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TO: ~~GERLACH ROSE M~~      06/27/2003  
LOCATION: DOCUMENT CONTROL DESK  
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THE FOLLOWING CHANGES HAVE OCCURRED TO THE HARDCOPY OR ELECTRONIC MANUAL ASSIGNED TO YOU:

249 - 249 - EOF DOSE CALCULATOR

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-249

REMOVE:      REV: 0

ADD:      REV: 1

REMOVE: PCAF 2002-1660 REV: N/A

UPDATES FOR HARD COPY MANUALS WILL BE DISTRIBUTED WITHIN 5 DAYS IN ACCORDANCE WITH DEPARTMENT PROCEDURES. PLEASE MAKE ALL CHANGES AND ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX UPON RECEIPT OF HARD COPY. FOR ELECTRONIC MANUAL USERS, ELECTRONICALLY REVIEW THE APPROPRIATE DOCUMENTS AND ACKNOWLEDGE COMPLETE IN YOUR NIMS INBOX.

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# PROCEDURE COVER SHEET

|  |  |   |  |
|--|--|---|--|
| PPL SUSQUEHANNA, LLC   |  | NUCLEAR DEPARTMENT PROCEDURE  |  |
| <b>EOF DOSE CALCULATOR:</b><br><br>Emergency-Plan-Position Specific Instruction  |  |   | EP-PS-249<br>Revision 1<br>Page 1 of 3 |
| <b>QUALITY CLASSIFICATION:</b><br><input type="checkbox"/> QA Program <input checked="" type="checkbox"/> Non-QA Program   |  | <b>APPROVAL CLASSIFICATION:</b><br><input type="checkbox"/> Plant <input type="checkbox"/> Non-Plant<br><input checked="" type="checkbox"/> Instruction |  |
| EFFECTIVE DATE: <u>6-26-2003</u><br>PERIODIC REVIEW FREQUENCY: <u>Two Years</u><br>PERIODIC REVIEW DUE DATE: <u>6-26-2005</u>  |  |   |  |
| <b>RECOMMENDED REVIEWS:</b><br>All   |  |   |  |
| Procedure Owner: <u>Nuclear Emergency Planning</u><br>Responsible Supervisor: <u>Primary Dose Assessment Supervisor</u><br>Responsible FUM: <u>Supervisor-Nuclear Emergency Planning</u><br>Responsible Approver: <u>General Manager-Plant Support</u> |  |   |  |

**EOF DOSE CALCULATOR:**

Emergency-Plan-Position-Specific Instruction

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**WHEN:** EOF is activated  
**HOW NOTIFIED:** Paged/telephone  
**REPORT TO:** Dose Assessment Supervisor  
**WHERE TO REPORT:** Emergency Operations Facility

**OVERALL DUTY:**

Analyze plume characteristics and effects.

**MAJOR TASKS:**

**TAB:**

**REVISION:**

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|  |       |   |
|--|-------|---|
| Verify operability of PICSY and MIDAS.   | TAB A | 0 |
| Determine status of TSC dose calculations.   | TAB B | 0 |
| Monitor PICSY, (MET/VENT screen), notifying the Dose Assessment Staffer/Dose Assessment Supervisor of significant changes. | TAB C | 2 |
| Perform dose calculations.   | TAB D | 1 |

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**SUPPORTING INFORMATION:****TAB:**

|                                       |       |
|---------------------------------------|-------|
| Met/Vent Data Acquisition             | TAB 1 |
| MIDAS Operation Procedure             | TAB 2 |
| Intentionally Blank                   | TAB 3 |
| PICSY Vent Release Rates Guidelines   | TAB 4 |
| Intentionally Blank                   | TAB 5 |
| Identification of Release in Progress | TAB 6 |

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**REFERENCES:**

SSES Emergency Plan

NUREG-0654 Planning Standards and Evaluation Criteria

NUREG-0731 Guidelines for Utility Management Structure and Technical Resources

EPA Manual of Protective Action Guides and Protective Actions for Nuclear Incidents

FDA Guidance: "Accidental Radioactive Contamination of Human Food and Animal Feed  
Recommendations for State and Local Governments"  
Federal Register (pages 47073 to 47083)

NCRP Report 55, "Protection of the Thyroid Gland in the Event of Releases of Radioiodine"  
(National Council on Radiation Protection and Measurements)

NUMARC Graded Response Study

10 CFR Appendix B

National Interim Primary Drinking Water Regulations,  
(PA 570/9-76-003, U.S. Environmental Protection Agency, Washington D.C.)

Commonwealth of Penna. State Emergency Operations Plan

Luzerne County Emergency Response Plan

Columbia County Emergency Response Plan

EC-RADN-1002 MIDAS Source Term Calculation

**MAJOR TASK:**

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Monitor PICSY (MET/VENT screen), notifying the Dose Assessment Staffer and Dose Assessment Supervisor of significant changes.

**SPECIFIC TASKS:**

**HOW:**

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1. Monitor PICSY MET/VENT Screen.

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**HELP**

**METEOROLOGICAL DATA  
ACQUISITION  
See TAB 1**

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- 1a. Report met conditions that affect monitoring strategy currently in use to the Dose Assessment Supervisor and Dose Assessment Staffer.
- (1) Wind shift greater than 90°
  - (2) Wind change that alters affected sector
  - (3) Rain or snow
  - (4) Change of two or more stability classes based on  $\Delta t$  or sigma theta data.
- 1b. Report total release rate(s) change.
- (1) Data suspect (white)
  - (2) Release in progress identified

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**HELP**

**Identification of Release in  
Progress  
See TAB 6**

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- (3) EAL 15.1 or 15.2 criteria exceeded
- (4) Trend indicating potential for increase of release rate.

**MAJOR TASK:**

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Perform Dose Calculations

**SPECIFIC TASKS:**

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**HOW:**

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1. When directed by the Dose Assessment Supervisor/Dose Assessment Staffer, prepare to perform a MIDAS dose calculation.
2. Run MIDAS dose calculation.

**HELP**

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**MIDAS OPERATION PROCEDURE**  
See TAB 2

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- 2a. Follow directions provided for the type of calculation requested.
- 2b. Print two copies of the "MIDAS Dose Assessment Summary Sheet."
  - (1) Ensure inputs are correct.
  - (2) File one copy in the "Dose Calculator Log."
  - (3) Insert one copy in the "Dose Summary Package" for review with the DAST.

3. Review "MIDAS Dose Assessment Summary Sheet", verifying content.

**HELP**

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**PICSY VENT RELEASE RATE  
GUIDELINES**  
See TAB 4

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4. Assemble reports for review.

- 3a. Identify and report any release or EAL triggers that are exceeded to DAST.
- 3b. Initial and date the report when review is completed.
- 4a. Assemble reports in the following order:
  - (1) MIDAS Dose Assessment Summary Sheet

**SPECIFIC TASKS:**

**HOW:**

- |    |     |   |
|----|-----|---|
|    | (2) | Remote Monitoring Report applicable to Menu E-W calculations  |
|    | (3) | If projected doses exceed the PAG Values at 10 miles, the applicable MIDAS "More Reports" printout that indicates the distance in which the projected dose is less than the PAG values. |
| 5. |     | Review Dose Summary Package with the Dose Assessment Staffer.   |
|    | 5a. | File package for future reference. (The Dose Assessment Staffer may first discuss the Package contents with the Dose Assessment Supervisor.)  |