

CONTROLLED

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EMERGENCY PLAN IMPLEMENTATION PROCEDURE MANUAL

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# PROCEDURE COVER SHEET

PENNSYLVANIA POWER & LIGHT CO. SUSQUEHANNA STEAM ELECTRIC STATION		EP-IP-014 Revision 1 Page 1 of 9
PERSONNEL AND VEHICLE CONTAMINATION SURVEYS		
Effective Date <u>2-22-83</u>	Expiration Date <u>2-22-85</u>	
Revised Expiration Date _____		

# CONTROLLED

Prepared by <u>JM-120</u>	Date <u>10/14/82</u>
Reviewed by <u>C. L. Wicks</u>	Date <u>10/15/82</u>
PORC Review Required Yes (✓) No ( )	
Approved by <u>[Signature]</u> Section Head	Date <u>2/7/83</u>
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<u>[Signature]</u> Superintendent of Plant	Date <u>2-17-83</u>

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## 1.0 PURPOSE

The purpose of this procedure is to describe the control methods, locations and limits for Personnel and Vehicle Contamination Surveys.

## 2.0 SCOPE

To provide methods of surveying and decontaminating personnel and vehicles during Emergency Conditions.

## 3.0 REFERENCES

- 3.1 HP-TP-624, "Personnel Decontamination"
- 3.2 HP-TP-270, "Operation of RM-14"

## 4.0 RESPONSIBILITIES

- 4.1 The EMERGENCY DIRECTOR/RADIATION PROTECTION COORDINATOR/RADIATION SUPPORT MANAGER is responsible for determining requirements for personnel and vehicle decontamination and for ensuring that sufficient personnel are made available to control and monitor personnel and vehicles utilized during an Emergency Condition.
- 4.2 The SECURITY COORDINATOR is responsible for ensuring that vehicles and personnel leaving the site exit via contamination control points and offsite team vehicles and/or ambulance vehicles, requiring decontamination, have site access clearance.
- 4.3 The ADMINISTRATIVE COORDINATOR/ADMINISTRATIVE SUPPORT MANAGER is responsible for ensuring provision for transportation of offsite team vehicles, requiring decontamination, onsite.

## 5.0 DEFINITIONS

- 5.1 Large Area Smear (LAS) - The use of a maslin type cloth in swiping a large surface (sq. ft.). This technique deviates from normal swiping techniques and provides a quick, conservative estimate of loose surface contamination.
- 5.2 Corrected Counts Per Minute (CCPM) - Net count rate in an RM-14/HP-210 or equivalent after subtraction of the background count rate.

## 6.0 INSTRUCTIONS

- 6.1 Upon determination that Personnel and Vehicle Contamination Surveys are needed, the EMERGENCY DIRECTOR/RADIATION PROTECTION COORDINATOR/RADIATION SUPPORT MANAGER will follow the instructions in Attachment A, Action Step - EMERGENCY DIRECTOR/RADIATION PROTECTION COORDINATOR/RADIATION SUPPORT MANAGER.
- 6.2 At the direction of the EMERGENCY DIRECTOR/RADIATION PROTECTION COORDINATOR/RADIATION SUPPORT MANAGER, the EMERGENCY RADIATION MONITOR will follow the steps in Attachment B, Action Step - EMERGENCY RADIATION MONITOR.
- 6.3 At the direction of the EMERGENCY DIRECTOR/RADIATION PROTECTION COORDINATOR/RADIATION SUPPORT MANAGER, the SECURITY COORDINATOR will follow the steps in Attachment C, Action Step - SECURITY COORDINATOR.
- 6.4 At the direction of the RADIATION PROTECTION COORDINATOR/RADIATION SUPPORT MANAGER, the ADMINISTRATIVE COORDINATOR/ADMINISTRATIVE SUPPORT MANAGER will follow the steps in Attachment D, Action Step - ADMINISTRATIVE COORDINATOR/ADMINISTRATIVE SUPPORT MANAGER.

ACTION STEP  
EMERGENCY DIRECTOR  
RADIATION PROTECTION COORDINATOR  
RADIATION SUPPORT MANAGER

A.1.0 The EMERGENCY DIRECTOR/RADIATION PROTECTION COORDINATOR/RADIATION SUPPORT MANAGER will:

- A.1.1 Insure EMERGENCY RADIATION MONITOR(s) are dispatched to contamination control point, Post 15 or 1, EOF parking area or the hospital as appropriate.
- A.1.2 If Post 15 or 1 are not available because of high radiation or contamination levels, dispatch MONITOR(s) to an area where Background levels are  $< 300$  cpm.
- A.1.3 Determine if vehicles and/or personnel are contaminated and will require surveys or are free to egress SSES.



ACTION STEP  
EMERGENCY RADIATION MONITOR

Check

B.1.0 When personnel contamination surveys are required during EMERGENCY CONDITIONS, the RADIATION MONITOR will:

\_\_\_\_\_ B.1.1 Ensure egressing persons pass through portal monitors at contamination control point if functioning or use RM-14/HP-210 or equivalent for whole body frisking.

\_\_\_\_\_ B.1.2 Monitor offsite team members and/or emergency medical personnel using an RM-14/HP-210 or equivalent for whole body frisking.

\_\_\_\_\_ B.1.3 Personnel are considered contaminated if levels of > 500 cpm above background are detected.

B.1.4 If personnel are contaminated, insure the following steps are taken:

\_\_\_\_\_ B.1.4.1 Don protective clothing to contain contamination, if necessary.

\_\_\_\_\_ B.1.4.2 Direct contaminated persons to an appropriate facility to decontaminate as per HP-IP-624, Personnel Decontamination

NOTE: IF NASAL CONTAMINATION IS  
DETECTED, CONSIDER Internal  
Dosimetry Program

B.1.5 Complete Form HP-TP-624-1, Personnel Contamination Report, and transmit to TSC Radioman or EOF communicator.

B.2.0 When vehicle contamination surveys are required during EMERGENCY CONDITIONS, the RADIATION MONITOR will:

B.2.1 If it is determined that vehicles may be contaminated:

\_\_\_\_\_ B.1.2.1 Take a LAS and count it on an RM-14/HP-210 or equivalent.



B.1.2.2 Vehicles are considered contaminated when levels of > 500 cpm above background are detected.

B.2.2 If offsite team vehicles and/or ambulance vehicles are contaminated, insure the following steps are performed when appropriate.

B.2.2.1 Perform whatever decontamination possible at location.

B.2.2.2 If further decontamination is required per B2.1.2, direct the vehicles to be transported to the inspection pit onsite.

B.2.3 When contaminated vehicles are onsite, insure the following steps are performed when appropriate.

B.2.3.1 Insure inspection pit drains are plugged properly.

B.2.3.2 Position contaminated vehicles over the inspection pit and hose vehicles down.

NOTE: LIQUID WASTE FROM CONTAMINATED VEHICLES WILL REMAIN IN THE INSPECTION PIT UNTIL IT IS SAMPLED, BATCHED AND RELEASED.

B.2.3.3 Re-survey vehicles per B.2.1

B.2.3.4 Quarantine vehicles which cannot be decontaminated by hosing.

ACTION STEP  
SECURITY COORDINATOR

CHECK

C.1.0 The SECURITY COORDINATOR will:

\_\_\_\_\_ C.1.1 Direct personnel and vehicles to appropriate  
contamination control point.

\_\_\_\_\_ C.1.2 Insure site access clearance for offsite team  
vehicles and/or ambulance vehicles requiring  
decontamination.

ACTION STEP

ADMINISTRATIVE COORDINATOR/ADMINISTRATIVE SUPPORT MANAGER

CHECK

D.1.0 The ADMINISTRATIVE COORDINATOR/ADMINISTRATIVE SUPPORT MANAGER will:

\_\_\_\_\_ D.1.1 Make provisions for the transportation of offsite vehicles from EOF parking lot on to the site for decontamination, if necessary.