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LOGISTICAL SUPPORT TRANG Bldg

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03/19/01dsm

# FOR INFORMATION ONLY

# AmerGen

TMI - Unit 1  
Emergency Plan  
Implementing Document

Number

**EPIP-TMI-.27**

Title

Revision No.

**Emergency Operations Facility**

**19**

Applicability/Scope

**USAGE LEVEL**

Effective Date

TMI Division

**1**

**04/16/01**

This document is within QA plan scope  
50.59 Applicable

<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

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	Signature	Date
Procedure Owner	/s/ S. R. Finicle	04/12/01
Approver	/s/ N. Brown	04/12/01

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#### 1.0 **PURPOSE**

Provide guidelines for activation and operation of the Emergency Operations Facility (EOF).

#### 2.0 **APPLICABILITY/SCOPE**

This procedure shall apply to all TMI personnel assigned to the EOF during a Site Area Emergency, General Emergency or when EOF activation is required by the Emergency Director.

#### 3.0 **DEFINITIONS**

None

#### 4.0 **RESPONSIBILITIES**

- a. Emergency Support Director - Exhibit 1, 2, 3, 4, 5, 8 and 14
- b. EOF Communications Coordinator - Exhibit 23 and 24
- c. Technical Support Representative - Exhibit 15 and 15A
- d. Group Leader R & EC - Exhibit 17
- e. Group Leader Adm. Support - Exhibit 6, 7, 7A, 20, 21 and 22
- f. Public Information Rep. - Exhibit 12, 13 and 14
- g. Environmental Assessment Coord. - Exhibit 18
  - Met/Dose Coordinator - Exhibit 18A and 18B
- h. Emergency Support Director Asst. - Exhibit 10
- i. Emergency Preparedness Rep. - Exhibit 9 and 9A

#### 5.0 **PROCEDURE**

- a. Personnel shall perform actions as specified in the appropriate exhibits as applicable for the level and severity of the emergency.
- b. Personnel shall respond to specific requests from the Emergency Response Organization management (e.g., ESD, Group Leaders, Coordinators)

#### 6.0 **REFERENCES**

- a. TMI Emergency Plan (AP 1092)
- b. TMI Emergency Plan Implementing Documents

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**7.0 EXHIBITS**

- 7.1 Exhibit 1, Emergency Support Director Checklist
- 7.2 Exhibit 2, Emergency Report Form – TMI
- 7.3 Exhibit 3, EAL descriptions for the Emergency Report Form
- 7.4 Exhibit 4, Emergency Director/Emergency Support Director Turnover Checklist
- 7.5 Exhibit 5, Emergency Support Director Emergency Briefing Sheet
- 7.6 Exhibit 6, EOF Access Control
- 7.7 Exhibit 7, TMI Access Authorization Checklist
  - 7.7.1 Exhibit 7A, TMI Access Authorization
- 7.8 Exhibit 8, PAR Logic Diagram
- 7.9 Exhibit 9, Emergency Preparedness Representative Checklist
  - 7.9.1 Exhibit 9A, Fitness For Duty instructions
- 7.10 Exhibit 10, Emergency Support Director Assistant Checklist
- 7.11 Exhibit 11, ESD Logkeeper Checklist
- 7.12 Exhibit 12, Public Information Representative - EOF Checklist
- 7.13 Exhibit 13, Press Release Guidance
- 7.14 Exhibit 14, Site Access For Media
- 7.15 Exhibit 15, Tech Support Representative Checklist
  - 7.15.1 Exhibit 15A, Plant Process Computer Access Instructions
- 7.16 Exhibit 16, TMI / NRC Emergency Response Interface Criteria
- 7.17 Exhibit 17, Group Leader Radiological & Environmental Controls Checklist
- 7.18 Exhibit 18, Environmental Assessment Coordinator Checklist
  - 7.18.1 Exhibit 18A, Met/Dose Coordinator Checklist
  - 7.18.2 Exhibit 18B, Field Team Data Collection
- 7.19 Exhibit 19, RAC Line Communicator Checklist
- 7.20 Exhibit 20, Group Leader Admin Support Checklist

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- 7.21 Exhibit 21, Emergency Shift Schedule (Watch Bill)
- 7.22 Exhibit 22, EOF Setup for Monitoring and Decontamination
- 7.23 Exhibit 23, EOF Communications Coordinator Checklist
- 7.24 Exhibit 24, Offsite Notifications Checklist

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### ESD Checklist

#### I. EOF ACTIVATION

##### NOTE

The ESD Assistant MAY assist in the completion of this checklist and Exhibit 4.

##### NOTE

The following steps are presented in the sequence that is most likely to result in efficient activation of the EOF. Steps may be performed out of sequence as the situation requires. Steps that are not applicable for the present situation may be skipped but should be reconsidered as the situation changes.

#### Initial

#### 1.0 Activate the EOF

##### NOTE

The facility is considered activated when all portions of Step 1 are completed.

#### a. Obtain a turnover from the Emergency Director (ED)

- Use the Emergency Director's Line, or alternate means
- Complete Exhibit 4 to document the turnover.

#### b. Use the EOF intercom to brief personnel on plant conditions using Exhibit 5.

- Include NRC and State representative(s), if available.
- Include State Representative(s), if available.

#### c. Verify from the EP Rep. that the EOF response positions have been manned within one hour of notification.

#### d. After the above steps have been completed, assume ESD responsibilities by performing the following:

- Inform the Emergency Director (ED) that you have assumed the position of ESD and will take over responsibility for the following:
  - a. Approving and directing information releases to the media.

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- b. Approving and, if possible, personally conveying appropriate Protective Action Recommendations to the Senior Official in the State EOC (Emergency Operations Center).
- c. Brief the NRC Site Team Leader and serve as the official point of contact for TMI for receiving NRC directives. This includes interfacing with the NRC regarding deviations from license conditions or technical specifications (10 CFR 50.54).

## **NOTE**

The ED will advise the ESD when such deviations are being planned and the technical organization will be used to the fullest extent possible.

- If the ED decides to transfer responsibility for "Approving and directing official notifications to offsite agencies", perform the following
  - a. Log the decision in the ESD log
  - b. Direct the EOF Communications Coordinator to obtain a turnover from the communicator making notifications in the ECC.
- Announce on the intercom that the EOF is operational



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### II. EOF OPERATION

#### NOTE

The following steps are not presented in the exact sequence that they are to be performed. It is likely that some steps may be performed out of the sequence listed and that some steps will be performed concurrently. Steps that are not applicable for the present situation may be skipped. Other steps may need to be repeated. This exhibit should be referred to periodically to ensure that necessary actions are not missed.

- \_\_\_\_\_ a. Personally, if possible, inform the Nuclear Duty Officer. (Refer to EPIP-TMI-.06 for phone numbers.)
  - Status of the EOF
  - Status of the Emergency
- \_\_\_\_\_ b. The ESD is responsible for authorizing personnel to work in site facilities (EOF, EACC, JIC) during an emergency if they are not Fit for Duty (FFD).
  - Fitness for Duty criteria are stated in Exhibit 9A.
- c. **ESD Conferences**
  - ESD conferences are periodically (Typically once per hour or as conditions change) held for information exchange
    - a. The ESD Assistant is in charge of EOF activities during the ESD conference.
    - b. The ESD Assistant will interrupt the conference if a major plant change occurs.
  - ESD conference attendance should include the following:
    - a. State Representatives
      - BRP
      - PEMA
    - b. NRC
      - Site Team Leader
      - Director Site Operations
    - c. Group Leader R & EC

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- d. Technical Support Representative
- e. Public Information Representative - EOF
- f. Group Leader Admin Support
- g. Emergency Preparedness Representative
- Suggested structure for the first conference
  - a. Get information from the lead personnel
    - Obtain input from State Representative(s)
    - Obtain input from NRC
  - b. Summarize the status
  - c. Discuss the prognosis of where the plant is heading
  - d. Discuss mitigating activities underway, planned or needed
  - e. Discuss what can go wrong and the consequences
  - f. Potential PAR if General Emergency is declared.
  - g. This conference constitutes the briefing of the State Representative
- Conference Action Items
  - a. Action Items shall be logged
  - b. Action Items shall be tracked
  - c. Action items are to be discussed at subsequent conferences until they are resolved.

## **EOF Briefings**

- a. EOF briefings are accomplished using the EOF intercom.
  - Use Exhibit 5 to enhance briefing

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**ESD Press Release**

- a. Press Releases SHOULD be issued within one (1) hour from the time a plant event has occurred; therefore a TIMELY review is required.
  - The ESD must approve Press Releases that are not boilerplate
    - a. The Press Release Guidance (Exhibit 13) should be followed.
    - b. The Group Leader R & EC SHALL review and concur with the Press Release, before ESD approval.
    - c. The Technical Support Representative SHALL review and concur with the Press Release, before ESD approval.
    - d. The Security Coordinator SHALL review and concur with any Press Release containing SAFEGURADS INFORMATION, before ESD approval.

**NOTE**

1. Information Releases (e.g., Media Advisories, Emergency Reclassifications) which merely provide standard non-technical information need not have ED/ESD approval
2. DO NOT include the PAR in a Press Release.

- b. If MEDIA access to the site is required, refer to Exhibit 14, "Site Access Policy for Media during Emergencies."

**Onsite Protective Actions**

- a. Determine the status of site accountability from the Group Leader Admin Support
  - Emergency Director (ED) can supply this information if the Group Leader Admin position is not staffed.
- b. Determine if site evacuation has been ordered.
  - Ensure provisions are made for providing site employees with instructions for reporting to work for the next business day.

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c. If any, of the TMI Emergency Response Facilities are downwind of a radioactive release.

- Provide for their monitoring and protection
- Evacuation orders, for the general public, do not apply to the RAA. This facility would be relocated, if needed, based on advice from the Group Leader R&EC.

## Changes to Emergency Classifications

a. Review EPIP-TMI-.01 to determine when a change in emergency classification is warranted.

- Discuss the change in Emergency Classification with the Emergency Director.

b. If the "Approving and directing off-site notification to off-site agencies" responsibility has been transferred to the ESD, then proceed with this section, if NOT, go to step 7.0

### NOTE

The ESD may overrule the ED and direct that the ED declare a higher level of emergency.

- Immediately complete an Emergency Report Form.

### NOTE

- a. The form may be completed by an ESD Assistant or EP Rep.
- b. Notifications **SHOULD** be started within 5 minutes of an event declaration (i.e., General Emergency) and **SHALL** be made within 15 minutes of the declaration.

a. Complete page 1 and 2 of the Emergency Report Form-TMI

(Refer to Exhibit 2, for a sample of the form).

b. Use Exhibit 3 for the EAL and Event description

- The Event description must contain the following information from Exhibit 3.

a. EAL number

b. EAL title

c. Additionally, include information about the plant status (e.g., Power Operations, Hot Shutdown, etc.).

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- Approve the Emergency Notification
- Direct the EOF Communications Coordinator to initiate off-site agency notification using the completed Page 1 of the Emergency Report Form-TMI.
- Inform the Emergency Director to make the appropriate plant page announcement.
- Inform the State Representative(s)
  - a. Level of Emergency Declared
  - b. Basis for the declaration

#### Offsite Protective Action Recommendations (PAR)

##### a. At the **SITE AREA EMERGENCY**

- Convene an ESD conference
  - a. Refer to step 2.3 of this exhibit
- Determine what could lead to a General Emergency by reviewing the EALs in EPIP-TMI-.01
- Review the PAR Logic Diagram (Exhibit 8) and determine the most likely PAR, in preparation for a **GENERAL EMERGENCY** declaration
- Discuss the PAR with the following:
  - a. PEMA representative at the EOF
  - b. BRP representative at the EOF
  - c. NRC representative at the EOF
  - d. Emergency Director

##### b. At the **GENERAL EMERGENCY**

- If you have assumed the "Approving and directing official notifications to off-site agencies" then complete Step 6.0.

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- Immediately convene an ESD conference to agree upon a PAR
  - a. If a likely PAR was developed earlier, quickly verify that it is still appropriate
  - b. If a likely PAR was NOT developed earlier, determine the PAR from Exhibit 8
  - c. Present the developed PAR to the following:
    - PEMA representative at the EOF
    - BRP representative at the EOF  
(This fulfils the obligation to notify the BRP)
    - NRC representative at the EOF

## NOTE

ESD SHALL communicate the PAR developed by the TMI emergency organization whether or not PEMA, BRP or NRC representatives at the EOF agree with the developed PAR.

## NOTE

To the maximum extent possible, obtain agreement from the State and NRC on the PAR Whether or not the State and NRC agree SHALL NOT impact communication of the PAR recommendation.

- Personally provide TMI's PAR to the SENIOR OFFICAL at the STATE EOC (Emergency Operations Center) within 15 minutes of the General Emergency declaration by one of the following methods:

## NOTE

Verify that you are speaking to the SENIOR OFFICAL at the State EOC when providing the PAR.

- a. Pennsylvania Governor (717) 651-2148
- b. State EOC (717) 651-2011
- c. PEMA Notification Line (DLM-6), PEMA, Dial 37

## NOTE

If the ESD cannot make the call personally, he may designate someone else to convey the PAR.

- Briefly inform the ED of the PAR decision, do not delay the PAR notification process.
- Inform the ED of the Protective Actions implemented by the State.

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**NRC Interface**

- a. Review Exhibit 16, "TMI / NRC Emergency Response Interface".

- Ask the Senior NRC person who is the Site Team Leader and who is the Director Site Operations.

**NOTE**

ONLY the Director Site Operations is empowered to issue directives.

- Verify that the EP Representative has briefed the NRC on the following:
  - a. Status of the event
  - b. Structure of the TMI organization
  - c. Any NRC directives are to be in writing to the ESD or in the absence of the ESD the ED.
- Verify that the EP Representative has introduced TMI personnel to their NRC counterparts in the EOF.

**Long-Term Recovery**

- a. Discuss implementation of EPIP-TMI-.45, Classified Emergency Termination/Recovery

- At an ESD conference
- With the ED

**NOTE**

If a GENERAL EMERGENCY is in effect, DO NOT de-escalate to a lower level of emergency. The only option is to go into Long-Term Recovery and this transition SHALL NOT occur until ALL Offsite protective measures have been completed and the State has been notified.

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**Close Out / Deactivation**

a. Upon any of the following conditions:

- Emergency Close Out
- Deactivation of the EOF
- Deactivation of the EACC

i. An inventory of the EOF is required to be performed by the end of the working day following the end of the event. The inventory is the responsibility of the Emergency Preparedness Manager, TMI. Notify the Emergency Preparedness Manager of the need to perform the inventory in accordance with TEP-ADM-1300.01, Maintaining Emergency Preparedness.

ii. An inventory of the EACC is required to be performed by the end of the working day following the end of the event. The inventory is the responsibility of the Environmental Radioactivity Laboratory Manager. Notify the Environmental Radioactivity Laboratory Manager of the need to perform the inventory in accordance with TEP-ADM-1300.01, Maintaining Emergency Preparedness.

NAME \_\_\_\_\_ TIME \_\_\_\_\_ hours DATE \_\_\_\_\_  
Emergency Support Director



<b>AmerGen</b> <small>APECO Energy/Bethlehem Energy Company</small>	<b>EMERGENCY REPORT FORM - TMI</b> <small>(Press Firmly and Write Clearly)</small>	Part 1 of 4 <b>Call Out/Notification</b>
<b>CALL OUT</b>		
(Select one) <input type="checkbox"/> <b>LEVEL 1</b> Onshift (Required for Unusual Event) <input type="checkbox"/> <b>LEVEL 2</b> Initial Response Emergency Organization & Onshift (Required for Alert) <input type="checkbox"/> <b>LEVEL 3</b> Emergency Support Organization & Initial Response Emergency Organization & Onshift (Required for SAE & GE)		
Start Here for Notifications Read message - slowly - clearly.		
(Select) <input type="checkbox"/> This is a drill. This is a drill. <span style="margin-left: 100px;"><input type="checkbox"/> This is <b>NOT</b> a drill. This is <b>NOT</b> a drill.</span>		
Completed by Communicator This is _____ at TMI, my phone number is (Select) 944 _____ <div style="display: flex; justify-content: space-between; font-size: small;"> <span>Name</span> <span>948</span> <span>Extension</span> </div>		
<b>EMERGENCY CLASSIFICATION</b>		
(Select One) <input type="checkbox"/> An Unusual Event has been declared <span style="margin-left: 100px;"><input type="checkbox"/> A Site Area Emergency has been declared</span> <input type="checkbox"/> An Alert has been declared <span style="margin-left: 100px;"><input type="checkbox"/> A General Emergency has been declared</span> <div style="text-align: center; margin-top: 5px;"> <input type="checkbox"/> The event has been terminated         </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>at _____ hours on _____</span> <span>Emergency Classification Time (24 hour clock)      Emergency Classification Date</span> </div>		
(Select) This represents: <input type="checkbox"/> An initial Classification Status <span style="margin-left: 100px;"><input type="checkbox"/> An escalation in Classification Status</span> <input type="checkbox"/> No change in Classification Status <span style="margin-left: 100px;"><input type="checkbox"/> A reduction in Classification Status</span>		
<b>EVENT DESCRIPTION</b>		
(Enter EAL number, EAL title and plant status)		
There is: <input type="checkbox"/> No abnormal radioactive <input type="checkbox"/> An abnormal radioactive airborne <input type="checkbox"/> An abnormal radioactive liquid release to the environment as a result of this emergency.		
<b>MUSTER/EVACUATION</b>		
ONLY if the initial event classification is a <b>GENERAL EMERGENCY</b> then TRANSMIT the Protective Action Recommendation (PAR) to the risk counties <b>PROTECTIVE ACTION RECOMMENDATION</b>		
(Select One) <input type="checkbox"/> EVACUATE the 5 mile radius around the plant and SHELTER the 5 to 10 mile radius around the plant <input type="checkbox"/> SHELTER the 10 mile radius around the plant (Use SHELTER ONLY option when it is clear that EVACUATION is NOT appropriate)		
<b>METEOROLOGICAL CONDITIONS</b>		
Wind direction is from _____ and the wind speed is _____ miles per hour.		
(Select) <input type="checkbox"/> This is a drill. This is a drill. <span style="margin-left: 100px;"><input type="checkbox"/> This is <b>NOT</b> a drill. This is <b>NOT</b> a drill.</span>		
Approved - ED/ESD _____		



## EXHIBIT 2

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<b>AmerGen</b> <small>A PECO Energy/British Energy Company</small>	<b>EMERGENCY REPORT FORM - TMI</b>	Part 2 of 4 <b>Contact</b>
<b>CALL OUT</b>		
(Info only) <input type="checkbox"/> <b>LEVEL 1</b> Onshift <input type="checkbox"/> <b>LEVEL 2</b> Initial Response Emergency Organization & Onshift <input type="checkbox"/> <b>LEVEL 3</b> Emergency Support Organization & Initial Response Emergency Organization & Onshift		
Start Here for Contact Read Message - slowly - clearly.		
<input type="checkbox"/> This is a drill. This is a drill. <span style="margin-left: 100px;"><input type="checkbox"/> This is <b>NOT</b> a drill. This is <b>NOT</b> a drill.</span>		
<b>EMERGENCY CLASSIFICATION</b>		
<input type="checkbox"/> An Unusual Event has been declared <input type="checkbox"/> An Alert has been declared <input type="checkbox"/> The event has been terminated		
<input type="checkbox"/> A Site Area Emergency has been declared <input type="checkbox"/> A General Emergency has been declared		
at _____ hours on _____ <i>Emergency Classification Time</i> <span style="margin-left: 100px;"><i>Emergency Classification Date</i></span>		
This represents: <input type="checkbox"/> An initial Classification Status <input type="checkbox"/> No change in Classification Status		
<input type="checkbox"/> An escalation in Classification Status <input type="checkbox"/> A reduction in Classification Status		
<b>EVENT DESCRIPTION</b>		
There is: <input type="checkbox"/> No abnormal radioactive <input type="checkbox"/> An abnormal radioactive airborne <input type="checkbox"/> An abnormal radioactive liquid release to the environment as a result of this emergency.		
<input type="checkbox"/> This is a drill. This is a drill. <span style="margin-left: 100px;"><input type="checkbox"/> This is <b>NOT</b> a drill. This is <b>NOT</b> a drill.</span>		
Approved - ED/ESD		



Distribution: Green - Call Out/Notification; Yellow - Contact; White - ED copy; Pink - Plant Page

AG0139 (12-89)

EXHIBIT 3

EAL	BRIEF TITLE	EVENT DESCRIPTION
U1.1	<b>Radiological Effluent Limits Are Being Exceeded</b>	<i>An Unusual event is declared because an abnormal release of radiation from the power plant has or will exceed 60 minutes and could lead to very low level radiation dose rates at or beyond the outer boundary of the plant site.</i>
U1.2	<b>Unexpected Radiation Readings Inside the Power Plant</b>	<i>An Unusual Event is declared because of abnormally high radiation levels measured inside the power plant that indicates a degradation in the control of radioactive material. No abnormal releases to the environment are occurring.</i>
U1.3	<b>Liquid Radioactive Release That Exceeds Limits</b>	<i>An Unusual Event is declared because a release of radioactive liquid that exceeds the limits of government regulations has lasted for 60 minutes or more. This event indicates a degradation in the ability to control the release of radioactive materials to the river.</i>
U1.4	<b>Low Spent Fuel Pool Level</b>	<i>An Unusual Event is declared because of the uncontrolled leakage of water from the Spent Fuel Pool. The leakage exceeds or is expected to exceed the ability to refill the pool. No abnormal releases of radioactivity to the environment are occurring.</i>
U1.5	<b>Low Fuel Transfer Canal Level</b>	<i>An Unusual Event is declared because of the uncontrolled leakage of water from the Fuel Transfer Canal. The leakage exceeds or is expected to exceed the ability to refill the canal. No abnormal releases of radioactivity to the environment are occurring.</i>
U1.6	<b>Fuel Clad Damage With Increased Radiation</b>	<i>An Unusual Event is declared because of indications that there has been damage to the metal tubes that hold the nuclear fuel pellets. Increased radiation has been detected in the water that flows through the nuclear reactor. No abnormal releases of radioactivity to the environment are occurring.</i>
U2.1	<b>Potential Loss or Loss of Containment</b>	<i>An Unusual Event is declared because of the: Potential Loss of Containment as a Fission Product Barrier. - OR - Loss of Containment as a Fission Product Barrier.</i>
U2.2	<b>Reactor Coolant System or Steam Generator Leakage</b>	<i>An Unusual Event is declared because of: an unidentified leak (location unknown) greater than or equal to 10 gallons a minute from the Reactor Coolant System. - OR - an unidentified leak (location unknown) greater than or equal to 10 gallons a minute from the Steam Generator tubes. - OR - an identified leak (location known) greater than or equal to 25 gallons a minute from the Reactor Coolant System.</i>
U3.1	<b>A Risk of Station Blackout Exists - Backup Power Is Available.</b>	<i>An Unusual Event is declared because of the loss of all normal electrical power sources for to the power plant for more than fifteen minutes. Emergency backup power is available.</i>
U3.3	<b>Loss of "A" or "B" Plant DC Electricity For More than 15 Minutes during Cold Shutdown or Refueling Shutdown.</b>	<i>An Unusual Event is declared because of the loss of ALL of the DC (Direct Current) electrical power supply for more than fifteen minutes.</i>

Enter the EAL number AND the Brief Title (This is the bold information) in the Event Description area of the EMERGENCY REPORT FORM - TMI.

EXHIBIT 3

EAL	BRIEF TITLE	EVENT DESCRIPTION
U4.1	<b>Unplanned Loss of Control Room Safety Indicators</b>	<i>An Unusual Event is declared because of the unplanned loss of the majority of the control room's Safety Related Equipment alarms - or - indications. Although other non-alarming indications are available to the Control Room Operators, this situation requires increased surveillance of the safety related equipment and there is the risk that a degraded plant condition could go undetected.</i>
U4.1.1	<b>Unplanned Loss of Onsite or Offsite Communications.</b>	<i>An Unusual Event is declared because of the unplanned loss of all onsite communications capabilities. - OR - all offsite communications capabilities.</i>
U4.2	<b>Failure to Complete a Plant Shutdown or Cooldown Within the Required Time Limit.</b>	<i>An Unusual Event is declared because the required time limit to perform a plant shutdown - OR - a plant cooldown was exceeded. The Technical Specifications are the power plant's operational guidelines. A Limiting Condition for Operation (LCO) sets a specific time limit that allows continued plant operation while actions are being taken to correct the problem. If the problem cannot be corrected and the plant cannot be shut down or cooled down within the time limit, an Unusual Event must be declared.</i>
U5.1	<b>High River Water Level.</b>	<i>An Unusual Event is declared because flood waters are within a few feet of the top of the stone dike that surrounds the power plant. Water is NOT flooding onto the plant site.</i>
U5.2	<b>High Wind Speeds Near Hurricane Force</b>	<i>An Unusual Event is declared because of Sustained Winds greater than 70 mph recorded at TMI. These winds have the potential to damage Plant Equipment.</i>
U5.3	<b>Tornado Strikes Protected Area.</b>	<i>An Unusual Event is declared because of a report that a tornado touched down inside the Protected Area of the power plant. There is the potential for damage to structures and equipment inside the Protected Area.</i>
U5.4	<b>Earthquake At Threshold Levels.</b>	<i>An Unusual Event is declared because of a minor earthquake detected at the power plant. An earthquake of this magnitude has the potential to damage some equipment, but it is not expected to affect any safety systems. The occurrence of any detectable earthquake warrants increased monitoring by the operators.</i>
U6.1	<b>Fire In The Protected Area.</b>	<i>An Unusual Event is declared because of a fire in the Protected Area of the power plant that our site Fire Brigade could not bring under control within 15 minutes of when the fire was confirmed. This fire has the potential to involve Safety Related Equipment if it spreads.</i>
U6.3	<b>Flammable / Toxic Gas That May Affect Operation.</b>	<i>An Unusual Event is declared because of the detection of flammable / toxic gas that could enter the power plant site. This gas could affect the safety and health of plant personnel and disrupt normal operation of the power plant.</i>

Enter the EAL number AND the Brief Title (This is the **bold** information) in the Event Description area of the EMERGENCY REPORT FORM - TMI.

## EXHIBIT 3

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U6.4	<b>Unexpected Explosion In The Protected Area.</b>	<i>An Unusual Event is declared because of an unexpected explosion that caused damage inside the Protected Area of the power plant. This explosion was NOT caused by a bomb. The damage could affect the operation of the plant.</i>
U6.5	<b>Steam Turbine Damage.</b>	<i>An Unusual Event is declared because of damage to the steam turbine, including puncturing of the steel casing around the turbine or damage to the generator seals. The hazard of projectiles from the turbine and puncturing of the casing around it decreases the safety level of the plant and could affect the safety and health of plant personnel which affects the operation of the power plant.</i>
U6.6	<b>Vehicle Crash In The Protected Area.</b>	<i>An Unusual Event is declared because of a vehicle (airplane, train, helicopter, etc.) that accidentally crashed inside the Protected Area of the power plant. There is the potential for damage to structures and equipment inside the Protected Area.</i>
U7.1	<b>Confirmed Security Event.</b>	<i>An Unusual Event is declared because of a confirmed security event, which could potentially degrade the safety level of the power plant. (This event involves: A bomb discovered inside the Protected Area The Protected Area includes major plant structures like the turbine and service buildings that are protected by a security fence and to which access is controlled.) - OR - A Hostile Force inside the Owner Controlled Area (The Owner Controlled Area includes the area between the perimeter chain link fence and the Protected Area).</i>
U8.1	<b>Judgment of the Shift Manager / Emergency Director - Potential Degradation of Plant Safety</b>	<i>An Unusual Event is declared by the Shift Manager / Emergency Director. The Shift Manager / Emergency Director has the flexibility to declare an event if conditions exist that indicate a potential decrease in the safety level of the plant. These conditions may not be specifically addressed in an emergency procedure. In this situation, the decision to declare an emergency relies on the judgment of the Shift Manager / Emergency Director.</i>

Enter the EAL number AND the Brief Title (This is the **bold** information) in the Event Description area of the EMERGENCY REPORT FORM - TMI.

EXHIBIT 3

EAL	BRIEF TITLE	EVENT DESCRIPTION
A1.1	Radiological Effluent Limits Are Being Significantly Exceeded.	<i>An Alert is declared because an abnormal release of radiation from the power plant has or will exceed 15 minutes and could lead to low level radiation dose rate at or beyond the outer fence line of the plant site.</i>
A1.2	Unexpected Radiation Readings Inside the Power Plant that Affect the Safe Operation of the Plant.	<i>An Alert is declared because of abnormally high radiation levels measured inside the power plant, which indicate a serious degradation in the control of radioactive material.</i>
A1.3	Liquid Radioactive Release That Significantly Exceeds Limits.	<i>An Alert is declared because a release of radioactive liquid that significantly exceeds the limits of government regulations has lasted for 15 minutes or more.</i>
A1.4	Low Spent Fuel Pool Level With Increased Radiation Levels.	<i>An Alert is declared because of the uncontrolled leakage of water from the Spent Fuel Pool with higher than normal radiation levels in the spent fuel pool area of the plant. This condition indicates a serious degradation in the control of radioactive material.</i>
A1.5	Low Fuel Transfer Canal Level With Increased Radiation Levels.	<i>An Alert is declared because of the uncontrolled leakage of water from the Fuel Transfer Canal with higher than normal radiation levels in the reactor building. This condition indicates a serious degradation in the control of radioactive material.</i>
A2.1	Potential Loss or Loss of the Fuel Clad - OR - the Reactor Coolant System.	<i>An Alert is declared because ONE Fission Product Barrier (other than Containment) has been impacted due to the: Potential Loss of the Fuel Clad Fission Product Barrier - OR - the Reactor Coolant System Fission Product Barrier. - OR - Loss of the Fuel Clad Fission Product Barrier - OR - the Reactor Coolant System Fission Product Barrier.</i>
A3.1	A Risk of Station Blackout Exists - Limited Backup Power Is Available.	<i>An Alert is declared because of the loss of all normal electrical power sources for the power plant for more than fifteen minutes. Only one of several sources of emergency electrical power sources is available.</i>
A3.2	Prolonged Station Blackout - Greater than 15 minutes - During Cold Shutdown or Refueling Shutdown.	<i>An Alert is declared because of the loss of all normal electrical power sources - AND - the loss of all emergency electrical power sources for more than fifteen minutes (a prolonged Station Blackout) during Cold Shutdown or a Refueling Shutdown.</i>
A4.1	Unplanned Loss of Control Room Safety Indicators With Transient	<i>An Alert is declared because of the unplanned loss of the majority of the control room's Safety Related Equipment alarms - or - indications. - AND - The loss of other non-alarming indications. - OR - A significant change in the power plant's status is in progress. This situation requires increased surveillance of the safety related equipment in order to safely operate the power plant and there is the risk that a degraded plant condition could go undetected.</i>

Enter the EAL number AND the Brief Title (This is the **bold** information) in the Event Description area of the EMERGENCY REPORT FORM - TMI.

## EXHIBIT 3

EAL	BRIEF TITLE	EVENT DESCRIPTION
A4.2	<b>Failure of the Reactor to Automatically Shutdown - AND - a Successful Manual Reactor Shutdown was Accomplished.</b>	<i>An Alert is declared because the Reactor Protection System that is designed to automatically shut down (trip) the reactor failed to do so. The Control Room Operators have manually shut down (tripped) the reactor, but the failure of the automatic system degrades the safety level of the power plant.</i>
A4.3	<b>Loss of All Means of Decay Heat Removal and the Nuclear fuel is Predicted to be Uncovered.</b>	<i>An Alert is declared because the operators are unable to provide sufficient cooling water to the reactor following a plant shutdown. This condition reduces the ability of the operators to keep the nuclear fuel cool and degrades the safety level of the power plant.</i>
A5.1	<b>High River Water Level Near Flood Level.</b>	<i>An Alert is declared because of flood waters that have the potential to flow over the top of the stone dike that surrounds the power plant. Portions of the plant site may be flooded. This flood has the potential to damage Safety Related Equipment.</i>
A5.2	<b>High Wind Speeds Greater Than Hurricane Force.</b>	<i>An Alert is declared because of Sustained Winds greater than 80 mph recorded at TMI. There is the potential for damage to Safety Related Equipment.</i>
A5.3	<b>Tornado Strikes Vital Area.</b>	<i>An Alert is declared because of a report that a tornado touched down and has damaged structures and equipment inside the Vital Area of the power plant. This damage could affect Safety Related Equipment.</i>
A5.4	<b>Earthquake At Operating Design.</b>	<i>An Alert is declared because of an earthquake at the power plant. An earthquake of this magnitude has the potential to damage some Safety Related Equipment that could affect the ability to protect the public's health and safety. The power plant may be shut down and increased monitoring will be performed by the operators.</i>
A6.1	<b>Fire Affecting Safety Related Equipment.</b>	<i>An Alert is declared because of a fire that has affected one of the Safety Related Equipment systems in the Vital Area. (The Vital Area includes structures where safety related equipment is located.) - OR - A fire is in the Protected Area and requires local fire company assistance. The Protected Area includes major plant structures like the turbine and service buildings that are protected by a security fence and to which access is controlled.</i>
A6.2	<b>Control Room Evacuation Initiated.</b>	<i>An Alert is declared because of the order to evacuate the Control Room. The absence of personnel in the control room can affect the safe operation of the power plant.</i>
A6.3	<b>Flammable / Toxic Gas Affects Plant Operation.</b>	<i>An Alert is declared because of life threatening concentrations of flammable / toxic gas within the Vital Area of the power plant. This presence can affect the safety of plant personnel and the operation of Safety Related Equipment. Evacuation of plant personnel is possible.</i>

Enter the EAL number AND the Brief Title (This is the **bold** information) in the Event Description area of the EMERGENCY REPORT FORM - TMI.

## EXHIBIT 3

EAL	BRIEF TITLE	EVENT DESCRIPTION
A6.4	Unexpected Explosion In The Vital Area.	<i>An Alert is declared because of an unexpected explosion that caused damage inside the Vital Area of the power plant. This explosion was NOT caused by a bomb. The damage could potentially affect the ability to protect the public's health and safety.</i>
A6.6	Vehicle Crash In The Vital Area.	<i>An Alert is declared because of a vehicle (airplane, train, helicopter, etc.) that accidentally crashed inside the Vital Area of the power plant. The damage could affect Safety Related Equipment.</i>
A7.1	Confirmed Security Event Potentially Affecting Safety Related Equipment.	<i>An Alert is declared because of a confirmed security event, which degrades the safety level of the power plant. This event involves: A bomb discovered inside the Vital Area. The Vital Area includes buildings where Safety Related Equipment is located. Damage to this equipment would reduce the ability to protect the public's health and safety. - OR - A Hostile Force inside the Protected Area. The Protected Area includes major plant structures like the turbine and service buildings that are protected by a security fence and to which access is controlled.</i>
A8.1	Judgment of the Shift Manager / Emergency Director – Actual Degradation of Plant Safety.	<i>An Alert is declared by the Shift Manager / Emergency Director. The Shift Manager / Emergency Director has the flexibility to declare an event if conditions exist that indicate a potential substantial decrease in the safety level of the plant. These conditions may not be specifically addressed in an emergency procedure. In this situation, the decision to declare an emergency relies on the judgment of the Shift Manager / Emergency Director.</i>

Enter the EAL number AND the Brief Title (This is the **bold** information) in the Event Description area of the EMERGENCY REPORT FORM - TMI.



EXHIBIT 3

EAL	BRIEF TITLE	EVENT DESCRIPTION
S1.1	<b>High Radiological Doses at the Boundary of the Power Plant</b>	<i>A Site Area Emergency is declared because an abnormal release of radiation from the power plant could lead to significant doses of radiation at the boundary of the power plant.</i>
S2.1	<b>Potential Loss or Loss of the Fuel Clad - AND - Potential Loss or Loss of the Reactor Coolant System</b>	<i>A Site Area Emergency is declared because TWO of the Fission Product Barriers have been impacted due to the: Loss of the Fuel Clad Fission Product Barrier - AND - the Potential Loss of the Reactor Coolant System Fission Product Barrier. - OR - Potential Loss of the Fuel Clad Fission Product Barrier - AND - the Potential Loss of the Reactor Coolant System Fission Product Barrier. - OR - Potential Loss of the Fuel Clad Fission Product Barrier - OR - the Potential Loss of the Reactor Coolant System Fission Product Barrier - AND - the Loss of Any Other Fission Product Barrier.</i>
S3.1	<b>Prolonged Station Blackout - Greater than 15 Minutes.</b>	<i>A Site Area Emergency is declared because of the loss of all normal electrical power sources for the power plant for more than fifteen minutes - AND - the loss of all emergency electrical power sources for more than fifteen minutes. This is called a Station Blackout.</i>
S3.3	<b>- Loss of All Plant DC Electricity For More than 15 Minutes when the plant is not in Cold Shutdown or Refueling Shutdown.</b>	<i>A Site Area Emergency is declared because of the loss of all DC (Direct Current) electrical power for more than fifteen minutes.</i>
S4.1	<b>Unplanned Loss of All Control Room Safety Indicators With Transient</b>	<i>A Site Area Emergency is declared because of the unplanned loss of all Safety Related Equipment indications and alarms - AND - A significant change in the power plant's status is in progress. The control room staff is unable to adequately monitor the systems necessary to safely control the power plant and insure protection of the public's health and safety.</i>
S4.2	<b>Failure of the Reactor to Automatically Shutdown - AND - a Manual Reactor Shutdown could not be Accomplished.</b>	<i>A Site Area Emergency is declared because the Reactor Protection System that is designed to automatically shut down (trip) the reactor failed to do so AND the Control Room Operators were unable to manually shut down (manually trip) the reactor from the control room. This condition reduces the ability of the operators to control the power plant and creates conditions that could lead to damage of the nuclear fuel or the steel reactor vessel and associated piping. This condition impacts the ability to protect the health and safety of the public.</i>

Enter the EAL number AND the Brief Title (This is the **bold** information) in the Event Description area of the EMERGENCY REPORT FORM - TMI.

EXHIBIT 3

EAL	BRIEF TITLE	EVENT DESCRIPTION
S4.3	<b>Loss of All Means of Decay Heat Removal - AND - Indications that the Nuclear fuel is Uncovered.</b>	<i>A Site Area Emergency is declared because the operators are unable to provide sufficient cooling water to the reactor following a plant shutdown – AND - the increased heat has caused the water in the reactor to boil and uncover the fuel. This condition reduces the ability of the operators to keep the nuclear fuel cool, degrades the safety level of the power plant and decreases the ability to protect the public's health and safety.</i>
S4.4	<b>Loss of Both Methods Needed to Maintain the Nuclear Reactor in Hot Shut Down.</b>	<i>A Site Area Emergency is declared because of the loss of the ability to cool the reactor after it is shut down. This condition reduces the ability of the operators to keep the nuclear fuel cool and degrades the safety level of the power plant and the ability to protect the public's health and safety.</i>
S6.2	<b>Control Room Evacuation Completed Without Complete Plant Control</b>	<i>A Site Area Emergency is declared because of the evacuation of the Control Room - AND - the inability to confirm effective cooling of the nuclear fuel within 15 minutes. The absence of personnel in the control room and the lack of effective cooling of the nuclear fuel can affect the operation of Safety Related Equipment and the ability to protect the public's health and safety.</i>
S7.1	<b>Confirmed Security Event Affecting Safety Related Equipment.</b>	<i>A Site Area Emergency is declared because of a confirmed security event that degrades the safety level of the power plant and the ability to protect the public's health and safety. This event involves: A bomb that has exploded inside the Vital Area. The Vital Area includes buildings where Safety Related Equipment is located. Damage to this equipment would reduce the ability to protect the public's health and safety. - OR - A Hostile Force inside the Vital Area.</i>
S8.1	<b>Judgment of the Shift Manager / Emergency Director - Actual Failures of Safety Systems.</b>	<i>A Site Area Emergency is declared by the Shift Manager / Emergency Director. The Shift Manager / Emergency Director has the flexibility to declare an event if conditions exist that indicate the likely or actual major failure of plant functions needed to protect the public's health and safety. These conditions may not be specifically addressed in an emergency procedure. In this situation, the decision to declare an emergency relies on the judgment of the Shift Manager / Emergency Director.</i>

Enter the EAL number AND the Brief Title (This is the **bold** information) in the Event Description area of the EMERGENCY REPORT FORM - TMI.

## EXHIBIT 3

EAL	BRIEF TITLE	EVENT DESCRIPTION
G1.1	High Radiological Doses at the Boundary of the Power Plant that Exceed Protective Action Guideline (PAG) Limits.	<i>A General Emergency is declared because an abnormal release of radiation from the power plant that could lead to high doses of radiation at the boundary of the power plant. This condition may require that protective actions be implemented for members of the public living around Three Mile Island.</i>
G2.1	Loss of ANY TWO of the Fission Product Barriers – AND – the Potential Loss of the third.	<i>A General Emergency is declared because TWO of the Fission Product Barriers have been Lost and there is at least the Potential Loss of the third barrier.</i>
G3.1	Prolonged Station Blackout – Greater than 4 hours.	<i>A General Emergency is declared because of the loss of all normal electrical power sources for the power plant for more than four hours - AND - the loss of all emergency electrical power sources for more than four hours (a prolonged Station Blackout) - AND - the overheating of the nuclear fuel.</i>
G4.2	Failure of the Reactor to Automatically Shutdown - AND – a Manual Reactor Shutdown could not be Accomplished - AND – Operators are Unable to Cool the Nuclear fuel	<i>A General Emergency is declared, because the Reactor Protection System that is designed to automatically shut down (trip) the reactor failed to do so AND, the Control Room Operators were unable to manually shut down (manually trip) the reactor from the control room AND, the operators are unable to cool the nuclear fuel.</i>
G7.1	Confirmed Security Event Loss of Plant Control.	<i>A General Emergency is declared because of a confirmed security event that prevents the operators from being able to place the power plant in Cold Shutdown. This condition seriously degrades the safety level of the power plant and the ability to protect the public's health and safety. This event involves: The loss of physical control of the Control Room. - OR - The loss of physical control of the Remote Shutdown Control Area.</i>
G8.1	Judgment of the Shift Manager / Emergency Director - Safety System Failures and Potential Radioactive Release.	<i>A General Emergency is declared by the Shift Manager / Emergency Director. The Shift Manager / Emergency Director has the flexibility to declare an event if conditions exist that could result in substantial fuel damage and a substantial uncontrolled radiation release. - OR - have resulted in substantial fuel damage and a potential uncontrolled radiation release.</i>

Enter the EAL number AND the Brief Title (This is the **bold** information) in the Event Description area of the EMERGENCY REPORT FORM - TMI.



EXHIBIT 4

\*\*\* INFORMATION REGARDING PARs, NOT FOR PUBLIC RELEASE \*\*\*

PAR has been provided to the STATE

YES (✓)		NO (✓)		N/A (✓)	
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If YES, PAR RECOMMENDED


PROTECTIVE ACTION IMPLEMENTED BY THE STATE, IF KNOWN


PLANT STATUS

REACTOR STATUS

POWER OPERATION

- ☐ \_\_\_\_\_ % POWER STEADY STATE    ☐ MANUAL SHUTDOWN @ \_\_\_\_\_ %/min  
☐ HOT STANDBY    ☐ HOT SHUTDOWN

SHUTDOWN

- ☐ REACTOR TRIP    \_\_\_\_\_ AUTOMATIC    \_\_\_\_\_ MANUAL

COOLDOWN

- ☐ COOLDOWN @ \_\_\_\_\_ °F/hr via  
     ☐ FORCED CIRC with \_\_\_\_\_ PUMPS    ☐ NATURAL CIRC with \_\_\_\_\_ ΔT  
     ☐ Other (Explain) \_\_\_\_\_

COLD SHUTDOWN

- ☐ DHR 'A'    ☐ DHR 'B'    ☐ LPI 'A'    ☐ LPI 'B'  
☐ OTHER (Specify) \_\_\_\_\_


ELECTRICAL STATUS

- ☐ System GRID  
☐ Main Generator  
     Emergency Diesels    ☐ 'A'    ☐ 'B'    ☐ SBO  
     Battery    ☐ 'A'    ☐ 'B'  
☐ OTHER (Specify) \_\_\_\_\_


EXHIBIT 4

**FISSION PRODUCT BARRIER STATUS**

**REACTOR COOLANT SYSTEM**

Barrier	INTACT (√)	POTENTIAL LOSS (√) /	Leak rate (gpm), If KNOWN	LOSS (√) /	Leak rate (gpm), If KNOWN
RCS (NOT OTSG)		/		/	
OTSG 'A'		/		/	
OTSG 'B'		/		/	

**CONTAINMENT BUILDING**

Barrier	INTACT (√)	POTENTIAL LOSS (√)	LOSS (√)
Building Integrity			
Bypass RB (e.g., OTSG leak to atmos.)			

**FUEL CLAD INTEGRITY**

Barrier	INTACT (√)	POTENTIAL LOSS (√)	LOSS (√)
Clad			

**EMERGENCY SYSTEMS ACTUATED**

- ☐ NONE
- ☐ EMERGENCY FEEDWATER (EFW)
- ☐ HIGH PRESSURE INJECTION (HPI)
- ☐ CORE FLOOD (CF)
- ☐ LOW PRESSURE INJECTION (LPI)
- ☐ REACTOR BUILDING SPRAY (BS)

**PROBLEMS AT UNIT 2**


**OPEN TECHNICAL ISSUES (Provide specific details, including priority)**


EXHIBIT 4

**RADIOLOGICAL CONDITIONS**

Is an abnormal, unplanned or uncontrolled release (monitored or unmonitored) in progress or suspected?

☐ YES ☐ NO ☐ N/A

If YES, specify the release pathway:

If YES, describe release type:

☐ Airborne release ☐ Liquid release ☐ Unknown  
☐ Other (Specify)

Have Field Monitoring Teams (FMT) been dispatched? ☐ YES ☐ NO

Have abnormal ON SITE or OFF SITE radiological conditions been detected by:

☐ Reuter Stokes ☐ Field Monitoring Team

Details:

Abnormal radiation levels IN PLANT: ☐ YES ☐ NO

Details (Location):

**HAZMAT**

A HAZARDOUS MATERIAL EVENT HAS OCCURRED (See 1203-44) ☐ YES ☐ NO

HAS ENVIRONMENT AFFAIRS BEEN INFORMED? ☐ YES ☐ NO

HAS THE HAZARDOUS MATERIAL ENTERED THE RIVER? ☐ YES ☐ NO

DETAILS (Location, Chemical, actions taken, etc.)

EXHIBIT 4

**PERSONNEL STATUS**

PERSONNEL INJURED	<input type="checkbox"/>	YES	HOW MANY _____	<input type="checkbox"/>	NO
INJURED & CONTAMINATED	<input type="checkbox"/>	YES	HOW MANY _____	<input type="checkbox"/>	NO
TRANSPORT OFFSITE	<input type="checkbox"/>	YES	HOW MANY _____	<input type="checkbox"/>	NO
SPECIFY THE OFFSITE FACILITY _____					

PERSONNEL CONTAMINATED	<input type="checkbox"/>	YES	HOW MANY _____	<input type="checkbox"/>	NO
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DETAILS:

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IS ONSITE ACCOUNTABILITY REQUIRED?	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
IF YES, IS IT COMPLETE?	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
IS NON-ESSENTIAL PERSONNEL MUSTER REQUESTED?	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
IF YES, LOCATION; _____				
HAVE NON-ESSENTIAL PERSONNEL BEEN EVACUATED?	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
IF YES, LOCATION; _____				

**OTHER ISSUES**

DETAILS (Security, 10CFR50.54(x), etc.)


FORM COMPLETED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 (NAME)



	<p style="text-align: center;">TMI - Unit 1 Emergency Plan Implementing Document</p>	<p>Number</p> <p style="text-align: center;"><b>EPIP-TMI-.27</b></p>
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**EXHIBIT 5**

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**Emergency Support Director Briefing Sheet**

**NOTE**

This checklist may be completed by the ESD Assistant or EP Representative.

**NOTE**

This checklist may be filled out in any sequence. Items that do not apply to the present situation may be skipped and marked "N/A".

- 1.0 Conduct a briefing periodically. (Hourly and after significant changes in plant conditions).

Briefing Time \_\_\_\_\_

- a. Emergency classification/emergency organization status

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- b. Plant status (temperature, pressure, leak rate, equipment status etc.)

<u>RCS Temp</u>	<u>RCS Press</u>	<u>RCP Status</u>
<u>RB Sump</u>	<u>RB Flood</u>	<u>BWST</u>

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- c. Radiological conditions (specific release pathway, verify release duration, in plant radiological conditions, etc.)

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	<p style="text-align: center;">TMI - Unit 1 Emergency Plan Implementing Document</p>	<p>Number</p> <p style="text-align: center;"><b>EPIP-TMI-.27</b></p>
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**EXHIBIT 5**

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- d. Work in progress (equipment problems, evolutions in progress, etc.)

Priority jobs to mitigate event

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- Other \_\_\_\_\_
- \_\_\_\_\_

- e. Personnel status (muster, accountability, evacuation, contamination, etc.)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- f. Security and offsite support (security conditions, required offsite support)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- g. Mitigating activities, future plans

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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**EXHIBIT 6**

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**EOF Access Control Checklist**

Initials

- \_\_\_\_ 1.0 Upon arrival at the EOF, request Environmental Radioactivity Lab personnel to unlock the door and keep the Main Gate open.
- \_\_\_\_ 2.0 Ensure all entrances other than the main entrance are locked or have positive access control in order to maintain access control to the EOF.
- \_\_\_\_ 3.0 Activate the DADCO Door Monitor (located at the Main Entrance) by depressing the "Green" power button.
- \_\_\_\_ a. Locate door number (1) on the alarm panel and place this door in standby mode by depressing the "black" button one time.

**NOTE**

This will cause the indicator light to switch from solid green to amber.

- \_\_\_\_ b. If an alarm is received on any other alarmed door, silence the alarm by depressing the silence button. This will terminate audible alarm.
- \_\_\_\_ c. Check status of door by depressing black button corresponding to the door one time. If door is open, the amber light will flash. If closed, amber light will remain solid.
- \_\_\_\_ d. If door indicator light is flashing or is solid (amber), notify Group Lead Admin. Support or E.P. Rep. to verify status of door. Request a walkthrough be conducted to verify only authorized personnel are present in the facility.
- \_\_\_\_ e. If door is verified to be secure, reset door by depressing black button corresponding to door, to return indicator button to green secure mode.
- \_\_\_\_ f. If door is unsecure, and must remain open, positive access control shall be determined by Group Leader Admin Support or E.P. Rep.
- \_\_\_\_ 4.0 Obtain the EOF access list from the glass case located next to the name board and ensure all authorized personnel frisk, if necessary.

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**EXHIBIT 6**

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**NOTE**

Personnel requesting entry to the EOF, must produce a TMI company photo ID badge or be on the approved access list. All other personnel requesting entry must be authorized by the Group Leader Administrative Support, the Emergency Preparedness Representative or the Emergency Support Director.

**NOTE**

Steps a, b, and c, below, may be performed in any order and may be repeated if necessary. Any of these steps that are not needed can be skipped and marked "N/A".

- \_\_\_\_\_ a. If unauthorized personnel attempt to gain access to the EOF, the individual assigned access control should contact Dauphin County Control by dialing 911 on an outside line and request assistance from the Susquehanna Township Police.
- \_\_\_\_\_ b. If a person frisking causes an alarm, direct the individual to remain at that location and notify Group Leader R&EC.
- \_\_\_\_\_ c. If you are notified by an individual that they have consumed an alcoholic beverage within the past five (5) hours or believe an individual should be tested for Fitness for Duty requirements, notify the Emergency Preparedness Representative.
- \_\_\_\_\_ 5.0 Forward completed checklist to the Emergency Preparedness Representative.

NAME \_\_\_\_\_ TIME \_\_\_\_\_ DATE \_\_\_\_\_

EOF Access Control

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**EXHIBIT 7  
TMI Access Authorization Checklist**

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NAME: \_\_\_\_\_ COMPANY: \_\_\_\_\_

SSN: \_\_\_\_\_ BADGE #: \_\_\_\_\_

The criteria identified by this checklist shall be completed and verified prior to authorizing access of NRC personnel during emergency conditions. Deviation from these requirements shall only be permitted at the direction of the Emergency Director, Emergency Support Director or their designee.

**NOTE**

Complete only the applicable sections of this checklist, mark other sections "N/A" (e.g., mark Section A as N/A for non-NRC personnel).

A. NRC personnel shall be granted unfettered access upon verification of:

- \_\_\_\_\_ • The representative possesses "Q" or "L" clearance, has been authorized site access by the NRC Region I Office (King of Prussia, PA) or the NRC Headquarters (Rockville, MD) and appears on the current TMI Access Roster/5 SS Screen.
- \_\_\_\_\_ • The representative possesses a "Q" or "L" clearance, has been authorized access by Regional Office and/or Headquarters, but does not appear on the TMI Access Roster/5 SS terminal. In this case a letter of access authorization shall be forwarded (via telefax) to the Emergency Operations Facility.
- \_\_\_\_\_ • The representative does not possess a "Q" or "L" clearance and must have an escort for entry into the protected area.

If Step 1 or 2 are complete check box 1 on Access Authorization Form, if only Step 3 is completed, check box 2 on Access Authorization Form.

Verification Signature: \_\_\_\_\_  
Group Leader Admin Support/Designee Date

All other personnel require Emergency Director, Emergency Support Director or designee authorization and if not fully qualified for unescorted access require a qualified site staff member as an escort.

**NOTE**

Permission for site entry should be obtained through the ESD Assistant.

B. Rad Con (Non-RWP Access)

- \_\_\_\_\_ • Complete Temporary Issue Paperwork.
- \_\_\_\_\_ • Issue TLD.

Verification Signature: \_\_\_\_\_  
Group Leader R&EC/Designee Date

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C. Rad Con/Training (Escorted RWP Access - No Respirator Areas)

- \_\_\_\_\_ • Complete Step B.
- \_\_\_\_\_ • View G.E.T. Film.

**NOTE**

Both 1/2 inch and 3/4 inch format tapes are stored in the EOF cabinet.

- \_\_\_\_\_ • Practical Factor Performance not required.
- \_\_\_\_\_ • Whole Body Count (waived if no facilities available).

Check Box 3 of the Access Authorization Form

Verification Signature: \_\_\_\_\_  
Group Leader R&EC/Designee Date

D. Rad Con (Unescorted RWP Access - No respirator Areas)

- \_\_\_\_\_ • Ensure Steps B and C are complete.
  - \_\_\_\_\_ • Complete practical factors.
- Individual granted unescorted RWP Access (No Respirator Areas).
- Check Box 4 of the Access Authorization Form.

Verification Signature: \_\_\_\_\_  
Group Leader R&EC/Designee Date

E. Rad Con (Unescorted RWP Access with Respirator)

- \_\_\_\_\_ • Ensure Steps B, C and D complete.
  - \_\_\_\_\_ • Documentation provided by NRC of satisfactory completion of respiratory medical or receive GPU Nuclear medical.
  - \_\_\_\_\_ • Complete TMI Respirator Training.
  - \_\_\_\_\_ • Complete TMI Respirator Fit Test.
- Individual granted unescorted RWP Access to all areas.
- Check Box 5 of the Access Authorization Form.

Verification Signature: \_\_\_\_\_  
Group Leader R&EC/Designee Date

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**EXHIBIT 7A  
NRC TMI Access Authorization**

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NAME: \_\_\_\_\_ SSN: \_\_\_\_\_

☐ 1. Authorized unescorted TMI Site Access.  
Authorized by Signature: \_\_\_\_\_

☐ 2. Authorized escorted TMI Site Access.  
Authorized by Signature: \_\_\_\_\_

☐ 3. Authorized non-respirator RWP Access with an escort.  
Authorized by Signature: \_\_\_\_\_

☐ 4. Authorized unescorted non-respirator RWP Access.  
Authorized by Signature: \_\_\_\_\_

☐ 5. Authorized to wear the following respirator(s) and unescorted RWP Access.  
Respirator Type \_\_\_\_\_ Size \_\_\_\_\_  
Respirator Type \_\_\_\_\_ Size \_\_\_\_\_  
Authorized by Signature: \_\_\_\_\_

Security Badge #: \_\_\_\_\_ Issued By: \_\_\_\_\_ Date: \_\_\_\_\_

**NOTE**

It is the individual's responsibility to maintain a copy of this form with them at all times. Failure to keep a copy of this form can result in Site/RWP Access being denied.

**EXHIBIT 8**  
**TMI Par Logic Diagram**

**SITE AREA EMERGENCY IS DECLARED**

Determine which initial PAR is appropriate if a GENERAL EMERGENCY is declared.

- (1) Evacuate the 5 mile radius around the plant and shelter the 5 to 10 mile radius around the plant  
OR  
(2) Shelter the 10 mile radius around the plant

Continue assessment of all available Plant and Field Monitoring information.

**GENERAL EMERGENCY IS DECLARED**

**EVACUATE THE 5 MILE RADIUS AROUND THE PLANT AND SHELTER THE 5 TO 10 MILE RADIUS AROUND THE PLANT UNLESS IT IS KNOWN THAT SHELTERING OF THE 10 MILE RADIUS AROUND THE PLANT WILL OFFER GREATER PROTECTION. (See NOTE below)**



**CONTINUE ASSESSMENT BASED ON ALL AVAILABLE PLANT DATA AND FIELD MONITORING INFORMATION**



**Expand EVACUATION recommendation to the 10 mile radius around the plant if VALID dose assessment/measurement information indicates that areas outside the 5 mile radius will exceed 1 REM TEDE or 5 REM CDE (Child Thyroid)**

**NOTE**

- The intent is to evacuate the 5 mile radius around the plant as an initial PAR. The decision to recommend sheltering rather than evacuation should be made **ONLY** when it is clear that the evacuation cannot be completed within the release time. For example, the release has already stopped, the release can be stopped simply by turning off a piece of equipment, or there is a deliberate venting of the Containment Building with more than one valve available for isolation.

**SECURITY EVENT**

- When **EITHER** the Control Room or the Remote Shutdown area is available the initial PAR should be to **SHELTER** the 10 mile radius around the plant.
- When **BOTH** the Control Room and the Remote Shutdown area are lost the initial PAR should be to **EVACUATE** the 5 mile radius and **SHELTER** the 5 to 10 mile radius around the plant.



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**EXHIBIT 9  
EP Representative**

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**Activation**

1.0 Start log for your position in accordance with EPIP-TMI-.05.

**NOTE**

Steps a through c may be completed in any sequence. Steps that do not apply to the present situation may be skipped or marked "N/A".

- \_\_\_\_\_ a. Establish Access Control in accordance with Exhibit 6, EOF Access Control Checklist until relieved by the Group Leader Admin Support.
- \_\_\_\_\_ • If an individual is not available to implement Exhibit 6, proceed as follows:
  - i. Insure the door is locked
  - ii. Display a sign stating "Ring doorbell for facility access".
- b. Test ESO personnel who admit to having had a drink in the last five hours in accordance with Fitness for Duty requirements (Exhibit 9A).
- c. Determine if the EOF is 1 hour (from the time displayed on the pager) staffed and ready to be activated.
  - Ensure that personnel properly use the EOF Name Board and are wearing tags to identify the position they are filling.
  - Determine vacant positions by looking at remaining nametags
    - a. Ensure that vacant positions are provided to the EOF Communications Coordinator so that personnel can be contacted to fill the positions.
  - Obtain an activation status report from the following positions:
    - a. ESD Assistant
    - b. Group Leader - Rad and Env Controls
    - c. Technical Support Rep
    - d. Public Information Representative - EOF
    - e. EOF Communications Coordinator
    - f. RAC Line Communicator
    - g. ESD Logkeeper
    - h. EAC

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**EXHIBIT 9**

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- \_\_\_\_\_ d. When all of the above positions are activated, report to the ESD that the EOF is 1 hour staffed and ready to be activated.

**2.0 EP Operational Checklist**

**NOTE**

The following steps are not presented in the exact sequence that they are to be performed. It is likely that some steps will have to be performed out of the sequence listed and that some steps will be performed concurrently. Steps that are not applicable for the present situation may be skipped. Other steps may need to be repeated. This exhibit should be referred to periodically to ensure that necessary actions are not missed.

- a. Determine status of the Emergency Response Facilities from the ED Assistant and report the results to the ESD Assistant.
- b. Inform the ESD that the EOF is fully staffed when the Group Leader Administrative Support and supporting staff have arrived.
- c. Advise the ESD and other Emergency Response Organization members on all Emergency Plan related matters.
  - Proper interface with the State and the NRC
  - Proper Emergency Classification Level
  - Proper Protective Action Recommendation
  - Proper use of Emergency Plan Implementing Procedures
  - Offsite notifications (if that responsibility has been transferred to the EOF)
- d. Upon the arrival of the NRC and State personnel
  - Provide a briefing.
    - i. Status of the Event
    - ii. Structure of TMI organization
    - iii. Request directives in writing to the ESD

**NOTE**

Use completed Exhibit 4 and, if available, Exhibit 5 to enhance the briefings

- Introduce them to their counterparts.

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**EXHIBIT 9**

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- Act as the point of contact for the PEMA representative.
- e. Attend all ESD Conferences
  - Log all conference Action Items on conference room status board.
  - Ensure that mitigating activities are discussed.
  - Lead the review of the PAR Logic Diagram.
  - Ensure the State and the NRC are given an opportunity to ask questions.
- f. Determine status of the State and Local Emergency Operations Centers from the PEMA representative and report the results to the ESD Assistant.
- g. If problems are encountered with the Emergency Telephones, contact the EOF Communications Coordinator.
- h. Upon close out of the drill/emergency:
  - Collect all completed EOF logs and forms
  - Collect all EACC logs and forms
  - Provide them to the Emergency Preparedness Department

Name \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_  
                     Emergency Preparedness Representative

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**EXHIBIT 9A**

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**Emergency Operations Facility  
Fitness for Duty Determination Instructions**

**NOTE**

The fitness for duty rule applies to all TMI employees (including TMI contractors and vendors) granted unescorted access to the protected area or who are required by position or name to report to the EOF. These instructions address their evaluation for utilization in an emergency only. All "for cause" evaluations must be conducted by the Medical or Security Department.

Scope:

In accordance with 1000-ADM-2002.06, Fitness for Duty, individuals responding to an emergency who have consumed alcohol within the previous five hours but believe that they are fit for duty shall inform the Emergency Support Director and receive an evaluation. Contractor/vendor personnel shall be asked if they have consumed alcohol within the previous five hours. If the answer is yes, an evaluation shall be conducted.

Instructions:

The Emergency Support Director shall direct the Emergency Preparedness Representative to administer the breath alcohol evaluation in accordance with Exhibit 9A.

**NOTE**

Extra copies of ALCO Sensor III operational checklist are kept with the instrument.

Based on the results of the test, perform the following:

- a. BAC 0.01% or less

Allow the individual to work in the facility.

- b. BAC greater than 0.01% but less than 0.04%

Allow the individual to work in the facility. Re-test the individual approximately every thirty minutes to determine the maximum BAC. If the maximum BAC is equal to or greater than 0.04%, refer to Step 3. If less than 0.04%, no further action is required.

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- c. BAC equal to or greater than 0.04%

If determined that the individual's unique knowledge or skills are required, that individual shall only be permitted to work with the permission of the Site Director (or in his/her absence, his/her designee), Emergency Support Director, Emergency Director or Office of the President only after satisfactory assurance that the individual is capable of performing his/her duties. Remind the Emergency Support Director that if this individual is needed to work, he/she must be escorted at all times. Arrangements should be made as soon as practicable for (for cause) testing in accordance with 1000-ADM-2002.06.

**NOTE**

Individuals not "on call" who report to their facility and test equal to or greater than 0.04 percent BAC are not subject to disciplinary action.

- d. Ensure the individual who tested equal to or greater than 0.04, if not needed, is not permitted to drive home. Provide a place for the individual to rest or contact Group Leader - Admin Support to arrange for transportation.
- e. Be alert for any individual that exhibits aberrant behavior or the smell of alcohol. Test these individuals in accordance with this exhibit. If aberrant behavior cannot be attributed to a positive BAC reading, ask the Group Leader - Admin Support to contact the Security Department for further action.

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**EXHIBIT 9A**  
**ALCO Sensor III Operational Checklist**  
Sample

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TEST SUBJECT NAME: _____	DATE _____
SOCIAL SECURITY NO: _____	SERIAL NO: _____
TIME OF TEST: TEST 1 _____	TEST 2 _____
TEST RESULT (BAC): TEST 1 <u>0.</u> _____ %	TEST 2 <u>0.</u> _____ %
OPERATOR NAME: _____	SIGNATURE: _____

INSTRUCTIONS - check each box after completion of step.

**NOTE**

The fifteen minute observation period of the subject may be waived as long as a positive test result is not received. Should a positive test result be indicated, it shall be disregarded and the alcohol breath test started anew after at least a 15 minute observation period.

A weak battery is indicated by an "8.888" in the display window. Replace battery.

1. ☐ Check temperature window on back of unit (should read 20° to 36° C).
2. ☐ Have the individual mount mouth piece on unit.
3. ☐ Press "READ" button and hold for 10 seconds. Check to see if .000 is constant. If not, press "Set" button and recheck in one minute. If the display reads greater than .000, remove the instrument from service and forward to the Medical Department for repair and use another instrument for testing.
4. ☐ Press "SET" button.  
☐
5. ☐ Instruct subject to take a deep breath and blow steadily through the tube until told to stop  
☐ (minimum of 4 seconds). (NO smoking within fifteen [15] minutes of test.)
6. ☐ Push "READ" button during third second that the subject is blowing. (Subject MUST continue  
☐ to blow for a minimum of one [1] second after the "READ" button is depressed.)
7. ☐ Keep "READ" button depressed until reading stops climbing.  
☐
8. ☐ Record reading and time of TEST 1/TEST 2. (NOTE: The two readings must agree within  
☐ ±10% of the averages of the two measurements, if not, use another instrument).
9. ☐ Press "SET" button to accelerate elimination of reading and electrically clean the cell surface.  
☐
10. ☐ Wait a minimum of two minutes and a maximum of 10 minutes and repeat Steps 3 through 9.

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**EXHIBIT 10**

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**Emergency Support Director Assistant Checklist**

**I. ACTIVATION**

**INITIAL**

- a. Upon arrival at the EOF, ensure that steps are being taken to expeditiously activate the EOF.
  - Assist the ESD in the completion of Exhibit 1.
  - Assist the ESD in the completion of Exhibit 4.
- b. Report your status as activated when requested by the Emergency Preparedness Representative.

**II. OPERATIONS**

**NOTE**

The following steps are not presented in the exact sequence that they are to be performed. It is likely that some steps will have to be performed out of the sequence listed and that some steps will be performed concurrently. Steps that are not applicable for the present situation may be skipped. Other steps may need to be repeated. This exhibit should be referred to periodically to ensure that necessary actions are not missed.

- a. Refer to EPIP-TMI-.01, "Emergency Classification and Basis", whenever major plant changes have occurred to determine if a change in emergency classification is warranted.
- b. If the ESD has assumed the responsibilities for "Approving and directing official notifications to off site agencies; then perform the following:
  - Inform the EOF Communications Coordinator that the ESD has assumed responsibility for off site notifications.
  - Assist the ESD in filling out the Emergency Report Form - TMI.
- c. When the ESD leaves the main room of the EOF, assume the Person-In-Charge role until the ESD returns.

**NOTE**

This does NOT include assuming the responsibilities that the ESD has assumed from the ED.

- Interrupt ESD conferences to inform the ESD of major changes that occur in the plant.

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**EXHIBIT 10**

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- d. Promptly process press releases received from the PI Rep - EOF for ESD review and approval.
- e. Assume the TMI, Point-Of-contact role for any inquiries from the following:
  - NEI (Technical and Regulatory Division)
  - EPRI
  - ANI
- f. Assist the ESD in the completion of Exhibit 5.
  - Insure each completed Exhibit 5 includes the Briefing Time.
- g. Forward the completed checklist and all logs to the Emergency Preparedness Representative at the end of the event.

Name \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_

ESD Assistant



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**EXHIBIT 11**

**ESD Logkeeper**

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## I. ACTIVATION

- a. **Activate the ESD Logkeeper Position**
  - **Maintain the ESD Log in accordance with EPIP-TMI-.05, "Communications and Record Keeping".**
  - **Report your status as activated when asked by the Emergency Preparedness Representative.**

## II. ESD LOGKEEPER OPERATIONAL CHECKLIST

- a. At ESD Conferences, insure that previously generated Action Items are addressed.
  - Forward the completed checklist and all ESD logs to the Emergency Preparedness Representative at the end of the event.

Name \_\_\_\_\_ Time: \_\_\_\_\_ Date \_\_\_\_\_  
ESD Logkeeper

## ESD Logkeeper

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**EXHIBIT 12**

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**Public Information Representative - EOF**

**I. ACTIVATION**

- \_\_\_\_\_ a. Contact the Duty PI REP to advise of your arrival at the EOF and to determine whom will be writing Press Releases and whom will be the Media Briefer.
- \_\_\_\_\_ b. Start a log of all telephone calls in accordance with EPIP-TMI-.05.
- \_\_\_\_\_ c. Report your status as activated when asked by the Emergency Preparedness Representative.

**II. OPERATION**

**NOTE**

The following steps are not presented in the exact sequence that they are to be performed. It is likely that some steps will have to be performed out of the sequence listed and that some steps will be performed concurrently. Steps that are not applicable for the present situation may be skipped. Other steps may need to be repeated. This exhibit should be referred to periodically to ensure that necessary actions are not missed.

- \_\_\_\_\_ a. Gather information about the emergency and provide it to the Media Briefer and News Release Writer, as appropriate:
  - Be especially attentive to any radiological situation, whether or not a radiation release is occurring. ANY release of radiation in the context of the emergency SHOULD be reported to the Press Release Writer and Media Briefer.
  - Use the "Plant Emergency Information Checklist" (Refer to Exhibit 1C of the TMI Emergency Communications Response Manual) to obtain plant information.
  - Develop Bullets of information (e.g., RCP 'A' has been restarted) from attending ESD Conferences and obtained outside the conference.
    - i) Information not obtained directly from plant indications needs to have ESD Assistant review and ESD approval.
    - ii) ALL BULLETS must be reviewed and APPROVED by the ESD.
    - iii) Obtain ESD approval of bullets generated during an ESD conference before the ESD leaves the conference room.
    - iv) Fax the authorized information to the Media Briefer.

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**EXHIBIT 12**

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- Continually update the Media Briefer and the Press Release Writer using the Emergency Information Checklist.
- Keep in contact with the PI REP – ECC who is to route new information to the JIC as requested.

**NOTE**

You are also required to provide real-time information about plant conditions, without ESD approval, to the JIC staff in order to assist the Media Briefer's understanding of changing plant conditions.

**Press Releases**

- \_\_\_\_\_ b. When DRAFT Press Releases are received review them for accuracy before submitting them to the ESD Assistant for processing and obtaining ESD APPROVAL. Refer to Exhibit 13, Press Release Guidance, to enhance your review.
- Depending on the change required either mark up the DRAFT and have the Press Release Writer make the corrections before the processing below:
    - i) Give it to the Group Leader R&EC for review and approval
      - \* Be persistent to get it reviewed and INITIALED PROMPTLY
    - ii) Give it to the Tec Support Rep for review and approval
      - \* Be persistent to get it reviewed and INITIALED PROMPTLY
    - iii) If required, have Security perform a review for SAFEGUARDS information
      - \* Be persistent to get it reviewed and INITIALED PROMPTLY
    - iv) Give it to the ESD Assistant for submittal to the ESD for review and approval
      - \* Be persistent to get it reviewed and SIGNED PROMPTLY
  - Press Releases announcing anything other than emergency level changes or Media advisories (e.g., JIC activated) must be approved by the Emergency Support Director.
  - Fax or deliver if the JIC is at the EOF the initialed (APPROVED) DRAFT Press Release to the Press Release Writer to obtain a final Press Release.
    - i) Call the Press Release Writer and provide the changes verbally to expedite the Press Release process.
  - Maintain copies of the Press Releases.
  - Provide a copy of ALL APPROVED Press Releases to the ESD.

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- \_\_\_\_\_ c. Ensure that emergency level changes and the criteria for those changes are **IMMEDIATELY** communicated to the Media Briefer.
- Obtain a copy of the completed Emergency Report Form-TMI, if developed at the EOF, and transmit to the Media Briefer at the JIC.
- \_\_\_\_\_ d. Upon termination of the emergency forward all logs, forms, draft Press Releases, approved Press Releases, completed checklists and other pertinent documentation to the Emergency Preparedness Rep.

Name \_\_\_\_\_ Time: \_\_\_\_\_ Date \_\_\_\_\_

PI REP - EOF

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**EXHIBIT 13**  
**Press Release Guidance**

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- 1.0 Press releases should be issued as soon as possible, typically within one hour from the time that a major plant event has occurred. Press releases shall be written in accordance with the following guidelines:
- a. The following categories of information should be included in press releases.
- Level of Emergency  
This is simply identifying which of the four emergency levels was declared.
  - Basis for Emergency Declaration  
This should be a simplified description of the plant condition which produced the emergency declaration (e.g., a leak of radioactive water within a plant building).
  - Operations Status of the Plant  
A simple description of the plant status at the time of the emergency declaration (e.g., TMI was operating at 100% power, however, the plant is currently reducing power).
  - Company/Government Interface  
This is intended to inform the public that TMI has notified and is working closely with government officials so that public confidence and company credibility can be increased, or maintained.
  - Corrective Actions  
This should be a non-technical description of what plant personnel are doing to correct the problem. It may include such language as "attempts are being made to stop the leak" or "plant personnel are investigating the cause of the leak."
  - Off-site Impact  
A statement which simply assess what impact this event may have on the environment. This is intended to provide factual information on off-site radiological conditions (e.g., a radioactive release is in progress, however, monitoring teams have not detected any radiation levels in excess of normal background).
- The initial press release should include all or part of the above information, however, at the very least, it should contain information from the parts above.
- b. In addition, the following guidance should be used in issuing press releases:
- Speculation, Dose Projections and Protective Action Recommendations should not be included in press releases.

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- Press Releases SHALL have the concurrence of the Emergency Support Director. Press Releases, should have engineering, radiological and as appropriate Safeguards review.
  - a. Exceptions to this are limited to releases that are media advisories or releases that only contain 'boiler plate' information (e.g., level of emergency without any specific details or that the Joint Information Center is now activated).
    - i. The ED/ESD should be made aware of these advisories.
  - b. Original initialed copies are retained for records.
- Press releases should be reviewed promptly to support timely (< 1 hour) issuance.
- Press releases should avoid undefined technical terms and abbreviations (e.g., plant names, trip, etc.)
  - a. Press releases should be written to be as simple as possible.
    - i. Where possible, descriptions should be used instead of technical terms. For example, "back up power source" should be used in place of "diesel generators".
  - b. Additional list of Technical terms and alternate words.

Technical Terms

Accountability

Auxiliary Building

RMG22  
RMG23

Contaminated

Contamination

Containment Building

Cladding

Control Rod

Critical

Suggested Descriptions

The process of accounting for all plant personnel

Building housing support equipment for the Reactor

A monitor which detects radiation levels inside the Reactor Building

Has loose radioactive material on it, him, her.

Loose radioactive material

Building which houses the Reactor or Reactor Containment Building

A metal tube containing the nuclear fuel

A device which when inserted in a reactor stops the generation of power

Sustained Chain Reaction

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<u>Technical Terms</u>	<u>Suggested Descriptions</u>
Diesel Generator	Emergency Power Unit or Back Up Power Source
Fission Products	Radioactive materials made from operating the Reactor
Fission Products Barriers	Barriers designed to contain the radioactive materials made from operating the Reactor.
Fuel Cladding Failure	Damage to the metal tubes containing the nuclear fuel.
Fuel Pool	Underwater Storage Area for Nuclear Fuel
Grid	Electrical Distribution System
Hot Well	Tank that collects condensed steam
Loss of Off Site Power	The plant has lost its connection to the Electrical Distribution system
Noble Gas	Radioactive Gas
Penetration	Opening through the wall
Plume	Radioactivity released in the air or water
Poison	A material which reduces power in the reactor
PORV	Pressure Relief Valve
Primary System	The system that circulates water through the Reactor to remove heat
Protected Area	Security Barrier around the plant
Radionuclides	Radioactive material
Reactor Building	Building which houses the reactor or reactor containment building
Reactor Building Purge	A means of exchanging air inside the Reactor Building with outside air
Reactor Trip	Automatic or Manual Shutdown of the Reactor

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Technical Terms

Suggested Descriptions

Reuter Stokes

Off Site electronic Radiation Monitors

SCRAM

Immediate or Fast Shutdown of the  
Reactor

Secondary System

Non Nuclear Steam System

Steam Generator

Heat Exchanger where steam is made

Subcritical

No self sustaining chain reaction

Half Life

Time it takes for half of the radioactive  
material to decay away



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**EXHIBIT 14**  
**Site Access Policy for Media During Emergencies**

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**NOTE**

The following steps are not presented in the exact sequence that they are to be performed. It is likely that some steps will have to be performed out of the sequence listed and that some steps will be performed concurrently. Steps that are not applicable for the present situation may be skipped. Other steps may need to be repeated. This exhibit should be referred to periodically to ensure that necessary actions are not missed.

- 1.0 Providing site access to media personnel during a plant emergency or in the recovery from a plant emergency is in the best interest of the company and the public. However, media access to the site must not impair the response to the emergency.
- 2.0 Responsibility for approving site access rests with the Emergency Support Director, or, if the EOF is not activated, with the Emergency Director. Refer to Section 5 of this exhibit for responsibilities.
- 3.0 For purposes of media access to the site during an emergency, the same industrial safety and security standards and requirements that apply to non-essential employees will be applied to the media.
- 4.0 **Communications Dept. Responsibilities**
  - a. Requests for media access will be made to the ESD or ED by the Public Information Duty Representative or the Communications Emergency Team Leader.
  - b. Communications will provide the ED/ESD with the number of media to gain site access, areas to be accessed and length of time the media will be there. (Communications will decide the number of media gaining access based on conditions at the time of the emergency. An attempt will be made to gain access for, at a minimum, one representative each from radio, television and print media.)
  - c. Communications will provide media transportation on and off site.
  - d. Communications will have each member of the media sign a Media Access Briefing Form, indicating they were briefed about the risks as they were known at the time by Company Management.
    - If media access does not involve entry into a posted radiologically controlled area:
      - a. The Communications staff will conduct the sign in and badging of media at TMI.
        - i. Communications will notify the Security Coordinator prior to proceeding with Site Access.
      - b. Communications will supervise and escort the media while on site.
      - c. Communications will conduct a briefing explaining the radiological and industrial conditions and risks on site.

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- If media access involves entry into a posted radiologically controlled area:
  - a. Media will be processed at the EOF, as appropriate, receiving dosimetry, training, bioassay, waivers and briefings based on established procedural requirements.
    - i. Communications will notify the Security Coordinator prior to proceeding with Site Access.
  - b. Communications in conjunction with Radiological Controls will supervise and escort the media while in posted radiologically controlled areas.

**5.0 ED/ESD Responsibilities**

- a. The ED/ESD will consult with the RAC/Group Leader R&EC, and media will be granted access if the projected dose will not exceed the 500 millirem annual limit including external and internal exposure.
  - For Security driven events, media access to the Site must also be approved by the Local Law Enforcement Agency/Security.
- b. Approve media access to the site if requirements are met.

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**EXHIBIT 15**  
**Technical Support Rep Checklist**

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**I. ACTIVATION**

Initials

**1.0 Activate the Tech Support Rep position.**

- a. Start the Technical Support Representative Log in accordance with EPIP-TMI-.05, "Communications and Record Keeping".
- b. Assign a communicator to communicate on the Technical Functions Line with the communicator in the Technical Support Center (TSC).
  - Instruct the communicator to log telephone conversations in accordance with EPIP-TMI-.05, "Communications and Record Keeping".
- c. Verify that the CRT to the Plant Process computer is being activated in accordance with Exhibit 15A instructions.
- d. Verify that the projection information System is activated.
  - Use instructions posted at the projection unit.
- e. Report your status as activated when asked by the Emergency Preparedness Representative

**II. Tech Support Rep Operations**

**NOTE**

The following steps are not presented in the exact sequence that they are to be performed. It is likely that some steps will have to be performed out of the sequence listed and that some steps will be performed concurrently. Steps that are not applicable for the present situation may be skipped. Other steps may need to be repeated. This exhibit should be referred to periodically to ensure that necessary actions are not missed.

- a. Contact the TSC to determine the following:
  - Operational status of the plant
  - Mitigating activities
    - i. Completed
    - ii. Underway
    - iii. Planned
  - Release information
    - i. Pathway
    - ii. Duration

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- b. Provide the ESD with a summary of the plant status, as obtained from the TSC.
- c. Act as the Point-of-Contact for the BRP Engineering Representative.
  - Keep the BRP Representative informed of plant status and mitigating activities.
- d. Attend ESD Conferences and be prepared to discuss technical issues
  - Core Conditions
  - Barrier status
    - i. RCS
    - ii. Clad
    - iii. Containment
  - Mitigating activities
    - i. In progress
    - ii. Being evaluated
  - What could make the situation worse?
- e. Commence Accident assessment functions by:
  - Monitoring plant parameters
  - Conducting trend analysis of key parameters
  - Display information on Status Boards
    - i. Update information on a routine basis
- f. Review and concur on draft Press Releases
  - Use Exhibit 13, if required.
  - If Press Release is acceptable from a technical point of view, endorse it by initialing the document for ESD approval.
- g. If problems are encountered with communications equipment contact the EOF Communications Coordinator for resolution.
- h. Forward the completed checklist and all other pertinent documentation to the Emergency Preparedness Representative at the end of the event.

Name \_\_\_\_\_ Time: \_\_\_\_\_ Date \_\_\_\_\_  
                     Tech Support Rep.

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**EOF**

**Plant Process Computer Access Instructions**

- \_\_\_\_\_ 1. To put computer on line, verify system is energized or energize by turning on the computer and monitor.
  - a. If the computer and monitor are energized but there is nothing displayed on the monitor, adjust the contrast knob as needed.

**NOTE**

This is for the dedicated line access.

- \_\_\_\_\_ 2. Simultaneously press the following keys ("Shift" and "On Line/Off").
  - a. This may not work on the first attempt - try again.
  - b. If the system does not come on line, access the PPC using the modem instructions in Step 9.
- \_\_\_\_\_ 3. If PPC access is granted, the words "Off Line" at the bottom right hand corner of the screen will disappear.
- \_\_\_\_\_ 4. Press the key marked "GROUP" or any other function key to access the PPC.
- \_\_\_\_\_ 5. Enter the number of the area you wish to access, and press "Execute".
- \_\_\_\_\_ 6. From any menu screen, select the display number to be printed and then press the print button (other functions are per users guide).
- \_\_\_\_\_ 7. To automatically print the first 10 displays in the EOF area, push the EOF print button.
- \_\_\_\_\_ 8. To quit,
  - 8.1 Clear the screen, press "cancel" twice.
  - 8.2 Simultaneously press the following keys ("Shift" and "On Line/Off Line").
  - 8.3 Reduce contrast to eliminate monitor display.

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**Modem Access (Backup)**

9. If the direct access fails, proceed as follows:

9.1 Press the "C" (cell) button.

9.2 Press the "Go" button.

**NOTE**

The modem will automatically dial the following two numbers:  
9-717-948-9114  
9-717-948-9115

9.3 When the numbers are dialed and connected, proceed with Step 4.

10. If PPC access is not successful or problems are encountered with the computer, call 9-717-948-8606 for assistance.

11. To quit, proceed as follows:

11.1 On Aydin Keyboard press CANCEL twice.

11.2 On Aydin Keyboard press and hold down the SHIFT key (either RIGHT or LEFT) and press the On/Off Line key or xmit page key.

**NOTE**

An OFFLINE message may briefly appear in the lower right hand corner.

- 11.3 On modem press the following buttons.

11.3.1 "DISC"

11.3.2 "GO", the modem will display "DISCONNECTED".

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### TMI/NRC Emergency Response Interface Criteria

This is a synopsis of the NRC emergency response process as it applies to TMI.

Upon arrival of the NRC, the ED/ESD should:

- Verify who is the senior NRC person in charge
- Ask the senior NRC person to inform the ED/ESD when the position of Director Site Operations is assumed and whether the responsibility to issue directives is included.
- Request that the NRC keep TMI Management informed of all substantive information exchanges between the NRC and the state.
- Request the NRC provide all DIRECTIVES in writing.

In essence, directives from the NRC must come from the NRC Director (typically, the NRC Chairman) or from the NRC Director of Site Operations (typically, the NRC Regional Administrator). Such advice or directive can only be communicated to the Emergency Director (the Emergency Support Director once the EOF is activated). If a directive order is issued by the NRC Director or Director of Site Operations, the ED/ESD should request written confirmation which spells out the specific nature of the directive.

While NRC advice may be challenged by the ED or ESD, directives must be complied with.

With respect to protective action recommendations for the public, the NRC may either endorse the TMI's recommendation or opt to recommend a different one. The ED/ESD is encouraged to include the NRC and State representatives in the protective action recommendation discussions in order to arrive at a mutually agreeable recommendation. In the event that the NRC opts to recommend a different PAR, they will attempt to resolve their differences with the utility prior to recommendations to the State. Their recommendation, like the utility recommendation, will be considered by the State in the development of a Governor directive.

### SYNOPSIS - NRC EMERGENCY RESPONSE

Revision 2 to NUREG 0728, supplemented by NUREG-0845 and NUREG-1471, describes the manner in which the NRC will respond to an incident and provides criteria for making preplanned response decisions. They provide procedural guidance, describe the functions related to NRC emergency response and define procedures for responding to the following NRC modes of operation.

1. Normal Mode
2. Standby mode
3. Initial Activation
4. Expanded Activation
5. Deactivation

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Each mode defines the scope of NRC activities related to a particular level of emergency response in ascending order of degree of involvement to deactivation. The various modes are characterized as follows:

1. Normal mode - Normal activities designed to maintain readiness.
2. Standby mode - Regional Office activates the Incident Response Center (IRC) with an appropriate staff and NRC Headquarters Operations Center is staffed by a Standby Team.
3. Initial Activation - NRC Operations Center is staffed by a response team, the Regional IRC is fully activated and a Site Team is dispatched under the leadership of the Regional Administrator, normally designated as Director of Site Operations (DSO).
4. Expanded Activation - Focus of NRC response operations is shifted to the site. DSO is designated primary spokesman for the NRC and may be empowered with directive authority by the Chairman of the Nuclear Regulatory Commission.
5. Deactivation - Follow-up activities (e.g., reviews, investigation and recovery operations).

The particular mode assumed by the NRC will be dependent upon Licensee event classification and "independent NRC perception of relative severity of uncertainty of accident conditions".

NRC functions defined in NUREG 0728 which impact directly on the Licensee are:

1. Evaluate Incident and Plant Status

NRC personnel at the site, the Regional Office and the Headquarters will acquire the necessary data to develop and maintain a complete and accurate overview of the evolution and status of the event. This will involve data gathering via ERDS, ENS, HPN, and other FTS 2000 telephones as well as direct communications with the Licensee at the ERF's.

2. Evaluate Licensee Actions

NRC personnel will evaluate Licensee actions to mitigate the consequences of the incident and provide recommendations concerning protective actions for the public.

3. Project Incident Consequences and Plant Status

Based on information and evaluations discussed above, the NRC will develop an independent projection of the likely further course of events.



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## 4. Advise, Assist or Direct Licensee

The NRC may offer advice or assistance to the Licensee during an emergency, or may respond to Licensee requests for advice of assistance. This may involve diagnosis of critical problems, development of proposed remedial courses of action, and proposals to implement additional precautionary measures. The NRC is also prepared to direct that certain actions be taken if, after thorough discussion with the Emergency Director (the Emergency Support Director once the EOF is activated) it is decided that such direction is required. In the event that such action is taken by the NRC Director or the NRC Director of Site Operations, the ED/ESD should request written confirmation which spells out the specific nature of the directive. Directives will be communicated directly to the ED/ESD from the NRC Director (NRC Chairman) or from the NRC Director of Site Operations (DSO), typically the Regional Administrator, once appointed and empowered to do so.

Several important concepts govern the NRC in providing advice, assistance, or direction. They are:

- a. The Licensee is at all times responsible for mitigating the consequences of the incident.
- b. Although the NRC could issue formal orders to the Licensee to take certain measures and to monitor implementation, "... licensee continues to make other key operational decisions and to operate and manage the facility ...".
- c. The NRC must have a single voice when advising or directing the Licensee.
- d. The ED/ESD has the option to accept or challenge NRC advice.

At no time will advice or direction come from both the Director and the DSO and the Licensee will always be kept apprised of who is empowered to exercise authority as the NRC spokesman. All other NRC personnel in contact with Licensee personnel are responsible to make clear that discussions should not be construed as advice or direction but rather as a sharing or gathering of information.

## 5. Inform Public and Monitor Public Information

During emergency situations, the NRC will formulate its own press releases based on information gathered from the Licensee and from NRC personnel. Procedures exist to ensure that press releases are approved by one person. That person may be the Regional Administrator, NRC Chairman, or DSO depending on the current NRC mode of operations. NRC draft press releases will normally be shared with the Licensee; however, this does not imply a request for approval by the Licensee. The intent is to identify issues needing clarification prior to release to avoid confusing or misleading the public.

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### 6. Recommend Protective Actions for the Public

The NRC responsibility during an emergency, as during normal operations, is to ensure that protection of public health and safety is adequate. One aspect of this responsibility is to provide protective action recommendations or advice to offsite authorities. This may take the form of an NRC endorsement of a Licensee protective action recommendation or the NRC may opt to recommend additional protective actions. The NRC is not normally involved in the process of recommending protective actions, however they may get involved if a major problem is identified with the protective actions recommended by the licensee or protective actions undertaken by the state or local government. Additionally NRC involvement may be requested by state or local officials.

### 7. Review, Investigate and Document Response Actions

The scope of this task is not preplanned by the NRC; however, it is apparent that this may require a great deal of interaction between the Licensee and the NRC after-the-fact.

## SYNOPSIS - REGION I SUPPLEMENT

The Region I Incident Response Supplement to NUREG 0845 restates many of the concepts of NUREG 0845 in greater detail as they apply specifically to Region I.

Section I - Concept of Operations delineates general duties and responsibilities and describes the NRC modes of operation. Relative to the authority of the DSO, it states:

"The Director of Site Operations (DSO) supervises/manages all NRC personnel and operations at the site, is the NRC spokesperson, represents the NRC in interactions with other agencies and carries out the authority delegated by the Director of the NRC Executive Team (Chairman).

Delegated authority will include one or more of the following:

(a) authority to recommend actions to the Licensee, (b) authority to direct the Licensee to take specified actions, and (c) authority to recommend actions offsite, including protective measures for the public.

The Chairman of the NRC, by memo dated 4/22/80, indicated the Chairman may delegate authority to the Regional Administrator as DSO, upon transfer of control of NRC actions and resources to the site, to issue orders to a Licensee during an emergency. It is intended that this authority be used as a last resort to mitigate the emergency conditions only if, in the judgement of the NRC, the Licensee has shown it is incapable of controlling the emergency. This authority is valid only in an emergency when the Regional Administrator (or other senior NRC official) is the DSO and specific authorities have been transferred to him by the Chairman or designated alternate".

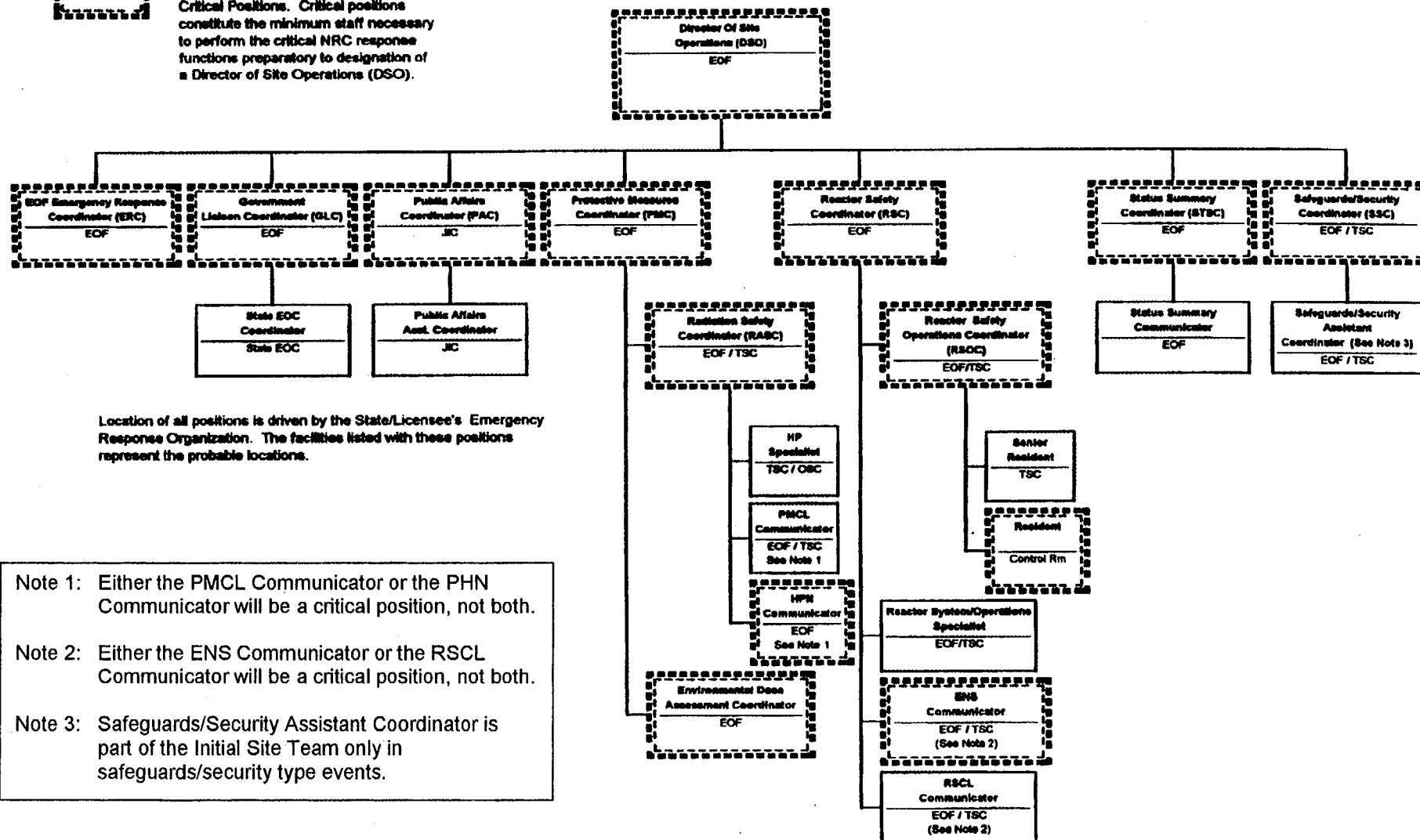
Sections II and III contain detailed procedures specific to Region I and present no new concepts of interest to the Licensee.

The attachment to the synopsis is provided for your information. This attachment depicts the Site Team Organization and is an extract of the NUREG-1471. It defines the number of NRC personnel expected to operate in each facility and shows the lines of communications the NRC expects to use.

EXHIBIT 16



Dashed bordered boxes indicate Critical Positions. Critical positions constitute the minimum staff necessary to perform the critical NRC response functions preparatory to designation of a Director of Site Operations (DSO).



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**EXHIBIT 17**  
**Group Leader - Radiological and Environmental Controls Checklist**

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**I. ACTUATION**

Initials

1.0 Activate the Group Leader – Radiological and Environmental Controls position.

- \_\_\_\_\_ a. Start the Group Leader R & EC log in accordance with EPIP-TMI-.05, Communications and Record Keeping.
- \_\_\_\_\_ b. Turn on the Group Leader R & EC computer to access the Emergency Information Network (e.g., RAC information, or dose projections).
- \_\_\_\_\_ c. Contact the RAC to obtain a status of the situation.

Use list below as a guide, it is not all-inclusive.

- Release path(s)
- Release duration
- In plant radiological conditions
- Samples requested

- \_\_\_\_\_ d. Contact the Environmental Assessment Coordinator (EAC) to obtain a status of the situation.

Use list below as a guide, it is not all-inclusive.

- Field team status
- Weather forecast
- Reuter Stokes

- \_\_\_\_\_ e. Inform the Emergency Preparedness Representative that the Group Leader R & EC position is activated.

**II. OPERATION**

2.0 Perform the following:

**NOTE**

The following steps are not presented in the exact sequence that they are to be performed. It is likely that some steps will have to be performed out of the sequence listed and that some steps will be performed concurrently. Steps that are not applicable for the present situation may be skipped. Other steps may need to be repeated. This exhibit should be referred to periodically to ensure that necessary actions are not missed.

- a. Review dose projection information

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- b. Review field monitoring information
- c. Perform dose assessment
  - Compare dose projections against field monitoring data.
  - Determine if the dose projections are accurate (i.e., Field monitoring team data within a factor of 10 and less than the dose projection).
  - Compare dose projections and field monitoring team data to EPA PAG's.
  - Review weather forecast data for impact on the dose assessment process.
- d. Keep the ESD informed on the following:
  - All radiological issues.
  - All environmental issues.
  - All industrial health issues.
  - All safety issues.
- e. IMMEDIATELY inform the ESD if, after thorough dose assessment, you conclude that EPA Protective Action Guidelines (PAG's) will be exceeded anywhere offsite including OUTSIDE the 10 mile EPZ.
- f. Report any telephone problems to the EOF Communications Coordinator.
- g. Direct Access Control personnel to set up the EOF frisking station.
  - If appropriate, require personnel to frisk prior to entering the EOF.
  - If personnel require decontamination, refer to procedure 6610-ADM-4330.02, Personnel Contamination Monitoring and Decontamination.
- h. Review DRAFT press releases developed for ESD approval to insure accuracy in the radiological information.
  - Use Exhibit 13 for guidance to ensure the releases do not contain the following:
    - a. Technical jargon
    - b. Acronyms
    - c. Dose Projections
    - d. Protective Action Recommendations
  - Correct the press release, as required.
  - Endorse the correct release for ESD approval by initialing.

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- i. Periodically brief the following on current radiological and environmental conditions.
  - ESD
  - NRC
  - State representative (BRP)
  - a. Notify the State (BRP representative) if valid offsite dose projections are  $\geq 25$  REM thyroid dose.
  - b. Inform the State (BRP representative) of any problems with the automated dose projection code.
    - Insure the level of conservatism in the calculation is presented.
- j. Consider the following if, the Training Center is used as the Near-Site JIC and / or the Remote Assembly Area (RAA)
  - Evacuation of these facilities should NOT occur prior to evacuation of the general public.
  - Evacuation orders, for the general public, do NOT automatically apply to the RAA.
  - Relocation of the RAA should be considered if, the projected dose at the facility reaches 4 REM (TEDE) or 40 REM (CDE).
  - If relocated, the RAA and the JIC should be re-established at the EOF.
  - If warranted, provide radiological protection instructions to the RAA Team Leaders.
- k. As necessary, assist the Access Center Coordinator in the completion of the TMI Access Authorization Checklist for NRC personnel requiring access to the site.
  - If additional dosimetry issue support is needed, request the Group Leader – Admin Support call out a Radiological Support Technician.
- l. Forward the following to the Emergency Preparedness Representative
  - Completed Group Leader R & EC checklist
  - Completed Group Leader R & EC log

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2.1 Attend ESD conferences.

a. Discuss dose assessment information

- Dose projections
  - i. Insure the level of conservatism in the calculation is presented.
- Field monitoring team results
- Sample results

b. Provide information concerning Protective Action Recommendations (PAR)

- Appropriate PAR in accordance with Exhibit 8
- When EPA PAG's are exceeded outside 5 mile radius
- When the EPA PAG's are exceeded outside 10 mile EPZ
  - i. Dose projections covering the 10 to 30 mile radius can be found on the Emergency Information Network.
  - ii. Recommend protective actions outside the 10 mile EPZ as follows:
    - a. Expand the evacuation area in 5 mile increments
    - b. Utilize a 360 degree approach
    - c. Expand the area such that EPA PAG's are not expected to be exceeded outside the recommended radius (e.g., If PAG's are expected to be reached at 17 mile radius, the PAR would include the 20 mile radius).

c. Inform the NRC representative of any problems with the automated dose projection code.

- Insure the level of conservatism in the calculation is presented.

Name \_\_\_\_\_ Time: \_\_\_\_\_ Date \_\_\_\_\_  
 Group Leader - Radiological & Environmental Controls

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**Environmental Assessment Coordinator Checklist**

**1.0 Activate the Environmental Assessment Coordinator Position.**

- ☐ a. Start an EAC log in accordance with EPIP-TMI-.05, "Communications and Record Keeping.
- ☐ b. Ensure that the Met/Dose Coordinator position is activated.
- ☐ c. Ensure the Emergency Information Network (EIN) Computer is activated.
- ☐ d. Establish communications with the RAC.
- ☐ e. Report the EAC and Met/Dose Coordinator positions as activated when asked by the Emergency Preparedness Representative.

**2.0 Operations**

**NOTE**

The following steps are not presented in the exact sequence that they are to be performed. It is likely that some steps will have to be performed out of the sequence listed and that some steps will be performed concurrently. Steps that are not applicable for the present situation may be skipped. Other steps may need to be repeated. This exhibit should be referred to periodically to ensure that necessary actions are not missed.

a. Keep the Group Leader R & EC and the RAC informed on the status of the following:

- Field Team measurements
- Reuter Stokes readings
- Meteorological data
- Plume Travel

**NOTE**

The items listed under "a" above are met if EIN is active and displaying proper data.

- Weather forecasts
- Environmental Monitoring sample results (if available)
- Other pertinent information



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- b. Interpret field team data.
- Ensure field team data is entered in the EIN (Onsite/Offsite Teams).
  - Compare field team data to projections.
  - Report results of comparison to the Group Leader R & EC and, as appropriate, to the RAC.

- c. Evaluate Reuter Stokes information.
- Compare Reuter Stoke information to field team data.
  - Report results of comparison to the Group Leader R & EC and, as appropriate, to the RAC.

- d. Ensure weather forecast information is provided to the Group Leader R & EC and to the RAC.

**NOTE**

Be especially sensitive to changes in dispersion at dusk and dawn.

- e. If problems are encountered with the telephones, contact the EOF Communications Coordinator.
- f. As additional personnel are available assign them to the following positions, as needed to help fulfill EAC responsibilities.

- Field Team Coordinator
- Dose Projection Computer Operator
- Radio Communicator
- RAC Communicator

- g. Forward the completed checklist and all other pertinent documentation to the Emergency Preparedness Representative at the end of the event.

Name \_\_\_\_\_ Time: \_\_\_\_\_ Date \_\_\_\_\_  
 Environmental Assessment Coordinator

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### Met/Dose Coordinator

1.0 Activate the Met/Dose Coordinator position.

- \_\_\_\_\_ a. Start a log in accordance with EPIP-TMI-.05, "Communications and Record Keeping"
- \_\_\_\_\_ b. Energize the following, if not already done.
  - EACC Computers
  - EACC Printers
  - EACC radio
- \_\_\_\_\_ i. Perform radio check
- \_\_\_\_\_ c. Deploy Field Monitoring Teams
  - \_\_\_\_\_ • Make team assignments.
  - \_\_\_\_\_ • If EOF access control has been established, inform the access center coordinator that there will be more than one access area open while field monitoring teams are being dispatched.
  - \_\_\_\_\_ • Instruct the field monitoring teams to ensure that there is no unauthorized entry:
    - \_\_\_\_\_ i. Instruct the teams to secure the door upon their departure.
    - \_\_\_\_\_ ii. Instruct them to inform you upon departure.
  - \_\_\_\_\_ • Instruct the team to perform field monitoring per EPIP-TMI-.10, "Onsite/Offsite Radiological/Environmental Monitoring".
- \_\_\_\_\_ d. Access the Emergency Information Network (EIN).
  - \_\_\_\_\_ • If the LAN connection is unavailable the EIN data will not be available and functions of the Reuter/Stokes, Midas, and the meteorology will have to be obtained by alternate means.
- \_\_\_\_\_ e. Obtain present meteorological parameters.
- \_\_\_\_\_ f. Report to the EAC that the Met/Dose Coordinator position is activated.

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2.0 Operations

**NOTE**

The following steps are not presented in the exact sequence that they are to be performed. It is likely that some steps will have to be performed out of the sequence listed and that some steps will be performed concurrently. Steps that are not applicable for the present situation may be skipped. Other steps may need to be repeated. This exhibit should be referred to periodically to ensure that necessary actions are not missed.

\_\_\_\_\_ a. Obtain a current weather forecast by any of the following means:

- From a meteorologist, if available
  - i. Obtain a weather forecast if the meteorologist can provide one over the telephone.
  - ii. Ask the meteorologist to report to the EACC.
- From National Weather Service information found on the LAN or the Internet.
- From the National Weather Service directly using the telephone numbers found in EPIP-TMI-.06.

\_\_\_\_\_ b. Direct the Field Monitoring Efforts

- When the EAC and MET/Dose Coordinator positions are activated and the field monitoring teams are operational, inform the RAC that the EACC is ready to assume responsibility for radiological and environmental monitoring.
  - i. Request the RAC inform the ED assistant that the EACC is operational.
  - ii. Provide the following message to Field Monitoring Teams.

ATTENTION FIELD MONITORING PERSONNEL. THE ENVIRONMENTAL ASSESSMENT COMMAND CENTER IS ACTIVATED AND WILL ASSUME RESPONSIBILITY FOR ALL RADIOLOGICAL AND ENVIRONMENTAL MONITORING AS OF \_\_\_\_\_. ALL TEAMS RESPOND BY CONFIRMING THIS MESSAGE.  
(Time)

- Use MIDAS plume plots and meteorological data to properly position the teams for monitoring duties while keeping their doses ALARA.
  - i. Provide redundant tracking of field team accumulated doses, after field teams reports accumulate 500 mRem of thyroid dose.

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- Direct the Field Teams to perform monitoring activities such as but not limited to:
  - i. Scan to find plume center line
  - ii. Perform dose rate surveys
  - iii. Obtain air samples
- Interpret field team data.
  - i. Ensure field team data is entered in the EIN.
  - ii. Compare field team data to that projected by MIDAS and the RAC dose codes.
  - iii. Report results of comparison to the EAC and, as appropriate, to the RAC.

- \_\_\_\_\_ c. Based on the forecast data meteorological parameters used by the dose projection system are reasonable.
- d. Edit the MIDAS plume plots as necessary.
- e. Keep the EAC informed of changes in the meteorology.
- Verify that the meteorological information appears to be accurate (e.g., the data is not remaining exactly the same over an extended time [30 - 45 minutes], it seems consistent with forecast information).
- f. Using weather forecasts, obtained in Step 2.1, relay the expected trend in dispersion factors and wind direction.

**NOTE**

Be especially sensitive to changes in dispersion at dusk and dawn.

- g. Enter data on the EIN
- As time permits, enter field team data (Onsite & Offsite)
    - i. Field team data is collected using Exhibit 18B.
  - Evaluate the data for consistency.
- h. Forward the completed checklist and all other pertinent documentation to the Emergency Preparedness Representative at the end of the event.

Name \_\_\_\_\_ Time: \_\_\_\_\_ Date \_\_\_\_\_  
                     Met/Dose Coordinator

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**EXHIBIT 18B**

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Field Team Designation: \_\_\_\_\_

Date: \_\_\_\_\_

Location	Time	Open Window E520 (mR/hr)	Average Closed Window E520 (mR/hr) or Frisker (cpm)		
	Time	Sample Type	Net CPM	Air Sampler	
		Iodine		Run Time	Flow Time
		Particulate			
		Smear			
		Noble Gas			

Field Team Designation: \_\_\_\_\_

Date: \_\_\_\_\_

Location	Time	Open Window E520 (mR/hr)	Average Closed Window E520 (mR/hr) or Frisker (cpm)		
	Time	Sample Type	Net CPM	Air Sampler	
		Iodine		Run Time	Flow Time
		Particulate			
		Smear			
		Noble Gas			

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## EXHIBIT 19

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## RAC Line Communicator

## I. ACTIVATION

### 1.0 Activate the RAC Line Communicator Position.

- a. Turn on the Group Leader Radiological and Environment Controls computer and access the Emergency Information Network, if not already completed.
- b. Establish communications with the RAC by manning the Radiological Line.
  - Dial "22" on the ML-8000 System.
- c. Establish a Telephone Communications Logsheet in accordance with EPIP-TMI-.05, "Communications and Record Keeping".
- d. Report your status as activated when asked by the Emergency Preparedness Representative.

## II. RAC LINE COMMUNICATOR OPERATIONAL CHECKLIST

**2.0 Assist the Group Leader Radiological and Environmental Controls as necessary.**

- a. Forward the completed checklist and all logs to the Emergency Preparedness Representative at the end of the event.

Name \_\_\_\_\_ Time: \_\_\_\_\_ Date \_\_\_\_\_

## RAC Line Communicator

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## EXHIBIT 20

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### Group Leader Admin Support

#### I. ACTIVATION

##### Initial

#### 1.0 Activate the Group Leader Admin Support Function

- a. Begin the Group Leader - Administrative Support Log in accordance with EPIP-TMI-.05, "Communications and Record Keeping".
- b. Report your status as activated to the Emergency Preparedness Representative.

#### II. GROUP LEADER - ADMIN SUPPORT OPERATIONAL CHECKLIST

##### NOTE

The following steps are not presented in the exact sequence that they are to be performed. It is likely that some steps will have to be performed out of the sequence listed and that some steps will be performed concurrently. Steps that are not applicable for the present situation may be skipped. Other steps may need to be repeated. This exhibit should be referred to periodically to ensure that necessary actions are not missed.

#### 2.0 Implement EOF Access Control in accordance with Exhibit 6.

- a. If an individual is not available to implement Exhibit 6, proceed as follows:

- Insure the door is locked.
- Display a sign stating "Ring doorbell for facility access".

#### 2.1 Determine, as necessary, where the following services can be performed or obtained.

##### a. General Administration

- Word processing
- Typing pool
- Reproduction

##### b. Transportation

- Helicopter services  
(Refer to EPIP-TMI-.06)
- Vans
- Buses
- Automobiles
- Shuttle service

	<p style="text-align: center;"><b>TMI - Unit 1 Emergency Plan Implementing Document</b></p>	<p>Number</p> <p style="text-align: center;"><b>EPIP-TMI-.27</b></p>
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- c. Personnel Administration and Accommodations
  - Personnel processing
    - i) Registration
    - ii) Indoctrination
    - iii) Training
    - iv) Security badging
  - Lodging
  - Food
- d. Outside Plant Support
  - Trailer setup
  - Janitorial Service
  - Telephones
- e. If problems are encountered with the telephones, contact the EOF Communications Coordinator.
- f. Process personnel requiring site access by implementing Exhibit 7, "TMI Access Authorization".
  - Ensure a Radiological Support Technician is called out to activate the dosimetry issue function at the EOF.
- g. Assume the duties as the TMI Point of Contact for INPO.
- h. Using Exhibit 21, develop a watch-bill for the Emergency Support Organization that will support the emergency on a 24 hour / day basis.
  - Determine from the ESD when he wants the first shift change to occur.
    - i. The time should be far enough in the future to give backup duty roster members time enough to get some rest before filling the second shift.
  - Use a 12 hour shift rotation.
  - Determine from each watch station the person that is presently filling that duty roster position.
    - i. List the person in the first shift position on Exhibit 21.
  - Determine alternate duty roster members.
    - i. Identify backup duty roster members already at the EOF.



	<p style="text-align: center;">TMI - Unit 1 Emergency Plan Implementing Document</p>	<p>Number</p> <p style="text-align: center;"><b>EPIP-TMI-.27</b></p>
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- ii. Using the Emergency Support Organization Duty Roster and telephone listings from the glass case next to the nametag bulletin board, call other duty roster members to determine their availability.
    - Fill in the second shift using the available backup duty roster members.
    - Pass out copies of each group's watch-bill to that group.
    - Have the ESD announce when the shift rotation will occur.
  - i. Call out additional personnel as required.
- 2.2 Contact the Emergency Director Assistant to obtain the status of Protected Area Accountability and Site Evacuation.
  - a. Inform the ESD of the status.
  - b. If informed by the Emergency Assembly Area Coordinator that the EOF will be used as the Remote Assembly Area.
    - Prepare the EOF to receive site evacuees in accordance with Exhibit 22.
- 2.3 Attend ESD conferences and be prepared to discuss information concerning the following:
  - NRC Incident Response Team
  - Status of Accountability
  - Status of Site Evacuation
    - i) Monitoring status
    - ii) Decontamination status
  - Other Agencies
  - Logistical information
- 2.4 Forward the completed checklist and all logs to the Emergency Preparedness Representative at the end of the event.

Name \_\_\_\_\_ Time: \_\_\_\_\_ Date \_\_\_\_\_

Group Leader - Admin Support

<div style="text-align: center;"> <b>TMI - Unit 1</b>  <b>Emergency Plan</b>  <b>Implementing Document</b> </div>		Number  <b>EPIP-TMI-.27</b>
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**EXHIBIT 21**  
**Emergency Shift Schedule**

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DATE: \_\_\_\_\_

GROUP: \_\_\_\_\_

Shift 1      Start \_\_\_\_\_ hours      End \_\_\_\_\_ hours  
 Shift 2      Start \_\_\_\_\_ hours      End \_\_\_\_\_ hours

**List duty roster positions for your group including phone talkers/communicators being used.**

Position # -	Name -	Name -
Home Phone Number		
Work Phone Number		
Beeper Number		
Position # -	Name -	Name -
Home Phone Number		
Work Phone Number		
Beeper Number		
Position # -	Name -	Name -
Home Phone Number		
Work Phone Number		
Beeper Number		
Position # -	Name -	Name -
Home Phone Number		
Work Phone Number		
Beeper Number		
Position # -	Name -	Name -
Home Phone Number		
Work Phone Number		
Beeper Number		
Position # -	Name -	Name -
Home Phone Number		
Work Phone Number		
Beeper Number		
Position # -	Name -	Name -
Home Phone Number		
Work Phone Number		
Beeper Number		

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## EXHIBIT 22

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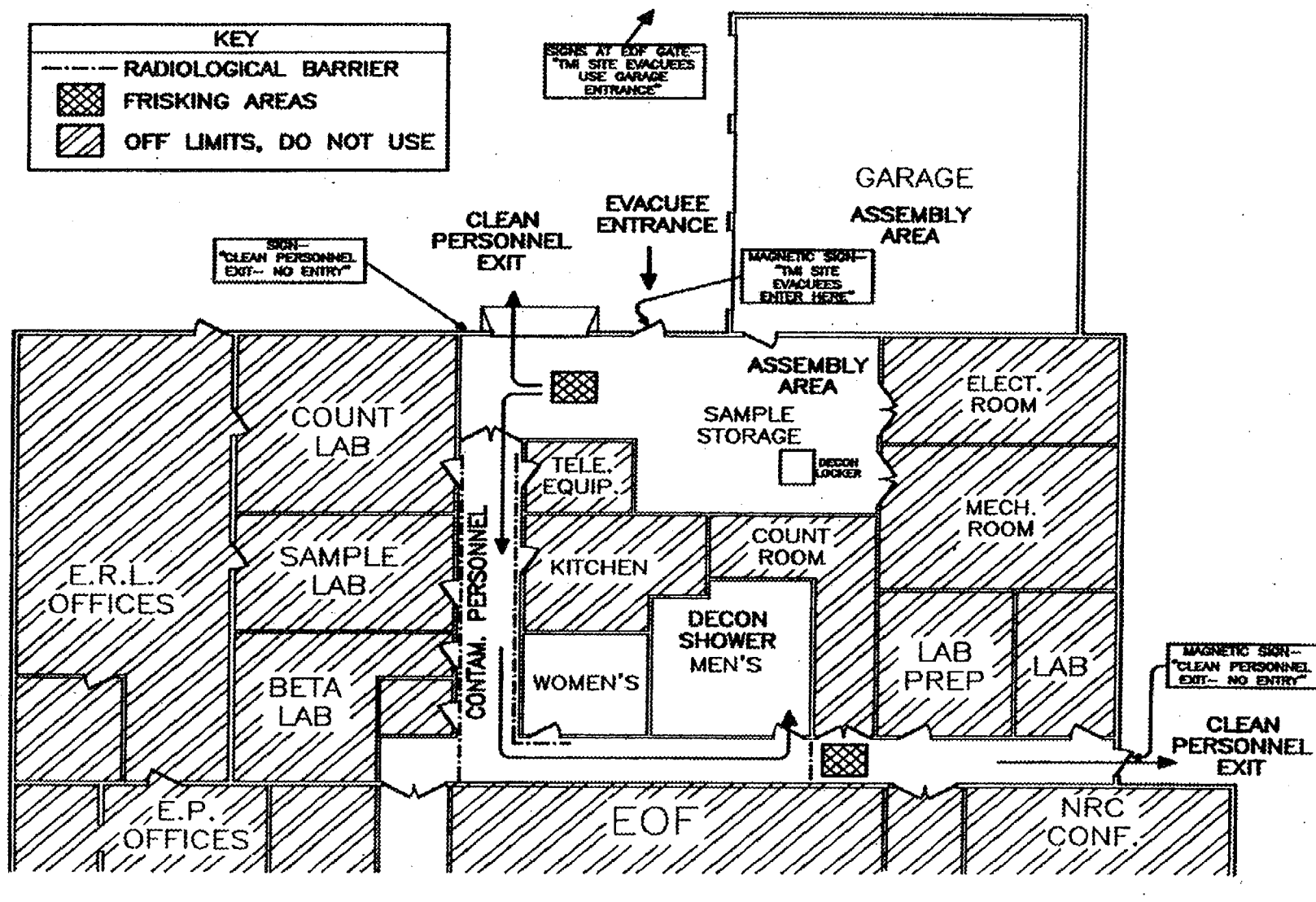
### EOF Set Up for Personnel Monitoring and Decon

#### NOTE

These steps may be performed concurrently.

- 1.0 Obtain the signs from the decon locker and post them as follows (see Exhibit 9 of EPIP-TMI-.36):
  - Post a magnetic "TMI Site Evacuees Enter Here" sign on the outside of the door to the sample storage area.
  - Post a "Clean Personnel Exit - No Entry" sign outside the small roll-up door to the sample storage area.
  - Post 2 "TMI Site Evacuees Use Garage Entrance" signs on orange safety cones and place them at the EOF gate.
  - Post a magnetic "Clean Personnel Exit - No Entry" sign outside the door at the front of the EOF near the NRC Conference Room.
- 2.0 Set up a frisking area in the sample storage areas as indicated on Exhibit 9 of EPIP-TMI-.36.
- 3.0 Erect radiological barriers as shown on Exhibit 9 of EPIP-TMI-.36.
- 4.0 Take the following personnel decon supplies from the decon locker to the men's room.
  - Paper towels
  - Waterless hand cleaner
  - Wash basin
  - Bath soap
  - Shampoo
  - Scrub Brushes
  - Nail Clippers
  - Barber scissors
  - Nasal swabs
  - Disposable PC's
  - Masking tape
  - Poly bags
  - Frisker
  - Step off pad
  - Procedure 6610-ADM-4330.02

EXHIBIT 22



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**EXHIBIT 23**  
**EOF Communications Coordinator**

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**I. ACTIVATION**

**1.0 Activate the EOF Communications Coordinator position.**

- a. Synchronize the EOF clock, Admin Room clock and the ESD conference room clock with the Control Room clock.
  - Dial 8070 (2070 for drills) and ask the ED Assistant for the Control Room clock time.
- b. Activate the Rayland Public Address System
  - Depress the black power button.
  - Ensure the red power indicator light is solid red.
  - Test the PA system by depressing the red signal button located on the ≈ microphone. An alert tone should be heard. (Note: If the red power light or PA test does not work, verify the unit is plugged in.)
- c. Report your status as activated when asked by the Emergency Preparedness Representative.

**II. EOF Communications Coordinator Operational Checklist.**

**NOTE**

The following steps are not presented in the exact sequence that they are to be performed. It is likely that some steps will have to be performed out of the sequence listed and that some steps will be performed concurrently. Steps that are not applicable for the present situation may be skipped. Other steps may need to be repeated. This exhibit should be referred to periodically to ensure that necessary actions are not missed.

**2.0 Maintain an EOF Status Board with the following information, as a minimum, using the overhead projector in the front of the room.**

- Time when EOF is activated
  - Emergency Classification Level
  - Major changes in plant status
- a. Call in additional personnel if requested to do so by the Emergency Preparedness Representative.
    - Obtain the positions that need to be filled from the Emergency Preparedness Representative.
    - Use the Emergency Support Organization Duty Roster and telephone listings from the notebook at the communications table.

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- b. If the ESD informs you that he has assumed the responsibility for "approving and directing official notifications to off-site agencies", perform the following:
  - Contact the ECC Communications Coordinator in the Shift Manager's Office (ECC) to receive a turnover.
    - i. Use EPIP-TMI-.06, Additional Assistance and Notification to obtain phone numbers.
  - Make notifications to offsite agencies in accordance with Exhibit 24, Offsite Notifications, using the message designated and approved by the ESD.
- c. Coordinate the procurement of outside resources (e.g., Technical assistance, manpower, equipment, etc.) with the Group Leader Admin Support.
  - If requested to procure an outside resource, contact the Group Leader Admin Support for assistance.
- d. If problems are encountered with the Emergency Telephones
  - Contact the ECC Communications Coordinator in the Shift Manager's Office (ECC).
    - i. Use EPIP-TMI-.06, Additional Assistance and Notification, to obtain phone numbers.
  - Provide the name of the telephone circuit and a brief description of the problem.
- 2.1 Forward the completed checklist and any other documentation to the Emergency Preparedness Representative at the end of the event.

Name \_\_\_\_\_ Time: \_\_\_\_\_ Date \_\_\_\_\_  
                     EOF Communications Coordinator

**EXHIBIT 24**  
**Off Site Notification Checklist**

Initial in the box following the action for the level of emergency declared, unless a check is requested.

ACTION	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY	CLOSE OUT EMERGENCY
Obtain an Emergency Report Form, Part 1 and 2, from the Emergency Support Director					
Perform 15 minute notifications					
Confirm Dial tone on Notification line					
Dial "91"					
As the agencies answer, state, "This is Three Mile Island Nuclear Station. Stand by for an emergency message."					
Ask if each agency is on the line. [PEMA, are you on the line? Dauphin County?, etc.] Check when on line	PEMA Dauphin Cumberland Lancaster Lebanon York	PEMA Dauphin Cumberland Lancaster Lebanon York	PEMA Dauphin Cumberland Lancaster Lebanon York	PEMA Dauphin Cumberland Lancaster Lebanon York	PEMA Dauphin Cumberland Lancaster Lebanon York
Cancel the ring tone by flashing the hook switch twice.					
If one or more agencies do not answer promptly, get another person, such as the EP Representative, to perform a <b>parallel notification</b> using any telephone with an out side connection.					
Direct this person to log the <b>Name/Dispatcher Number</b> of the person contacted and the <b>Time</b> the notification was completed.					
State, "Please stay on the line after the following message to provide a name or dispatcher number and to confirm receipt."					
Read Emergency Report Form, Part 1					
RECORD TIME Notification completed					

EXHIBIT 24

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ACTION	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY	CLOSE OUT EMERGENCY
Request receipt confirmation. (NAME or DISPATCHER number) <div>             PEMA              Dauphin              Cumberland              Lancaster              Lebanon              York           </div>	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>
Flash the hook switch until a dial tone is heard <u>before</u> hanging up.					
If <u>not</u> already notified in parallel by another person, <b>Notify remaining agencies</b> that did not receive the information by pre-set conference call.					
Log receipt confirmation by recording name/dispatcher number and time. <div>             PEMA              Time              Dauphin              Time              Cumberland              Time              Lancaster              Time              Lebanon              Time              York              Time           </div>	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>



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ACTION	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY	CLOSE OUT EMERGENCY
Contact the PECO Energy Resource Operator					
Dial 9-1-215-841-5141					
Read Emergency Report Form, Part 2					
Record the following for the person contacted					
Name Time	_____ _____	_____ _____	_____ _____	_____ _____	
Contact ANI at 1(860) 561-3433					
Read Emergency Report Form, Part 2					
Provide call back number (717) _____ (Insert number)					
Point of Contact is <b>Emergency Support Director Assistant</b>					
Inform the Emergency Support Director Assistant when all <b>contacts</b> have been <b>completed</b> .					
<b>EVENT TERMINATION</b> notifications					
NRC Inspector, contacted above.					_____ _____
Name Time					
York Haven Power Station, contacted above.					_____ _____
Name Time					
System Dispatcher, contacted above.					_____ _____
Name Time					
Forward this <b>CHECKLIST</b> and ALL associated documentation to the Emergency Preparedness Representative					