Jun. 27, 2003

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247 - 247 - FIELD TEAM DIRECTOR

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

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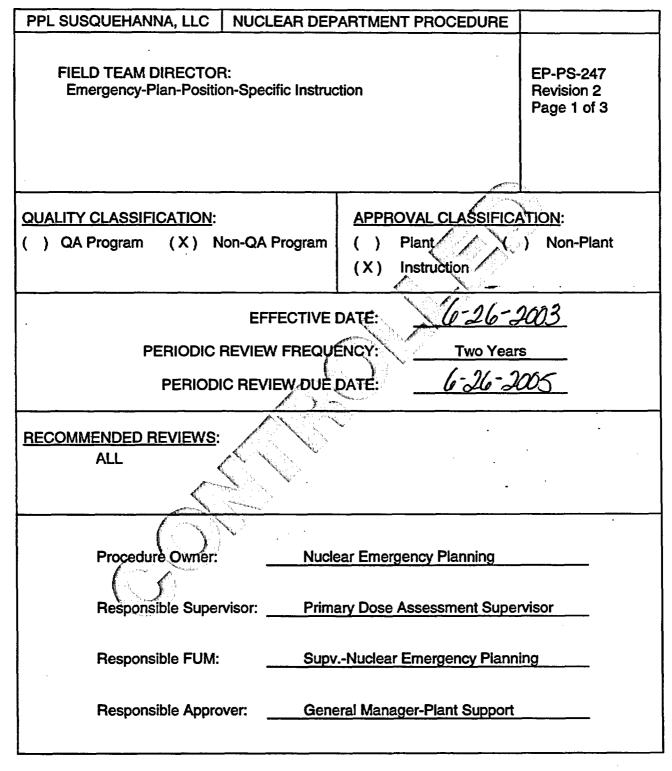
CATEGORY: PROCEDURES TYPE: EP ID: EP-PS-247 REMOVE: REV:1

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PROCEDURE COVER SHEET



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FIELD TEAM DIRECTOR: Emergency-Plan-Position-Specific Instruction

WHEN:	Activation of the Emergency Operations Facility
HOW NOTIFIED:	Paged/Telephone
REPORT TO:	Dose Assessment Supervisor
WHERE TO REPORT:	Emergency Operations Facility

OVERALL DUTY:

Direct the emergency environmental field monitoring efforts to determine the significance of airborne and liquid releases

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SUPPORTING INFORMATION:	TAB:
Met/Vent Data Acquisition Options	TAB 1
RMS Instructions	TAB 2
Field Monitoring Strategy Notes	TAB 3
Liquid Discharge Data Sheets	TAB 4
Emergency Personnel Dose Assessment & Protective Action Recommendation Guide	TAB 5
County Decontamination Facility Locations	TAB 6
Forms	TAB 7
* Shift Takeover Checklist	
* Survey Data Form with RMS Partially Operable	
* Survey Data Form with RMS Inoperable	
* Calculation and Tracking Sheet for Estimated Iodine CDE and TEDE Doses	• ·
* Potassium Iodide (KI) Tracking Form	
* Responsibilities of Initial and Augmented EOF Radiological Assessment Staff after turnover.	TAB 8
REFERENCES:	

SSES Emergency Plan

National Interim Primary Drinking Water Regulations, EPA 570/9-76-003

Commonwealth of Pennsylvania State Emergency Plan, Appendix 6, Annex E

NUREG 0654, Planning Standards and Evaluation Criteria

NUREG 0731, Guidelines for Utility Management Structure and Technical Resources

NUREG 0696, Functional Criteria for Emergency Response Facilities

TAB A EP-PS-247-A Revision 1 Page 1 of 2

MAJOR TASK:

Initial actions and status determination for the Field Team Director (FTD).

SPECIFIC TASKS: HOW: 1. Notify the Dose Assessment Supervisor (DASU) of your arrival. 2. 2. Obtain information on the history and current state of the emergency. 2a. Obtain the following information:

- (1) Whether a release has occurred or is occurring.
- (2) The nature of the release.
- (3) The wind direction, speed, and atmospheric stability

HELP			
Met/Vent Data Acquisition			
Options			
See TAB 1			

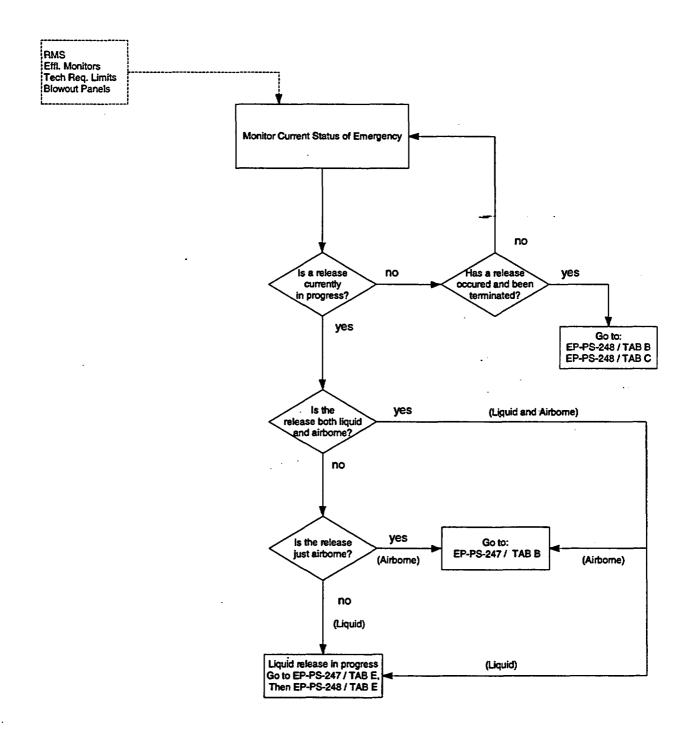
(4) The emergency classification.

3. Fill out the FTD part of the *Shift Takeover Checklist*, and turn it in to the DASU.

4. Use the FTD / ESD Status Determination Chart on following page to determine your next course of action. HELP Shift Takeover Checklist See TAB 7

TAB A EP-PS-247-A Revision 1 Page 2 of 2

FTD/ESD STATUS DETERMINATION CHART



TAB B EP-PS-247-B Revision 1 Page 1 of 5

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MAJOR TASK:

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Field Team Monitoring with RMS fully operational.

-	SPE	CIFIC TASKS:	HOW:			
	1 . ·	Verify operational status of Remote Monitoring System (RMS).				HELP MS Instructions TAB 2, Section 1.0
			1a.	If there is no evidence of radiologic telemetry being transmitted to the System Summary Screen:		ing transmitted to the
		- -		(1)	opera	OSCAR verify the ational status of the RMS ment inside the Van.
					(a)	If the RMS equipment inside the OSCAR Van is fully operational, then continue Field Team monitoring in accordance with TAB C.
		• • •			(b)	If the RMS equipment inside the OSCAR Van is determined to be inoperable, then continue Field Team monitoring in accordance with TAB D.
	2.	Verify operation of the VHF radio.	2a.	TSC		Radioman by radio in the im know that you have e EOF.
	3. Ensure that the HP Radioman has communicated or transmitted	communicated or transmitted	3a.			ollowing information from th an in the TSC:
		available logs containing relevant data from OSCAR and any other field team(s) dispatched, to the Field Team		(1)	OSC	AR Team Member's name
		Director (FTD) at the EOF.		(2)	OSC	AR's initial dose (YTD)

TAB B EP-PS-247-B Revision 1 Page 2 of 5

SPECIFIC TASKS:	HOW:		
		(3)	Team Members' names, initial doses (YTD), and team designator (e.g., ALPHA) for any other field team(s) dispatched from the TSC.
		(4)	Current dose extensions
		(5)	Sectors / Locations monitored, and by which field teams
		(6)	Results for previously monitored sectors Llocations
4. Direct the Field Teams	4a.	Deter	mine Monitoring Strategy
		(1)	If all Fixed Monitors are <u>not</u> <u>functional</u> , consider filling the resulting gap(s) in the monitoring coverage when determining placement of the Field Teams.
			HELP
1			eld Monitoring Strategy Notes ee TAB 3, Sections 2.0 and 4.0
	4b.	Si Take	
	4b.	Si Take	control of OSCAR and any other
	4b.	Se Take field t	Control of OSCAR and any other eam(s) dispatched from the TSC. Obtain a target time from DASU for taking control of the field team(s), and coordinate with HP

TAB B EP-PS-247-B Revision 1 Page 3 of 5

SPECIFIC TASKS:	HOW:		
1	4c.	Brief	and dispatch Field Teams:
		S	E: nsure Field Team members have igned in on RWP #8002 (RWP 8001 is applicable to OSCAR).
· · · · · · · · · · · · · · · · · · ·		d	E: Field Teams have already been ispatched, conduct briefing via adio or cell telephone.
			- HELP
		Fi	ield Monitoring Strategy Notes See TAB 3, Section 1.0
		(1)	Log names, YTD dose, and cell phone numbers in FTD Log.
		(2)	Describe the monitoring strategy; including the sectors to be monitored.
		(3)	Record a summary of the completed Field Team briefing in FTD Log.
		(4)	Verify VHF Radio or Cell Phone operability with Field Teams.
		(5)	Verify RMS is receiving radiological and locational telemetry via Mobile Survey Plot Screen or System Summary Screen.
		ra	E: RMS is not receiving adiological telemetry from Field eam(s), refer to step 1a.

TAB B EP-PS-247-B Revision 1 Page 4 of 5

				1 290 4 01 0
SPE		HOW:		
5.	Notes on Communications between the FTD and the Field Teams.	5a.	are us comm	the EOF to Nanticoke, cell phones sually the best means for nunications between the FTD and eld Teams.
		5b.	usuali comm	of Nanticoke the VHF Radio is y the best means for junications between the FTD and eld Teams.
		5c.	within of a F (i.e. th marke	illy terrain of the monitoring area the EPZ can cause periodic losses ield Team's <u>locational telemetry</u> ne affected Field Team's location er will not be displayed on the e Survey Plot Screen).
			(1)	In most cases the lost locational telemetry will reestablish itself once the Field Team moves to a location offering less terrain interference.
			(2)	If the loss of locational telemetry persists despite the relocation of the Field Team, refer to TAB C.
6.	Employ RMS Monitoring Strategy			HELP
				RMS Instructions See TAB 2, Section 2.0
7.	FTD must track Field Teams' Whole Body exposure by periodically recording their SRD readings in the FTD General Log.	7a.	Team if team	diately notify the DAST if a Field member requires an extension or n radiological control warrants onal management attention.
				HELP
			Fi	eld Monitoring Strategy Notes See TAB 3, Section 5.0

TAB B EP-PS-247-B Revision 1 Page 5 of 5

SPECIFIC TASKS:

8. Personnel changes should occur inside the EPZ at a pre-determined location in an unaffected sector.

HOW:

- 8a. Direct the Off-going Field Team(s) to:
 - (1) Immediately proceed to the designated County Decontamination Facility,

HELP			
County Decontamination Facility			
Locations			
See TAB 6			

- (2) Return to EOF for debriefing.
- 8b. The OSCAR team may return to the site Protected Area with the concurrence of the TSC radiation protection staff.
- 9a. Upon being decontaminated, the off-going Field Team personnel shall proceed to the EOF for debriefing and meet with environmental sampling personnel to form unified monitoring teams.
- 9b. Upon vacating the Field Team vehicle, any known or suspected radioactive waste generated during the course of field monitoring activities shall be locked-up inside the vehicle until Effluents Management can take custody of the vehicle.
- 9c. The Field Team vehicles will be posted as contaminated and their location/status reported to the FTD.
- 9d. The OSCAR team vehicle's disposition should be discussed with the TSC radiation protection staff.

9. At the termination of the release, the Field Team vehicles will be directed (with the DASU's permission) to the designated County Decontamination Facility.

TAB C EP-PS-247-C Revision 2 Page 1 of 4

MAJOR TASK:

Field Team Monitoring with RMS partially operational:

Loss of Locational Telemetry

and/or

Loss of Radiological Telemetry

Note:

This TAB provides guidance for the two most likely reasons RMS will be in a *partially operational* condition. The intent is for this guidance to be used in conjunction with the normal monitoring strategy specified in TAB B, TAB 2 and TAB 3.

If a different RMS deficiency occurs that also results in RMS being put-in a *partially operational* condition, consult with the DAST and DASU to determine a means of compensating for the deficiency to continue monitoring field conditions with RMS.

SPECIFIC TASKS:	HOW:		·
1. Loss of Locational Telemetry.	1 a.	Field	e event you are unable to track a Team location on the Mobile ey Plot Screen (MSPS):
• •		(1)	Manually track the Field Team location on the large area map in the EOF
		(2)	Communicate monitoring location instructions via radio or cell phone using the location notation for the large area map in the EOF.
		(3)	Track and control OSCAR location using a smaller scale map as appropriate.

TAB C EP-PS-247-C Revision 2 Page 2 of 4

SPECIFIC TASKS:	HOW:
	1b. With the affected Field Team selected of the MSPS, the associated radiological data (<i>Current Rate</i> and <i>Peak</i>) will still be displayed on the left side of the screen.
	In this case, reports generated by RMS will <u>not</u> contain:
	(1) Location/sector data
	(2) Distance data
2. Loss of <u>Radiological Telemetry.</u>	2a. In this case, the Field Team location marker will be displayed on the MSPS, but no radiological data will be displayed on the left side of the screen.
	(1) Track Field Team location by monitoring the MSPS.
	(2) Direct each Field Team to communicate the radiological survey data to you via radio or cell phone.
	(3) Record the radiological survey data reported by the Field Team on the <i>Survey Data Form-RMS</i> <i>Partially Operable</i> and give to DAST.
	HELP
	Survey Data Form-RMS Partially Operable See TAB 7

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TAB C EP-PS-247-C Revision 2 Page 3 of 4

SPE	CIFIC TASKS:	HOW:	
3.	Loss of both <u>Locational</u> and <u>Radiological Telemetry</u> .	3a.	First hit the [F8] key (this will transfer the RMS display source from the EOF to the TSC via phone line). If this results in the recovery of radiological and/or locational telemetry, then the prior loss was due to a problem with the primary repeater between the TSC and EOF.
			via TSC display
			NOTE: Since all RMS data and commands are now being communicated via phone line, expect a short time delay with RMS operations.
		3b.	If transferal of the RMS display source does not work, <u>simultaneously</u> follow the guidance outlined above in steps 1 and 2.
4.	RMS System "locked-up" (i.e., system no longer responding to commands)	4a.	Attempt to restart RMS system by simultaneously depressing the CONTROL-ALT-DELETE Keys.
		4b.	The system restart is completely automatic and takes about 10 minutes. When startup completed, access Mobile Survey Plot and verify RMS operability by following steps 1.2 - 1.7 of TAB 2.
			NOTE: Until RMS operability restored, conduct field monitoring via TAB D.
5.	If RMS Keyboard is "locked-up" (i.e., depressing the CONTROL-ALT-DELETE <u>fails</u> to restart the system), shutdown then restart RMS System.	5a.	Open the access door (located directly under keyboard) to the base station housing and locate the PC tower.

TAB C EP-PS-247-C Revision 2 Page 4 of 4

	•		
SPE	CIFIC TASKS:	HOW:	
		5b.	Depress the POWER button to turn the power off, wait 20 - 30 seconds, then depress the POWER button again to restart.
		5c.	The system restart is completely automatic and takes about 10 minutes. When startup completed, access Mobile Survey Plot and verify RMS operability by following steps 1.2 - 1.7 of TAB 2.
			NOTE: Until RMS operability restored, conduct field monitoring via TAB D.
6.	If <u>at any point</u> the RMS equipment inside the OSCAR Van is determined to be inoperable, then continue radiological monitoring in accordance with TAB D.		

TAB D EP-PS-247-D Revision 1 Page 1 of 5

MAJOR TASK:

Field Team Monitoring with RMS inoperable.

SPECIFIC TASKS:				
· 1.	Verify operation of the VHF radio.	1a.		act HP Radioman in the TSC to let now that you have arrived at the
2.	Ensure that the HP Radioman has transmitted all available logs	2a.		n the following information from the adioman in the TSC:
	containing relevant field team data to the Field Team Director (FTD) at the EOF.		(1)	OSCAR Team Member(s) name
1			(2)	OSCAR Team Member(s)initial dose (YTD)
			(3)	Team Members' names, initial doses (YTD), and team designator (e.g., ALPHA) for any other field team(s) dispatched from the TSC.
			(4)	Current dose extensions
			(5)	Sectors / Locations monitored, and by which field teams
•			(6)	Results for previously monitored sectors / locations
3.	If available, refer to a visual display of			

3. If available, refer to a visual display of the plume path predicted by MIDAS.

TAB D EP-PS-247-D Revision 1 Page 2 of 5

SPI		HOW	• •	
4.	Determine monitoring strategy and brief the Field Teams.		F	HELP Field Monitoring Strategy Notes
		4a.	Take	See TAB 3, Sections 3.0 and 4.0 Control of OSCAR and any other team(s) dispatched from the TSC.
			(1)	Obtain a target time from DASU for taking control of the field team(s), and coordinate with HP Radioman in TSC.
			(2)	When diffected by DASU, take control of the field team(s).
			(3)	Inform the field team(s) and the HP Radioman that the field team(s) is/are now being directed by the FTD in EOF, and request that they report their present location(s).
		4b.	Brief	and dispatch Field Teams:
			S	E: insure Field Team members have igned in on RWP #8002 (RWP 8001 is applicable to OSCAR).
l			d	E: Field Teams have already been ispatched, conduct a briefing via adio or cell telephone.
				HELP
			Fi	ield Monitoring Strategy Notes See TAB 3, Section 1.0
			(1)	Log names, YTD dose, and cell phone numbers in FTD Log.
			(2)	Describe the monitoring strategy; including the sectors to be monitored.

TAB D EP-PS-247-D Revision 1 Page 3 of 5

SPECIFIC TASKS:		HOW:		·····	
			(3)	Record a summary of the completed Field Team briefing in FTD Log.	
			(4)	Verify VHF Radio or Cell Phone operability with Field Teams.	
5.	Notes on Communications between the FTD and the Field Teams.	5a.	are u comr	the EOF to Nanticoke, cell phones sually the best means for nunications between the FTD and ield Teams.	
		5b.	usua comr	n of Nanticoke the VHF Radio is Ily the best means for nunications between the FTD and ield Teams.	
6.	Direct the Field Teams to traverse the		HELP		
	potentially affected sectors to locate the plume with their survey meters.			ield Monitoring Strategy Notes ee TAB 3, Sections 3.0 and 4.0	
7.	Once plume is located, use OSCAR for further plume characterization. Alpha and Bravo Field Teams should then be used to track the plume movement by monitoring the plume boundaries.	7a.	trave manu	nditions warrant it, direct OSCAR to rse the plume and perform a ual air sample at the location inside lume with the highest survey meter ng.	
		7b.	not b Brave gas t	Id Team members exposure would e unduly affected, use Alpha and b team air samples to validate noble o iodine ratios and demonstrate e depletion with distance.	
8.	Record each survey data report from			HELP	
	the Field Teams on a <i>Survey Data</i> <i>Form (RMS Inoperable)</i> , and give each form to the DAST.		Sur	vey Data Form (RMS Inoperable) See TAB 7	
9.	Repeat steps 6 – 8 as necessary until release is terminated, balancing the need for data with the exposure to team members to gather the data.		-		

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				Page 4 of 5
SPE		HOW:		······································
10.	FTD must track Field Teams' Whole Body exposure by periodically recording their SRD readings in the FTD General Log.	10a.	Team or if te	diately notify the DAST if a Field member requires a dose extension eam radiological control warrants onal management attention.
				HELP
			Fi	eld Monitoring Strategy Notes See TAB 3, Section 5.0
11.	Personnel changes will occur inside the EPZ at a pre-determined location in an unaffected sector.	11a.	Direct the Off-going Field Team(s) to:	
			(1)	Immediately proceed to the designated County Decontamination Facility,
				HELP
				County Decontamination Facility Locations See TAB 6
			(2)	Return to EOF for debriefing.
		11b.	Prote	DSCAR team may return to the site cted Area with the concurrence of SC radiation protection staff.

- 12. At the termination of the release, the Field Team vehicles will be directed (with the DASU's permission) to the designated County Decontamination Facility.
- 12a. Upon being decontaminated, the off-going Field Team personnel shall proceed to the EOF for debriefing and meet with environmental sampling personnel to form unified monitoring teams.
- 12b. Upon vacating the Field Team vehicle, any sampler or radioactive waste generated during the course of field monitoring activities shall be locked-up inside the vehicle until Effluents Management can take custody of the vehicle.
- 12c. The Field Team vehicles will be posted as contaminated and their location/status reported to the FTD.

TAB D EP-PS-247-D Revision 1 Page 5 of 5

SPECIFIC TASKS:	HOW:
	12d. The OSCAR team vehicle's disposition should be discussed with the TSC radiation protections staff.

TAB E EP-PS-247-E Revision 2 Page 1 of 3

MAJOR TASK:

Performance of liquid release calculations **SPECIFIC TASKS:** HOW: Confirm a liquid release into the Contact the TSC Chemistry Coordinator 1. 1a. or TSC Coordinator to confirm there has Susquehanna river. been a liquid release into the river equal to or exceeding Technical Requirements limits. NOTE: **Technical Requirements limits are ten** times the effluent concentrations for Unrestricted areas as listed in Appendix B, Table 2, 10 CFR20.1001-20.2402. 1b. Obtain the following release information: (1) Time release started (2) Time release stopped (if applicable) **Cooling Tower blowdown** (3) discharge line rate. Cooling tower blowdown (4) discharge to the river. Spray pond release rate (5) (if applicable) (6) Spray pond water elevation (if applicable) Radionuclide(s) and activities in (7) the release River depth (at river intake or (8) Env. Lab.) (9) Sample locations **Previous liquid release** · (10) calculations Notifications made (11)

TAB E EP-PS-247-E Revision 2 Page 2 of 3

SPECIFIC TASKS:

- HOW:
- 2. Notify the Dose Assessment Supervisor, (DASU), when a liquid release into the river is equal to or exceeds Technical Requirements limits.
- 3. Notify the Public Information Manager when a liquid release into the river is equal to or exceeds Technical Requirements limits.
- 4. Perform a liquid release calculation to facilitate a PAR determination.

NOTE:

Remind the DASU to ensure the Radiological Liaison notifies the Danville Water Company of the release and activation of the SSES Emergency Pian.

NO RECOMMENDATIONS SHOULD BE MADE TO THE DANVILLE WATER COMPANY.

NOTE:

Telephone numbers are located in the Emergency Telephone Directory available at each workstation.

4a. The calculation may be performed using either the Liquid Discharge Data Program software (located on the PPL intranet, shared "S" drive, as Liquid Discharge Data Program) or the Liquid Discharge Data Sheets (manual method). The methodologies and results are comparable.

HELP

Liqui	d Discharge	Data Sheets	
	See TA	B 4	

- 4b. Obtain the results of the gamma analysis for a sample of the water being released into the Susquehanna river from the TSC Chemistry Coordinator or TSC Coordinator.
- 4c. Determine which of the fifteen radionuclides listed in parts I, II and III of the "Liquid Discharge Data Sheet" have been identified in the sample.

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SPECIFIC TASKS:		HOW:		
		4d.	Enter the activity concentrations, (uCi/ml), for these radionuclides in the appropriate table in the applicable part of the "Liquid Discharge Data Sheet". Enter zeros for the activity concentrations of the listed radionuclides that were not identified in the sample.	
		4e.	Determine the EC fraction for each individual radionuclide identified in the sample using either Part I, II or III of the "Liquid Discharge Data Sheet".	
		4f.	Determine the diluted sum of the EC fractions at Danville using Part IV of the "Liquid Discharge Data Sheet".	
		4g.	Notify the DASU when the diluted sum of the EC fractions at Danville exceeds 0.85.	
5.	Direct Emergency Environmental Sampling Teams in the monitoring of an unusual liquid release.	5a.	Reference EP-PS-248, ("Environmental Sampling Director" instruction), Tab E.	
		5b.	When necessary, call out a second FTD to perform the function of Environmental Sampling Director.	

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