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TO: CENEMEN RODE 10/31/2003

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

TO YOU:

105 - 105 - TSC DOSE CALCULATOR: EMERGENCY PLAN-POSITION SPECIFIC PROCEDURE

REMOVE MANUAL TABLE OF CONTENTS DATE: 10/27/2003

ADD MANUAL TABLE OF CONTENTS DATE: 10/30/2003

CATEGORY: PROCEDURES TYPE: EP

ID: EP-PS-105 REPLACE: REV:16

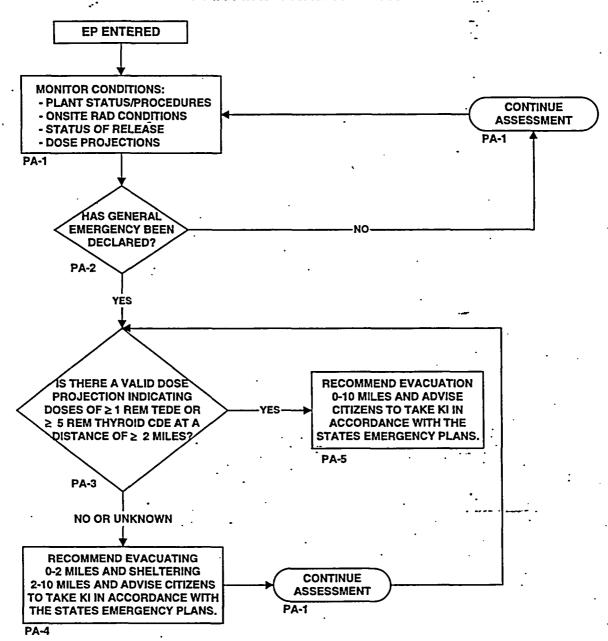
REPLACE: REV:16

REMOVE: PCAF 2003-1479 REV: N/A

ADD: PCAF 2003-1479 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.

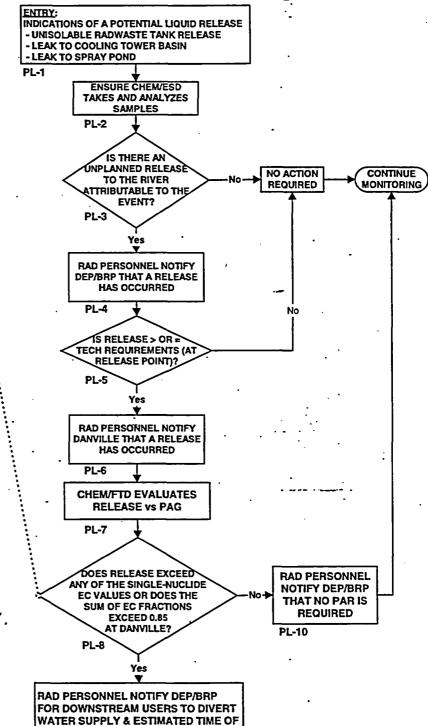
PAR AIRBORNE RELEASES



NOTES:

- 1. PA-# CAN BE USED TO REFER TO PROCEDURE STEPS FOR MORE DETAILED INFORMATION ON THE ACTION TO BE TAKEN.
- 2. DOSE PROJECTIONS DO <u>NOT</u> 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



ARRIVAL OF RELEASE AT DANVILLE

PL-9

| | EC Values |
|--------------|-----------|
| RADIONUCLIDE | (µCi/ml) |

| Co-60 | 3E⁴ |
|--------|-----------------|
| Sr-91 | 2E⁴ |
| Mo-99 | 2E-6 |
| Te-132 | 9E⁴ |
| I-131 | 1E ⁴ |
| I-133 | 7E-4 |
| I-134 | 4E-4 |
| I-135 | 3E-4 |
| Cs-134 | 9E-7 |
| Cs-136 | 6E-4 |
| Cs-137 | 1E-4 |
| Ba-139 | 2E-4 |
| Ba-140 | 8E-4 |
| Ba-141 | 3E⁴ |
| Np-239 | 2E-4 |

NOTES:

- PL-# CAN BE USED TO REFER TO PROCEDURE STEPS 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 YES — If a GENERAL EMERGENCY has been of within 15 minutes of the emergency declar found in NUREG-0654. (Go to PA-3) | leclared, a PAR must be made | |
|---|---|------------------------------|--|
| • | NO — If a GENERAL EMERGENCY has not be plant status, parameter trends, and progrescalation of the event. (Go to PA-1) | • | |
| | PA-3 IS THERE A VALID DOSE PROJECTION OF ≥ 1 REM TEDE OR ≥ 5 REM CDE OF DISTANCE OF > 2 MILES? | | |
| | YES — If the projected doses at 2 miles are ≥ 1 F thyroid, then full evacuation (0-10 miles) i | | |
| | □ NO/UNKNOWN — (Go to PA-4) | | |
| | PA-4 RECOMMEND EVACUATION 0-2 MILI AND ADVISE CITIZENS TO TAKE KI I | • | |

PA-5 EVACUATE 0-10 MILES AND ADVISE CITIZENS TO TAKE KI IN ACCORDANCE WITH THE STATE'S EMERGENCY PLANS.

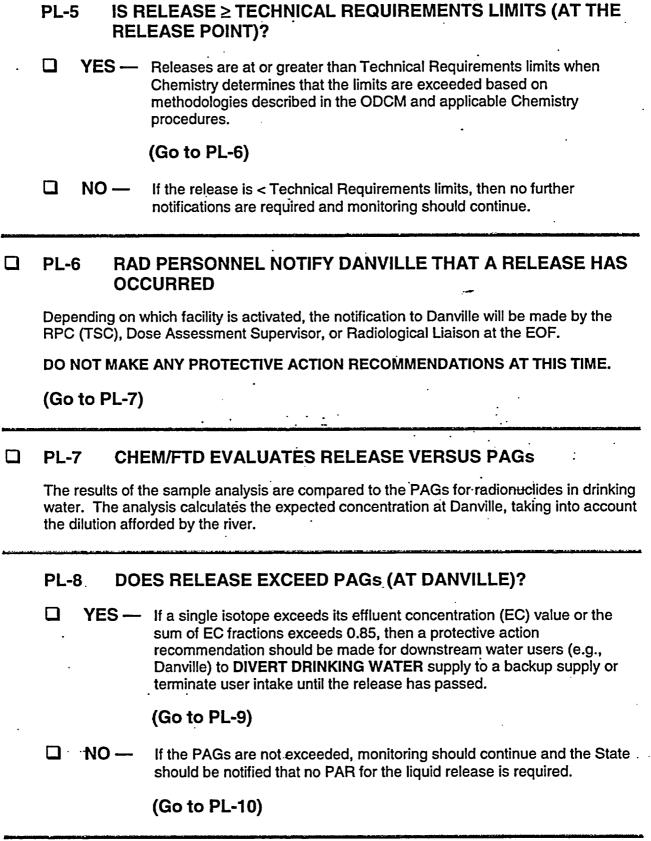
enough to cause a General Emergency classification and dose projections are low, unknown, or below full evacuation guidelines. A recommendation is also given to the state to advise citizens to take KI in accordance with the state's emergency plans.

Full evacuation of members of the general public is recommended at this point based on the emergency classification and dose projections. A recommendation is also given to the state to advise citizens to take KI in accordance with the state's emergency plans.

Limited Evacuation (0-2 miles) and sheltering is appropriate for events that are significant

| LIGH | <u>, , , , , , , , , , , , , , , , , , , </u> | | • | | | |
|------|---|--|----------------------------------|--|--|--|
| | PL-1 EN | ITRY | | | | |
| | This section is liquid release. | his section is entered when there are indications of a potential unplanned radioactive quid release. | | | | |
| | Indications of | potential unplanned releases include: | | | | |
| | an unisolable radwaste tank release leaks to cooling tower basin leak to spray pond | | | | | |
| | (Go to PL-2 | 2) | | | | |
| | | HEMISTRY/ENVIRONMENTAL SAMF AKES AND ANALYZES SAMPLE | PLING DIRECTOR (ESD) | | | |
| | (Go to PL-3 | 3) | · - | | | |
| | PL-3 IS | THERE AN UNPLANNED RELEASE | TO THE RIVER? | | | |
| | ☐ YES — | An unplanned release to the river has occ radioactive materials are released to the the release methodologies described in the Chemistry procedures. | river that are not controlled by | | | |
| | (Go to PL-4 | 4) . | • | | | |
| | □ NO — | If there is no unplanned release to the riv required and monitoring should continue. | | | | |
| | | AD PERSONNEL NOTIFY DEP/BRP | THAT A RELEASE HAS | | | |
| | | n which facility is activated, the notification to Assessment Supervisor, or Radiological Liai | | | | |
| | DO NOT MAI | KE ANY PROTECTIVE ACTION RECOMME | ENDATIONS AT THIS TIME. | | | |
| | (Go to PL- | 5) | | | | |
| | | | | | | |

LIQUID (CONT'D) PL-5



LIQUID (CONT'D)

☐ PL-9 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), Dose Assessment Supervisor, or Radiological Liaison at the 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 AND ANY COMMUNICATION TO OTHER DRINKING WATER SUPPLIERS OR WATER USERS.

☐ PL-10 RAD PERSONNEL NOTIFY DEP/BRP

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