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TEMPORARY CHANGE APPROVAL FORM Temporary Chg. No. 82-2101 Temporary Change Page 1 of _/ A. Procedure No. EP-1P-014; Rev. 0 Title Personnel and Ukhicle Contamination Surveys B. Requested Change Add Action Step B.1.5 to Attachment B, Page 60F9: B.1.5 Complete Form HP TP-624-1 Personnel Contamination Report, and transmit results to TSC Radioman or ECF communicator. (HP-TP-624-1 should be attached) Provide method For communicating contamination reports back to the ERF during an emergency. (NRC Appendix B requirement) C. Reason For Change (See Reverse side of this page for procedure non-intent change and unreviewed safety question. If "yes" to either question, do not issue change without PORC review/Supt. approval, section 6.11.3) Yes 🗸 No D. Recommended for permanent status NД E. Expiration Date _ "N/A" for permanent status. 45-60 days for temporary status Title EP Specialist Date 10/4/82 F. Initiator Temporary Change Authorization G. 1 10/15/82 Management Member H. Temporary Change Approval Approved as written for permanent status Yes No PORC Review PORC Chairman/Section Head Date (If Applicable) Mtg. No. (As Applicable) Superintendent of Plant Date FORM AD-QA-101-2, Rev. 2 Page 1 of 1 DUPLEX

PROCEDURE COVER SHEET

PENNSYLVANIA POWER & LIGHT SUSQUEHANNA STEAM ELECTRIC ST		
PERSONNEL AND VEHICLE CONTA	YINATION SURVEYS	EP-IP-014 Revision 1 Page 1 of 9
Effective Date <u>2-22-8</u> 3	Expiration Date <u>2-23-8</u>	5
	Revised Expiration Date	



Prepared by _____ Date 10/14/82 Reviewed by <u>C. R. Wike</u> Date 10/15/82 PORC Review Required Yes (~) No () Approved by _ Date ____ 217183 Section Head PORC Meeting Number 8/2-216 Date 11-5-82 Date _____83 12èn Superintendent of Plant

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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 decontaminaiton, onsite.

5.0 DEFINITIONS

- 5.1 <u>Large Area Smear</u> (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 <u>Corrected Counts Per Minute</u> (CCPM) Net count rate in an RM-14/HP-210 or equivalent after subtraction of the background count rate.

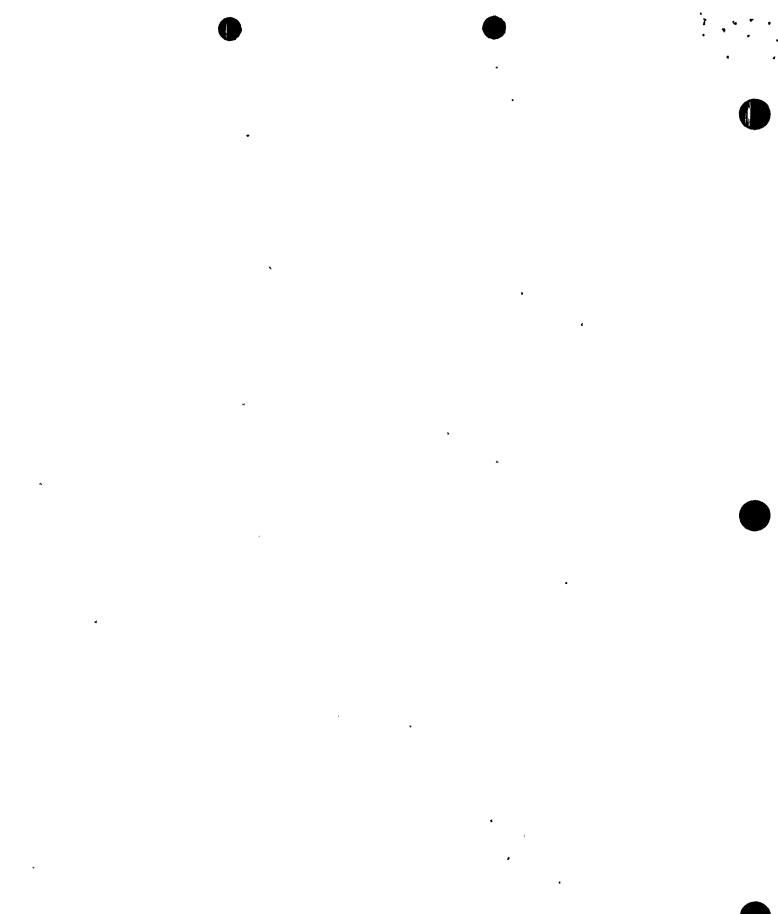
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6.0 INSTRUCTIONS

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/RADIAITON SUPPORT MANAGER.

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- 6.2 At the direction of the EMERGENCY DIRECTOR/RADIATION PROTECTION COORDINATOR/RADIATION SUPPORT MANAGER, the EMERGENCY RADIATION MUNITOR 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.



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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.

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ACTION STEP EMERGENCY RADIATION MONITOR

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<u>Check</u>			*		
	8.1.0				surveys are required during DIATION MONITOR will:
	·	B.1.1	monitors functioni	at contam	ersons pass through portal ination control point if RM-14/HP-210 or equivalent for J.
		B.1.2	medical p	ersonnel (am members and/or emergency using an RM-14/HP-210 or le body frisking.
	·	B.1.3			idered contaminated if levels of ckground are detected.
		B.1.4	If person steps are		ontaminated, insure the following
			B.1.4.1		ective clothing to contain ation, if necessary.
			8.1.4.2	appropria	ontaminated persons to an ate facility to decontaminate as 2-624, Personnel Decontamination
				NOTE:	IF NASAL CONTAMINATION IS DETECTED, CONSIDER Internal Dosimetry Program
		8.1.5	Complete Report, a communica	ind transm [.]	9-624-1, Personnel Contamination it to TSC Radioman or EOF
,	B.2.0				urveys are required during DIATION MONITOR will:
• .		B.2.1	If it is contamina		i that vehicles may be
·			B.1.2.1		AS and count it on an RM-14/HP- quivalent.

Attachment B EP-IP-014 Revision 1 Page 7 of 9

- 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.

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ACTION STEP SECURITY COORDINATOR

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<u>CHECK</u>

C.1.0 The SECURITY COORDINATOR will:

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- C.1.1 Direct personnel and vehicles to appropriate contamination control point.
- C.1.2

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Insure site access clearance for offsite team vehicles and/or ambulance vehicles requiring decontamination.

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Attachment D . EP-IP-014 Revision 1 Page 9 of 9

ACTION STEP

ADMINISTRATIVE COORDINATOR/ADMINISTRATIVE SUPPORT MANAGER

CHECK

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D.1.0

- .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.



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PROCEDURE COVER SHEET

PENNSYLVANIA POWER & LIGHT SUSQUEHANNA STEAM ELECTRIC ST		
RECONSTRUCTION AND ACCIDENT	r close out	EP-IP-038 Revision 0 Page 1 of 9
Effective Date 6-16-82	Expiration Date 6-16-8-	Ý
	Revised Expiration Date _	

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Date <u>4882</u> Prepared by Reviewed by PORC Review Requined No () Date 5/10/82 Approved by Date <u>5/14/82</u> Date <u>6-14-82</u> PORC Meeting Number 82-051 2 Reia Superintendent of Plan

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1.0 PURPOSE

The purpose of this procedure is to:

- 1.1 Reconstruct the event sequences associated with the cause and control of the emergency.
- 1.2 Reconstruct the radiological conditions which existed during the emergency.
- 1.3 Assess the radiological consequences of the emergency.

2.0 SCOPE

Provide a list of items to be considered when reconstructing and assessing the emergency.

3.0 REFERENCES

- 3.1 NUREG 0654, Planning Standards and Evaluation Criteria
- 3.2 NUREG 0696, Functional Criteria for Emergency Response Facilities
- 3.3 NUREG 0731, Guidelines for Utility Management Structure and Technical Resources, September 1980
- 3.4 SSES Emergency Plan

4.0 <u>RESPONSIBILITIES</u>

- 4.1 It is the responsibility of the SUPERINTENDENT OF PLANT to reconstruct the sequence of events associated with the emergency, assess the adequacy of responses and document the lessons learned of any EMERGENCY which did not result in activation of the EOF.
- 4.2 It is the responsibility of the MANAGER-NUCLEAR SAFETY ASSESSMENT GROUP to reconstruct the sequence of events associated with the emergency, assess the adequacy of the responses and document the lessons learned of any EMERGENCY which did not result in activation of the EOF.
- 4.3 It is the responsibility of the RADIATION PROTECTION COORDINATOR to reconstruct the on-site radiological conditions associated with the 'emergency and assess doses to in-plant personnel. In the event the EOF was not activated, the RADIATION PROTECTION COORDINATOR is responsible to reconstruct the off-site radiological conditions and assess doses to the public and other off-site personnel.

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- 4.4 It is the responsibility of the RADIATION SUPPORT MANAGER to reconstruct the off-site radiation conditions and assess doses to the public and other off-site personel in the event the EOF was activated.
- 4.5 It is the responsibility of the RADIOLOGICAL AND ENVIRONMENTAL SERVICES SUPERVISOR to review and approve all radiological reports resulting from activities outlined in this procedure.
- 4.6 It is the responsibility of the VICE PRESIDENT-NUCLEAR OPERATIONS to review and approve all reports resulting from activities outlined in this procedure and implement a follow-up corrective action program, as appropriate.

5.0 DEFINITIONS

- 5.1 EREMP Emergency Radiological Environmental Monitoring Program
- 5.2 REMP Radiological Environmental Monitoring Program
- 5.3 TLD Thermoluminescence Dosimeter

6.0 INSTRUCTIONS

- 6.1 If the EOF was not activated, the SUPERINTENDENT OF PLANT will issue a report including:
 - 6.1.1 Reconstruction of the sequence of events associated with the emergency (timeline and detailed supporting documentation packages).
 - 6.1.2 Determination of the cause of the emergency.
 - 6.1.3 Assessment of the extent of damage sustained by the plant.
 - 6.1.4 Assessment of the adequacy of response.
 - 6.1.5 Identification of lessons learned.
- 6.2 If the EOF was activated, the MANAGER NUCLEAR SAFETY ASSESSMENT GROUP will issue a report including:

6.2.1 Reconstruction of the sequences of events associated with the emergency (timeline and detailed supporting documentation packages).

6.2.2 Determination of the cause of the emergency.

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- 6.2.3 Assessment of the extent of damage sustained by the plant.
- 6.2.4 Assessment of the adequacy of response.
- 6.2.5 Identification of lessons learned.

6.3 RADIATION PROTECTION COORDINATOR Duties

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- 6.3.1 The RADIATION PROTECTION COORDINATOR will issue a report, utilizing the guidance in Attachment A, which addresses:
 - 6.3.1.1 Characterization of in-plant radiological conditions.
 - 6.3.1.2 Personnel exposures.
 - 6.3.1.3 Characterization of radiological conditions in ... restricted area.
- 6.3.2 If the EOF was not activated, the RADIATION PROTECTION COORDINATOR will:
 - 6.3.2.1 Issue a report, utilizing the guidance in Attachment B, which addresses:
 - a. Correlation of radiological release data.
 - b. Dose assessment to emergency response personnel and the public.
 - c. Evaluation of environmental sampling program.
 - d. Coordination of results with off-site agencies.
 - 6.3.2.2 Provide an initial assessment of the radiological impact to the public immediately following the emergency.
 - 6.3.2.3 Establish a follow-up radiological assessment program.
- 6.4 RADIATION SUPPORT MANAGER Duties
 - (6.4.1 If the EOF was activated, the RADIATION SUPPORT MANAGER will:
 - 6.4.1.1 Issue a report, utilizing the guidance in Attachment B, which addresses:

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- a. Correlation of radiological release data.
- b. Dose assessment to emergency response personnel and the public.
- c. Evaluation of environmental sampling program.
- d. Coordination of results with off-site agencies.
- 6.4.1.2 Provide an initial assessment of the radiological impact to the public immediately following the emergency.
- 6.4.1.3 Establish a follow-up radiological assessment program.
- 6.5 The RADIOLOGICAL AND ENVIRONMENTAL SERVICES SUPERVISOR will review and approve all radiological reports associated with the emergency.
- 6.6 The VICE-PRESIDENT-NUCLEAR OPERATIONS will review and approve all reports associated with the emergency. He will also implement a follow-up corrective action program, as appropriate.

Attachment A EP-IP-038 Revision O Page 7 of 9

IN-PLANT RADIOLOGICAL CONSIDERATIONS

A.1 Characterize radiation conditions that existed in the plant.

- o dose rates
- o airborne concentrations
- o contamination levels
- o identify radionuclide composition
- o areas affected
- o radioactive liquid inventory
- i evaluate chemistry and radiological samples taken during emergency.

A.2 Determine Personnel Exposures

- o TLD Badges
- o Self reading dosimeters
- o reconstruct habitability conditions for occupied areas
- o internal dosimetry program
- o evaluate doses due to contamination
- o evaluate extremity doses
- A.3 Characterize radiation conditions within the Restricted Area.
 - o vehicle surveys
 - o on-site buildings
 - o spray pond
 - o cooling tower samples/station blowdown

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Attachment B EP-IP-038 Revision O Page 8 of 9

OFF-SITE RADIOLOGICAL CONSIDERATIONS

B.1. Correlate data to characterize the gaseous releases:

- o effluent data
- o meteorological data
- o off-site emergency monitoring team data
- o Pressurized Ionization Chambers data
- o air monitoring stations data
- o REMP-TLDs data
- B.2 Correlate data to characterize the liquid releases:
 - o effluent data
 - o river samples, sediment and water
- B.3 Dose Assessment to Emergency Response Personnel
 - o TLD Badges
 - o Self reading dosimeters
 - o Air samples
 - o reconstruct habitability conditions for occupied areas
 - o internal dosimetry program
- B.4 Evaluate Environmental Sampling Program
 - o milk samples
 - o foodstuff samples
 - o drinking watersamples
 - o wildlife samples
 - o domestic animal samples
 - o contamination estimates

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