

Aug. 23, 2002

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128 - 128 - HEALTH PHYSICS NETWORK COMMUNICATOR:
EMERGENCY PLAN-POSITION SPECIFIC PROCEDURE

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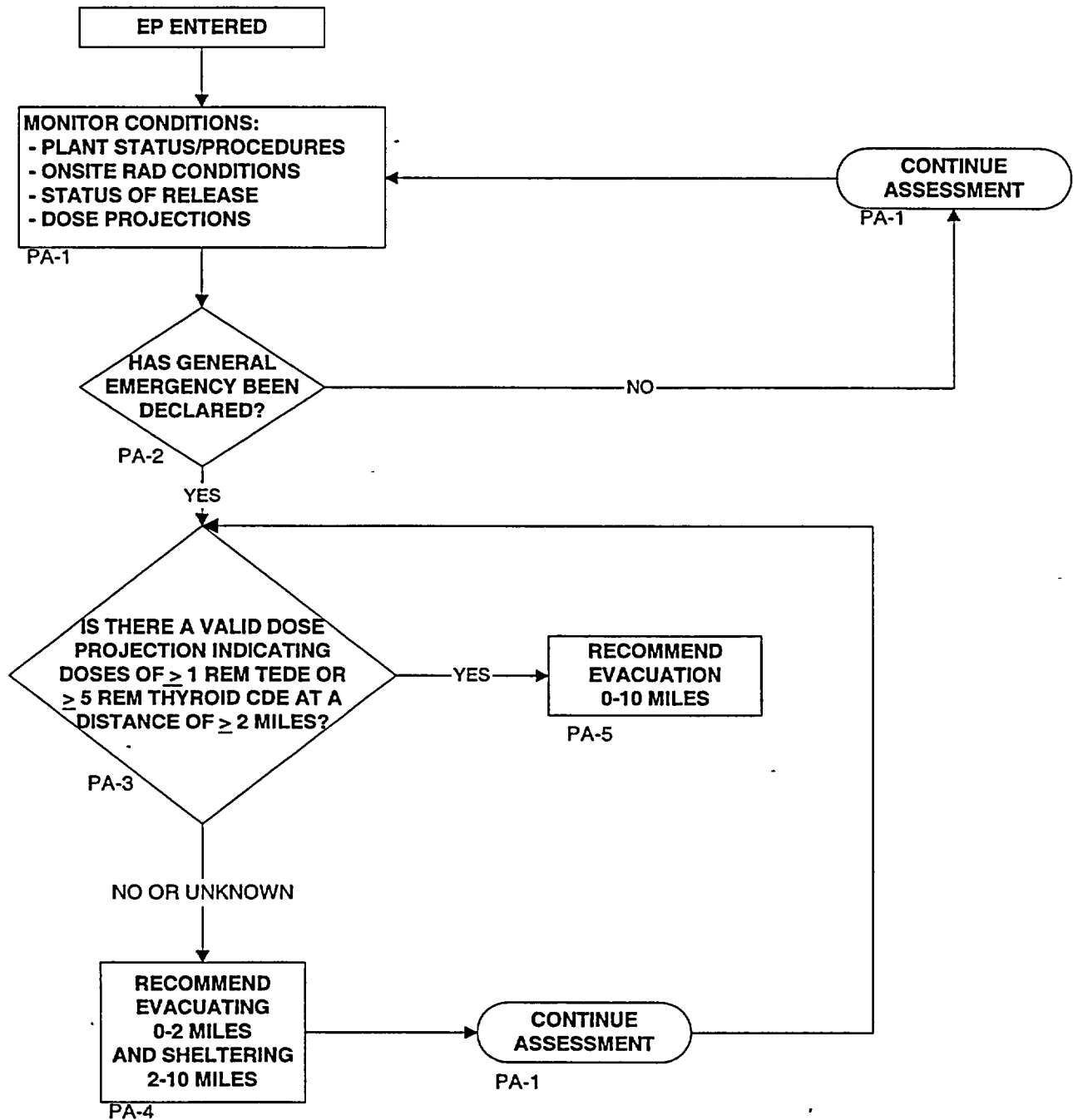
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A445

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

ENTRY:
INDICATIONS OF A POTENTIAL LIQUID RELEASE
- UNISOLABLE RADWASTE TANK RELEASE
- LEAK TO COOLING TOWER BASIN
- LEAK TO SPRAY POND

PL-1

ENSURE CHEM/ESD
TAKES AND ANALYZES
SAMPLES

PL-2

IS RELEASE
> OR = TECH
REQUIREMENTS (AT
RELEASE POINT)?

PL-3

NO ACTION
REQUIRED

CONTINUE
MONITORING

Yes

RAD PERSONNEL
NOTIFY DANVILLE AND
BRP THAT A RELEASE
HAS OCCURRED

PL-4

CHEM/FTD EVALUATES
RELEASE vs PAG

PL-5

DOES RELEASE EXCEED
ANY OF THE TABLE LIMITS
OR DOES THE SUM OF
FRACTIONS EXCEED 1.0 AT
DANVILLE?

PL-6

RAD PERSONNEL
NOTIFY DANVILLE
THAT NO PAR IS
REQUIRED

PL-8

Yes

RAD PERSONNEL NOTIFY DEP/BRP
FOR DANVILLE TO DIVERT DRINKING
WATER SUPPLY & ESTIMATED TIME OF
ARRIVAL OF RELEASE AT DANVILLE

PL-7

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.