment I Section 1.2 (e).
- \_\_\_\_\_4.18 Ensure the Radiological Assessment Coordinator is providing ongoing dose estimates, for actual releases, to the Bureau of Radiation Protection.

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- \_4.19 If an accountability was required, and a report of the accountability has not been received within 30 minutes from the time it was ordered, contact the Shift Sergeant/Security Coordinator at for a status report.
- \_\_\_\_\_4.20 If personnel are unaccounted for, ensure the Radiological Assessment Coordinator has initiated Search and Rescue procedure (1054.18).
  - \_4.21 Evaluate dose projections and estimates and if necessary, recommend protective actions to the BRP consistent with the guidelines in Attachment I, Section IV.
- 4.22 Based upon assessment of plant conditions, either close out the Alert, escalate to a higher class of emergency or downgrade to a lower class.
  - (a) If Recovery Phase criteria have been met (see Recovery Procedure 1054.24), assign a communicator to close out the Alert by performing the notifications in Attachment I, Section III. Implement the Recovery Procedure (1054.24).
  - (b) If Recovery Phase criteria have not been met, but Alert emergency action levels are no longer being exceeded, de-escalate to an Unusual Event by assigning a communicator to notify BRP on the Radiological Line and perform the remaining notifications in accordance with the Unusual Event procedure (1054.1).

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- (c) If emergency action levels exceed those for an Alert, escalate to a higher class, notify BRP on the Radiological Line and make the remaining notifications in accordance with the appropriate emergency procedure as specified in Step 5.1.
- \_\_\_\_\_4.23 If necessary, due to potential contamination of normally non-contaminated sumps and/or tanks, or the need to closely monitor liquid releases, intiate procedure (1054.14), Monitoring/Controlling Liquid Discharges.

### 5.0 FINAL CONDITIONS

- 5.1 A higher class of emergency has been declared by the Emergency Director after meeting or exceeding an emergency action level of one of the higher classes and one of the following procedures is being implemented.
  - a. Site Emergency (1054.3)
  - b. General Emergency (1054.4)
- \_\_\_\_\_5.2 A lower class of emergency has been declared by the Emergency Director and Unusual Event procedure (1054.1) is being implemented.
- 5.3 The Alert has been closed out since no recovery operations are required.
  - \_\_\_\_\_5.4 The Alert can be shifted to a recovery mode by implementing the procedure Recovery Operations (1054.24).

DATE

SIGNATURE OF PERSON RESPONSIBLE FOR IMPLEMENTING THE PROCEDURE

### 9.0

- (c) If emergency action levels exceed those for an Alert, escalate to a higher class, notify BRP on the Radiological Line and make the remaining notifications in accordance with the appropriate emergency procedure as specified in Step 5.1.
- 4.23 If necessary, due to potential contamination of normally non-contaminated sumps and/or tanks, or the need to closely monitor liquid releases, intiate procedure (1054.14), Monitoring/Controlling Liquid Discharges.
- 5.0 FINAL CONDITIONS
  - 5.1 A higher class of emergency has been declared by the Emergency Director after meeting or exceeding an emergency action level of one of the higher classes and one of the following procedures is being implemented.
    - a. Site Emergency (1054.3)
    - b. General Emergency (1054.4)
  - \_\_\_\_5.2 A lower class of emergency has been declared by the Emergency Director and Unusual Event procedure (1054.1) is being implemented.
  - \_\_\_\_\_5.3 The Alert has been closed out since no recovery operations are required.
  - \_\_\_\_\_5.4 The Alert can be shifted to a recovery mode by implementing the procedure Recovery Operations (1054.24).

DATE

SIGNATURE OF PERSON RESPONSIBLE FOR IMPLEMENTING THE PROCEDURE

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### ATTACHMENT I SECTION I

### INITIAL CONTACT

The Communicator shall notify the following agencies and personnel and update the Attachment I, Section II checklist for each notification.

### INITIAL

1. Dauphin County Emergency Operation Center

(If this is a reclassification notification, first advise BRP via Radiological line, ignore items 1 and 2, proceed to item 3)

a. Telephone:

If no contact, activate Dauphin County radio system.
 MESSAGE:

This is  $\frac{1}{(name/title)}$  at the Three Mile Island Nuclear Station

Unit 2 calling. We have declared an Alert at  $\frac{1}{(time)}$  hours.

(Based upon Emergency Director judgment, deliver one of the following statements):

- We have not had a radioactive release
   OR
- We have had a radioactive release, but do not expect this situation to result in detectable changes in offsite radiation levels,

OR

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

### INITIAL

- 3) We have had a radioactive release, but do not know if there will be a detectable change in offsite radiation levels. We will be keeping the Bureau of Radiation Protection informed of the results of our investigation, OR
- 4) We have had a radioactive release and expect to be able to detect changes in offsite radiation levels, but they are expected to be less than the levels calling for a Site Emergency. We will be keeping the Bureau of Radiation Protection informed.
- c. Give a short non-technical description of the emergency and the extent of the radioactive release and the affected populations and area.

2. <u>Pennsylvania Emergency Management Agency (PEMA)</u> (If this is a reclassification notification, go to Item 3, Unaffected Control Room.)

> Telephone: (A diverter forwards this call to PEMA Duty Officer after working hours.)
>  NOTE: If no contact, proceed to step 2.d.

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## ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

## INITIAL

b. MESSAGE:

This is Three Mile Island Nuclear Station Unit 2 calling. We have an emergency. Give me the Operations Duty Officer. (When Duty Office answers:)

This is  $\frac{1}{(name/title)}$  at the Three Mile Island Nuclear Station

Unit 2 calling. We have declared an Alert at  $\frac{1}{(time)}$  hours. We request you contact Bureau of Radiation Protection. Bureau of Radiation Protection callback should be made on the Radiological Line or . (Based upon Emergency Director judgment, deliver one of the following statements):

- We have not had a radioactive release,
   OR
- We have had a radioactive release, but do not expect this situation to result in detectable changes in offsite radiation levels,

OR

3) We have had a radioactive release, but do not know if there will be detectable changes in offsite radiation levels. We will be keeping the Bureau of Radiation Protection informed of the results of our investigation, OR

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

INITIAL

- 4) We have had a radioactive release and expect to be able to detect changes in offsite radiation levels but they will be less than the levels calling for a Site Emergency. We will be keeping the Bureau of Radiation Protection informed.
- c. Give a short non-technical description of the emergency, and any potentially affected populations and areas:

- d. If PEMA is unable to be contacted, contact Dauphin County; advise them that PEMA cannot be contacted and direct them to notify PEMA, BRP, and Lancaster, York, Lebanon, and Cumberland counties.
- e. Message verification:

Expect Bureau of Radiological Protection (BRP) contact after PEMA notification. If no BRP confirmation is received within 30 minutes, notify PEMA of the situation. If unable to contact PEMA (line busy) call Dauphin County and notify them that BRP has not verified initial contact. Request Dauphin County to contact PEMA and/or BRP.

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## ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

### INITIAL

- Unaffected Control Room
  - Telephone. or inter Control Room Hot Line.
  - b. Message: Give a brief description of plant status to Shift Supervisor/Shift Foreman.
- Institute of Nuclear Power Operations

(Do not notify if this is a reclassification notification.)

- a. Telephone:
- b. MESSAGE:

This is \_\_\_\_\_\_at Three Mile Island Huclear Station (name/title)

Unit 2 calling. We have declared an Alert at \_\_\_\_\_ hours.

(Give a brief description of the emergency).

\_\_5. Notify the following personnel/agencies if the emergency situation is such that notification is deemed appropriate.

a. Hershey Medical Center

Notification to be performed per procedure 1054.16.

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

### INITIAL

b. <u>Pennsylvania State Police</u> MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear Station (name/title)

Unit 2 calling. We have declared an Alert at  $\frac{1}{(time)}$  hours.

We had a radioactive release. We require (have/have not)

assistance as follows: (State any assistance required.)

c. Radiation Management Corporation

EMERGENCIES:

### OFFICE

MES SAGE :

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear Station (name/title)

Unit 2 calling. We have declared an Alert at hours. (time)

We had a radioactive release. (Give a brief (have/have not)

description of the emergency).

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

### INITIAL

d. American Nuclear Insurers

Message:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear Station (name/title)

Unit 2 calling. We have declared an Alert at  $\frac{1}{(time)}$  hours.

We had a radioactive release. (Give a brief (have/have not)

description of the emergency).

DATE

TIME

COMPLETED BY

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

## INITIAL

- 6. <u>Nuclear Regulatory Commission</u> (NRC) Bethesda, MD. (Continuous communications with the NRC will be maintained following contact.)
  - Telephone: NRC Emergency Notification System (ENS)
     (RED PHONE) (If ENS phone does not work REFER to EPIP 1054.6, "Additional Assistance and Notification," FOR ALTERNATE
     METHODS.)
  - b. MESSAGE:
    - This is \_\_\_\_\_\_ at the Three Mile Island Nuclear Station
    - Unit 2 calling. We have declared an Alert at  $\frac{1}{(time)}$  hours.

(Based upon Emergency Director judgment, use one of the following statements):

1) We have not had a radioactive release

OR

 We have had a radioactive release but do not expect this situation to result in detectable changes in offsite radiation levels.

OR

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

### INITIAL

- 3) We have had a radioactive release but do not know if there will be a detectable change in offsite radiation levels. We will be keeping the Bureau of Radiation Protection informed of the results of our investigation.
- 4) We have had a radioactive release and expect to be able to detect changes in offsite radiation levels but they will be less than the levels calling for a Site Emergency. We expect the levels to be <50mRem/hr (gamma). We will be keeping the Bureau of Radiation Protection informed. (Give a short non-technical description of the emergency and the extent of the radioactive release, if appropriate).

NOTE: After initial NRC notification is complete per Attachment I Section I. Above, REFER to the NRC Notification Checklist, Attachment III. This checklist contains information desired by The NRC and maybe helpful in providing follow-up information.

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## ATTACHMENT I

## SECTION II

## NOTIFICATION CHECKLIST

		TIME	E 0		TIAL N		LATION				DE-ESC	TIME OF	LOSE OUT
	: :U	NUSUAL EVENT	:A :	LERT	: SI :EMER	TE	: GENERA :EMERGEN		::	UNUSUAL EVENT	: ALERT :	: SITE :EMERGENCY	:GENERAL :EMERGENCY
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Hershey Medical Center	::	*	:	*	:	*	:		::		:	<u>:</u>	<u>i</u>
State Police	::	*	:	*	:	*	:	*	::		-	:	:
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B and W		N/A	:	N/A			:		::		:	:	:
	::		:		:		:		::		:	:	:
5 Affected Counties	::	N/A	:	N/A	:	N/A	:		::		:	:	;

\* Optional

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### ATTACHMENT I SECTION III

### INITIAL CONTACT

The Communicator shall notify the following agencies and personnel and update the Attachment I, Section II checklist for each notification.

### INITIAL

- 1. Bureau of Radiation Protection
  - a. Telephone: Radiological Line
  - b. MES SAGE:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear Station (name/title)

Unit 2. We have closed out the Alert at hours and (time)

initiated recovery operations. Please notify PEMA Dauphin, Lancaster, York, Lebanon and Cumberland counties.

Unaffected Control Room

a. Telephone.

- b. Message: Notify Shift Supervisor of close out of the Alert.
- Nuclear Regulatory Commission Office Bethesda, Md.
  - a. Telephone: Emergency Notification System (ENS)

(RED PHONE)

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### ATTACHMENT I SECTION III (Cont'd)

### INITIAL CONTACT

### INITIAL

- b. MESSAGE:
  - This is \_\_\_\_\_\_ at the Three Mile Island Nuclear Station (name/title)

Unit 2. We have closed out the Alert at  $\frac{1}{(time)}$  hours and

initiated recovery operations.

- 4. If applicable, notify the following persons and/or agencies of close out of the Alert:
  - a. Hershey Medical Center:
    - b. Pensylvania State Police:
  - c. <u>Radiation Management Corporation</u> (RMC): EMERGENCIES:

OFFICE:

- d. American Nuclear Insurers:
- e. Others as directed by the Emergecy Director

DATE

TIME OF COMPLETETION

COMPLETED BY

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## ALERT

### ATTACHMENT I SECTION IV

#### PROTECTIVE ACTION RECOMMENDATION GUIDELINES

THESE RECOMMENDATIONS MAY BE DELIVERED ONLY BY THE EMERGENCY DIRECTOR

- 1. Consideration shall be given to sheltering if:
  - a. Release time is expected to be short (Puff release, <2 hours)

and

- b. Evacuation could not be well underway prior to expected plume arrival due to short warning time, high wind speeds, and/or foul weather.
- Consideration shall be given to evacuation if:
  - A release is expected to occur with projected doses approaching or exceeding:
    - 1 Rem Whole Body and/or
    - 5 Rem Child Thyroid

and

Release time is expected to be long (>2 hours)

and

c. Evacuation can be well underway prior to plume arrival for above release, based upon wind speed and travel conditions.

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## ATTACHMENT II SECTION I

## EMERGENCY STATUS REPORT

CLASSIFICATION OF EMERGENCY	
WHAT IS THE STATUS OF THE PLANT:	
A. REACTOR PRESSURE	
B. REACTOR TEMPERATURE	
C. MEHTOD OF PRESSURE CONTROL	
D. METHOD OF TEMPERATURE CONTROL	
WHAT ARE THE ENVIRONMENTAL CONDITIONS:	
A. WIND SPEED	
B. WIND DIRECTION	
IS OFFSITE POWER AVAILABLE	YES/NO
ARE BOTH DIESEL GENERATORS OPERABLE	YES/NO
HAVE ANY PERSONNEL INJURIES OCCURED	YES/NO
IS THE INJURED PERSON(S) CONTAMINATED	YES/NO
IF SO, INDICATE APPROXIMATE RADIATION AN	D/OR CONTAMINATION
LEVELS BELOW:	
MR/HR.	DPM/ 100CM2

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## ATTACHMENT II SECTION I (Cont'd)

## EMERGENCY STATUS REPORT

8. IS THE EMERGENCY EXPECTED TO RESULT IN DETECTABLE CHANGES IN OFFSITE RADIATION LEVELS YES/NO IF YES--WHAT RECOMMENDATIONS HAVE BEEN MADE TO PEMA BY THE EMERGENCY

DIRECTOR

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### ATTACHMENT II SECTION II

### EMERGENCY STATUS REPORT

Fill out if a release has (is) ocurred. Provide BRP all available information for verification call.\*

- What is the approximate radioactive source term discharge rate from the plant (As determined by the Projected Bose Calculation procedure (1054.7)).
  - a. Noble gases \_\_\_\_\_ Ci/sec
  - b. Iodina \_\_\_\_\_ Ci/sec
- 2. What is the approximate meteorology
  - a. Wind speed mph
  - b. Wind direction \_\_\_\_\_
  - c. Stability Class-Stable/Neutral/Unstable

 What is the projected whole body dose rate and iodine concentration at the nearest offsite downwind point

- a. mR/hr
- b. uCi/cc Iodine
- c. (Location)
- 4. Estimated duration of the release
  - a. If the release is terminated:

Start time \_\_\_\_\_ Stop time \_\_\_\_\_

Duration

b. If the release is still in progress:

Start Time Estimated duration (hrs/min/sec)

\*As per 1054.7

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### ATTACHMENT II SECTION II

### EMERGENCY STATUS REPORT

5. a. Based on projected dose rates, iodine concentration and duration or estimated duration (if still in progress) of the release, will the lower limits of the EPA Protective Action Guides be exceeded (i.e., 1 Rem Whole Body, 5 Rem Child Thyroid. <u>Yes/No</u>

b. If yes, estimate time to exceeding PAG: hours

DATE

TIME COMPLETED

COMPLETED BY

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## ATTACHMENT III

## CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

Identific	acton:	
Date	Nan	ne of Person Making Report
Licensee		Facility Affected
Applicab	le Part of 10 CF	F 50.72
Descript	ion:	
Date of I	vent	Time
Descript	on of What Happ	ened
Conseque	nces of Event:	(Complete depending on type of event)
Injuries		Fatalities
ontamin verexpo	ation (personnel sures (known/pos	Fatalities)(property) sible) - actual/potential)
Contamin Overexpo Safety Ha	ation (personnel sures (known/pos azard (describe	)(property) sible)
Contamin Overexpo Safety Ha Offsite H	ation (personnel sures (known/pos azard (describe Radiation Levels	)(property) sible) - actual/potential)
Contamin Overexpos Safety Ha Offsite I Integrate	ation (personnel sures (known/pos azard (describe Radiation Levels ed Dose	)(property) sible) - actual/potential)
Contamin Overexpos Safety Ha Offsite H Integrate Meterolog	ation (personnel sures (known/pos azard (describe Radiation Levels ed Dose ay (wind speed)_	)(property) sible) - actual/potential) Location
Contamin Overexpos Safety Ha Offsite H Integrate Meterolog Weather (	ation (personnel sures (known/pos azard (describe Radiation Levels ed Dose ay (wind speed)_	)(property) sible) - actual/potential) Location From (direction) , clear, overcast, temperature)

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### ATTACHMENT III (Cont'd)

CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

MADE 1	[ N	ACCORDANCE	WITH	10	CFR	50.7	2
--------	-----	------------	------	----	-----	------	---

Planned		
Emergency	Plan Activated (Yes/No)	Classification of Emergency <sup>1</sup>
Resident I	nspector Notified (Yes/No)	State Notified (Yes/No)
		News Media Interest (Yes/No)
		Local/National
C	the formalists descending	
	atus: (Complete depending	
1. Reac	tor Systems Status	
Powe	r Level Before Event	After Event
Pres	sureTemp	. (t <sub>hot</sub> )(t <sub>cold</sub> )
		s On (Yes/No)
	Sink: Condenser	Steam Atm. Dump
Heat		
Heat		en (Yes/No)Activity Level
	Other Sample Tak	
ECCS	Other Sample Tak Operating (Yes/No)	en (Yes/No)Activity Level
E C C S E SF	OtherSample Tak Operating (Yes/No) Actuation (Yes/No)	en (Yes/No)Activity Level ECCS Operable (Yes/No)
E C CS E SF PZ R	Other Sample Tak Operating (Yes/No) Actuation (Yes/No) or RX Level	en (Yes/No)Activity Level ECCS Operable (Yes/No)
ECCS ESF PZR S/G	Other Sample Tak Operating (Yes/No) Actuation (Yes/No) or RX Level	en (Yes/No)Activity Level ECCS Operable (Yes/No) Possible Fuel Damage (Yes/No) Feedwater Source/Flow

See Emergency Action Levels, Appendix 1, NUREG-0654, Revision 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.

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## ATTACHMENT III (cont'd)

## CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

MADE IN ACCORDANCE WITH 10 CFR 50.72

## F. 1. (Cont'd)

2

3

2

Containment Water Level Indication

quipment Failures	
Iormal Offsite Power Available (	Yes/No)
Major Busses/Loads Lost	
afeguards Busses Power Source	
)/G Running (Yes/No)	Loaded (Yes/No)
Radioactivity Release	
.iquid/Gas	Location/Source
Release Rate	Duration
topped (Yes/No)	_ Release Monitored (Yes/No)_
mount of Release	Tech Spec. Limits
adiation Levels in Plant	Areas Evacuated
ecurity/Safeguards <sup>2</sup>	
omb Threat: Search Conducted	(Yes/No)Search Results_
ite Evacuated (Yes/No)	
ntrusion: Insider	Outsider
oint of Intrusion	Extent of Intrusion

See 10 CFR 73.71(c), effective April 6, 1981.

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## ATTACHMENT III (cont'd)

## CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

## MADE IN ACCORDANCE WITH 10 CFR 50.72

F.	3.	(Cont'	d)

Strike/Dem	onstrations:	Size of Group_	
Purpose			
			Arson (Yes/No)
Equipment/	Property		
Location o	f Letter		
General:	Firearms invol	ved (Yes/No)	Violence (Yes/No)
Control of	Facility Compro	omised or Threat	ened (Yes/No)
Stolen/Mis	sion Material		
			cal Police, etc.)

Media Interest (present, anticipated)

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THREE MILE ISLAND NUCLEAR STATION UNIT NO. 2 EMERGENCY PLAN IMPLEMENTING PROCEDURE 1054.3 CONTROLLED COPY FOR MRC Office of Tuc. SITE EMERGENCY

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Approval Approval Cognizant Dept. Head	Date 5/7/02	
Unit 2 PORC Recommends Approval	Date 7/13/82	
Unit 2 Superintendent Approval	Date 7/19/02	
Mgr QA Approval NA Date	NRC Approval NA Document ID: 0003w	Date

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### THREE MILE ISLAND NUCLEAR STATION UNIT NO. 2 EMERGENCY PLAN IMPLEMENTING PROCEDURE 1054.3 SITE EMERGENCY

### 1.0 PURPOSE

The purpose of this procedure is to define the conditions that shall be regarded as a Site Emergency for Three Mile Island Nuclear Station (Unit 2) and to:

- Ensure necessary actions are taken to protect the health and safety of the public.
- b) Ensure necessary actions are taken to notify GPU Nuclear management and offsite emergency response organizations.
- c) Mobilize the emergency response organizations to initiate appropriate emergency actions.

The Emergency Director is responsible for implementing this procedure.

- NOTE: Emergency Director responsibilities that may NOT be delegated include:
- a) Decision to notify offsite emergency management agencies.
- Making protective action recommendations as necessary to offsite emergency management agencies.
- c) Classification of Emergency Event.
- Determining the necessity for onsite evacuation.
- Authorization for emergency workers to exceed 10CFR20 radiation exposure limits.

#### 2.0 ATTACHMENTS

- 2.1 Attachment I, Site Emergency Notifications.
- 2.2 Attachment II, Emergency Status Report.
- 2.3 Attachment III, Checklist for notification of significant events made in accordance with 10 CFR 50.72.

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## 3.0 EMERGENCY ACTION LEVELS

### INITIATING CONDITION

- A known loss of coolant accident 3.1 and/or reactor coolant system leakrate greater than SPC pump capacity.
- 3.2 Any unanticipated criticality or indicated change in core geometry.

- 3.3 Primary to secondary leakage > 50 gpm.
- Loss of all offsite power co-3.4 incident with the sustained loss of both diesel generators.
- 3.5 Sustained loss of all onsite D.C. power.
- 3.6 Any fire compromising the functions of any safety related system. Director's judgement.

### INDICATION

- Low levels in the Standby a. Reactor Coolant System Pressure Control System makeup tanks, (T-3,T-4), with SPC pump(s) at full capacity.
- b. Indicated level increase on reactor building sump manometer.
- Source and Intermediate a. range nuclear instrumentation indicate criticality.
- Incore thermocouples inb. dicated change in core heat distribution.
- Any indication, where in C . the judgement of the Shift Foreman/Emergency Director, a major change in core integrity has occurred.

Primary leakrate > 50 gpm and attributed as primary to secondary leakage by sample analysis and secondary activity levels.

Loss of all A.C. power indication from offsite transmission network and the inability to start or load both diesel generators for greater than 15 minutes. All battery voltmeters read zero with no D.C. lighting or control power available for greater than 15 minutes.

Shift Foreman's/Emergency

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- 3.7 Most or all assessment and/or communication capability lost and a plant condition projected or in progress which may involve actual or likely major failures of plant functions needed for protection of the public.
- 3.8 Actual or projected doses at the exclusion area boundary greater than 50 mR/hr but less than 100 mR/hr (whole body).

Shift Foreman's/Emergency Director's judgement.

- Actual or projected indication on HPR-219 gas, particulate, or iodine channels, and using adverse meteorology (Class F) for determination.
- b. Onsite monitoring team report of > 50 mR/hr but < 100 mR/hr at the exclusion area boundary.

Shift Foreman's/Emergency Director's judgement based on advice of plant security.

- As indicated by:
- An earthquake of magniture > 12g horizontal and/or > 0.08g vertical acceleration (Safe Shutdown Earthquake).
- River stage > 307 feet at the river water intake structure.

Shift Foreman's/Emergency Director's judgement.

Shift Foreman's/Emergency Director's judgement.

Shift Foreman's/Emergency Director's judgement.

# 3.9 Imminent loss of control of the physical security of the plant.

3.10 Severe natural phenomena being experienced.

- 3.11 An aircraft crash or other missile impact, which affects vital structures by impact or fire.
- 3.12 An explosion which causes severe damage to safe shutdown equipment.
- 3.13 Entry of toxic or flammable gases into vital areas which affects operation of safe shutdown equipment.

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- 3.14 Evacuation of the control room where control of the shutdown systems is not established within 15 minutes.
- 3.15 Reactor building pressure > 4 psig.
- 3.16 Other plant conditions are in progress or have occurred which may involve actual or likely major failures of plant functions needed for protection of the public.

When the control room is evacuated and control of the shutdown systems cannot be established.

As indicated by the reactor building pressure monitoring system.

Shift Foreman's/Emergency Director's judgement. NOTE: In exercising the judgment as to the need for declaring a Site Emergency, any uncertainty concerning the status of plant functions needed for protection of the public, the length of time the uncertainty exists, the prospects for early resolution of ambiguities, and the potential degradation of the plant functions needed for protection of the public should be considered; i.e., significant uncertainty as to the reliability of plant functions for protecting the public extending beyond a reasonable time period is a sufficient basis for declaring a Site Emergency.

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### 4.0 EMERGENCY ACTIONS

### Initial

- 4.1
- Upon recognition that any of Emergency Action Levels have been reached or exceeded, the Shift Foreman shall announce or have announced, the following message over the public address system (merged):

NOTE: Turn on Whelen Siren Switch.

ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL, A SITE EMERGENCY HAS BEEN DECLARED IN UNIT 2. ALL NON-ESSENTIAL PERSONNEL IN UNIT 2 REPORT TO UNIT 2 WAREHOUSE. ALL NON-ESSENTIAL PERSONNEL IN THE UNIT 2 AREA REPORT TO THE UNIT 2 WAREHOUSE. ALL PERSONNEL IN H.P. CONTROLLED AREAS PROCEED TO THE H.P. ACCESS CONTROL POINTS. ALL MEMBERS OF THE EMERGENCY ORGANIZATION REPORT TO YOUR STATIONS. THERE WILL BE NO SMOKING, DRINKING OR EATING UNTIL FURTHER NOTICE. (Repeat message slowly).

NOTE: Turn off Whelen Siren Switch.

- \_\_\_\_\_4.2 The Shift Foreman shall assume the duties of the Emergency Director until properly relieved. He shall announce to the Control Room personnel that he <u>(name)</u> has assumed the duties of the Emergency Director. The Emergency Director shall periodically (every 1 hour min.) consult with the lead personnel of each area involved in the emergency, and discuss:
  - a. Status of each area
  - b. Immediate actions to be taken by each lead person
  - c. Problem areas
  - d. Recommendations on course of action.

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- 4.3 If emergency is radiation-oriented, ensure that the Radiation Emergency Alarm has been sounded.
  - NOTE: Turn on Whelen Siren Switch and turn off after alarm has been sounded.
- \_\_\_\_4.4 Assign a Communicator to make notifications to persons and/or agencies per Attachment I, Section I.
- 4.5 Assign a Communications Assistant and direct him to perform all applicable steps of 1054.8.
- \_\_\_\_4.6 Contact the Duty Section Superintendent and discuss Plant Status. Inform him that the onsite and offsite Duty Section personnel are being called.
- 4.7 Depending on the emergency action level which was reached or exceeded, ensure that the appropriate Emergency Operating Procedures have been implemented (contaminated injuries and radiation overexposure (1054.16).
- 4.8 If local services (fire, ambulance, police) are required, ensure that the Communicator has notified the Dauphin County Emergency Operations Center and has requested the appropriate assistance. Notify security (N/S Gate) to begin preparations to expedite entry of responding emergency personnel (Police/Fire/Ambulance). Security should be advised to implement EPIP 1054.19, Emergency Security/Dosimetry Badge Issuance.

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- 4.9 If changes in onsite or offsite radiation levels are expected, ensure that Radiological Assessment Coordinator has:
  - a. Dispatched offsite and/or onsite radiation monitoring teams in accordance with EPIP's 1054.10 and 1054.11 and has sent a monitor to the Emergency Assembly Areas.
  - b. Implemented offsite dose projections procedure (1054.7).
- 4.10 Activate the Technical Support Center (1054.28) and the Operations Support Center (1054.29).
- 4.11 If additional resources or notifications are required, refer to additional Assistance and Notifications procedure (1054.6).
  - 4.12 If the emergency involves in-plant health physics problems, ensure that the Radiological Assessment Coordinator has implemented In-Plant Radiological Controls During Emergencies procedure (1054.9).
- 4.13 Assign an individual to complete Attachment II, Section I and give it to the Radiological Assessment Coordinator to transmit to the Bureau of Radiation Protection.
- 4.14 Ensure that the Radiological Assessment Coordinator has completed Attachment II, Section II to transmit to the Bureau of Radiation Protection if a radioactive release has occurred or is occurring.
- 4.15 Verify that communications and documentation are maintained per Communications and Recordkeeping procedure (1054.5).

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- 4.16 If applicable, ensure that the Operations Coordinator has dispatched Emergency Repair/Operations personnel to investigate the identified problem area(s) in accordance with Emergency Repair/Operations procedure (1054.21).
- 4.17 30 minutes after initial contact with PEMA, confirm that BRP verification has been made. If no verification, ensure the communicator has proceeded to Attachment I, Section 1, 2.(e).
- 4.18 Instruct the Radiological Assessment Coordinator to provide ongoing dose estimates for actual releases to the Bureau of Radiation Protection.
- 4.19 If a report of the accountability has not been received within 30 minutes from the time it was ordered, contact the Shift Sergeant/Security Coordinator at for a status report.
- 4.20 If personnel are unaccounted for, initiate Search and Rescue procedure (1054.18).
- 4.21 If site evacuation is deemed necessary, announce or have announced one of the following messages over the public address system (merged).

NOTE: Turn on Whelen Siren Switch.

ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL: ALL NON-ESSENTIAL PERSONNEL IN UNITS I AND II PROCEED TO THE (MIDDLETOWN SUBSTATION/500 KV SUBSTATION) USING THE NORTH/SOUTH GATE. (DEPENDING ON PLUME PATHWAY). UPON ARRIVAL, ALL SUPERVISORS WILL ASSEMBLE AND LOG IN THEIR PERSONNEL AND PROVIDE FURTHER INSTRUCTIONS. (Repeat message slowly).

NOTE: Turn off Whelen Siren Switch.

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- 4.22 Evaluate dose projections and estimates and, if necessary, recommend protective actions to the BRP consistent with the guidelines in Attachment I, Section IV.
- 4.23 Based upon assessment of plant conditions, the Emergency Director shall either close out the Site Emergency, escalate to a General Emergency or downgrade to a lower class as follows:
  - a. If Recovery Phase criteria have been met (see Recovery Procedure, 1054.24), close out the Site Emergency by performing the notifications in Attachment I, Section III. Implement the Recovery Procedure (1054.24).
  - b. If Recovery Phase criteria have not been met, but Site Emergency action levels are no longer exceeded, de-escalate to a lower emergency class by notifying BRP on the Radiological Line and performing the remaining notifications in accordance with the applicable emergency procedure as specified in Step 5.2.
  - \_\_\_\_\_c. If emergency action levels exceed those for a Site Emergency, escalate to a General Emergency, notify BRP on the Radiological Line and make the remaining notifications in accordance with the General Emergency procedure (1054.4).

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- 4.24 If necessary, due to potential contamination of normally noncontaminated sumps and/or tanks, or the need to closely monitor liquid releases, initiate procedure 1054.14, Monitoring/Controlling Liquid Discharges.
- 5.0 FINAL CONDITIONS
  - \_\_\_\_\_5.1 A higher class of emergency has been declared by the Emergency Director and the General Emergency procedure (1054.4) is being implemented, or
  - \_\_\_\_5.2 A lower class of emergency has been declared by the Emergency Director and one of the following procedures is being implemented:
    - a. Unusual Event (1054.1)
    - b. Alert (1054.2)
  - \_\_\_\_5.3 The Site Emergency has been closed out with the concurrence of the Emergency Support Director, since no recovery operations are required, or
  - 5.4 The Site Emergency can be shifted to a recovery mode by implementng procedure 1054.24.

Date

Signature of Person Responsible for Implementing Procedure

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### ATTACHMENT I SECTION I INITIAL CONTACT

The Communicator shall notify the following agencies and personnel and update • the Attachment I, Section II checklist after each notification.

#### INITIALS

- 1. Dauphin County Emergency Operation Center
  - (If this is a reclassification notification, first notify BRP on the radiological line then go to Item 3, unaffected Control Room).
  - a. Telephone:
  - (1) If no contact, activate Dauphin County radio system.

b. This is \_\_\_\_\_\_ at the Three \_\_\_\_\_\_ at the Three \_\_\_\_\_\_

Mile Island Nuclear Station Unit 2 calling. We have declared a Site Emergency at \_\_\_\_\_\_ hours. (Based upon

Emergency Director judgment, deliver one of the following statements):

- We have not had a radioactive release, but do not expect this situation to result in detectable changes in offsite radiation levels, OR
- (2) We have had a radioactive release, but do not expect this situation to result in detectable changes in offsite radiation levels, OR

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### ATTACHMENT I SECTION I INITIAL CONTACT

#### INITIAL

- (3) We have had a radioactive release, but do not know if there will be a detectable change in offsite radiation levels. We will be keeping the Bureau of Radiation Protection informed of the results of our investigation, OR
- (4) We have had a radioactive release and expect to be able to detect changes in offsite radiation levels, but they will be less than the levels calling for a General Emergency.

We will be keeping the Bureau of Radiation Protection informed.

(Give a short non-technical description of the emergency and the extent of radioactive release including potentially affected populations and areas).

Pennsylvania Emergency Management Agency (PEMA)

(If this is a reclassification notification, go to Item 3, unaffected Control Room).

<u>NOTE</u>: When protective actions are to be recommended, the Emergency Director should refer to the contents of Attachment I, Section IV.

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### ATTACHMENT I SECTION I INITIAL CONTACT

#### INITIAL

( · · · )

a. Telephone:

(A diverter forwards this call to PEMA duty officer after working hours).

NOTE: If no contact, proceed to Step 2.d.

b. MESSAGE:

This is \_\_\_\_\_(name/title) at the Three Mile Island Nuclear Station Unit 2 calling. We have an emergency. Give me the Operations Duty Officer. (When Duty Officer answers): This is \_\_\_\_\_(name/title) at the Three Mile Island Nuclear Station Unit 2 calling. We have declared a Site Emergency at\_\_\_\_ hours. We request that you (time) contact the Bureau of Radiation Protection. Bureau of Radiation Protection call back should be made on the Radiological Line or . (Based on Emergency Director's judgement, deliver one of the following statements).

(1) We have not had a radioactive release, OR

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### ATTACHMENT I SECTION I INITIAL CONTACT

#### INITIAL

- (2) We have had a radioactive release, but do not expect this situation to result in detectable changes in offsite radiation levels, OR
- (3) We have had a radioactive release, but do not know if there will be detectable changes in offsite radiation levels. We will be keeping the Bureau of Radiation Protection informed of the results of our investigation, OR
- (4) We have had a radioactive release and expect to be able to detect changes in offsite radiation levels, but they will be less than the levels calling for a General Emergency. We will be keeping the Bureau of Radiation Protection informed.
- c. Give a short non-technical description of the emergency and, if applicable, after release, state the direction of the projected plume pathway and potentially affected populations.
  - \_\_\_\_\_d. If PEMA was unable to be contacted, contact Dauphin County; advise them that PEMA cannot be contacted and direct them to notify PEMA, BRP, and Lancaster, York, Lebanon and Cumberland counties.

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### ATTACHMENT I SECTION I INITIAL CONTACT

#### INITIAL

e. Message verification:

Expect Bureau of Radiation Protection (BRP) contact after PEMA notification. If no BRP confirmation is received within 30 minutes, notify PEMA of the situation. If unable to contact PEMA (line busy), call Dauphin County and notify them that BRP has not verified initial contact. Request Dauphin County to contact PEMA and BRP.

#### Unaffected Control Room

- Telephone: or inter Control Room
   hotline.
- b. MESSAGE: Give a brief description of plant status to Shift Foreman/Shift Supervisor. Nuclear Station Unit 2 calling. We have declared a Site Emergency at \_\_\_\_\_\_ hours. (Based upon (time) Emergency Director's judgment, use one of the following statements):
  - (1) We have not had a radioactive release, OR
  - (2) We have had a radioactive release, but do not expect this situation to result in detectable changes in offsite radiation levels, OR

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ATTACHMENT I SECTION I

INITIAL CONTACT

(3) We have had a radioactive release, but do not know if there will be a detectable change in offsite radiation levels. We will be keeping the Bureau of Radiation Protection informed of the results of our investigation.

INITIAL

(4) We have had a radioactive release and expect to be able to detect changes in offsite radiation levels, but they will be less than the levels calling for a General Emergency. We expect the levels to be < 100 mRem per hour (gamma). We will be keeping the Bureau of Radiation Protection informed. (Give a short non-technical description of the emergency and the extent of the radioactive release, including affected populations and areas).

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### ATTACHMENT I SECTION I

#### INITIAL CONTACT

	institute of Nuclear Power Operations
	(Do not notify if this is a reclassification notification).
	a. Telephone:
	b. MESSAGE:
	This is at Three Mile
	Island Nuclear Station Unit 2 calling. We have declared
	a Site Emergency at hours.
	(Give a brief description of the emergency).
5.	Babcock and Wilcox -
	This is at Three (name/title)
	Mile Island Nuclear Station Unit 2 calling. We have declared
	a Site Emergency athours. (Have a prepared Emergency (Time)
	Status Report (Attachment II) available for reference while
	giving a brief description of the emergency).

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### ATTACHMENT I SECTION I INITIAL CONTACT

6. American Nuclear Insurers

MESSAGE :

This is \_\_\_\_\_\_ at Three Mile Island

Nuclear Station Unit 2 calling. We have declared a Site
Emergency at \_\_\_\_\_\_ hours. (Give a brief

description of the emergency).

We had a radioactive release.

7.

If the Site Emergency involves radiation releases, notify the following agencies:

a. Radiation Management Corporation Emergencies:

Office:

MESSAGE :

This is \_\_\_\_\_\_ at the Three Mile Island

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### ATTACHMENT I SECTION I INITIAL CONTACT

#### INITIAL

Nuclear Station Unit 2 calling.	We	have d	eclared	a	Site
Emergency at		hours.	(Give	a	brief
(time)					
description of the emergency).					

We have had a radioactive release.

We \_\_\_\_\_\_ require assistance at this (do/do not)

time. (Describe the assistance required, if any).

8.

If police or medical assistance is required, notify the following agencies:

a. Hershey Medical Center

b. Pennsylvania State Police

MESSAGE :

This is \_\_\_\_\_\_ at the Three Mile Island (name/title) Nuclear Station Unit 2 calling. We have declared a Site Emergency at \_\_\_\_\_\_ hours. We (time) hours. We (have/have/not) had a radioactive release. We require assistance as follows: (State any assistance required).

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### ATTACHMENT I SECTION I INITIAL CONTACT

#### INITIAL

9.

Nuclear Regulatory Commission (NRC) - Bethesda, MD (Communications with the NRC will be continuously maintained following contact).

a. Telephone: NRC Emergency Notification System (ENS) (RED PHONE) (If ENS phone does not work refer to EPIP 1054.6 "Additional Assistance and Notification", for alternate methods).

b. MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island (name/title)

<u>NOTE</u>: After initial NRC notification is complete per Attachment I, Section I above, refer to the NRC Notification Checklist, Attachment III. This checklist contains information desired by the NRC and may be helpful in providing follow-up information.

Date

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Completed By

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#### ATTACHMENT I

### SECTION II

		OTIFICAT	ION CHECKL	IST					
	TIME	OF INIT	TAL NOTIFIC		::			E OF TION OR CLO:	SF OUT
AGENCY	EVENT	ALERT	: SITI : EMERGE			USUAL : VENT :	ALERT :	SITE	GENERAL EMERGENCY
Bauphin County				1	::	:	:		
PEMA			:		::	:			
Chit 2 Control Room		_	:	:					
INPO :			:			:			
RC									
Hershey Medical Center	*	*	*	*					
State Police	*	*	: *	*	11				
RMC	*	*	: *	*					
ANI	*	*							
Brand W :	N/A :	N/A			 				
5 Affected Counties	N/A	N/A	:						

FOR USE IN UNIT II ONLY

\*Optional

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### ATTACHMENT I SECTION III SECONDARY CONTACT

The Communicator shall notify the following agencies and personnel and update the Attachment I, Section II checklist after each notification.

INITIAL

1.	Bure	au of	Radiat	ion	Protection	n	
	a.	Telep	hone:	Rad	diological	Line	

b. MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear Station Unit 2 calling. We have closed out the Site Emergency at \_\_\_\_\_ hours and initiated (time)

recovery operations. Please notify PEMA, Dauphin, Lancaster, York, Lebanon and Cumberland counties.

- Unaffected Control Room
  - a. Telephone:
  - b. MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island (name/title) Nuclear Station Unit 2 calling. We have closed out the Site Emergency at \_\_\_\_\_ hours and initiated recovery (time)

operations.

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### ATTACHMENT I SECTION III SECONDARY CONTACT

#### INITIAL

4. If applicable, notify the following persons and/or agencies of close out of the Site Emergency:

- a. Hershey Medical Center:
- b. Pennsylvania State Police:
- c. Radiation Management Corp. (RMC):

Emergencies: (0800-1700)

(1700 - 0800)

OR

Office: (0800-1700)

d. American Nuclear Insurers:

e. Babcock and Wilcox:

f. Others - as directed by the Emergency Director.

Date

Time Completed

Completed By

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#### ATTACHMENT I SECTION IV

#### PROTECTIVE ACTION RECOMMENDATION GUIDELINES

THESE RECOMMENDATIONS MAY BE DELIVERED ONLY BY THE EMERGENCY DIRECTOR

- Consideration shall be given to sheltering if:
  - a. Release time is expected to be short (Puff release, < 2 hours).

(AND)

- b. Evacuation could not be well underway prior to expected plume arrival due to short warning time, high wind speeds, and/or foul weather.
- Consideration shall be given to evacuation if:
  - A release is expected to occur with projected doses approaching or exceeding:

1 Rem Whole Body and/or

5 Rem Child Thyroid

(AND)

b. Release time is expected to be long (> 2 hours)

(AND)

c. Evacuation can be well underway prior to plume arrival for above release, based upon wind speed and travel conditions.

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	ATTACHMENT II EMERGENCY STATUS REPORT SECTION I
e.	CLASSIFICATION OF EMERGENCY:
	WHAT IS THE STATUS OF THE PLANT:
	A. REACTOR PRESSURE
	B. REACTOR TEMPERATURE
	C. METHOD OF PRESSURE CONTROL
	D. METHOD OF TEMPERATURE CONTROL
	WHAT ARE THE ENVIRONMENTAL CONDITIONS:
	A. WIND SPEED
	B. WIND DIRECTION
	IS OFFSITE POWER AVAILABLE YES/NO
	ARE BOTH DIESEL GENERATORS OPERABLE YES/NO
	HAVE ANY PERSONNEL INJURIES OCCURRED YES/NO
	IS THE INJURED PERSON(S) CONTAMINATED YES/NO
	IF SO, INDICATE APPROXIMATE RADIATION AND/OR CONTAMINATION LEVELS
	BELOW:
	MR/HR. DPM/100 CM <sup>2</sup>
	HAVE ALL OFFSITE NOTIFICATIONS BEEN MADE YES/NO
	IF NOT, WHO HAS NOT BEEN NOTIFIED AND WHY
	IS THE EMERGENCY EXPECTED TO RESULT IN DETECTABLE CHANGES IN OFFSITE
	RADIATION LEVELS YES/NO IF YESWHAT RECOMMENDATIONS HAVE BEEN MADE TO PEMA BY THE EMERGENCY
	DIRECTOR

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### ATTACHMENT II SECTION II EMERGENCY STATUS REPORT

Fill out if a release has (is) occurring. Provide BRP all available information for verification call.

1.	What is the	approximate r	radioactive	source term d	ischarge rate from
	the plant ?	(As determin	ed by the F	Projected Dose	Calculation
	Procedure (1	054.7).			

- (a) Noble gases Ci/sec
- (b) Airborne Ci/sec

2. What is the approximate meteorology ?

(a) Wind speed mph

. (b) Wind direction

(c) Stability Class-Stable/Neutral/Unstable

3. What is the projected whole body dose rate and airborne concentration at the nearest offsite downwind point ?

- (a) mR/hr
- (b) uCi/cc
- (c) (Location)

4. Estimated duration of the release

(a) If the release is terminated:

Start Time Stop Time

Duration

FOR USE IN UNIT II ONLY

26.0

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ATTACHMENT II SECTION 11 EMERGENCY STATUS REPORT

	(b)	If the release is still in progress:	
		Start Time	
		Estimated Duration (hrs/min/sec)	
5.	a.	Based on projected dose rates, airborne concentration and	
		duration or estimated duration (if still in progress) of the	
		release, will the lower limits of the EPA Protective Action	
		Guides be exceeded (i.e., 1 Rem Whole Body, 5 Rem Child	
		Thyroid)/Yes/No	
	b.	If yes, estimate time to exceeding PAG:	
		hours and projected whole body dose Rem and	
		child thyroid dose Rem.	

Date

1

Time Completed

Completed By

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· · · · ·	ATTACHMENT II	11
CHECKLIST FOR	NOTIFICATION OF	SIGNIFICANT EVENTS
	ACCORDANCE WITH	

	Person Making Report
	acility Affected
Applicable Part of 10 CFR 50.72	
Description:	
Date of EventTi	me
Description of What Happened	
Consequences of Event: (Complete	depending on type of event):
InjuriesFa	talities
Contamination (personnel)	(property)
Overexposures (known/possible)	
Safety Hazard (describe - actual/p	otential)
Offsite Radiation Levels	
Integrated Dose	Location
Meteorology (wind speed)	From (direction)
Weather Conditions (rain, clear, or	vercast, temperature)
Equipment/Property Damage	
Cause of Event:	
Licensee Actions:	
Taken	

F.

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ATTACHMENT II	I (Cont'd)
Emergency Plan Activated (Yes/No)	Classification of Emergency <sup>1</sup>
Resident Inspector Notified (Yes/No)	State Notified (Yes/No)
Press Release Planned (Yes/No)	News Media Interest (Yes/No)
	Local/National
Current Status: (Complete depending	on type of event):
1. Reactor Systems Status	
Power Level Before Event	After Event
PressureTemp. (	t <sub>hot</sub> )(t <sub>cold</sub> )
	Pumps On (Yes/No)
	Steam Atm. Dump
	(Yes/No)Activity Level
	ECCS Operable (Yes/No)
ESF Actuation (Yes/No)	
	ossible Fuel Damage (Yes/No)
	eedwater Source/Flow
	ty Relief Valve Actuation (Yes/No)_
Containment Water Level Indicati	
	Yes/No)
D/G Running (Yes/No)	

1 See Emergency Action Levels, Appendix 1, NUREG-0654, Revision 1, Critiera for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.

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### ATTACHMENT III (Cont'd)

Liquid/Gas	Location/Source					
Release Rate						
	lease Monitored (Yes/No)					
Amount of Release	Tech. Spec. Limits					
Radiation Levels in Plant	Areas Evacuated					
Security/Safeguards 2						
Bomb Threat: Search Conducted (Yes	/No)Search Results					
Site Evacuated (Yes/No)						
Intrusion: Insider	Outsider					
Point of Intrusion	Extent of Intrusion					
Apparent Purpose						
Strike Demonstrations: Size of Gro						
Purpose						
Sabotage: Radiological (Yes/No)						
Equipment/Property						
Extortion: Source (phone, letter,	etc.)					
Location of Letter						
Demands						
General: Firearms involved (Yes/No	Violence (Yes/No)					
Control of Facility Compromised or 1	Threatened (Yes/No)					
Stolen/Missing Material						
Agencies Notified (FBI, State Police	e, Local Police, etc.)					

2 See 10 CFR 73.71(c), effective April 6, 1981.

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521 1054.4 **Revision** 2 07/19/82

THREE MILE ISLAND NUCLEAR STATION

UNIT NO. 2 EMERGENCY PLANNING IMPLEMENTING PROCEDURE 1054.4 CONTROLLED COPY FOR USE IN UNIT II ONLY GENERAL EMERGENCY

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	Unit 2 St	art Recommends Approval		
	Approval	Cognizant Dept. Head	Date 5-17/82	
	5	RC Recommends Approval	Date 7/13/82	
	Unit 2 Su	perintendent Approval	Date_7/19/12	
lgr QA	Approval		NRC Approval	
	NA	Date	NA	Date_
			Document ID: 0004w	

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### THREE MILE ISLAND NUCLEAR STATION EMERGENCY PLANNING IMPLEMENTING PROCEDURE 1054.4 GENERAL EMERGENCY

#### 1.0 PURPOSE

The purpose of this procedure is to define the conditions that shall be regarded as a General Emergency for Three Mile Island Nuclear Station (Unit 2) and to:

- a. Ensure necessary actions are taken to protect the health and safety of the public.
- b. Ensure necessary actions are taken to notify GPU-Nuclear management and offsite emergency response organizations.
- c. Mobilize the emergency response organizations to initiate appropriate emergency actions.

The Plant Operations Group will take the actions necessary to implement this procedure upon identification of one or more of the Emergency Action Levels listed in Section 3.0 of this procedure. The Emergency Director shall then assume responsibility for the continuing implementation of this procedure.

NOTE: Emergency Director responsibilities that may not be delegated include:

- a) Decision to notify offsite emergency management agencies.
- Making protective action recommendations as necessary to offsite emergency management agencies.
- c) Classification of Emergency Event.
- d) Determining the necessity for onsite evacuation.
- Authorization for emergency workers to exceed 10 CFR 20 radiation exposure limits.

1.0

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#### 2.0 ATTACHMENTS

- 2.1 Attachment I, General Emergency Notifications
- 2.2 Attachment II, Emergency Status Report
- 2.3 Attachment III, Checklist for Notification of Significant Events made in accordance with 10 CFR 50.72.

#### 3.0 EMERGENCY ACTION LEVELS

3.1 INITIATING CONDITIONS Actual or Projected doses at the Exclusion Area Boundary > 100mr/hr, (whole body).

3.2 Significant levels of radiation in the reactor containment

containment integrity.

building and potential loss of

INDICATION

- Actual or projected indication on HP-R-219 Gas, Particulate, or Iodine channels, using actual meteorology for determination.
- b. Unsite monitoring team reports of > 100 mr/hr at the Exclusion Area Boundary.

As indicated by either:

- Reactor building pressure
   2 4 PSIG and high radiation and/or activity levels present.
- b. Reactor building has indicated high radiation and/or activity levels and hydrogen concentration is > 3 percent by volume.

3.3 Loss of physical control of the facility. Shift Foreman's/Emergency Director's judgement based on advice from Plant Security.

2.0

3.4 Other plant conditions are in progress or have occurred which may involve actual or imminent substantial core degradation or melting, with potential for loss of containment integrity, or may make release of significant amounts of radioactivity in a short time possible. 1054.4 Revision 2

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Shift Foreman's/Emergency Director Judgement

NOTE: In exercising the judgment as to the need for declaring a General Emergency. any uncertainty concerning the potential for large releases of radioactive material, the length of time the uncertainty exists, and the prospects for the early resolution of ambiguities should be considered, i.e., significant uncertainty as to the potential for large releases of radioactive material extending beyond a reasonable time period is a sufficient basis for declaring a General Emergency.

#### 4.0 EMERGENCY ACTIONS

#### INITIALS

4.1 Upon recognition that any of the Emergency Action Levels have been reached or exceeded, the Shift Foreman shall announce or have announced the following message over the public address system (merged):

NOTE: Turn on Whelen Siren Switch.

ATTENTION ALL PERSONNEL; ATTENTION ALL PERSONNEL: A GENERAL EMERGENCY IN UNIT II HAS BEEN DECLARED. ALL NON-ESSENTIAL PERSONNEL IN UNITS I AND II PROCEED TO (500 KV SUBSTATION/-MIDDLETOWN SUBSTATION) (Depending on plume pathway). UPON ARRIVAL, ALL SUPERVISORS WILL ASSEMBLE AND LOG THEIR PERSONNEL. PERSONNEL IN H.P. CONTROLLED AREAS REPORT TO ACCESS CONTROL POINTS. ALL MEMBERS OF THE EMERGENCY ORGANIZATION REPORT TO YOUR STATIONS. THERE WILL BE NO SMOKING, DRINKING, OR EATING UNTIL FURTHER NOTICE. (Repeat message slowly)

NOTE: Turn off Whelen Siren Switch.

3.0

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#### INITIALS

4.2 The Shift Foreman shall assume the duties of the Emergency Director until properly relieved. He shall announce to the Control Room personnel that he, (name) has assumed the duties of the Emergency Director.

The Emergency director shall periodically (every 1 hour min.) consult with the lead personnel of each area involved in the emergency, and discuss:

- a. Status of each area.
- Immediate actions to be taken by each lead person.
- c. Problem areas.
- d. Recommendations on course of action.
- 4.3 Direct the sounding of the Radiation Emergency Alarm.
  - <u>NOTE</u>: Turn on Whelen Siren Switch and turn off after alarm has been sounded.
- 4.4 Assign a communicator to make notifications to persons and/or agencies per Attachment I, Section I.
- 4.5 Assign a Communications Assistant and direct him to perform all applicable steps of 1054.8
- 4.6 Contact the Duty Section Superintendent, and discuss plant status and that the on-site and off-site duty section personnel are being called.
- 4.7 Depending on the emergency action level which was reached or exceeded, ensure that the appropriate Emergency Operating Procedures have been implemented (contaminated injuries and radiation overexposure (1054.16).

#### 4.0

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#### INITIALS

- 4.8 If local services (fire, ambulance, police) are required, ensure that the Communicator has notified Dauphin County Emergency Operations Center and requested appropriate assistance. Notify security (N/S Gate) to begin preparations to expedite entry of responding emergency personnel (Police/Fire/Ambulance). Security should be advised to implement procedure 1054.19 (Emergency Security/Dosimetry Badge Issuance.)
- 4.9 Ensure the Radiological Assessment Coordinator has:
  - Dispatched off-site and/or on-site radiation monitoring teams in accordance with Offsite Radiation Monitoring procedure (1054.11) and Onsite Radiation Monitoring procedure (1054.10).
  - Implemented Offsite Dose Projections procedure (1054.7).
- 4.10 Activate the Technical Support Center (1054.28) and the Operations Support Center (1054.29).
- 4.11 If additional resources or notifications are required, refer to additional Assistance and Notification procedure (1054.6).
- 4.12 If the emergency involves in-plant Radiological Controls problems, ensure that the Radiological Assessment Coordinator has implemented In-Plant Radiological Controls During Emergencies procedure (1054.9).
- \_\_\_\_\_ 4.13 Assign an individual to complete Attachment II, Section I and give it to the Radiological Assessment Coordinator to transmit to the Bureau of Radiation Protection.
- \_\_\_\_\_ 4.14 Ensure the Radiological Assessment Coordinator has completed Attachment II, Section II to transmit to the Bureau of Radiation Protection.

5.0

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#### INITIALS

- 4.15 Verify that communications and documentation are maintained per Communications and Recordkeeping procedure (1054.5).
- 4.16 If applicable, ensure that the Operations Coordinator has dispatched Emergency Repair/Operations Personnel to investigate the identified problem areas(s) in an accordance with Emergency Repair/Operations procedure 1054.21.
- 4.17 30 minutes after initial contact with PEMA, confirm that BRP verification has been made. If no verification, ensure the Communicator has proceeded to Attachment I, Section 1, Step 2(e).
- 4.18 Ensure the Radiological Assessment Coordinator has provided ongoing dose estimates for actual releases to the Bureau of Radiation Protection.
- 4.19 If a report of Accountability has not been received within 30 minutes from the time it was ordered, contact the Shift Sergeant/Security Coordinator at for a status report.
- 4.20 If personnel are unaccounted for, ensure the Radiological Assessment Coordinator has initiated Search and Rescue procedure (1054.18).
- 4.21 Evaluate dose projections and estimates and, if necessary, recommend protective actions to the BRP, consistent with the guidelines in Attachment I, Section IV.

6.0

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#### INITIALS

- 4.22 Based upon assessment of plant conditions, the Emergency Director shall either close out the General Emergency and enter the Recovery Phase or downgrade to a lower class as follows:
  - a. If Recovery Phase criteria have been met (see procedure 1054.24),
  - b. If Recovery Phase criteria have not been met, but General Emergency Action levels are no longer being exceeded, de-escalate to a lower emergency class by having the Communicator notify BRP on the Radiological Line and perform the remaining notifications in accordance with the applicable emergency procedure as specified in Step 5.1.
- 4.23 If necessary, due to potential contamination of normally non-contaminated sumps and/or tanks, or the need to closely monitor liquid releases, initate procedure 1054.14 (monitoring/controlling liquid discharges).
- 5.0 FINAL CONDITIONS
  - \_\_\_\_\_5.1 A lower class of emergency has been declared by the Emergency Director and one of the following procedures is being implemented:
    - a. Site Emergency (1054.3)
    - b. Alert (1054.2)
    - c. Unusual Event (1054.1)
  - 5.2 The General Emergency has been closed out with the concurrence of the Emergency Support Director, since no recovery operations are required.
  - 5.3 The General Emergency has been shifted to a recovery mode by implementing the procedure Recovery Operations (1054.24).

7.0

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### ATTACHMENT I SECTION I (Cont'd)

#### INITIAL CONTACT

#### INITIALS

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b. MESSAGE:

Give a brief description of plant status to Shift

Supervisor/Shift Foreman.

### 4. Parent and Four affected Counties

a. Telephone each county separately and deliver the message

- 1. Dauphin -
- 2. York -
- 3. Lancaster
- 4. Lebanon -
- 5. Cumberland -
- b. MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear (name/title)

Station Unit 2 calling. We have declared a General Emergency

at \_\_\_\_\_hours. Give a brief description of the emergency. (time)

NOTE: Each county must be notified independently and the message transmitted.

#### 12.0

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#### ATTACHMENT I SECTION I (Cont'd)

#### INITIAL CONTACT

#### INITIALS

. . . .

c. Give a short, non-technical description of the emergency and the extent of the radioactive release, and potentially affected populations and areas:

- d. If PEMA was unable to be contacted, contact Dauphin County; advise them that PEMA cannot be contacted and direct them to notify PEMA, BRP, and Lancaster, York, Lebanon and Cumberland counties.
- e. Message verification:

Expect Bureau of Radiation Protection (BRP) contact after PEMA notification. If no BRP confirmation is received within 30 minutes, notify PEMA of situation. If unable to contact PEMA (line busy), call Dauphin County and notify them that BRP has not verified initial contact. Instruct Dauphin County to contact PEMA and/or BRP.

- 3. Unaffected Control Room
  - a. Telephone: Use or inter-Control Room Hot-Line.

11.0

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#### ATTACHMENT I SECTION I (Cont'd)

#### INITIAL CONTACT

#### INITIALS

b. MESSAGE: ASK FOR THE DUTY OFFICER

This is at the Three Hile Island Huclear (name/title)

Station Unit 2 calling. We have declared an Emergency. Give me the Operations Duty Officer. (When Duty Officer answers): This is \_\_\_\_\_\_\_ at the Three Mile Island Nuclear Station (name/title)

Unit 2 calling. We have declared a General Emergency at (time) hours. We request that you contact the Bureau of Radiation Protection. Bureau of Radiation Protection call back should be made on the Radiological Line or

(Based on Emergency Director's judgement, deliver one of the following statements):

- We have not had a radioactive release, however, we have the potential for significant radioactive release.
   OR
- 2) We have had a radioactive release and offsite radiation levels are expected to be > 100 mRem/hour (gamma). We will be keeping the Bureau of Radiation Protection informed.

10.0

1054.4 Revision 2

#### ATTACHMENT I SECTION I (Cont'd)

#### INITIAL CONTACT

#### INITIALS

Give a short non-technical description of the emergency, the extent of the radioactive release, and potentially affected populations and areas:

Pennsylvania Emergency Management Agency (PEMA)

(If this is a reclassification notification, go to Item 3, Unaffected Control Room. )

NOTE: Where offsite protective actions are to be recommended, the Emergency Director should refer to the contents of Attachment I Section IV.

a. Telephone:

(A diverter forwards this call to a PEMA Duty Officer after working hours).

1) If no contact, proceed to Step 2.d.

9.0

1054.4 Revision 2

#### ATTACHMENT I SECTION I

#### INITIAL CONTACT

#### INITIALS

The Communicator shall notify the following agencies and personnel, and update the Attachment I, Section II checklist after each notification.

Dauphin County Emergency Operation Center

(If this is a reclassification, go to Item 3, Unaffected Control Room).

a. Telephone:

If no contact, activate the Dauphin County Radio System.
 MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear (name/title)

Station Unit 2 calling. We have declared a General Emergency

at \_\_\_\_\_hours. (Based upon Emergency Director judgement, \_\_\_\_\_\_

use one of the following statements):

- We have not had a radioactive release, however we have the potential for a significant radioactive release OR
- We have had a radioactive release and offsite radiation levels are expected to be > 100 mRem per hour (gamma).
   We will be keeping the Bureau of Radiological Protection informed.

8.0

#### 1054.4 **Revision** 2

#### ATTACHMENT I SECTION I (Cont'd)

#### INITIAL CONTACT

#### INITIALS

Institute of Nuclear Power Operations 5.

(Do not notify if this is a reclassification notification).

a. Telephone :

b. MESSAGE:

> This is at the Three Mile Island Nuclear (name/title)

Station Unit 2 calling. We have declared a General Emergency at (time) hours. Give a brief description of the emergency.

#### 6. Pennsylvania State Police

MESSAGE:

This is (name/title) \_ at the Three Mile Island Nuclear

Station Unit 2 calling. We have declared a General Emergency

hours. We have/have not had a radioactive release. We at (time)

require immediate traffic control assistance in the vicinity of the (North/South) gate.

7. Radiation Management Corporation

Emergencies: (0800-1700)

(1700 - 0800)

Office: (0800 - 1700)

13.0

1054.4 Revision 2

#### ATTACHMENT I SECTION I (Cont'd)

#### INITIAL CONTACT

INITIALS

MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear (name/title)

Station Unit II calling. We declared a General Emergency at

(time)

.

hours. Give a brief description of the emergency.

We had a radioactive release. We (have/have not) (do/do not)

require assistance at this time. Describe the assistance required if any.

 American Nuclear Insurers MESSAGE:

> This is \_\_\_\_\_\_\_ at the Three Mile Island Nuclear Station Unit 2 calling. We have declared a General Emergency at \_\_\_\_\_\_ hours. Give a brief description of the emergency. We \_\_\_\_\_\_\_ (have/have not) had a radioactive release.

1054.4 Revision 2

### ATTACHMENT I SECTION I (Cont'd)

#### INITIAL CONTACT

#### INITIALS

9. Eabcock and Wilcox

MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear (name/title)

Station Unit 2 calling. We have declared a General Emergency

at \_\_\_\_\_ hours. Have a prepared Emergency Status Report

(Attachment II) available for reference while giving a brief description of the emergency).

- 10. If medical assistance is required, notify the following agency:
  - a. Hershey Medical Center

Notification to be performed in accordance with procedure 1054.16.

- 11. <u>Nuclear Regulatory Commission (NRC)</u> Bethesda, MD (Communications with NRC will be continuously maintained following contact.)
  - a. <u>Telephone</u>: NRC Emergency Notification System (ENS) (RED PHONE) (If ENS phone does not work refer to EPIP 1054.6 "Additional Assistance and Notification", for alternate methods.

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### ATTACHMENT I SECTION I (Cont'd)

### INITIAL CONTACT

#### INITIALS

b. MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear (name/title) Station Unit 2 calling. We have declared a General Emergency at \_\_\_\_\_\_ hours. (Based on Emergency Director judgement, (time)

issue one of the following statements):

- We have not had a radioactive release, however, we have the potential for Significant radioactive release.
   OR
- 2) We have had a radioactive release and offsite radiation levels are expected to be >100 mRem/hour (gamma). We will be keeping the Bureau of Radiation Protection informed.
- c. Give a short non-technical description of the emergency and the extent of the radioactive release, and the potentially affected populations and areas.

NOTE: After initial NRC notification is complete per Attachment I, Section 1 above, refer to the NRC Notification Checklist, Attachment 111. This checklist contains information desired by the NRC and may be helpful in providing follow-up information.

16.0

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### ATTACHMENT I

### SECTION II

	: TI		ESCAL	NOTIFICATION ATION	1	::			ME OF ATION OR CLO	SE OUT
AGE NC Y	EVENT	: ALE	RT :	SITE	GENERAL EMERGENC		EVENT :	ALERT :	SITE	: GENERAL : EMERGENC
Dauphin County						::	:			:
PEMA		:	:			::	:			:
Unit 2 Control Room		:				::	:			
INPO		:				::	:			
NRC		:				::	:			:
Hershey Medical Center	*	: *		*	*	::	:			
State Police	*	: *		*	*	::	:			
RMC	*	: *	:	*	*	::	:			
ANI	*	: *				:: ::	:			:
B and W	N/A	: : N/A	:		:	::	:	:		:
5 Affected Counties	N/A	: : N/A	:			::				:

\*Optional

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### ATTACHMENT I SECTION III SECONDARY CONTACT

#### INITIALS

The Communicator shall notify the following agencies and personnel and update the Attachment I, Section II checklist after each notification.

1. Bureau of Radiation Protection

- a. Telephone: Radiological Line
- b. MESSAGE:
  - This is \_\_\_\_\_\_ at the Three Mile Island Nuclear Station

Unit 2 calling. We have closed out the General Emergency

at \_\_\_\_\_ hours and initiated recovery operations. Please

notify PEMA, Dauphin, Lancaster, York, Lebanon and Cumberland counties.

#### Unaffected Control Room

- a. Telephone:
- b. Message:

Notify Shift Supervisor of close out of the General Emergency.

Nuclear Regulatory Commission Office- Bethesda, Md.

 Telephone: Emergency Notification System (ENS) (RED PHONE)

b. MESSAGE:

This is \_\_\_\_\_\_ at the Three Mile Island Nuclear Station (name/title)

Unit 2 calling. We have closed-out the General Emergency

at \_\_\_\_\_ hours and initiated recovery operations.

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### ATTACHMENT I SECTION III (Cont'd)

### SECONDARY CONTACT

### INITIALS

- If applicable, notify the following persons and/or agencies of the close-out of the General Emergency:
  - a. Hershey Medical Center:
  - b. Pennsylvania State Police:
  - c. Radiation Management Corporation (RMC)

Emergencies: (0800-1700)

(1700 - 0800)

Office: (0800-1700)

- d. American Nuclear Insurers:
- e. Babcock and Wilcox:
- f. Others: As directed by the Emergency Director

DATE

TIME COMPLETED

COMPLETED BY

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#### ATTACHMENT I SECTION IV

#### PROTECTIVE ACTION RECOMMENDATION GUIDELINES

THESE RECOMMENDATIONS MAY BE DELIVERED ONLY BY

#### THE EMERGENCY DIRECTOR

1. Consideration shall be given to sheltering if:

a. Release time is expected to be short (Puff release, <2 hours)

(AND)

- b. Evacuation could not be well underway prior to expected plume arrival due to short warning time, high wind speeds, and/or foul weather.
- 2. Consideration shall be given to evacuation if:
  - a. A release is expected to occur with projected doses approaching or exceeding:
    - 1 Rem Whole Body and/or
    - 5 Rem Child Thyroid

(AND)

Release time is expected to be long (>2 hours)

(AND)

c. Evacuation can be well underway prior to plume arrival for above release, based upon wind speed and travel conditions.

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### ATTACHMENT II SECTION I

### EMERGENCY STATUS REPORT

1.	CLASSIFICATION OF EMERGENCY	
2.	WHAT IS THE STATUS OF THE PLANT?:	
	A. REACTOR PRESSURE	
	B. REACTOR TEMPERATURE	
	C. METHOD OF PRESSURE CONTROL	
	D. METHOD OF TEMPERATURE CONTROL	
3.	WHAT ARE THE ENVIRONMENTAL CONDITIONS:	
	A. WIND SPEED	
	B. WIND DIRECTION	
4.	IS OFFSITE POWER AVAILABLE	YES/NO
5.	ARE BOTH DIESEL GENERATORS OPERABLE	YES/NO
6.	HAVE ANY PERSONNEL INJURIES OCCURRED	YES/NO
	IS ANY INJURED PERSON(S) CONTAMINATED	YES/NO
	IF SO, INDICATE APPROXIMATE RADIATION AND/OR	CONTAMINATION LEVELS
	BELOW:	
	MR/HR.	DPM/100CM <sup>2</sup>
7.	HAVE ALL OFFSITE NOTIFICATIONS BEEN MADE	YES/NO
	IF NOT, WHO HAS NOT BEEN NOTIFIED AND WHY	

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2. . .

### ATTACHMENT II SECTION I (Cont'd)

### EMERGENCY STATUS REPORT

8. IS THE EMERGENCY EXPECTED TO RESULT IN DETECTABLE CHANGES IN OFFSITE RADIATION LEVELS? YES/NO IF YES--WHAT RECOMMENDATIONS HAVE BEEN MADE TO PEMA BY THE EMERGENCY

DIRECTOR

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#### ATTACHMENT II SECTION II

### EMERGENCY STATUS REPORT

Fill out if a release has (is) occurring. Provide BRP all available information for verification call.

- What is the approximate radioactive source term discharge rate from the 1. plant (As determined by the Projected Dose Rate Calculation procedure 1054.7).
  - a) Noble gases \_\_\_\_\_ Ci/sec
  - b) Iodine \_\_\_\_\_ Ci/sec
- 2. What is the approximate meteorology
  - a) Wind speed mph
  - b) Wind direction
  - c) Stability class Stable/Neutral/Unstable

3. What is the projected whole body dose rate and the iodine concentration

at the nearest offsite downwind point

- a) mR/hr
- b) \_\_\_\_\_uCi/cc Iodine
- c) (Location)
- Estimated duration of the release 4.
  - a) If the release is terminated: Start time \_\_\_\_\_ Duration
  - b) If the release is still in progress:

Start time

Estimated duration (hrs/min/sec)

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### ATTACHMENT II SECTION II (Cont'd)

### EMERGENCY STATUS REPORT

5. a) Based on projected dose rates, icdine concentration and duration or estimated duration (if still in progress) of the release, will the lower limits of EPA Protective Action Guides be exceeded (i.e., 1 Rem whole body, 5 Rem Child Thyroid) Yes / No

b) If yes, estimate time to exceeding PAG: \_\_\_\_\_ hours

Date

Time Completed

Completed By

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### ATTACHMENT III

### CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

MADE IN ACCORDANCE WITH 10 CFR 50.72
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Iden		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		and a second stand of the second second
				of Person Making Report
Lice	nsee			Facility Affected
App1	icable Pa	art of 10	CFR 50.72	2
Desc	ription:			•
Date	of Even	t		Time
Desc	ription (	of What Ha	ppened	
Cons	equences	of Event:	(Comple	ete depending on type of event)
Inju	ries			Fatalities
Cont	aminatio	n (personn	el)	(property)
Over	exposures	s (known/p	ossible)_	
	ty Hazaro	d (describ	e - actua	l/potential)
Safe	ty Hazaro	d (describ	e - actua	
Safe Offs	ty Hazard	d (describ ation Leve	e - actua ls	l/potential)
Safe Offs Inte	ty Hazard ite Radia grated Do	d (describ ation Leve ose	e - actua ls	ul/potential)
Safe Offs Inte Mete	ty Hazard ite Radia grated Do orology (	d (describ ation Leve ose (wind spee	e - actua 1 s d)	Location
Safe Offs Inte Mete Weat	ty Hazard ite Radia grated Do orology her Cond	d (describ ation Leve ose (wind spee itions (ra	e - actua ls d) in, clear	Location From (direction)
Safe Offs Inte Mete Weat Equi	ty Hazard ite Radia grated Do orology ( her Cond pment/Pro	d (describ ation Leve ose (wind spee itions (ra operty Dama	e - actua ls d) in, clear age	Location From (direction) , overcast, temperature)
Safe Offs Inte Mete Weat Equi	ty Hazard ite Radia grated Do orology ( her Cond pment/Pro	d (describ ation Leve ose (wind spee itions (ra operty Dama	e - actua ls d) in, clear age	Location From (direction)

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ATTACHMEN	TIII (	(Cont'd)

#### CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

MADE IN ACCORDANCE WITH 10 CFR 50.72

P1 anned	
Emergency Plan Activated (Yes/No)	
Resident Inspector Notified (Yes/No)	State Notified (Yes/No)
Press Release Planned (Yes/No)	News Media Interest (Yes/No)_
	Local/National
Current Status: (Complete depending	g on type of event)
1. Reactor Systems Status	
Power Level Before Event	After Event
PressureTemp.	(t <sub>hot</sub> )(t <sub>cold</sub> )
	Pumps On (Yes/No)
Heat Sink: Condenser	Steam Atm. Dump
	en (Yes/No)Activity Level
ECCS Operating (Yes/No)	ECCS Operable (Yes/No)
ESF Actuation (Yes/No)	
	Possible Fuel Damage (Yes/No)
PLK OF KA LEVET	i o solo i a ci o anage (i co) io j

1 See Emergency Action Levels, Appendix 1, NUREG-0654, Revision 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.

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### ATTACHMENT III (Cont'd)

### CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

### MADE IN ACCORDANCE WITH 10 CFR 50.72

#### F. 1. (Cont'd)

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Containment Water Level Indication

Iormal Offsite Power Available	(Yes/No)
)/G Running (Yes/No)	Loaded (Yes/No)
Radioactivity Release	
iquid/Gas	Location/Source
Release Rate	Duration
topped (Yes/No)	Release Monitored (Yes/No)
mount of Release	Tech. Spec. Limits
Radiation Levels in Plant	Areas Evacuated
Security/Safeguards 2	
Somb Threat: Search Conducted	(Yes/No) Search Results
ite Evacuated (Yes/No)	
ntrusion: Insider	Outsider
Point of Intrusion	Extent of Intrusion
Apparent Purpose	

2 See 10 CFR 73.71(c), effective April 6, 1981.

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### ATTACHMENT III (Cont'd)

#### CHECKLIST FOR NOTIFICATION OF SIGNIFICANT EVENTS

#### MADE IN ACCORDANCE WITH 10 CFR 50.72

### F. 3. (Cont'd)

Sabotage: Radiological (Yes/No) Arson (Yes/No)

Equipment/Property

Extortion: Source (phone, letter, etc.)

Location of Letter

Demands

General: Firearms involved (Yes/No) Violence (Yes/No)

Control of Facility Compromised or Threatened (Yes/No)

Stolen/Missing Material

Agencies Notified (FBI, State Police, Local Police, etc.)

Media Interest (present, anticipated)

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