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

130 - 130 - HP II DOSE CALCULATOR: 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-130

REMOVE: REV:16

ADD: REV: 17

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A045

PROCEDURE COVER SHEET

PPL SUSQUEHANNA, LLC		NUCLEAR DEPARTMENT PROCEDURE	
HP II DOSE CALCULATOR: Emergency Plan Position Specific Instruction			EP-PS-130 Revision 17 Page 1 of 3
QUALITY CLASSIFICATION: <input type="checkbox"/> QA Program <input checked="" type="checkbox"/> Non-QA Program		APPROVAL CLASSIFICATION: <input type="checkbox"/> Plant <input type="checkbox"/> Non-Plant <input checked="" type="checkbox"/> Instruction	
EFFECTIVE DATE: <u>6-26-2003</u> PERIODIC REVIEW FREQUENCY: <u>2 Years</u> PERIODIC REVIEW DUE DATE: <u>6-26-2005</u>			
RECOMMENDED REVIEWS: All			
Procedure Owner: <u>Nuclear Emergency Planning</u> Responsible Supervisor: <u>Radiation Protection Manager</u> Responsible FUM: <u>Supervisor-Nuclear Emergency Planning</u> Responsible Approver: <u>Vice President-Nuclear Operations</u>			

HP II DOSE CALCULATOR: Emergency Plan-Position Specific Instruction

WHEN: At request of Shift Manager

HOW NOTIFIED: Working hours - telephone call or plant page

REPORT TO: Shift Manager until TSC is activated, then TSC Dose Calculator

WHERE TO REPORT: Control Room initially, then TSC.

OVERALL DUTY:

Perform, validate, and report dose calculations.

MAJOR TASKS:

TAB:

REVISION:

Report to the Control Room.	TAB A	6
Obtain briefing from Shift Manager/Control Room personnel.	TAB B	3
Obtain meteorological data.	TAB C	4
Withdraw vent monitor data from SPING console.	TAB D	8
Perform dose calculations, then report results to those who request them.	TAB E	8
Initiate radio communications with and direct OSCAR and other field monitoring teams until relieved by the Health Physics Radioman.	TAB F	7
Validate dose calculations with field reading from OSCAR and other field monitoring teams and report.	TAB G	8
Once TSC is activated, maintain dose calculations and direct clerk.	TAB H	3

SUPPORTING INFORMATION:

TAB:

Intentionally Blank	TAB 1
Intentionally Blank	TAB 2
Intentionally Blank	TAB 3
Onsite Emergency Monitoring Locations	TAB 4
Intentionally Blank	TAB 5
Intentionally Blank	TAB 6
Public Protective Action Recommendation Guide	TAB 7
PPL Emergency Personnel Dose Assessment and Protective Action Recommendation (PAR) Guide	TAB 8
Met/Vent Data Acquisition	TAB 9
Vent Monitor Data Acquisition	TAB 10
MIDAS Dose Projection Computer Model Instructions	TAB 11
Intentionally Blank	TAB 12
I-131 Frisker Measurement: Conversion Factors	TAB 13
Intentionally Blank	TAB 14
Intentionally Blank	TAB 15
TSC Dose Assessment Flowchart	TAB 16

REFERENCES:

SSSES 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 from Shift Manager/Control Room personnel.

SPECIFIC TASKS:

HOW:

- | | |
|---|--|
| 1. Inform Shift Manager/Unit Supervision of your arrival. | 1a. Identify yourself as the "Dose Calculator." |
| 2. Obtain briefing from person holding the briefing. | 2a. Ask key questions, including: <ul style="list-style-type: none">(1) Is there a release in progress or is one imminent?(2) Should I prepare for dose calculations?(3) What is the cause or source of the release? |
| 3. Support Shift Manager/Control Room personnel, if not used for dose calculations. | 3a. Provide Inplant Team coverage upon request.
3b. If appropriate, direct INDIA Team to sign-in under RWP 8000. |

MAJOR TASK:

Obtain vent monitor data.

SPECIFIC TASKS:

HOW:

1. Obtain vent monitor data from PICSY.

1a. Obtain Noble Gas vent data. Utilize the default Noble Gas to Iodine ratio of 1,000 and the default Noble Gas to Particulate ratio of 10,000 until Chemistry provided iodine and particulate vent data.

NOTE:

"White" PICSY data is an indication of unreliable data. It may be normal and acceptable due to low or no flow in the SPING Monitor or may indicate a release exceeding the range of the instrument or an indication of instrumentation or computer interface problems.

HELP

Meteorological Data Acquisition
See TAB 9

HELP

Vent Monitor Data Acquisition
See TAB 10

HELP

TSC Dose Assessment Flowchart
See TAB 16

2. Assess reliability of data.

2a. If low confidence (white) PICSY data exists:

- (1) If the Control Room is in control, contact Operations to determine if condition is normal. If the TSC is in control, notify the TSC dose calculator of the low confidence (white) data.
- (2) Use appropriate alternate data such as grab sample (vent, PAVSS, HP air samples) results.

SPECIFIC TASKS:

HOW:

HELP

**TSC Dose Assessment
Flowcharts
See TAB 16**

- (3) Ensure OSCAR is taking air samples as appropriate and is maintaining their exposure ALARA.
- (4) Report conditions as a potential unmonitored or an unmonitored release depending on measured to projected dose rate ratios.
- (5) Initiate Back Calculations if field data is available.

MAJOR TASK:

Initiate radio communications with and direct OSCAR and other field monitoring team(s) until relieved by the Health Physics Radioman.

SPECIFIC TASKS:

HOW:

1. Initiate HP Radioman functions.

HELP

HP Radioman Instruction
EP-PS-134

NOTE:

Ensure the OSCAR technician
signs-in on RWP #8001.

Ensure the other field
monitoring team personnel
sign-in on RWP #8002.

2. Turn over control of OSCAR and other field monitoring teams to HP Radioman upon his arrival.

- 1a. Initiate a separate Radioman's Log for the HP Radioman Position.

- 2a. Provide the following information to the HP Radioman:

- (1) Name of OSCAR Technician and YTD TEDE.
- (2) Whether OSCAR has been dispatched.
- (3) Whether radio contact with OSCAR has been established.
- (4) OSCAR's current instructions and location.
- (5) Similar information from (1) through (4) above, regarding other field monitoring team personnel and team status.
- (6) Any RMS abnormalities.

MAJOR TASK:

Validate dose calculations with field team readings from OSCAR (and other teams) and report.

SPECIFIC TASKS:

HOW:

- | | |
|---|--|
| <p>1. Compare the peak field measurements obtained by OSCAR during their traverse through the plume to the OSCAR EDE and thyroid CDE dose rates projected by MIDAS.</p> | <p>1a. Periodically determine the following ratios:</p> <div style="margin-left: 40px;">$\frac{\text{OSCAR 3" closed window reading or RMS EDE dose rate}}{\text{MIDAS OSCAR EDE dose rate}}$<p>and</p>$\frac{\text{OSCAR air sample NET CPM X 0.7 or RMS Thyroid CDE dose rate}}{\text{MIDAS OSCAR Thyroid CDE dose rate}}$</div> <p>1b. If field readings are low (ratio < 0.1), the peak conditions may exist elsewhere. Continue search for higher field conditions.</p> <p>1c. If field readings are higher than the MIDAS projected dose rates (ratio > 1), initiate a Back Calculation and utilize the more conservative of the results.</p> <p>1d. If field results are considerably higher than the MIDAS projections (ratio > 5), an unmonitored release pattern may exist.</p> |
| <p>2. As time permits, compare the peak field measurement obtained by other field monitoring team(s) to the EDE projected by MIDAS for that monitoring location.</p> | <p>2a. Use the same methodology as described above for OSCAR. Note, however, that air sample results are not likely to be available from the other field monitoring team(s).</p> |
| <p>3. Report findings to Shift Manager/ED, OSC Coordinator or RPC.</p> | |