

Title

Personnel/Vehicle Monitoring and Decontamination

Revision No.

1

Applicability/Scope

All TMI-2 Personnel

Responsible Office

6400

 This document is important to safety ☒ Yes ☐ No

Effective Date

08/19/83

## List of Effective Pages

Page	Revision	Page	Revision	Page	Revision	Page	Revision
1.0	1						
2.0	1						
3.0	1						
4.0	1						
5.0	1						
6.0	1						
7.0	1						
8.0	1						
9.0	1						

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	Signature	Concurring Organizational Element	Date
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Approved by	<i>[Signature]</i>	Site Operations - Director	7/25/83
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FORM 1000 ADM-1218 01-1 (11/82)

THREE MILE ISLAND NUCLEAR STATION  
UNIT 2 EMERGENCY PLANNING PROCEDURE 1054.20  
PERSONNEL/VEHICLE MONITORING AND DECONTAMINATION

1.0 PURPOSE

The purpose of this procedure is to provide guidance for the monitoring and decontamination of personnel and vehicles that have exited contaminated or possibly contaminated areas.

The Radiological Assessment Coordinator or his designee is responsible for the implementation of this procedure.

2.0 ATTACHMENTS

- 2.1 Attachment I - Monitoring Team Leader Checklist
- 2.2 Attachment II - Personnel Contamination Report
- 2.3 Attachment III - Vehicle Contamination Report
- 2.4 Attachment IV - Checklist for Decontamination Team Leader

3.0 EMERGENCY ACTION LEVELS

3.1 This procedure will be implemented by the Radiological Assessment Coordinator when:

- 3.1.1 An evacuation has been ordered and personnel or vehicle are, or suspected to be contaminated.
- 3.1.2 As directed by the Emergency Director.

4.0 EMERGENCY ACTION

- 4.1 The Radiological Assessment Coordinator will determine the location to be used for personnel/vehicle monitoring and vehicle decontamination (Normally the Middletown or 500 Kv Substation dependent on plume direction). Contaminated personnel are sent from the monitoring location to Crawford Station after monitoring.

- 4.2 To the extent that personnel are available, assign one team leader each for the personnel and vehicle monitoring teams and one team leader for the vehicle decontamination team. Assign one team leader for the personnel decon team to proceed to the AEOF (Crawford Station).
- 4.3 Instruct the team leaders that they are responsible for completing the actions listed in their respective attachments.
  - 4.3.1 Vehicle Monitoring Team Leader - Attachments I, III, and IV
  - 4.3.2 Vehicle Decontamination Team Leader - Attachments III, and IV
  - 4.3.3 Personnel Monitoring Team Leader - Attachments I and II
  - 4.3.4 Personnel Decontamination Team Leader - Attachment II
- 4.4 Direct the team leaders to implement their respective attachments.
- 4.5 Assign a sufficient number of qualified personnel to each team to perform the designated task.
- 4.6 When informed by the team leader(s) that the personnel and vehicle monitoring team(s) are ready for operation:
  - 4.6.1 Assign a team member to maintain communications and record keeping per procedure 1054.5.
  - 4.6.2 Instruct the team leader that personnel monitoring will be in accordance with Unit 2 Radiological Controls Procedure RCP 4170.
  - 4.6.3 Ensure that a communication equipment check is performed.

— 4.7 When informed by the team leader that the decontamination team is ready for operation:

4.7.1 Brief the teams on their interaction while performing their various duties.

— 4.8 Ensure transportation is available for the teams.

— 4.9 Dispatch the teams to the designated monitoring/decontamination location.

— 4.10 Dial 9-911 and request a fire truck be sent to the designated vehicle decontamination site for washdown of vehicles.

#### 5.0 FINAL CONDITION

— 5.1 Teams are on station providing personnel/vehicle monitoring and decontamination.

— 5.2 Decontaminated individuals are standing by at Crawford Station, dismissed or back at their work locations.

— 5.3 The Radiological Assessment Coordinator has been notified of all individuals who could not be decontaminated.

— 5.4 Decontaminated vehicles are returned to service. Contaminated vehicles have been impounded and roped off.

ATTACHMENT I

MONITORING TEAM LEADER CHECKLIST

The personnel and vehicle monitoring team leader(s) are responsible for carrying out the actions in this attachment.

- \_\_\_ 1. Procure a radio from the locker in the Unit 2 Processing Center (one radio should suffice for both personnel and vehicle teams as they are dispatched to the same location).
- \_\_\_ 2. Procure an Emergency Monitoring Kit and Protective Clothing from the Emergency Kit Storage Locker in Warehouse 3.
- \_\_\_ 3. Perform an operational check of the communications equipment.
- \_\_\_ 4. Assemble with the monitoring team members for a briefing with the Radiological Assessment Coordinator or his designee.
- \_\_\_ 5. Proceed with the monitoring team to the designated site and report by radio to the Radiological Assessment Coordinator or his designee.
- \_\_\_ 6. Assign personnel as personnel monitors and vehicle monitors as applicable.
- \_\_\_ 7. Direct the Communicator/Record Keeper to complete Attachment II for each person monitored or Attachment III for each vehicle monitored.
- \_\_\_ 8. Ensure that all persons with contamination greater than 100 cpm above background with an RM-14/HP210 (or equivalent), measured at 1/2 inch, report to the decontamination area with Attachment II filled out. The Monitoring Team leader shall notify the RAC and request that the RAC notify the AEOF of the number of contaminated individuals and the estimated time of arrival at the AEOF.
- \_\_\_ 9. Ensure that the contamination levels are documented for each individual and vehicle, before decontamination.

ATTACHMENT I (Cont'd)

- \_\_\_\_ 10. Direct that vehicles found to have contamination levels greater than 100 cpm above background with an RM-14/HP210 (or equivalent), measured at 1/2", or greater than 500 dpm/100 cm<sup>2</sup> smearable, or greater than 0.1 mr/hr, be taken to the decontamination team leader for decontamination and complete Attachment III.
- \_\_\_\_ 11. Direct the team member to have each contaminated individual/vehicle take Attachments II and III to decon area and give to decon team.
- \_\_\_\_ 12. If after successive attempts to decontaminate an individual, levels cannot be reduced below 100 cpm above background, direct the communicator to contact the Radiological Assessment Coordinator and request further instructions.
- \_\_\_\_ 13. If after successive attempts to decontaminate a vehicle, levels cannot be reduced below 100 cpm above background on RM-14 with HP-210 probe or equivalent (at 1/2 inch) detain the vehicle for additional evaluation and possible additional decontamination.
- \_\_\_\_ 14. Periodically perform background surveys to ensure that background has not increased significantly.

\_\_\_\_\_  
Monitoring Team Leader

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



**GPU Nuclear**

## Personnel Contamination Report

- ☐
- TMI-1
- 
- ☐
- TMI-2
- 
- ☐
- Oyster Creek

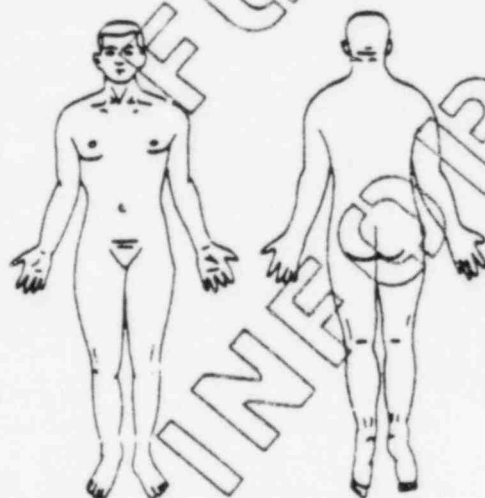
Name	Time	RIR, UIR No
Dept.	Supervisor	Date
		SS No
		RWP No.

Describe cause of contamination

Describe how contamination could have been prevented

**SURVEY DATA**By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Inst. \_\_\_\_\_  
SignatureMethod of Decon: ☐ Soap & Water ☐ Detergent  
☐ Potassium Permanganate RC Supv \_\_\_\_\_ Medical Rep \_\_\_\_\_  
☐ Other \_\_\_\_\_ RC Supv \_\_\_\_\_ Medical Rep \_\_\_\_\_

Location of contamination to be designated numerically below: Use additional sheets if necessary

**SURVEY RESULTS**

Initial	Decon 1	Decon 2	Decon 3
1			
2			
3			
4			
5			
6			

**WBC RESULTS (IN NCI)**

WBC Operator Signature \_\_\_\_\_

I have been informed of the results of my decontamination and any questions concerning this matter have been explained to me.

Reviewed by:

Rad Con Foreman: GRCS

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

Individual \_\_\_\_\_

RAD Engineering \_\_\_\_\_

Mgr Rad Con Mgr RTS \_\_\_\_\_

If medical personnel assistance is required for decontamination, his/her signature is required on contamination report.

ATTACHMENT III

Make \_\_\_\_\_ Model \_\_\_\_\_ License No. \_\_\_\_\_  
Color \_\_\_\_\_ Owner \_\_\_\_\_

[illegible]

NOTE: Pay close attention to air cleaner, grille, tires, and roof for potential contamination.

: Sketch of Contaminated Areas (if needed)



ATTACHMENT IV

"DECONTAMINATION TEAM LEADER CHECKLIST"

The decontamination leader is responsible for carrying out the action items in this attachment.

- \_\_\_ 1. Procure sufficient decontamination aids for vehicle decontamination.
  - a. Absorbent towels
  - b. Detergent
  - c. Scrub brushes

NOTE: Personnel decon equipment is located at the AEOF (Crawford Station). Instructions for activation of the AEOF Decon Facility are found in EPIP 1054.32.

- \_\_\_ 2. Assemble with the decontamination team members for a briefing with the Radiological Assessment Coordinator or his designee.
- \_\_\_ 3. Proceed with the decontamination team to the designated decontamination site.
- \_\_\_ 4. Upon arrival at the site, designate the area to be used for decontamination activities.

NOTE: Consideration should be given to impoundment of vehicles that cannot be decontaminated by means that do not produce large quantities of run off (e.g., wipe down with towels, etc.) if run off cannot be controlled or contained.

- \_\_\_ 5. With assistance from the Fire Department personnel direct the setup of the vehicle decontamination facility.
- \_\_\_ 6. Assign team members for personnel/vehicle decontamination.  
Personnel decon will be accomplished in accordance with RCP 4170.

ATTACHMENT IV (Cont'd)

- \_\_\_\_ 7. Direct the team members in their decontamination duties and ensure they receive Attachment II and III.
- \_\_\_\_ 8. Ensure that, after each decontamination attempt, each vehicle is surveyed and the results recorded and filed upon completion.
- \_\_\_\_ 9. Direct the Communicator/Record Keeper to retain Attachment II for each individual decontaminated.

\_\_\_\_\_  
Decontamination Team Leader      Date      Time

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ONLY