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THE FOLLOWING CHANGES HAVE OCCURRED TO THE HARDCOPY
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200 - 200 - RECOVERY MANAGER (RM): EMERGENCY PLAN-
POSITION SPECIFIC PROCEDURE

REMOVE MANUAL TABLE OF CONTENTS DATE: 08/08/2002

ADD MANUAL TABLE OF CONTENTS DATE: 08/22/2002

CATEGORY: PROCEDURES TYPE: EP

ID: EP-PS-200

REMOVE: REV:14

ADD: REV: 15

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PROCEDURE COVER SHEET

PPL SUSQUEHANNA, LLC	NUCLEAR DEPARTMENT PROCEDURE	
RECOVERY MANAGER: Emergency Plan-Position Specific Instruction		EP-PS-200 Revision 15 Page 1 of 4
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>8-22-2002</u> PERIODIC REVIEW FREQUENCY: <u>Two Years</u> PERIODIC REVIEW DUE DATE: <u>8-22-2004</u>		
RECOMMENDED REVIEWS: All		
Procedure Owner: <u>Nuclear Emergency Planning</u> Responsible Supervisor: <u>General Manager-Nuclear Assurance</u> Responsible FUM: <u>Supv.-Nuclear Emergency Planning</u> Responsible Approver: <u>General Manager-Plant Support</u>		

RECOVERY MANAGER (RM): Emergency Plan-Position Specific Procedure

WHEN: Emergency Plan activation or event of potential public interest

HOW NOTIFIED: Primary: Paged, telephone call, or Telenotifications System

REPORT TO: Senior Vice President - Nuclear

WHERE TO REPORT: Emergency Operations Facility

OVERALL DUTY:

As the lead company representative, contribute a prognosis, knowledge, and data to federal and state representatives. As the Recovery Manager, direct EOF managers to provide needed information.

MAJOR TASKS: **TAB:** **REVISION:**

	Respond appropriately to being notified.	TAB A	10
	Coordinate PPL emergency response efforts to assure priority issues are being addressed and a common understanding of the situation exists.	TAB B	7
	Represent the company in discussions with state and federal agencies, primarily PEMA, DEP/BRP, FEMA, and the NRC.	TAB C	2
	Reclassify the emergency based on continuing assessment of the situation.	TAB D	5
	Make a Protective Action Recommendation.	TAB E	6
	Establish an ongoing EOF capability to respond to the emergency.	TAB F	3
	Support termination of the emergency.	TAB G	2
	Review Severe Accident Management (SAM), strategies as presented by the TSC Emergency Director.	TAB H	1

SUPPORTING INFORMATION:

TAB:

Emergency Telephone Instructions	TAB 1
Emergency Organization	TAB 2
Logkeeping	TAB 3
Brief Non-Technical Description of EAL	TAB 4
Intentionally Blank	TAB 5
Emergency Classification	TAB 6
Public Protective Action Recommendation Guide	TAB 7
PPL Emergency Personnel Dose Assessment and Protective Action Recommendation (PAR) Guide	TAB 8
Response Levels for Protection Action Guides (PAG)	TAB 9
Turnover/Briefing Checklists:	TAB 10
• TSC/EOF Turnover Checklist	
• TSC/EOF Briefing Checklist	
Intentionally Left Blank	TAB 11
Restoration Organization Guidelines	TAB 12
PAR State Notification Form	TAB 13

REFERENCES:

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

NCRP Report 39, Basic Radiation Protection Criteria, National Council on Radiation Protection and Measurements. (1971)

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

SSES Emergency Plan

Environmental Protection Agency Manual of Protective Action Guides and Protective Actions for Nuclear Incidents. (1979)

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

NDAP-QA-1191, ALARA Program and Policy

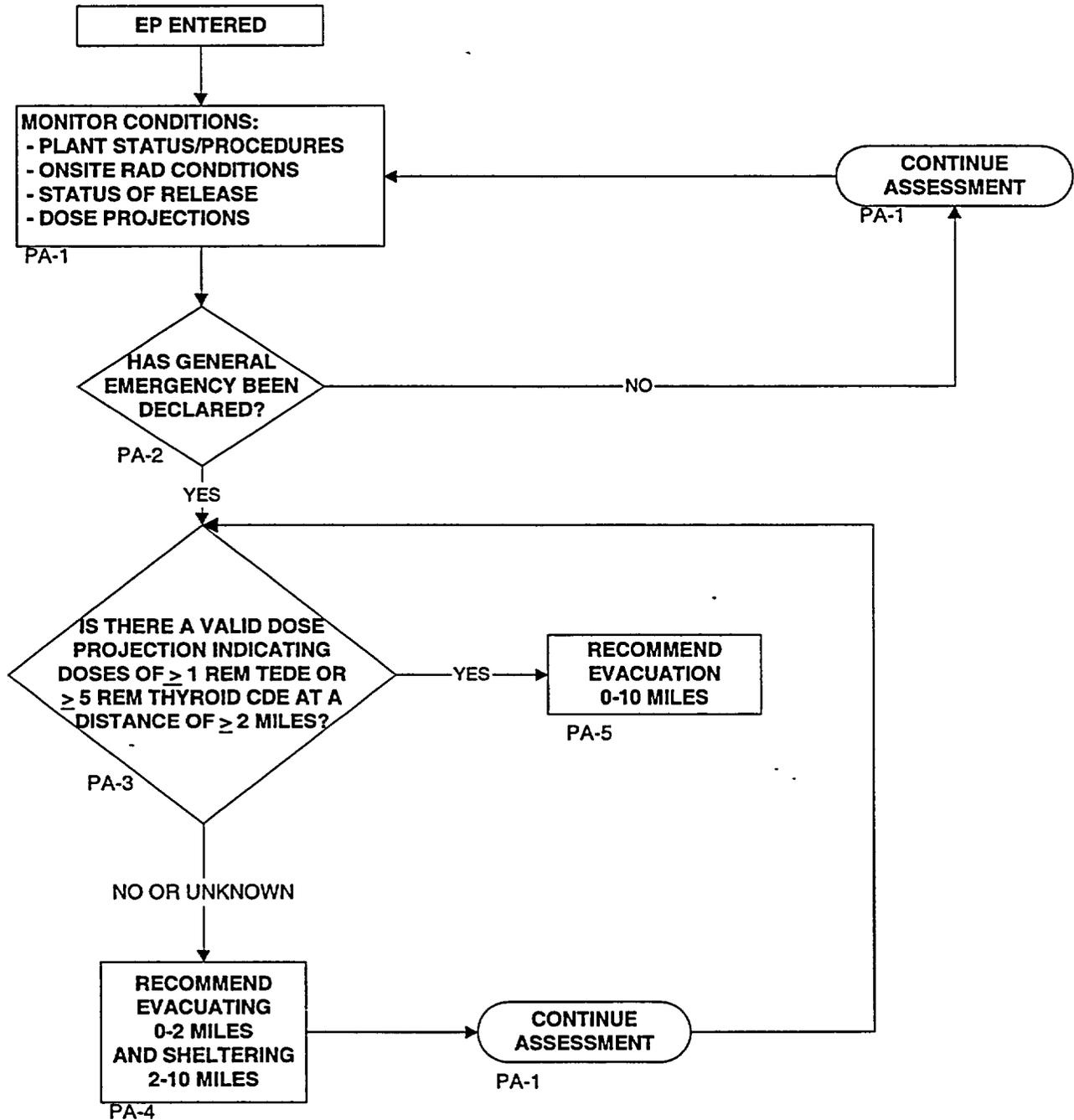
IE Notice, 83-28

NUMARC Graded Response Study

NUREG-0654, Planning Standards and Evaluation Criteria

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

PAR AIRBORNE RELEASES

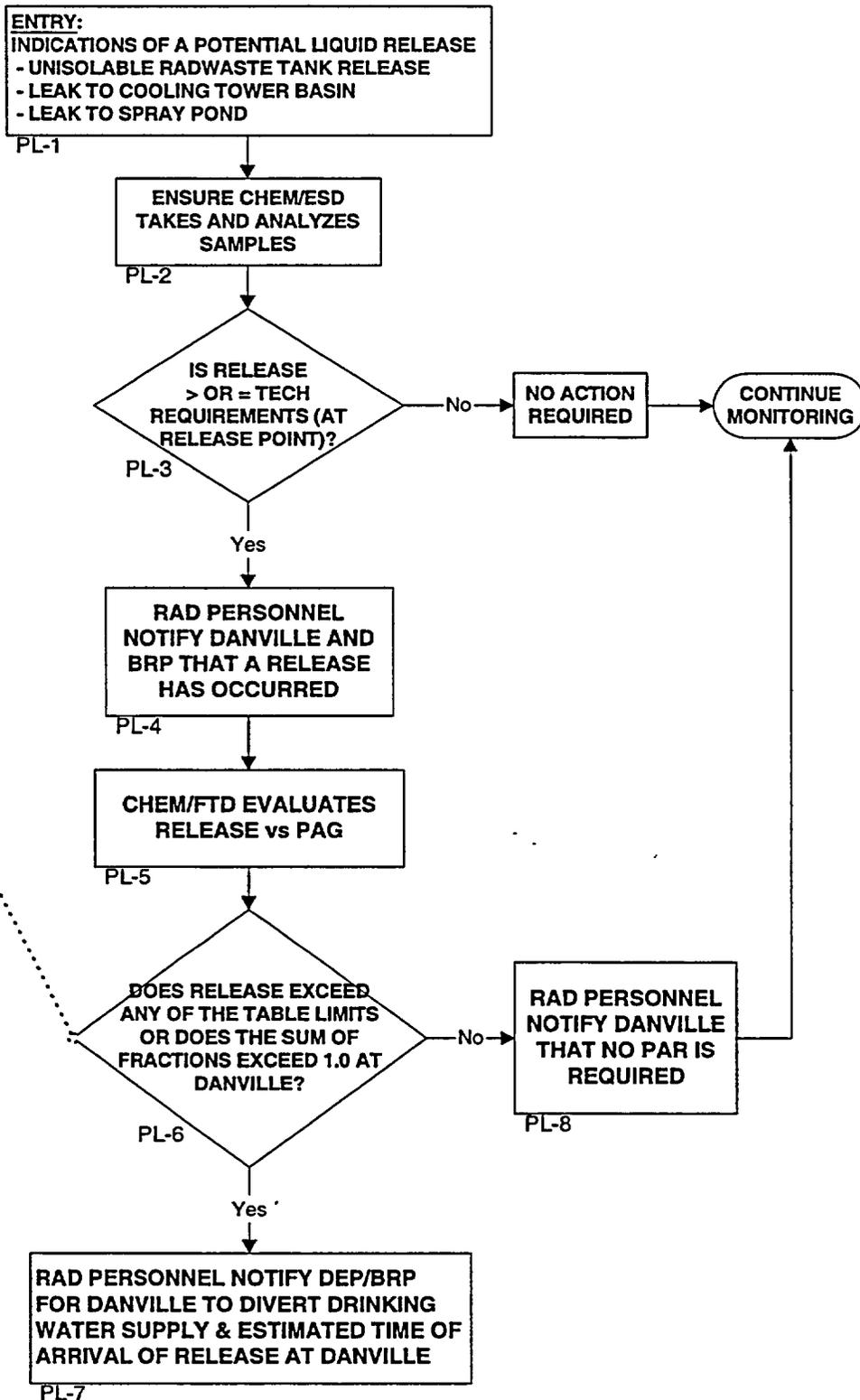


NOTES

1. PA-# CAN BE USED TO REFER TO SECTION 4.1 OF THE PROCEDURE FOR MORE DETAILED INFORMATION ON THE ACTION TO BE TAKEN.
2. DOSE PROJECTIONS DO NOT INCLUDE DOSE ALREADY RECEIVED.
3. TEDE - WHOLE BODY (TEDE) IS THE SUM OF EFFECTIVE DOSE EQUIVALENT RESULTING FROM EXPOSURE TO EXTERNAL SOURCES. THE COMMITTED EFFECTIVE DOSE EQUIVALENT (CEDE) FROM ALL SIGNIFICANT INHALATION PATHWAYS AND THE DOSE DUE TO GROUND DEPOSITION
4. CDE - COMMITTED DOSE EQUIVALENT TO THE CHILD THYROID.

PAR LIQUID RELEASES

RADIONUCLIDE	Isotopic Limit (uCi/ml)
Ag-110m	1.1E-6
As-76	7.2E-7
Ba-140	1.1E-6
Ce-141	3.6E-6
Co-58	1.1E-4
Co-60	1.2E-6
Cr-51	7.2E-5
Cs-134	2.4E-4
Cs-137	2.4E-6
Fe-55	2.4E-5
Fe-59	2.4E-6
H-3	2.4E-4
I-129	1.2E-8
I-131	3.6E-8
La-140	7.2E-7
Mn-54	3.6E-6
Mo-99	7.2E-6
Na-22	4.8E-6
Nb-95	3.6E-6
Ni-59	3.6E-6
Ni-63	6.0E-7
P-32	3.6E-7
Ru-103	2.4E-6
Ru-106	3.6E-7
Sb-124	7.2E-7
Sb-125	3.6E-6
Sr-89	2.4E-7
Sr-90	9.6E-8
Tc-99m	1.1E-5
Y-90	7.2E-7
Zn-65	3.6E-6
Zr-95	2.4E-6



NOTES:

1. PL-# CAN BE USED TO REFER TO SECTION 4.2 OF THE PROCEDURE FOR MORE DETAILED INFORMATION ON THE ACTION TO BE TAKEN.
2. CALLS TO DANVILLE ARE COURTESY INFORMATION CALLS ONLY. PROTECTIVE ACTION RECOMMENDATION CALLS MUST BE MADE BY DEP/BRP.

PUBLIC PROTECTIVE ACTION RECOMMENDATION GUIDE

AIRBORNE RELEASES

PA-1 MONITOR CONDITIONS FOR PAR APPLICATION

The following conditions should be continuously evaluated to determine if a PAR should be implemented or changed:

- Plant status and prognosis for changes in conditions
- Onsite radiological conditions
- Status of actual or potential radioactive releases
- Offsite dose projections or actual offsite radiological conditions
- Escalation in Emergency Classification (i.e., General)

(Go to PA-2)

PA-2 HAS A GENERAL EMERGENCY BEEN DECLARED?

- YES** - If a GENERAL EMERGENCY has been declared, a PAR must be made within 15 minutes of the emergency declaration. The PAR requirement is found in NUREG-0654. **(Go to PA-3)**
- NO** - If a GENERAL EMERGENCY has not been declared, continue to monitor plant status, parameter trends, and prognosis for termination or escalation of the event. **(Go to PA-1)**

PA-3 IS THERE A VALID DOSE PROJECTION INDICATING DOSES OF ≥ 1 REM TEDE OR ≥ 5 REM CDE CHILD THYROID AT A DISTANCE OF > 2 MILES?

- YES** – If the projected doses at 2 miles are ≥ 1 REM TEDE or ≥ 5 REM CDE child thyroid, then full evacuation (0-10 miles) is recommended.

(Go to PA-5)

- NO/UNKNOWN** – **(Go to PA-4)**

**PA-4 RECOMMEND EVACUATION 0-2 MILES; SHELTER
2-10 MILES**

Limited Evacuation (0-2 miles) and sheltering is appropriate for events that are significant enough to cause a General Emergency classification and dose projections are low, unknown, or below full evacuation guidelines.

PA-5 EVACUATE 0-10 MILES

Full evacuation of members of the general public is recommended at this point based on the emergency classification and dose projections.

LIQUID

PL-1 ENTRY

This section is entered when there are indications of a potential radioactive liquid release.

Indications of potential releases include:

- an unisolable radwaste tank release.
- leaks to cooling tower basin
- leak to spray pond

(Go to PL-2)

PL-2 CHEMISTRY/ENVIRONMENTAL SAMPLING DIRECTOR (ESD) TAKES AND ANALYZES SAMPLE

(Go to PL-3)

PL-3 IS RELEASE \geq TECHNICAL REQUIREMENTS LIMITS (AT THE RELEASE POINT)?

- YES** - Releases are at or greater than Technical Requirements limits when Chemistry determines that the limits are exceeded based on methodologies described in the ODCM and applicable Chemistry procedures.
- NO** - If the release is $<$ Technical Requirements limits, then no notifications are required and monitoring should continue.

(Go to PL-4)

PL-4 RAD PERSONNEL NOTIFY DANVILLE AND BRP THAT A RELEASE HAS OCCURRED

Depending on which facility is activated, the notification to Danville and BRP will be made by the RPC (TSC) or the Radiological Liaison (EOF).

DO NOT MAKE ANY PROTECTIVE ACTIONS RECOMMENDATIONS AT THIS TIME.

PL-5 CHEM/FTD EVALUATES RELEASE VERSUS PAGs

The results of the sample analysis are compared to the PAGs for radionuclides in drinking water. The analysis calculates the expected concentration at Danville, taking into account the dilution afforded by the river.

PL-6 DOES RELEASE EXCEED PAGs (AT DANVILLE)?

- YES** - If a single isotope exceeds the PAG or the sum of the fractions exceeds 1.0, then a protective action recommendation should be made for Danville to **DIVERT** its **DRINKING WATER** supply to a backup supply until the release has passed.

(Go to PL-7)

- NO** - If the PAGs are not exceeded, monitoring should continue and the State should be notified that no PAR for the liquid release is required. **(Go to PL-8)**

PL-7 RAD PERSONNEL NOTIFY DEP/BRP OF PAR

Depending on which facility is activated, the PAR notification to DEP/BRP will be made by the RPC (TSC) or the Radiological Liaison (EOF). **The PAR FORM shall be used to document the PAR.**

DO NOT COMMUNICATE THE PROTECTIVE ACTION RECOMMENDATION TO DANVILLE. THE DEP/BRP IS RESPONSIBLE FOR THIS COMMUNICATION.

PL-8 RAD PERSONNEL NOTIFY DEP/BRP

No PAR is required. Depending on which facility is activated, the RPC (TSC) or the Radiological Liaison (EOF) shall notify DEP/BRP that no PAR is required.

PROTECTIVE ACTION RECOMMENDATION STATE NOTIFICATION FORM

- THIS IS A DRILL THIS IS NOT A DRILL

(This form is to be used to communicate PPL's Protective Action to the senior state official at 717-651-2148.)

1. This is _____ of the Susquehanna Steam Electric Station.
(Fill in your name)

2. I am the: Emergency Director at the Susquehanna SES Control Room
 Emergency Director at the Technical Support Center
 Recovery Manager at the Emergency Operations Facility

3. I am about to provide a Protective Action Recommendation. Do I have the Senior State Official on the line?

Name _____

4. A General Emergency has been declared as of _____.

5. This declaration was made due to:

6. The PPL Susquehanna Protective Action Recommendation is:

- Evacuate 0-10 miles
 Evacuate 0-2 miles and shelter 2-10 miles
 Divert Danville drinking water supply from the Susquehanna River
 Evacuate beyond 10 miles (specify distance _____)

7. Date/Time: _____

MAJOR TASK:

Respond appropriately to being notified.

SPECIFIC TASKS:

HOW:

1. Verify your ability to respond when notified.

1a. Telephone numbers for the ASCC are listed on the pager.

NOTE:

Primary number is for the Telenotifications System.

2. Proceed to the EOF promptly.

2a. The first Recovery Manager responding should report to the EOF promptly to ensure activation within the ninety minute requirement.

NOTE:

This can be done before, during, or after travel to the EOF.

3. Talk to the Emergency Director for a briefing on plant status.

HELP

TSC/EOF BRIEFING CHECKLIST
See TAB 10

3a. Telephone the Control Room or TSC Emergency Director if you haven't talked with the Emergency Director during call-out.

3b. Obtain the following data:
(1) Affected Unit(s)
(2) Classification, if any
(3) Overview of the situation
(4) Prognosis
(5) Who will notify senior management
(6) Interaction with off-site agencies
(7) Protective Action Recommendation made
(8) What Emergency Response Facilities have or should be activated

SPECIFIC TASKS:

HOW:

NOTE:

EOF staffing is automatic at declaration of an ALERT or higher classification. Otherwise, you or the Emergency Director may call for activation.

4. Upon arrival at the EOF, prepare to assume responsibility for off-site communications and radiological activities, public information, and overall command and control of the Emergency Response Organization from the TSC.

HELP

**TSC/EOF TURNOVER CHECKLIST
See TAB 10**

- | | |
|-----|--|
| 4a. | Verify that an adequate staff has responded. |
| 4b. | Review all available status information, pertinent data, and press releases. |
| 4c. | Obtain staff input on readiness for turnover. |
| 4d. | When staff is ready for turnover, place ED on speaker and have staff available to participate. |
| 4e. | Complete TSC/EOF Turnover Checklist. |
| 4f. | Solicit questions from staff. |
| | |
| 5. | Inform the Emergency Director that you are prepared to assume control of the PPL Nuclear Emergency Response. |
| 6. | Inform the EOF Staff when you will assume control of the emergency. |
| 6a. | Make a PA announcement. |
| 7. | Take control of PPL emergency response. |
| 7a. | Ensure a PA announcement is made: |
| (1) | The EOF has assumed control from the TSC. |
| (2) | Provide a brief summary of the emergency status. |

SPECIFIC TASKS:

HOW:

-
- | | |
|--|--|
| 8. Consider contacting other PPL line managers who can support the emergency effort. | 7b. Notify the Public Information Manager you have assumed control from the TSC. |
| 9. Call out another Recovery Manager to assist as assigned. | |
| 10. Call out additional personnel as required. | 10a. Request the Administrative Assistant to make the contacts. |
| 11. When required, request Federal assistance to augment NERO capabilities. | 11a. Coordinate with PEMA and/or DEP/BRP. |
| 12. Send a representative to the State Emergency Operations Center. | 12a. Coordinate with PEMA.

12b. Dispatch another Recovery Manager to perform this function. |

MAJOR TASK:

Reclassify the emergency based on continuing assessment of the situation.

SPECIFIC TASKS:

HOW:

- | | | | |
|----|---|-----|---|
| 1. | Monitor conditions to determine if the classification should change. | 1a. | You must reclassify within fifteen minutes of receiving information indicating the need to reclassify. |
| 2. | Evaluate current and projected off-site radiological and plant information. | 2a. | Obtain and evaluate the following data:

(1) Plant conditions and prognosis received from the Emergency Director.

(2) Field radiation data received from the Dose Assessment Supervisor or Field Team Director.

(3) Plant conditions, prognosis and release status received from the Engineering Support Supervisor.

(4) Fuel integrity and prognosis received from the Fuels Lead Engineer. |
| 3. | Reclassify the emergency. | 3a. | If the emergency action level is a specific, measured value, reclassify the emergency. |
| | | 3b. | If the emergency action level is based on an assessment and is judgmental:

(1) Coordinate an evaluation of the situation among the ED, RM and, if present, the NRC, PEMA, and DEP/BRP.

(2) Determine the change in classification. |

SPECIFIC TASKS:

HOW:

NOTE:

If you upgrade to a GENERAL EMERGENCY, you must make a Protective Action Recommendation within fifteen minutes. (see TAB E)

- | | | | |
|----|---|---|--|
| | 3c. | If downgrading from a Site Area or General Emergency, you must obtain concurrence from: | |
| | | (1) NRC | _____ |
| | | (2) DEP/BRP | _____ |
| | | (3) PPL Senior Management | _____ |
| 4. | Ensure changes in classification are communicated to all off-site agencies. | 4a. | Identify the specific number used to reclassify the emergency. |
| | | 4b. | Sign, (date and time), the Emergency Notification Report to document your decision. |
| | | 4c. | Return the Emergency Notification Report to the EOF Support Supervisor or EOF Communicator for required notification to off-site agencies: |
| | | | (1) PEMA |
| | | | (2) LCEMA |
| | | | (3) CCDPS |
| | | | (4) NRC |
| 5. | Ensure changes in classification are communicated to the PPL emergency organizations. | 5a. | Notify the: |
| | | | (1) Emergency Director |
| | | | (2) Public Information Manager |
| | | | (3) EOF Staff |
| | | | (4) Off-site agencies present in the EOF |

MAJOR TASK:

Make a Protective Action Recommendation.

SPECIFIC TASKS:

HOW:

- | | |
|--|---|
| 1. Evaluate the current and projected plant and off-site radiological information. | 1a. Obtain and evaluate information: <ul style="list-style-type: none">(1) Plant information, release status, and prognosis from System Lead Engineer/Engineering Support Supv.(2) Projected dose from the Dose Assessment Staffer/Dose Assessment Supervisor.(3) Plant conditions and prognosis from the Emergency Director.(4) General off-site conditions. |
| 2. Review PAR Guidance in anticipation of escalation to a General Emergency. | 2a. Use the following guidance: <ul style="list-style-type: none">(1) Assess plant conditions and determine the most likely Emergency Action Level that could lead to declaration of a General Emergency.(2) Using the above conditions, review the PAR flowchart to determine the likely PAR for the General Emergency condition.(3) Review the likely PAR with any state or federal officials present in the Emergency Response Facility to resolve any potential issues should the PAR later need to be issued or revised. |

SPECIFIC TASKS:

HOW:

HELP

**Protective Action
Recommendation Guide
See TAB 7**

3. When a General Emergency is declared determine appropriate PAR.

3a. Go to TAB 7 and determine PAR.

3b. Discuss recommendation with Emergency Director, if feasible.

3c. Communicate PAR to Senior State Official using PAR State Notification Form. Phone number is 717 651-2148.

HELP

**Protective Action Recommendation
State Notification Form
See TAB 13**

4. Continue to evaluate current PAR and revise as appropriate based on increasing dose levels.

4a. **Communicate revised PAR to Senior State Official. Phone number is 717 651-2148.**

HELP

**Protective Action
Recommendation Guide
See TAB 7**

5. Assess if a protective action recommendation beyond ten miles is appropriate.

5a. Instruct DASU to provide estimates of dose projections for distances greater than ten miles are reasonably accurate.

5b. Consult with engineering support personnel to verify dose projection estimates are consistent with plant conditions.

5c. Insure PAR's have been made for distances up to ten miles.

SPECIFIC TASKS:

HOW:

-
- 5d. Recommend a PAR rounding out the distance to the nearest five mile increment until dose projections are less than 1 REM TEDE or 5 REM CEDE.
 - 5e. Communicate the PAR to the Senior State Official using the PAR State Notification Form. Phone number is 717 651-2148.

HELP

**Protective Action Recommendation
State Notification Form
See TAB 13**
