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1004.20
Revision 1
06/22/81

THREE MILE ISLAND NUCLEAR STATION
UNIT NO. 1 EMERGENCY PLANNING IMPLEMENTING PROCEDURE 1004.20
PERSONNEL/VEHICLE MONITORING AND DECONTAMINATION CONTROLLED COPY FOR
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Place & Nuc. Reactor Reg.

Unit 1 Staff Recommends Approval

Approval

NA

Cognizant Dept. Head

Date

Unit 1 PORC Recommends Approval

Mark Nelson
Chairman of PORC

Date

6/17/81

Manager TMI I Approval

mj Ross

Date

6/22/81

QA Modifications/Operations Mgr

NA

Date

DOCUMENT ID: 00001W

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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. (Middletown/500 Kv Substation.) Contaminated personnel are sent to Crawford Station.

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- ____ 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 Alternate EOF.
- ____ 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.

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____ 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 Verify that a decontamination water supply truck has been dispatched.

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.

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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 an Emergency Monitoring Kit from the Processing Center.

NOTE: Personnel monitoring team also obtain PCs from warehouse.

- _____ 2. Inventory the contents of the Emergency Monitoring Kit. Refer to the Emergency Equipment Readiness Checklist AP 1053.
- _____ 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.

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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.
- _____ 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.

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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

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ATTACHMENT II

PERSONNEL CONTAMINATION REPORT

Name _____ SSN _____ Company/Dept. _____

Date _____ Time _____

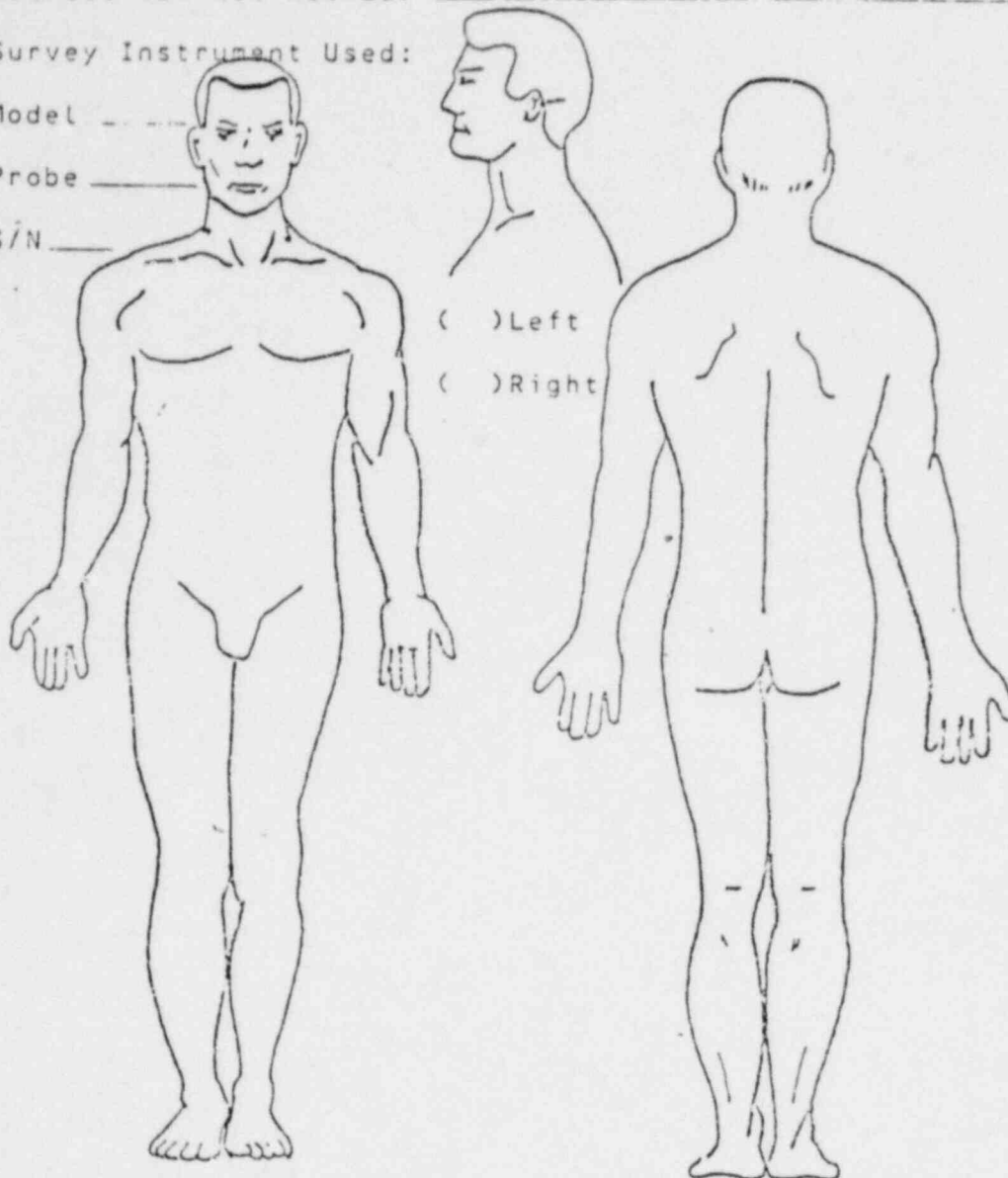
Address (If Not Met-Ed) _____

Survey Instrument Used:

Model _____

Probe _____

S/N _____



Contaminated Body Area
(Indicate On Drawing)

Initial
Activity
(dpm)

After One
Decon
(dpm)

After Two
Decon
(dpm)

After Three
Decon
(dpm)

POOR ORIGINAL

NOTE: Pay close attention to the face, throat, hands, and feet for potential contamination.

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ATTACHMENT III VEHICLE CONTAMINATION REPORT

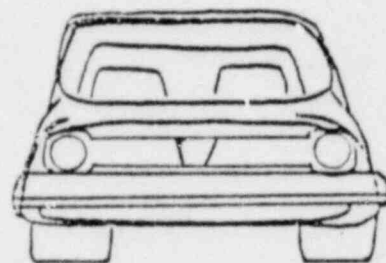
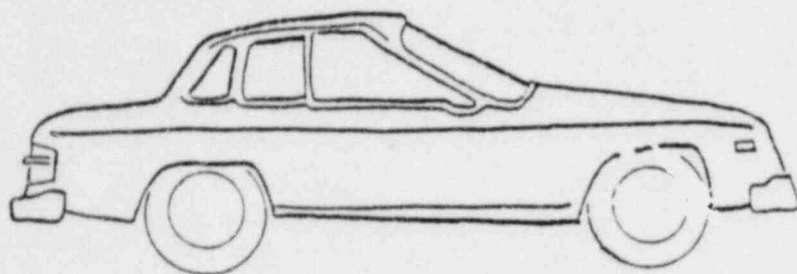
MAKE _____

MODEL _____

LICENSE # _____

COLOR _____

OWNER _____



CONTAMINATED VEHICLE AREA	INITIAL ACTIVITY dpm	AFTER ONE DECON ETC.

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

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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.
 - a) Masslinn cloths
 - b) Detergent
 - c) Decon kit for personnel
- _____ 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 decontamination water supply truck 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.

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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

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