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THE FOLLOWING CHANGES HAVE OCCURRED TO THE HARDCOPY OR ELECTRONIC MANUAL ASSIGNED TO YOU:

222 - 222 - OFFSITE EMERGENCY MONITORING TEAM: EMERGENCY PLAN-POSITION SPECIFIC PROCEDURE

REMOVE MANUAL TABLE OF CONTENTS DATE: 06/24/2003

ADD MANUAL TABLE OF CONTENTS DATE: 06/26/2003

CATEGORY: PROCEDURES TYPE: EP
ID: EP-PS-222
REMOVE: REV:8

ADD: REV: 9

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A045

PROCEDURE COVER SHEET

PPL SUSQUEHANNA, LLC	NUCLEAR DEPARTMENT PROCEDURE	
EMERGENCY MONITORING TEAM: Emergency Plan-Position Specific Instruction		EP-PS-222 Revision 9 Page 1 of 3

QUALITY CLASSIFICATION:	APPROVAL CLASSIFICATION:
( ) QA Program (X) Non-QA Program	( ) Plant ( ) Non-Plant (X) Instruction

EFFECTIVE DATE: 6-26-2003

PERIODIC REVIEW FREQUENCY: Two Years

PERIODIC REVIEW DUE DATE: 6-26-2005

RECOMMENDED REVIEWS:
ALL

Procedure Owner: Nuclear Emergency Planning

Responsible Supervisor: Primary Dose Assessment Supv.

Responsible FUM: Supv.-Nuclear Emergency Planning

Responsible Approver: General Manager-Plant Support

EMERGENCY MONITORING TEAM: Emergency Plan-Position Specific Procedure

WHEN:	Technical Support Center (TSC) and/or Emergency Operations Facility (EOF) is activated
HOW NOTIFIED:	Paged/Telenotification
REPORT TO:	HP Radioman*, then Field Team Director
WHERE TO REPORT:	West Building or Emergency Operations Facility (EOF) (2 Each Facility)

OVERALL DUTY:

Locate and perform surveys of the plume and assist in characterization of deposition patterns following plume passage.

MAJOR TASKS:	TAB:	REVISION:
Plume Phase		
Check out monitoring equipment and load vehicle.	TAB A	7
Move to monitoring location, locate plume centerline, perform radiation survey and collect air sample.	TAB B	6
Post Plume Phase		
Provide radiological support for environmental sampling teams.	TAB C	5
Provide radiological support for sampling teams accessing and egressing contaminated areas.	TAB D	2

SUPPORTING INFORMATION:	TAB:
Emergency Forms • Signout Sheet • Survey Data Form • Field Data Information Form	TAB 1
Instrument Checkout Instructions	TAB 2

* Prior to full staffing of the Technical Support Center, the duties of the HP Radioman may be performed by the HP II Dose Calculator or the TSC Dose Calculator.

Field Survey Instructions for Field Teams	TAB 3
Air Sampling Instructions	TAB 4

REFERENCES:

SSES Emergency Plan

EP-AD-013, Inventory, Inspection, Operational Testing and Calibration of Emergency Equipment and Supplies

HP-TP-443, Use of Portable Radiation Survey Meters

MAJOR TASK:

Check out monitoring equipment and load vehicle.

SPECIFIC TASKS:	HOW:

NOTE:

A primary objective of the Emergency Monitoring Team(s) (also called Field Monitoring Team(s)) is to ensure data collected in the field is obtained as expeditiously as possible (consistent with personnel safety and procedural adherence), to assist the event assessment process.

One or more Teams will be assigned to report to the West Building, and one or more Teams will be assigned to report to the EOF.

1. Locate Monitoring Equipment Kit in the West Building or EOF storage room.
   - 1a. Locate Emergency Equipment Kit, Survey/Air Sampling equipment, and GARDS unit with associated antennae.
2. Check seal on equipment kit.
   - 2a. If seal is broken you must perform an inventory.
     - (1) Radiological Monitoring Kit Inventory Form, (EP-AD-013-3), can be found inside the clipboard located inside the equipment kit.
   - 2b. If seal is intact proceed with checkout.
3. Perform instrument checkout.

HELP

Instrument Checkout Instructions
See TAB 2

4. Obtain safety vest "or jumpsuit" and shoecovers, as necessary.
5. Obtain portable VHF radio (backup for mobile unit).
   - 5a. Turn on radio.
   - 5b. Adjust squelch.
   - 5c. Turn to channel 1.

SPECIFIC TASKS:	HOW:
6. Obtain a cellular phone, charging unit, and copy of the "Emergency Telephone Directory".	6a. Check battery voltage: (1) Press and hold the "POWER KEY" to energize phone. (2) Battery symbol is displayed: (3) Four bars indicate fully charged. 6b. Record cell phone number on the signout sheet.
7. Take three of the large plastic bags, label each with a radioactive materials sticker. Label one waste, one cartridge samples and one particulate samples. Place labeled bags in the equipment kit.	
8. Report to HP Radioman (if TSC is in control of the emergency response) or Field Team Director (if EOF is in control). If unsure which facility is in control, call the HP Radioman first. (Tasks 8a. and 8b. may be performed after task 9 or as part of Task 10 or 11).	8a. The HP Radioman or Field Team Director (whichever is in control) will provide the team with the Field Team Briefing Sheet or an equivalent verbal briefing. 8b. If only one team member receives the briefing, that team member relays the information to the other team member.

SPECIFIC TASKS:	HOW:	
	8c.	Provide HP Radioman or Field Team Director (whichever is in control) with the completed Field Team Information Form and the original (or copy) of the completed sign-on form for RWP #8002.
		HELP **Field Team Information Form** **See TAB 1**
		(1) Fax the Field Team Information Form and completed RWP sign-on form from West Building to the individual in control of the teams. • Provide the information by phone if the fax machine is not operable. • Leave the original in the equipment storage room.
		(2) For teams reporting to the EOF: (a) If the TSC is in control, complete step (1) above (substituting "EOF" for "West Building"). (b) IF the EOF is in control, provide the originals to the Field Team Director.
9. Exit the West Building or EOF (with equipment) and load the equipment into the vehicle.	9a.	Place the ASP-1 survey meter on the front seat of the vehicle. (1) The meter should be on the lowest scale on which you can get a reading.

SPECIFIC TASKS:	HOW:

(2) The beta shield should be closed with the speaker on.

(3) The integrate/slow/fast switch should be in the fast position.

9b. Place equipment and air sampler in the rear of monitoring vehicle.

9c. Place GARDS Unit in the rear of the vehicle:

(1) Open the case and put the GPS and radio antennae on the vehicle roof. (magnetic base)

(2) Thread the cables from antennae into the case.

(3) Connect the whip antenna to the TEL-12-A module.

(4) Connect the GPS antenna to the J-1 opening on the GPS module. (push in)

(5) Turn the power switch on and press test. The DC +12 and -12 lights should come on as a minimum.

9d. Secure all equipment to reduce shifting or damage while monitoring.

9e. Verify proper inverter operation:

(1) Turn on and observe power up of air sampler.

(2) Turn off air sampler and inverter.

SPECIFIC TASKS:	HOW:
10. If dispatched from the EOF, proceed to West Nanticoke, obtaining a briefing from the Field Team Director at the EOF (if in control of the teams) or while on route by the individual in control of the teams. Alternately, after obtaining a briefing, proceed to monitoring destination.	10a. Stop approach and notify the individual in control of the teams promptly should dose rates approach 1000 mrem/hr.
NOTE: **Between the EOF and Nanticoke, cell phones are usually the best means of Communication.**	10b. Stop at West Nanticoke, unless a briefing and monitoring assignment have been received from the individual in control of the teams.
11. If dispatched from the West Building, remain near the West Building until the team has been briefed by, and a monitoring assignment received from, the individual in control of the teams.	11a. Notify the individual in control of the teams promptly should dose rates approach 1000 mrem/hr.
12. If directed to traverse Beach Grove Road, it is permissible to pass through vehicle barriers.	**NOTE:** **Vehicle barriers may be posted to prevent public access to Beach Grove Road. It is permissible to pass through the barriers.**
	12a. Ensure that barriers are replaced if you move them for access.

MAJOR TASK:

Move to monitoring location, locate plume centerline, perform radiation survey and collect air sample.

SPECIFIC TASKS:	HOW:
1. Contact the HP Radioman (HPR) or Field Team Director (FTD), whichever is in control of the teams.	1a. Obtain the following information: (1) Monitoring location. (2) Specific tasks to be performed. (3) Special instructions.
2. Determine the best route to your assigned monitoring location.	2a. Select a route which gets you to your assignment as quickly as possible, but keeps you out of the plume as much as possible to minimize your exposure.
3. While enroute determine which team member will perform the radiation survey and which will take the air sample, if an air sample is requested.	**NOTE:** **Information from the GARDS Unit, (radiation level and vehicle location) will automatically transmit to "Remote Monitoring System" base stations in the TSC and EOF. It is supplemental to data collected by survey and air samples.**
4. Inform the HPR/FTD when approaching the suspected location of the plume.	**NOTE:** **The team(s) may also be assigned to gather data from locations along plume boundaries or in areas unaffected by the plume.**
5. Locate the plume centerline.	5a. Slow down and use the audible response of the speaker to detect the edge of the plume. 5b. Traverse the plume slowly and note when the click rate or meter deflection is highest.

SPECIFIC TASKS:	HOW:
	5c. Identify sector/distance designation of plume centerline and record on Survey Data Form with date and team designation.
6. Pull vehicle off the road as close to the plume centerline as possible, unless directed otherwise. Turn on flashers.	
7. Upon arrival at monitoring location, don safety vest, (or jumpsuit), and shoe covers, as necessary.	**HELP** Field Survey Instructions **See TAB 3**
8. Perform radiation survey.	
9. Complete air sample and analysis, if an air sample has been requested.	**HELP** Air Sampling Instructions **See TAB 4**
10. Inform the HPR/FTD that your team is ready for the next assignment.	
11. Perform shift turnover/termination.	11a. Proceed in accordance with instructions provided by HPR/FTD for shift change.

MAJOR TASK:

Provide radiological support for monitoring and sampling teams accessing and egressing contaminated areas.

SPECIFIC TASKS:	HOW:
Off-going Teams	
1. Return all equipment and supplies to the equipment kit. Ensure all equipment is turned off.	
2. Ensure all samples and data sheets are collected.	2a. Ensure all required sample information has been transmitted prior to packing by sampling teams.
3. Proceed to the Decon Facility or location designated by the HPR/FTD.	
4. Upon arrival at the location, notify the HPR/FTD and stay with vehicle until contacted by the on-coming team or decon facility personnel.	4a. Follow directions as provided by the TSC/EOF and on-coming team members. If you are contacted by decon facility personnel, inform them that you are standing by until other team members arrive to assist you.
On-coming team	
1. Upon arrival, notify the HPR/FTD and instruct the off-going team to stand-by until you are ready.	
2. Contact decon facility personnel and prepare for monitoring and decon activities.	2a. Identify yourself to decon facility personnel.
	2b. Inspect the facility and become familiar with their set-up and decon procedures. Identify any impacts to your ability to perform monitoring and decon activities.
	2c. Request a holding area for quarantine of PPL vehicles until PPL staff can survey and release them.
3. Monitor the off-going team for contamination.	3a. Direct the off-going team to bring their vehicle to the holding area.

SPECIFIC TASKS:	HOW:	
	3b.	Don appropriate protective clothing for the decon activities.
	3c.	Place a plastic ground cover by the passenger side door of the off-going team vehicle.
	3d.	Have each member of the off-going team step on to the ground cover and remove any outside protective clothing.
	3e.	Perform a whole body frisk of each team member.
4. If contamination is > 100 cpm above background on the skin of the individual, perform decontamination.	4a.	Contain the contamination by dressing the person in protective clothing (tyvek coveralls, shoe covers and/or gloves as appropriate).
	4b.	Escort the individual to the personnel decon area.
	4c.	Decon the affected areas.
	4d.	Provide replacement clothing as necessary.
5. If no contamination is present or if decon has been completed, secure PPL vehicles and equipment.	5a.	Place ground cover and used protective clothing in a plastic bag and place in monitoring vehicle.
	5b.	Remove keys and lock vehicle.
6. Perform whole body frisk to ensure you are not contaminated.		
7. Contact the HPR/FTD to report status and request additional directions.	7a.	Follow directions as provided.
	7b.	Provide vehicle keys to off-going team.
	7c.	Ensure off-going team has transportation to EOF or other location to which they are to report.