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Reuse Book 107 for new
procedure and tabs
EP-PS-134

A045

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134 - HEALTH PHYSICS RADIOMAN: EMERGENCY PLAN
POSTION SPECIFIC INSTRUCTION

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PROCEDURE COVER SHEET

PPL SUSQUEHANNA, LLC		NUCLEAR DEPARTMENT PROCEDURE	
HEALTH PHYSICS RADIOMAN: Emergency Plan Position Specific Instruction			EP-PS-134 Revision 0 Page 1 of 3
<u>QUALITY CLASSIFICATION:</u> <input type="checkbox"/> QA Program <input checked="" type="checkbox"/> Non-QA Program		<u>APPROVAL CLASSIFICATION:</u> <input type="checkbox"/> Plant <input type="checkbox"/> Non-Plant <input checked="" type="checkbox"/> Instruction	
EFFECTIVE DATE: <u>5-24-2002</u>			
PERIODIC REVIEW FREQUENCY: <u>Two Years</u>			
PERIODIC REVIEW DUE DATE: <u>5-24-2004</u>			
<u>RECOMMENDED REVIEWS:</u> All			
Procedure Owner: <u>Nuclear Emergency Planning</u>			
Responsible Supervisor: <u>Primary Radiation Protection Coordinator</u>			
Responsible FUM: <u>Supervisor-Nuclear Emergency Planning</u>			
Responsible Approver: <u>General Manager-Plant Support</u>			

HP RADIOMAN:

Emergency Plan-Position Specific Procedure

WHEN: Activation of TSC

HOW NOTIFIED: Working hours - assigned by Foreman

REPORT TO: TSC Dose Calculator

WHERE TO REPORT: TSC

OVERALL DUTY:

Locate and perform surveys of the plume using OSCAR and/or RMS.

MAJOR TASKS:

TAB:

REVISION:

Obtain briefing on emergency, the status of OSCAR, and verify operational status of RMS.

TAB A

0

Radiological monitoring with RMS **fully operational**.

TAB B

0

Radiological monitoring with RMS **partially operational**:

TAB C

0

- Loss of Locational Telemetry
and/or

- Loss of Radiological Telemetry

Radiological monitoring with RMS **Inoperable**.

TAB D

0

Turnover of OSCAR to EOF

TAB E

0

SUPPORTING INFORMATION:

TAB:

RMS Instructions

TAB 1

Forms

TAB 2

- 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 Tracking Form

REFERENCES:

SSES Emergency Plan

NUREG-0654, Planning Standards and Evaluation Criteria

NUREG-0731, Guidelines for Utility Management Structure and Technical Resources,
September 1980

MAJOR TASK:

Obtain briefing on emergency, the status of OSCAR, and verify operational status of RMS.

NOTE: Turnover of Dose Assessment functions from the TSC to the EOF can occur at any point during this procedure; refer to TAB E for instructions for conducting turnover of OSCAR to the Field Team Director in the EOF.

SPECIFIC TASKS:

HOW:

1. Notify the TSC Dose Calculator of your arrival. If the TSC Dose Calculator is not present, inform the HP II Dose Calculator or RPC of your arrival.

2. Initiate the **Radioman's Log** for HP Radioman.

NOTE:

This log should be located in the Radioman's desk drawer.

3. Obtain information on the history and current state of the emergency from either the TSC Dose Calculator, HP II Dose Calculator, or RPC.

3a. Obtain information for the following questions and record in the **Radioman's Log**:

- (1) Whether a release is in progress (or imminent)?
- (2) The nature of the release?
- (3) The wind direction, speed, and atmospheric stability?
- (4) Projected affected sector?
- (5) The emergency classification?

SPECIFIC TASKS:

HOW:

4. Obtain status of OSCAR from HP II Dose Calculator.

4a. Obtain information for the following questions and record in the **Radioman's Log**:

- (1) Name of OSCAR tech and YTD TEDE?
- (2) OSCAR dispatched?
- (3) Radio contact with OSCAR established?
- (4) OSCAR's current instructions and location?

5. Verify operational status of OSCAR and fixed monitors (*operational, partially operational, or inoperable*) of RMS, and record in the **Radioman's Log**.

HELP

RMS Setup / Operational Check
See TAB 1, Section 1.0

5a. If there is no evidence of radiological telemetry being transmitted to the System Summary Screen:

- (1) Have OSCAR verify the operational status of the RMS equipment inside the Van.
 - (a) If the RMS equipment inside the OSCAR Van is still 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.

MAJOR TASK:

Radiological Monitoring with RMS fully operational.

NOTE: Turnover of Dose Assessment functions from the TSC to the EOF can occur at any point during this procedure; refer to TAB E for instructions for conducting turnover of OSCAR to the Field Team Director in the EOF.

SPECIFIC TASKS:

HOW:

1. Setup the VHF radio.

1a. Rotate the volume control knob clockwise to an adequate level.

1b. Press the F1 button on the radio for Channel 1.

2. Conduct a radio check with OSCAR.

NOTE:

Wait until OSCAR is inside the Van to perform a check of the portable and mobile radios.

2a. Depress button on handset to transmit.

2b. The TX light and the F1 light will illuminate.

2c. Release button on handset to receive (TX light will go out).

NOTE:

If Channel 1 is inoperable, use Channel 2 (use F2 button, TX and F2 lights will illuminate when transmitting).

3. If HP II Dose Calculator is already in control of OSCAR, conduct a turnover and take control of OSCAR.

NOTE:

Skip this turnover step if OSCAR is already under control of the HP Radioman.

3a. Notify the TSC Dose Calculator when you are ready to assume control of OSCAR.

SPECIFIC TASKS:

HOW:

4. Direct Oscar and employ the RMS Monitoring Strategy.

- 3b. With the HP II Dose Calculator's concurrence, contact and inform OSCAR that you are taking over from the HP II Dose Calculator.
- 3c. Record turnover in the **Radioman's Log**.

HELP

RMS Instructions
See TAB 1, Section 2.0

NOTE:

RMS will alarm when the OSCAR technician source checks the iodine channel. Confirm OSCAR's source check status (clear alarm due to source check by depressing [Alt] [c]).

NOTE:

If RMS Base Station is not receiving radiological telemetry from OSCAR, refer to TAB A, Step 5a.

5. Track whole body exposure of OSCAR technician(s), and monitor iodine CDE dose rates at OSCAR sampling locations.

- 5a. After each traverse of the plume or high dose rate area, request an SRD reading and record in the **Radioman's Log**.
- 5b. Notify the TSC Dose Calculator immediately if YTD exposure plus current SRD readings are within 200 mrem of a OSCAR's applicable dose limit, and immediately position OSCAR in a low dose rate area. Do not send OSCAR back into the plume without the direction of the TSC Dose Calculator.

SPECIFIC TASKS:

HOW:

5c. Initiate tracking of CDE Iodine and TEDE via the *Calculation and Tracking Sheet for Estimated Iodine CDE and TEDE Doses Form* in **TAB 2** when:

- (1) The Iodine CDE dose rate at a team sampling location exceeds 1,000 mrem/hr (1,200 cpm frisker).
- (2) OR When directed by the TSC Dose Calculator.

HELP

**Calculation and Tracking Sheet for
Estimated Iodine CDE and TEDE
Doses Form
See TAB 2**

6. Conduct any necessary turnover as directed by HP II Dose Calculator or TSC Dose Calculator.

7. At the termination of the release, the OSCAR Van will be directed (with the RPC's permission) to a designated location to be surveyed and decontaminated as necessary.

7a. Upon being decontaminated, the off-going OSCAR Technician(s) shall proceed to TSC (or other designated location) for debriefing.

7b. Upon vacating the OSCAR Van, any known or suspected radioactive waste generated during the course of field monitoring activities shall be locked-up inside the vehicle (and appropriately posted) until Effluents Management can take custody of the vehicle.

7c. The exterior surfaces of the OSCAR Van will be decontaminated. After deconning the Van, return it to a ready condition at the normal standby location.

MAJOR TASK:

Radiological 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.

If a different RMS deficiency occurs that also results in RMS being put in a *partially operational* condition, consult with the TSC Dose Calculator, RPC, or the oncoming FTD in the EOF to determine a means of compensating for the deficiency and enabling the continued use of RMS.

SPECIFIC TASKS:

HOW:

1. **Loss of Locational Telemetry**

- 1a. In the event you are permanently unable to track OSCAR's location on the Mobile Survey Plot Screen (MSPS):
- (1) Manually track OSCAR's location on the large area map in the TSC.
 - (2) Communicate monitoring location instructions via radio using the **Onsite Emergency Monitoring Locations** form located in **TAB 1**.
 - (3) Record sectors traversed by OSCAR in the **Radioman's Log**.
- 1b. With OSCAR's gamma or iodine channels selected on the MSPS, the associated radiological data (*Current Rate* and *Peak*) will still be displayed on the left side of the screen. Reports can still be generated and printed as specified in **TAB 1, Section 2**.

SPECIFIC TASKS:

HOW:

2. Loss of Radiological Telemetry

2a. In this case you will still be able to see OSCAR's location marker displayed on the MSPS, but there will **not** be any radiological data displayed on the left side of the screen.

- (1) Track OSCAR's location by monitoring the MSPS.
- (2) Direct OSCAR to communicate the radiological survey data to you via radio or cell phone.
- (3) Record the radiological survey data reported by OSCAR on the *Survey Data Form (with RMS Partially Operable)* located in **TAB 2** and give to TSC Dose Calculator.

HELP

**Survey Data Form - RMS
Partially Operable
See TAB 2**

3. Loss of both Locational AND Radiological Telemetry

3a. First hit the **[F8]** key (this will transfer the RMS display source from the TSC to the EOF via phone line). If this results in the recovery of radiological and/or locational telemetry, then the prior telemetry loss was due to a problem with the local repeater at the TSC.

Continue management of OSCAR via the EOF display.

NOTE:

Since all RMS data and commands are now being communicated via phone line, expect a short time delay with RMS operations

SPECIFIC TASKS:

HOW:

4. If the RMS equipment inside the OSCAR Van is determined to be inoperable, then continue radiological monitoring in accordance with **TAB D**.
- 3b. If transferal of the RMS display source does not work, simultaneously follow the guidance for each condition outlined above in **steps 1 and 2**.

MAJOR TASK:

Radiological Monitoring with RMS Inoperable.

NOTE: Turnover of Dose Assessment functions from the TSC to the EOF can occur at any point during this procedure; refer to TAB E for instructions for conducting turnover of OSCAR to the Field Team Director in the EOF.

SPECIFIC TASKS:

HOW:

1. Setup the VHF radio.

1a. Rotate the volume control knob clockwise to an adequate level.

1b. Press the **F1** button on the radio for **Channel 1**.

2. Conduct a radio check with OSCAR.

NOTE:

Wait until OSCAR is inside the Van to perform a check of the portable and mobile radios.

2a. Depress button on handset to transmit.

2b. The **TX** light and the **F1** light will illuminate.

2c. Release button on handset to receive (**TX** light will go out).

NOTE:

If Channel 1 is inoperable, use Channel 2 (use **F2 button, **TX** and **F2** lights will illuminate when transmitting).**

3. If HP II Dose Calculator is already in control of OSCAR, conduct a turnover and take control of OSCAR.

NOTE:

Skip this turnover step if OSCAR is already under control of the HP Radioman.

3a. Notify the TSC Dose Calculator when you are ready to assume control of OSCAR.

SPECIFIC TASKS:

HOW:

-
- | | |
|---|--|
| 4. Direct OSCAR to traverse the potentially affected sectors to locate the plume with their dashboard mounted survey meter. | 3b. With the HP II Dose Calculator's concurrence, contact and inform OSCAR that you are taking over from the HP II Dose Calculator. |
| 5. Once plume is located, use OSCAR for further plume characterization. | 3c. Record turnover in the Radioman's Log . |
| 6. Record each survey data report from OSCAR on a <i>Survey Data Form (RMS Inoperable)</i> , and give each form to the TSC Dose Calculator. | 5a. Have OSCAR locate/report the plume boundaries. |
| 7. Repeat steps 4 - 6 until directed by TSC Dose Calculator to do otherwise. | 5b. If conditions warrant, direct OSCAR to traverse the plume and perform a manual air sample at the location inside the plume with the highest survey meter reading. |
| 8. Track whole body exposure of OSCAR technician(s), and monitor Iodine CDE rates at OSCAR sampling locations. | 8a. After each traverse of the plume or high dose rate area, request an SRD reading and record in the Radioman's Log . |
| | 8b. Notify the TSC Dose Calculator promptly when any of the following conditions are reported by OSCAR: <ul style="list-style-type: none">(1) Dose Rates \geq 1,000 mrem/hr(2) Cartridge Readings > 1,200 ccpm(3) Particulate Readings > 2,000 ccpm |
- **HELP**

Survey Data Form - RMS Inoperable
See TAB 2

SPECIFIC TASKS:

HOW:

8c. Notify the TSC Dose Calculator immediately if YTD exposure plus current SRD/PAD readings are within 200 mrem of a OSCAR's applicable dose limit, and immediately position OSCAR in a low background area. Do not send OSCAR back into the plume without the direction of the TSC Dose Calculator.

8d. Initiate tracking of CDE Iodine and TEDE via the *Calculation and Tracking Sheet for Estimated Iodine CDE and TEDE Doses Form* in **TAB 2** when:

(1) The Iodine CDE dose rate at a team sampling location exceeds 1,000 mrem/hr (1,200 ccpm frisker)

OR

(2) When directed by the TSC Dose Calculator.

HELP

**Calculation and Tracking Sheet for
Estimated Iodine CDE and TEDE
Doses Form
See TAB 2**

9. At the termination of the release, the OSCAR Van will be directed (with the RPC's permission) to a designated location to be surveyed and decontaminated as necessary.

9a. Upon being decontaminated, the off-going OSCAR Technician(s) shall proceed to TSC (or other designated location) for debriefing.

9b. Upon vacating the OSCAR Van, any known or suspected radioactive waste generated during the course of field monitoring activities shall be locked-up inside the vehicle (and appropriately posted) until Effluents Management can take custody of the vehicle.

SPECIFIC TASKS:

HOW:

- 9c. The exterior surfaces of the OSCAR Van will be decontaminated. After deconning the Van, return it to a ready condition at the normal standby location.

MAJOR TASK:

Turnover of OSCAR to EOF.

SPECIFIC TASKS:

HOW:

1. Once you have been notified that the FTD has arrived at the EOF, Fax any available logs containing relevant OSCAR data to the FTD at the EOF.

- 1a. Pass on the following information.

NOTE:

This would include data forms and the Radioman's Log.

- (1) OSCAR Team Member's name
- (2) OSCAR's initial dose (YTD)
- (3) Current approved dose extensions
- (4) Sectors/Locations monitored
- (5) Results for previously monitored sectors/locations
- (6) OSCAR's current instructions and location

2. Turnover Control of OSCAR to the FTD.

- 2a. Obtain a target time from the RPC for turning over control of OSCAR to the FTD - coordinate with the FTD in the EOF.

- 2b. When directed by the RPC, turnover control of OSCAR to the FTD.

- 2c. Inform OSCAR they are now being directed by the FTD in EOF.

- 2d. Notify RPC that control of OSCAR is now with the FTD in EOF.

3. Secure HP Radioman duty station and support site response/recovery as directed by the RPC.

REMOTE MONITORING SYSTEM BASE STATION INSTRUCTIONS

- 1.0 Perform RMS Setup/Operational Check prior to initiating OSCAR field monitoring.

NOTE: For RMS keyboard command reference, see *RMS Keyboard Commands* included within this tab.

- 1.1 On the RMS terminal, open the panel located above the keyboard and rotate the power switch (first knob, right side) to the ON position.
 - 1.2 Select the Area Monitor Coverage Screen using [**←**] and [**ENTER**].
 - 1.3 Input BASE for the requested user name, then [**ENTER**].
 - 1.4 Input STATION for the requested password, then [**ENTER**].
 - 1.5 Select [**1**] to bring up the Mobile Survey Plot (MSP).
 - 1.6 Select [**S**] to display the System Summary Screen.
 - 1.7 Verify RMS operability.
 - 1.7.1 If each *available* Fixed and Remote Monitor reading displayed on the System Summary Screen is being updated approximately every 10 seconds, RMS is considered to be *fully functional*. Proceed to Tab B (depress the [**1**] key to restore MSP screen).
 - 1.7.2 If all of the Fixed and Remote Monitors shown on the System Summary Screen are NOT being updated (i.e., there is no incoming radiological telemetry), then go to Tab A, Step 5a (depress the [**1**] key to restore the MSP screen).
- 2.0 Implement RMS Monitoring Strategy in accordance with the flowchart on the following page.
 - 2.1 Use the [**ESC**] key to go back to the Mobile Survey Plot screen (selection #1 on the Group #5 screen).

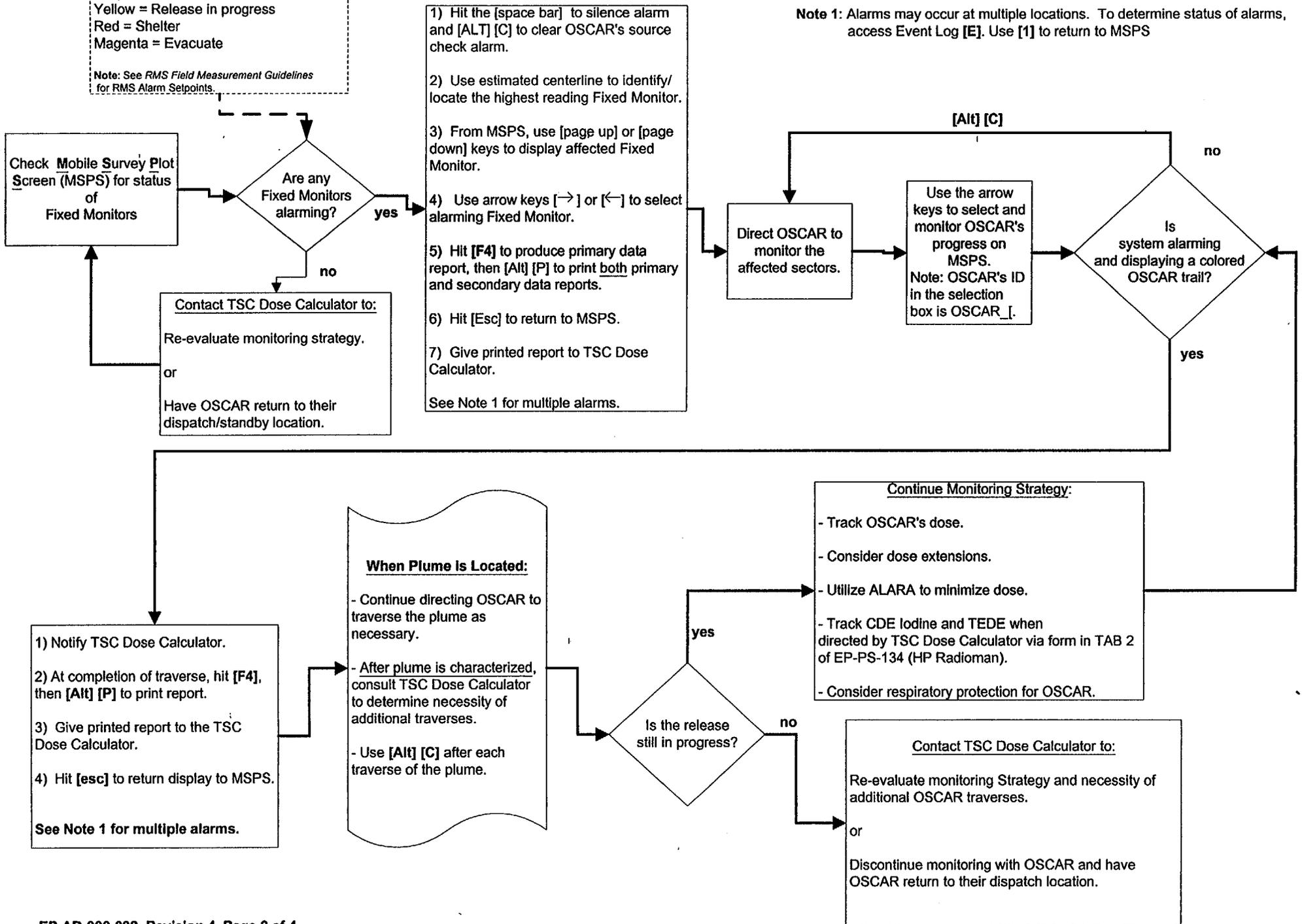
ALARMING CONDITIONS

Clear = Off-line
 Gray = On-line
 Yellow = Release in progress
 Red = Shelter
 Magenta = Evacuate

Note: See RMS Field Measurement Guidelines for RMS Alarm Setpoints.

RMS MONITORING STRATEGY

Note 1: Alarms may occur at multiple locations. To determine status of alarms, access Event Log [E]. Use [1] to return to MSPS

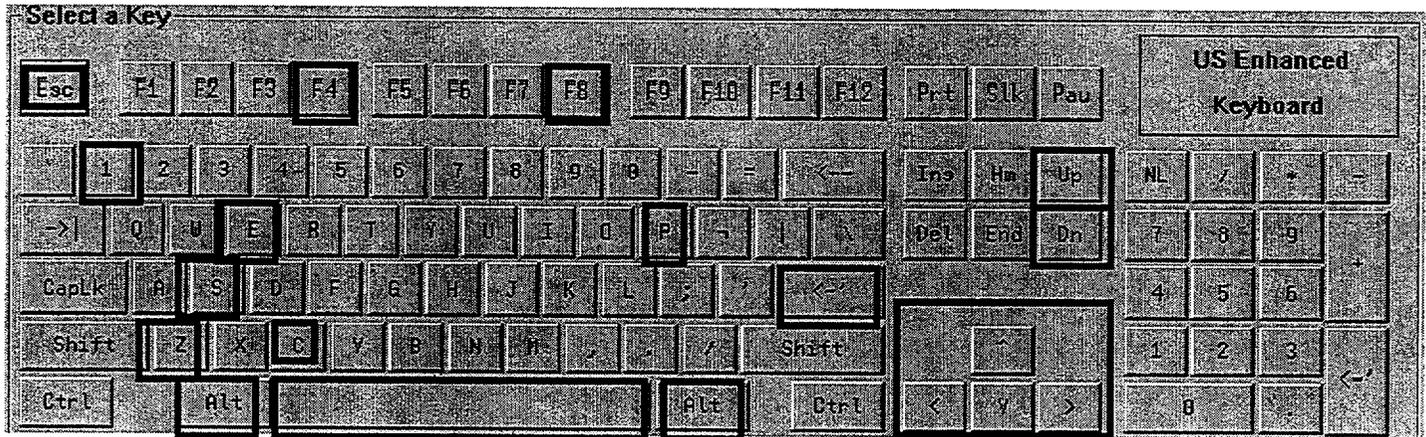


RMS FIELD MEASUREMENT GUIDELINES

	RELEASE	SHELTER	EVACUATE
<u>RMS</u>		<u>mrem/hr</u>	
GAMMA DOSE RATE:	0.1	16.0	160
CHILD THYROID CDE DOSE RATE:	68.4	82.8	828
<u>FRISKER</u>		<u>Net CPM</u>	
AIR SAMPLE (CARTRIDGE):	100	120	1200
<hr style="border: 1px solid black;"/>			
Notify TSC Dose Calculator	ASAP	ASAP	IMMEDIATE

MAGENTA DATA: Indicates the need for immediate consideration of field
(last column) team protective actions

RMS Keyboard Commands



[S]: System Summary Screen

[E]: View Event Log

[1]: Display MSP from Main Menu
Return to MSP from Event Log

[←], [↑], [↓], [→] : Move Cursor (left, up, down, right) to select displayed radiological telemetry

[ENTER]: Inputs command / selection

[PAGE UP]: Pages Up Through System Formats

[PAGE DOWN]: Pages Down Through System Formats

[ALT] [Z]: Zoom MSP Maps In and Out

[SPACE BAR]: Silences Alarm

[F4]: Generate Report

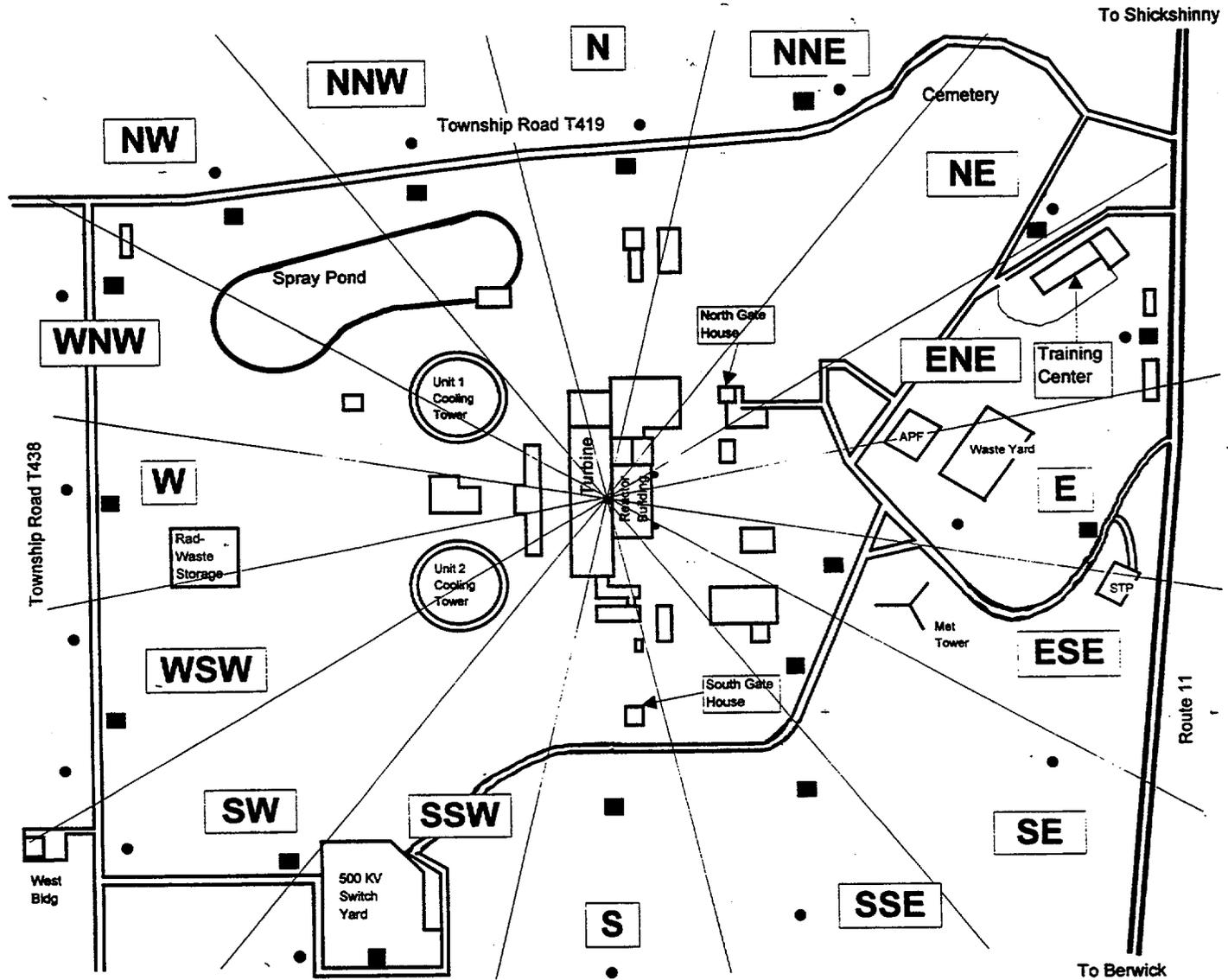
[ALT] [P]: Print Generated Report

[ESC]: Previous Screen

[ALT] [C]: Clears OSCAR's Trail off MSP

[F8]: Transfers display source from EOF to TSC

ONSITE EMERGENCY MONITORING LOCATIONS



- Remote Monitoring Station Locations
- OSCAR Monitoring Team Locations

SURVEY DATA FORM
(with RMS Partially Operable)

FIELD TEAM: _____

DATE/TIME (military): _____ / _____

LOCATION/SECTOR: _____ DISTANCE: _____ miles

Exposure Data

Name: _____	SRD Reading: _____ mR
Badge Slot # _____	
Name: _____	SRD Reading: _____ mR
Badge Slot # _____	

Field Team RMS Gamma Dose Rate:

_____ mR/hr

OSCAR Total Iodine Dose Rate:

_____ mR/hr

SURVEY DATA FORM (with RMS Inoperable)

FIELD TEAM: _____

DATE/TIME (military): _____ / _____

SECTOR: _____ DISTANCE: _____ miles

Exposure Data

Name: _____	SRD Reading: _____ mR
Badge Slot # _____	
Name: _____	SRD Reading: _____ mR
Badge Slot # _____	

Radiation Survey

Survey Meter HP # _____

CW mR/hr

Air Sample

Air Sampler # _____

Frisker HP # _____

	<u>Cartridge</u>	<u>Particulate</u>
Sample Count Rate:	_____ cpm	_____ cpm
Bkgd Count Rate:	_____ cpm	_____ cpm
Corrected Count Rate: (sample - Bkgd)	ccpm	_____ ccpm

**CALCULATION AND TRACKING SHEET FOR
ESTIMATED IODINE CDE AND TEDE DOSES**

USE THIS FORM:

1. When the iodine CDE dose rate at a team sampling location exceeds 1,000 mrem/hr. (1,200 cpm frisker).
OR
2. As directed by the TSC Dose Calculator or the DAST.

Methodology:

1. Initiate this form. Identify the affected team and the highest year-to-date (YTD) dose for any individual on the team.
2. Enter the time, current SRD dose and iodine to gamma ratio (I/γ). (Note: Iodine to gamma ratio can be obtained from the RMS Emergency Field Monitoring Secondary Data Report.) The highest ratio obtained since tracking was initiated should be used (obtain from previously printed reports).

3. Calculate the iodine CDE:

$$\text{SRD} \times I/\gamma = \text{CDE (mrem)}$$

4. Calculate TEDE:

$$\text{CDE} \times 0.03 + \text{SRD} + (\text{YTD}) = \text{TEDE (mrem)}$$

5. Notify the TSC Dose Calculator or DAST immediately and pull the team to a low background area if any member of a team reaches or exceeds the following:

TEDE = 3800 mrem

CDE = 10,000 mrem

TEAM: _____ Year-to-Date (YTD) Dose: _____

Date/Time	SRD Dose (mrem)	Iodine/gamma Ratio (I/γ)	Iodine CDE (mrem)	TEDE (mrem)

