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

243 - 243 - RADIOLOGICAL LIAISON

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

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CATEGORY: PROCEDURES TYPE: EP
ID: EP-PS-243
REMOVE: REV: 4

ADD: REV: 5

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PROCEDURE COVER SHEET

PPL SUSQUEHANNA, LLC		NUCLEAR DEPARTMENT PROCEDURE	
RADIOLOGICAL LIAISON: Emergency Plan-Position Specific Instruction			EP-PS-243 Revision 5 Page 1 of 4
QUALITY CLASSIFICATION: () QA Program (X) Non-QA Program		APPROVAL CLASSIFICATION: () Plant () Non-Plant (X) 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>Primary Dose Assessment Supervisor</u> Responsible FUM: <u>Supv.-Nuclear Emergency Planning</u> Responsible Approver: <u>General Manager-Plant Support</u>			

RADIOLOGICAL LIAISON:

Emergency Plan-Position Specific Procedure

WHEN: Activation of the Emergency Operations Facility

HOW NOTIFIED: Paged/Telenotifications

REPORT TO: Dose Assessment Supervisor

WHERE TO REPORT: Emergency Operations Facility

OVERALL DUTY:

Communicate radiological/environmental status to the NRC and DEP/BRP.

MAJOR TASKS:

TAB:

REVISION:

Maintain the "Protective Action
Recommendation" Form

TAB A

4

Communicate with the NRC and Pa.
DEP/BRP regarding protective action
recommendations

TAB B

3

Communicate with the Danville Water
Authority and Pa. DEP/BRP regarding liquid
releases from SSES.

TAB C

3

Maintain ongoing communications with the
NRC and off-site agencies regarding
radiological concerns.

TAB D

2

Maintain ongoing communications with the
Public Information Manager or designee.

TAB E

0

SUPPORTING INFORMATION:

TAB:

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Intentionally Blank	TAB 2
Emergency Classifications	TAB 3
Public Protective Action Recommendation Guide	TAB 4
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Emergency Forms	TAB 8
• Protective Action Recommendation Form	
• Supplemental Radiological Data Comparison	
• Identification of Release in Progress	
Commentary on filling out the Protective Action Recommendation Form	TAB 9

REFERENCES:

SSES Emergency Plan

National Interim Primary Drinking Water Regulations, EPA 570/9-76-003, US Environmental Protection Agency, Washington D.C. 1976

Commonwealth of Pennsylvania State Emergency Plan, Appendix 6, Annex E - BRP Technical Assessments and Protective Actions, Sept. 22, 1988

NUREG-0654, Planning Standards and Evaluation Criteria

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

NUREG-0696, Functional Criteria for Emergency Response Facilities

FDA Guidance: "Accidental Radioactive Contamination of Human Food and Animal Feed and Recommendations for State and Local Governments." Federal Register, pp 47073-47083, October 22, 1982

ICRP Publication 28, The Principles and General Procedures for Handling Emergency and Accidental Exposures of Workers. International Commission of Radiation Protection. (1978)

IE Notice 83-28

NCRP Report 55, Protection of the Thyroid Gland in the Event of Releases of Radioiodine, National Council Radiation Protection and Measurements. (1977)

NCRP Report #116, Limitation of Exposure to Ionizing Radiation, National Council on Radiation Protection and Measurements. (1993)

EPA Manual of Protective Action Guides and Protective Actions for Nuclear Incidents (EPA 400-R-92-001 May 1992)

EC-ENVR-1047, Protective Action Guides, (PAGs), for the Evaluation of Abnormal, Unusual, or Unplanned Liquid Releases to the Susquehanna River

FDA Guidance: "Potassium Iodide as a Thyroid Blocking Agent in Radiation Emergencies", December 2001.

MAJOR TASK:

Communicate with the Danville Water Authority and the Pa. DEP/BRP regarding liquid releases from SSES.

SPECIFIC TASKS:

HOW:

1. Notify the Danville Water Authority when a liquid release occurs from SSES which is greater than the Unusual Event level.

- 1a. Contact the Authority when the release is greater than the Unusual Event level, calculated at the point where it enters the river.

NOTE:

Telephone number for the Danville Water Authority is listed in the "Emergency Telephone Directory."

- 1b. Inform them this is a courtesy call only, and that no protective actions are required at this time.
- 1c. Inform them Pa. DEP/BRP will contact the Water Authority if any protective action is required.

2. Notify Pa. DEP/BRP of the status of calculations of concentrations in water at Danville.

- 2a. The telephone number for Pa. DEP/BRP is located in the "Emergency Telephone Directory."
- 2b. Review the calculation with them to determine if the water concentration at Danville exceeds the Protective Action Guidelines.

HELP

Public Protective Action
Recommendation Guide
See TAB 4, Section 4.2

SPECIFIC TASKS:

HOW:

NOTE:

The TSC Chemistry Coordinator (or Technical Support Coordinator) normally performs this calculation and communicates it to the Dose Assessment Staff. As a back-up, the Field Team Director will verify this calculation.

3. Generate a "Protective Action Recommendation Form" when a "Protective Action Guide" is exceeded.

- 3a. Consult with the Dose Assessment Supervisor regarding a recommendation.
- 3b. Prepare a "Protective Action Recommendation" form.
- 3c. Obtain approval of the form from the Recovery Manager.
- 3d. Notify Pa. DEP/BRP of our recommendation.

- (1) Inform them PPL had previously talked to the Danville Water Authority about the release but provided no protective action recommendation.

NOTE:

PEMA will be notified of our recommendation by the Recovery Manager.

MAJOR TASK:

Maintain ongoing communications with off-site agencies regarding radiological concerns.

SPECIFIC TASKS:

HOW:

1. Respond to questions regarding radiological concerns from the DEP/BRP, NRC, and off-site agencies.

- 1a. Interact with the Dose Assessment Supervisor, Dose Assessment Staffer, Field Team Director, and the Radiation Protection Coordinator located in the TSC.

NOTE:

Interaction with the Liaison Supervisor and Engineering Support Staff may also be appropriate, dependent on the nature of the question(s).

- 1b. When the emergency condition progresses to the ingestion phase from the plume phase, interact with the Dose Assessment Supervisor to be cognizant of environmental sampling that is being performed.

HELP

**Environmental Sampling
Locations
See TAB 7**

MAJOR TASK:

Maintain ongoing communications with the Public Information Manager or designee.

SPECIFIC TASKS:

HOW:

1. Provide the Public Information Manager (PIM) or designee with supplemental radiological information.

- 1a. Approximately every thirty minutes, complete a "Supplemental Radiological Data Comparison" sheet, using information from the DAST and/or FTD.

HELP

**Supplemental Radiological Data
Comparison
See TAB 8**

2. Respond to questions regarding radiological concerns from the Public Information Manager.

- 1b. Communicate the results to the PIM or designee by phone or by ensuring delivery of the form to the PIM or designee.

- 2a. Use the methodology described in TAB D.