

THREE MILE ISLAND NUCLEAR STATION
UNIT NO. 1 EMERGENCY PLANNING PROCEDURE 1004.20
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 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 are 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/500 Kv Substation.) Contaminated personnel are sent from the monitoring location to Crawford Station after monitoring.

- ____ 4.2 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 Annex to the Nearsite Emergency Operations Facility (AEOF).
- ____ 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 - Attachments II and IV.
- ____ 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 that the monitoring team is ready for operation:
 - 4.6.1 Assign a team member to maintain communications and record keeping per procedure 1004.5.
 - 4.6.2 Instruct the team leader that personnel monitoring will be in accordance with Unit 1 Radiological Controls Procedure 1612.
 - 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 locations.

____ 4.10 Dial 9-911 and request a fire truck be sent to the 500 Kv Substation/or Middletown Substation for washdown of vehicles.

5.0 FINAL CONDITION

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

____ 5.2 Decontaminated individuals who have had whole body counts and 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 is responsible for carrying out the action items in this attachment.

- ___ 1. Procure a radio from the locker in the Processing Center.

: NOTE: Personnel monitoring team also obtain PCs from :
: warehouse. :

- ___ 2. Procure Emergency Monitoring Kit and Protective Clothing from the Emergency Equipment Locker in the Unit I Warehouse.
- ___ 3. Perform an operational check of the communications equipment.
- ___ 4. Assemble with the personnel 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.

ATTACHMENT I
MONITORING TEAM LEADER CHECKLIST

- ___ 8. Ensure that all persons with contamination greater than 1000 disintegrations per minute (100 cpm above background on RM-14 with HP-210 probe or equivalent) 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, both before and after decontamination.
- ___ 10. Direct that vehicles found to have contamination levels greater than 1000 dpm 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 1000 dpm, direct the communicator to contact the Radiation Protection Coordinator and request further instructions.

ATTACHMENT I
MONITORING TEAM LEADER CHECKLIST

- ____ 13. If after successive attempts to decontaminate a vehicle, levels cannot be reduced below 1000 dpm (100 cpm above background on RM-14 with HP-210 probe or equivalent) 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

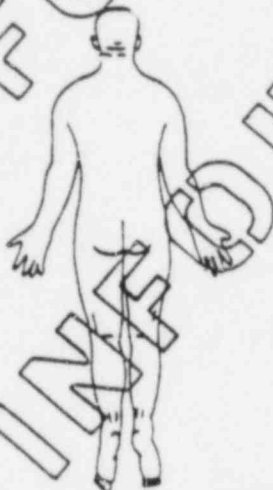
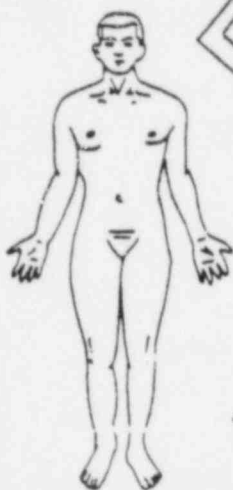
Name	Time	RIR, UIR No
		Date
Dept.	Supervisor	SS No
		RWP No.

Describe cause of contamination

Describe how contamination could have been prevented

SURVEY DATABy _____ 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

①
②
③
④
⑤
⑥**SURVEY RESULTS**

Initial	Decon 1	Decon 2	Decon 3

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.

Individual

Reviewed by:

Rad Con Foreman GRCS

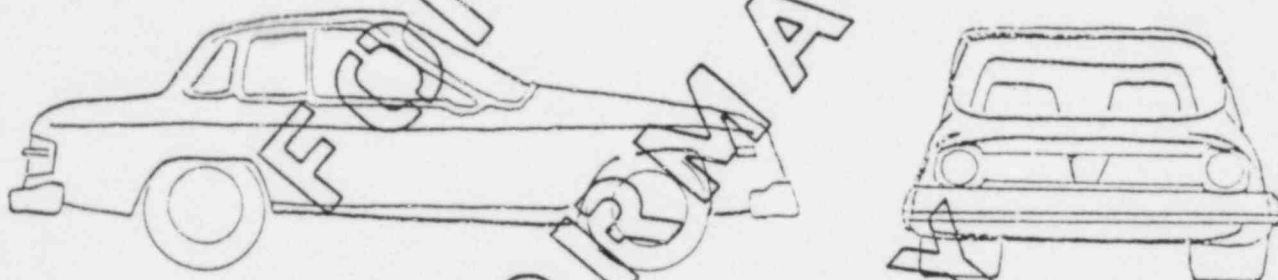
Date: _____

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
VEHICLE CONTAMINATION REPORT

MAKE _____
MODEL _____
LICENSE NO. _____
COLOR _____
OWNER _____



CONTAMINATED VEHICLE AREA	:	INITIAL ACTIVITY dpm	:	AFTER ONE DECON ETC.
_____	:	_____	:	_____
_____	:	_____	:	_____
_____	:	_____	:	_____
_____	:	_____	:	_____

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

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 Crawford :
: Station. :

- ___ 2. Assemble with the decontamination team members for a briefing with the Radiation Protection Coordinator.
- ___ 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.
- ___ 5. With assistance from the Fire Department personnel direct the setup of the vehicle decontamination facility.
- ___ 6. Assign team members for personnel/vehicle decontamination.
- ___ 7. Direct the team members in their decontamination duties and ensure they receive Attachment II and III.

ATTACHMENT IV

"DECONTAMINATION TEAM LEADER CHECKLIST"

- ____ 8. Ensure that, after each decontamination attempt, each person/
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

1004.20
Revision 4
06/02/83

IMPORTANT TO SAFETY
NON-ENVIRONMENTAL IMPACT RELATED

THREE MILE ISLAND NUCLEAR STATION
UNIT NO. 1 EMERGENCY PLANNING IMPLEMENTING PROCEDURE 1004.20
PERSONNEL/VEHICLE MONITORING AND DECONTAMINATION

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