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50-387/388

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245 - 245 - DOSE ASSESSMENT SUPERVISOR

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CATEGORY: PROCEDURES TYPE: EP

ID: EP-PS-245 REMOVE: REV:2

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Po45

EP-PS-245, REV 3 DOSE ASSESSMENT SUPERVISOR

REMOVE: TABLE OF CONTENTS, Pages 1, 2, 3 and 4, Rev 2

ADD: TABLE OF CONTENTS, Pages 1, 2, 3 and 4, Rev 3

REMOVE: TAB C, REV 1

ADD: TAB C, REV 2

REMOVE: TAB D, REV 1

ADD: TAB D, REV 2

REMOVE: TAB 1, REV 1 (pages 1 & 2)

DD: TAB 1, REV 2 (pages 1 & 2)

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PROCEDURE COVER SHEET

PPL SUSQUEHANNA, LLC NUCLEAR DEPARTMENT PROCEDURE				
DOSE ASSESSMENT SUPERVISOR: Emergency-Plan-Position-Specific-Instru	EP-PS-245 Revision 3 Page 1 of 4			
QUALITY CLASSIFICATION:	APPROVAL CLASSIFICATION:			
() QA Program (X) Non-QA Program	() Plant () Non-Plant			
	(X) Instruction			
PERIODIC REVIEW FREQUENCY: Two Years PERIODIC REVIEW DUE DATE: 5-23-2004				
RECOMMENDED REVIEWS:				
Procedure Owner: Nuclear Emergency Planning				
Responsible Supervisor: Primary Dose Assessment Supervisor				
Responsible FUM: Supervisor-Nuclear Emergency Planning				
Responsible Approver: VP-Nuclear Site Operations				
•				

DOSE ASSESSMENT SUPERVISOR:

Emergency-Plan-Position-Specific Instruction

WHEN:

EOF is activated

HOW NOTIFIED:

Paged/telephone

REPORT TO:

Recovery manager

WHERE TO REPORT:

Emergency Operations Facility

OVERALL DUTY:

Manage radiological functions in the EOF, which includes providing Radiological component of the protective action recommendation to the Recovery Manager.

MAJOR TASKS:	TAB:	REVISION:
Obtain, then keep current, information you w need to manage the radiological functions in the EOF.		1
Recommend changes to the emergency classification to the Recovery Manager, if needed.	ТАВ В	0
Recommend public protective actions to the Recovery Manager.	TAB C	2
Manage assessing and communicating radiological information from the EOF.	TAB D	2
Recommend protective actions for PPL emergency personnel to the Recovery Manager.	TAB E	1
Provide direction for field monitoring strategy	. TAB F	0
Support termination activities.	TAB G	0
Assist re-entry/recovery efforts.	TAB H	0
Make sure information and functions that are in progress during shift relief are turned over smoothly.		0

SUPPORTING INFORMATION:	TAB:	
EOF Dose Assessment Flowchart	TAB 1	
Emergency Classification	TAB 2	
Public Protective Action Recommendation Guide	TAB 3	
Supplementary Meteorological Information Table	TAB 4	
Emergency Forms	TAB 5	

^{*} Shift Takeover Checklist

REFERENCES:

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

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, <u>The Principles and General Procedures for Handling Emergency and Accidental Exposures of Workers</u>. International Commission on Radiation Protection. (1978)

IE Notice 83-28

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

NUMARC Graded Response Study

NUREG-0654, Planning Standards and Evaluation Criteria

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

Radiological Assessment Reference Book

Spray Pond Blowdown Water Outlet Flow Rate PLI 50258 (May 8, 1987)

Susquehanna SES Emergency Plan

10 CFR 20 Appendix B

Study of Travel Time and Mixing Characteristics for the Susquehanna River below the Susquehanna SES - SUTRON CORPORATION - November 1985

NDAP-QA-1190, Nuclear Department Radiation Protection Program and Policies

NDAP-QA-1191, ALARA Program and Policy

NEPM-QA-1014, Radiological Environmental Monitoring Program

SSES Emergency Plan

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

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

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

MAJOR TÁSK:

Recommend public protective actions to Recovery Manager.

SPECIFIC TASKS:

HOW:

 Obtain the pertinent data needed to assess the magnitude and anticipated duration of offsite releases.

NOTE:

The Dose Assessment Staffer is responsible to provide hard copy reports and assumptions to support PAR recommendation.

- 1a. Consider the following information as a minimum:
 - (1) Release rates/trends.
 - (2) Prognosis for release/continued release.
 - (3) In-plant source terms and leakage pathway(s).
 - (4) Meteorological and/or river flow data.
 - (5) Dose calculations.
 - (6) Field data
 - (a) For Public Protective
 Action Recommendations,
 (6 hour projected dose to
 the child thyroid), 0.5 rem
 =120 frisker cpm¹.

HELP

Public Protective Action Recommendation Guide See TAB 3

- Participate in the PAR decision-making process at the Command and Control Table.
- 2a. Use the communication guidelines in TAB B Item 3a.
- 2b. Provide radiological input required to determine the appropriate protective actions.

¹ Reference Technical Basis PLI-78461

SPECIFIC TASKS:

HOW:

- 2c. Complete or ensure the "Radiological Liaison:"
 - (1) Completes "Protective Action Recommendation" Form.
 - (2) Obtains Recovery Manager's approval on the Form for any Protective Action.
 - (3) Communicates the approved PAR form to PA DEP/BRP.
- 3. When the Field Team Director identifies the need for liquid release or agricultural protective actions, relay recommendation to the Recovery Manager.
- 3a. Determine action required.
- 3b. Complete or ensure "Radiological Liaison":
 - (1) Completes "Protective Action Recommendation" Form
 - (2) Obtains Recovery Manager's approval on the Form for any Protective Action.
 - (3) Communicates the approved PAR form to PA DEP/BRP.

HELP .

Public Protective Action Recommendation Guide See TAB 3

- 4. Assess if a protective action recommendation beyond ten miles is appropriate.
- 4a. Confirm dose projections for distances greater than ten miles are reasonably accurate.
- 4b. Consult with Engineering Support
 Supervisor, Recovery Manager and/or
 Operations and Technical Support
 Coordinators to verify that dose
 projections are consistent with plant
 conditions.

TAB C EP-PS-245-C Revision 2 Page 3 of 3

SPECIFIC TASKS:	HOW:
	4c. Insure that PAR's have been made for distances up to ten miles.
	4d. Recommend a PAR rounding out the distance to the nearest five mile increment until dose projections are less than PAG's.

MAJOR TASK:

Manage assessing and communicating radiological information from the EOF.

SPECIFIC TASKS:

HOW:

- Instruct Administrative Assistant to call out additional offsite monitoring teams, and/or Dose Assessment Staff if they are needed.
- 2. Communicate with or ensure the Radiation Liaison communicates with PA DEP/BRP.
- 2a. Approximately every thirty minutes, telephone DEP/BRP and relay information contained in the "Protective Action Recommendation" form
- 2b. Advise DEP/BRP when projected thyroid dose is 25 rem or higher outside the EPB.

NOTE:

PA DEP/BRP representative may request that updates should be provided solely to their representative at the EOF upon their arrival. That practice is acceptable upon verification by telephone with PA DEP/BRP.

- Maintain ongoing communication with the Dose Assessment Staffer and Field Team Director regarding calculations and field readings.
- 3a. Determine status of dose calculations and field surveys.
- 3b. Provide needed direction to efforts.

NOTE:

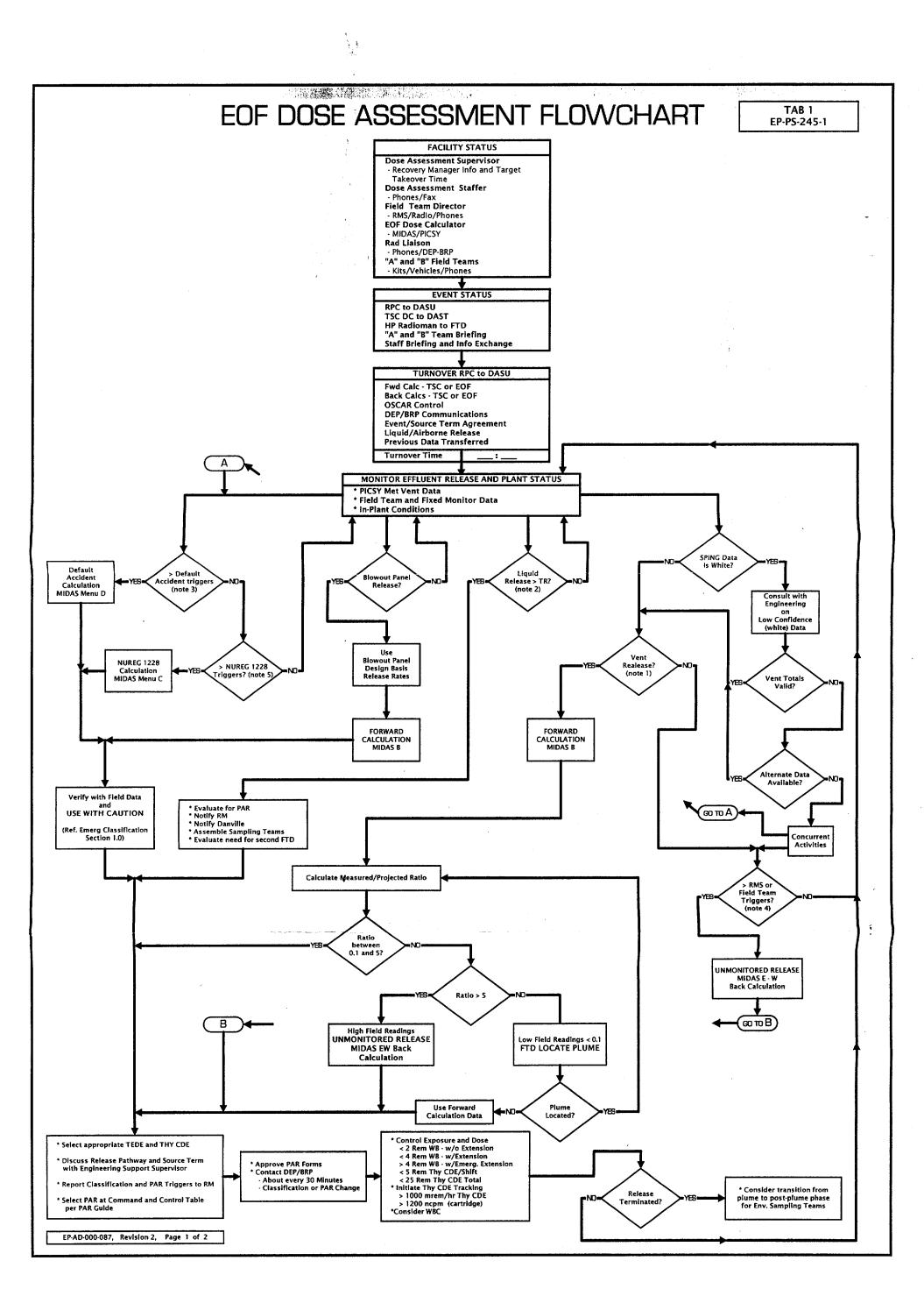
Use of the headsets available to the DAST and DASU may facilitate communications when face-to-face discussions are difficult to arrange.

- 4. **Notify** Recovery Manager of significant changes.
- 4a. Changes to note would include:
 - (1) Release rates or indications of an unmonitored release.
 - (2) Field Team readings.
 - (3) Projected doses or weather.
 - (4) The approaching of any related EALs and PAGs.

SPECIFIC TASKS:

HOW:

- (5) Significant environmental sample analysis results.
- 5. **Maintain** ongoing communications with the Radiological Liaison and RPC.
- 6. Periodically **update** the Dose Assessment Staffer and Field Team Director.
- 6a. Include this information when updating:
 - (1) Plant status.
 - (2) What mitigative or protective actions are being considered.
 - (3) Any other information that might affect dose assessment.



NOTE 1	NOTE 2	NOTE 3	NOTE 4	NOTE 5
VENT RELEASE	LIQUID RELEASE	DEFAULT ACCIDENT	RMS/FIELD	NUREG 1228
TRIGGERS	TRIGGERS	TRIGGERS	TRIGGERS	TRIGGERS
AIRBORNE RELEASE	+ LIQUID RELEASE		+ AIRBORNE RELEASE	CORE UNCOVERED > 15 MINUTES
>8.51E5 uci/min N G	Liquid Effl. ≥ TRM		≥ 0.1 mrem/hr WB	
>1.04E2 uci/min lodine			≥ 68.4 mrem/hr Thy CDE	
>7.72E2 uci/min Part.			≥ 100 ncpm on 1 Cartridge	
• EAL 15.1 FOR 60 min.	• EAL 15.1			SPENT FUEL POOL RELEASE
>1.70E6 uci/min NG	Liquid Effl. ≥ TRM			
>2.08E2 uci/min lodine				
>1.54E3 uci/min Part.				
• EAL 15.2 for 15 min.	+ EAL 15.2	+ EAL 3.2		
		SEVERE CLAD DEGRADATION		
>1.70E8 uci/min NG	Liquid Effl. ≥ 10 x TRM	>200 R/hr CHRM		
>2.08E4 uci/min lodine		>300 uci/cc DE I-131		
>1.54E5 uci/min Part.				
• EAL 15.3		+ EAL 3.3 SEVERLY DEGRADED		
		CORE		
Projected dose rates @ EPB		> 400 R/hr CHRM		
>100 mrem/hr TEDE for 30min or		> 1000 uci/cc DE l-131		
>500 mrem/hr THY CDE for 30min or				
>15 rem/hr TEDE for 2min or				
>75 rem/hr THY CDE for 2min				
Projected dose @ EPB				
>500 mrem TEDE within 1 hour	·			
→ EAL 15.4		• EAL 3.4 CORE MELT		
Projected Dose @ EPB		>400R/hr CHRM		
≥ 1 Rem TEDE		>1000uci/cc DE lodine-131		
≥ 5 Rem THY CDE		> 2000 R/hr CHRM		