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03/17/82

THREE MILE ISLAND NUCLEAR STATION
UNIT NO. 2 EMERGENCY PLAN IMPLEMENTING PROCEDURE 1054.16
CONTAMINATED INJURIES/RADIATION OVEREXPOSURE

Table of Effective Pages

<u>Page</u>	<u>Revision</u>	<u>Page</u>	<u>Revision</u>	<u>Page</u>	<u>Revision</u>	<u>Page</u>	<u>Revision</u>
1.0	1						
2.0	1						
3.0	1						
4.0	1						
5.0	1						
6.0	1						

FOR INFORMATION ONLY

Unit 2 Staff recommends Approval

Approval [Signature]
Organizant Dept. Head

Date 3/11/82

Unit 2 PORC Recommends Approval

[Signature]
Chairman of PORC

Date 3/15/82

Unit 2 Superintendent Approval

[Signature]

Date 3/15/82

Mgr QA Approval

NA Date _____

NRC Approval

NA Date _____

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THREE MILE ISLAND NUCLEAR STATION
UNIT 2 EMERGENCY PLAN IMPLEMENTING PROCEDURE 1054.16
CONTAMINATED INJURIES/RADIATION OVEREXPOSURE

1.0 PURPOSE

To define the conditions where person(s) injured while working at Three Mile Island and exposed to ionizing radiation and/or contaminated with radioactive material in excess of guidelines, will be removed from site to Milton S. Hershey Medical Center (HMC), Hershey, PA. To further define the steps involved in notifying HMC to allow time for preparation of the Radiation Emergency Area (REA) to receive the injured person(s). To provide for several levels of treatment based on the severity of the injury(s) and the degree of exposure/contamination involved. The Radiological Controls Foreman/RAC or Shift Foreman are responsible for implementation of this procedure.

2.0 ATTACHMENTS

None

3.0 EMERGENCY ACTION LEVELS

- 3.1 Person(s) are injured in a radiologically controlled area and have a contaminated injury that can be treated on-site and released.
- 3.2 Person(s) are injured in a radiologically controlled area and must be transported off-site for medical observation/treatment.
- 3.3 Person(s) are injured or ill and have radioactive contamination on their clothing or skin and must be transported off-site for medical observation/treatment.
- 3.4 Person(s) have received radiation dose in excess of 25 rem.

Call Security Central Alarm Station at Extension 8039, 8040 to inform them of off-site medical assistance arrival so that they can direct off-site medical personnel to the injured person. The Shift Foreman shall initiate the requirements of EPIP 1054.19 "Emergency Dosimetry/Security Badge Issuance"

d. Declare an Unusual Event, if appropriate, in accordance with EPIP 1054.1 and perform actions as required in step 4.5 below.

4.1.2 The Shift Foreman shall direct personnel with minor injuries, not requiring more medical attention than site first aid, to the decon facility for decontamination and treatment of the injury, per step 4.2.

4.2 The Shift Foreman shall, with concurrence of the available site medical personnel, have the victim transported outside of the controlled area, if the injury and contamination levels will allow movement, for further treatment and surveys.

4.3 If the injury allows, Radiological Controls personnel shall assess the degree of radiation exposure and/or radioactive contamination prior to removal of the individual from site.

NOTE: All injuries occurring in a radiologically controlled area shall be monitored for contamination as soon as medical and other conditions permit.

4.4 The Shift Foreman shall, with concurrence of the available site medical staff, order the injured person(s) off-site for more extensive medical treatment.

NOTE: By agreement with the Milton S. Hershey Medical Center (HMC) Hershey, PA, all contaminated persons with injuries too severe to be treated on-site shall be sent to HMC for decontamination and treatment.

___ 4.5 The Shift Supervisor shall perform the following steps in the event an injured person(s) is to be transported to HMC.

___ 4.5.1 The Shift Foreman shall assume the duties of the Emergency Director.

___ 4.5.2 The Emergency Director shall implement the requirements of Emergency Plan Implementing Procedure 1054.1 "Unusual Event", and request ambulance service from the Dauphin County Emergency Operations Center, as needed, for offsite assistance.

___ 4.5.3 The Emergency Director shall call, or have the Shift Foreman call, Charge Nurse, Emergency Room, HMC at 717-334-8333, and using the following message, alert HMC of the arrival of the injured victim:

THIS IS _____ AT THREE MILE ISLAND
(NAME/TITLE)
ACTING AS (FOR) THE EMERGENCY DIRECTOR. TMI IS
PREPARING TO TRANSFER A POTENTIALLY CONTAMI-
NATED VICTIM WITH INJURIES TO HERSHEY MEDICAL
CENTER. THE RADIATION EMERGENCY AREA SHOULD BE
PREPARED TO RECEIVE THIS VICTIM. PLEASE

ACKNOWLEDGE AND VERIFY THIS MESSAGE BY CALLING 948-8066 (8067/8068) AND ASK FOR THE EMERGENCY DIRECTOR.

4.5.4 The Emergency Director, or his designee, shall then:

- *briefly describe the injury(s)
- *give the name of the victim(s)
- *report levels of contamination, if known
- *request special equipment required
- *estimate time of arrival at HMC
- *describe method of transportation
- *estimate expected dose rate to HMC Staff personnel based on dose rate taken 12 inches above the victim
- *record the name and title of the person receiving the notification call, and the time notified

4.5.5 Person(s) decontaminated shall require whole body counting in accordance with RCP 4105 (monitoring for personnel contamination).

4.6 The Emergency Director shall require transportation of person(s) with acute radiation exposures in excess of 25 REM whole body to HMC. In this case, the victim(s) can be transported in a conventional manner and will not require activation of the Emergency Plan.

- 4.7 The Emergency Director and/or RAC may request assistance in evaluation of radiation exposures in excess of 25 REM from various Radiological Controls Specialists: (Porter Consultants, Radiation Management Corporation, etc).
- 4.8 The Emergency Director and Radiological Assessment Coordinator shall restrict personnel who have received internal contamination from further work in Airborne Radioactivity Areas, until evaluation is made per RCP 4238 (Bioassay Programs). Complete and direct the personnel for whole body counting, in accordance with RCP 4106, for evaluation of Body Burdens.

5.0 FINAL CONDITION

- 5.1 The person(s) has been decontaminated, treated for injury and released for work by the Site Medical Staff.
- 5.2 The person(s) has been entered into the bioassay program for whole body counting per RCP 4106.
- 5.3 The victim(s) has been transported to AMC and is receiving treatment.
- 5.4 The Radiation Emergency Area and ambulance(s) used for transportation of the victim(s) has been surveyed and cleared or decontaminated and cleared.
- 5.5 the Unusual Event has been closed out by the Emergency Director.

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THREE MILE ISLAND NUCLEAR STATION
UNIT NO. 2 EMERGENCY PLAN IMPLEMENTING PROCEDURE 1054.21
EMERGENCY REPAIR/OPERATIONS

Table of Effective Pages

<u>Page</u>	<u>Revision</u>	<u>Page</u>	<u>Revision</u>	<u>Page</u>	<u>Revision</u>	<u>Page</u>	<u>Revision</u>
1.0	1						
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Unit 2 Staff Recommendations Approval

Approval [Signature]
Cognizant Dept. Head

Date 11/15/82

Unit 2 PORC Recommends Approval

[Signature]
Chairman of PORC

Date 11/17/82

Unit 2 Superintendent Approval

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THREE MILE ISLAND NUCLEAR STATION
UNIT NO. 2 EMERGENCY PLAN IMPLEMENTING PROCEDURE 1054.21
EMERGENCY REPAIR/OPERATIONS

1.0 PURPOSE

To provide guidance for the formation and direction of repair parties. The Emergency Repair/Operations Team Leader is responsible for implementing this procedure when directed by the Emergency Maintenance Coordinator.

2.0 ATTACHMENTS

No attachments.

3.0 EMERGENCY ACTION LEVELS

- 3.1 This procedure shall be implemented when it becomes necessary to:
- Manipulate or repair equipment in order to substantially reduce in-plant radiation levels or radiation exposure to the general public.
 - To perform equipment repairs and operate plant equipment to stabilize plant conditions.
 - To perform other repair actions deemed necessary and authorized by the Emergency Director.
 - Have the Emergency Maintenance Coordinator assemble an Emergency Repair/Operations Team(s) and appoint a team leader.

NOTE: Repair teams should consist of at least two (2) volunteers with the necessary qualifications to perform the assigned operation (Operations, maintenance, etc.)

Initials

4.0 EMERGENCY ACTIONS

- ___ 4.1 When necessary, request radiological controls support (team monitor) from the Operations Support Center Coordinator.
- ___ 4.2 Designate a Communicator; maintain communications and record keeping per procedure 1054.5.
- ___ 4.3 When necessary, direct team member to obtain any safety equipment that may be required, including portable radio(s).
- ___ 4.4 Ensure that all equipment to be used by the team is functional. Perform a radio check on the designated frequency.
- ___ 4.5 If radiological hazards exist, ensure that the team is briefed in accordance with Attachment I of "In-Plant Radiological Controls During Emergencies" (1054.9) by the Radiological Controls Coordinator or his designee.
- ___ 4.6 If radiological hazards exist, ensure that each team is equipped with the appropriate monitoring equipment per Attachment II of "In-Plant Radiological Controls During Emergencies" (1054.9).
- ___ 4.7 Ensure that communications, at predetermined intervals, are maintained with the Emergency Maintenance Coordinator via M and I system, plant page or radio.
- ___ 4.8 Proceed to the designated area with Radiation Survey meter turned on, using Radiological Control precautions.
- ___ 4.9 When appropriate, and when the repair team's operations are completed, conduct a debriefing in accordance with "In-Plant Radiological Controls During Emergencies" (1054.9), Attachment I.

Initials

5.0 FINAL CONDITIONS

____ 5.1 The emergency repairs have been completed and all normal maintenance, operations and radiological procedures are in effect.

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