activate and assemble an additional OFMT (check as appropriate):

Helicopter Required: ( ) Required
(if yes)
( ) Not Required
(if no)

-NOTE-

If no helicopter is required, N/A (not applicable) this step and immediately proceed to step 3.7.

Additional OFMT Activated and Assembled: _____/_____
Initials Time

3.6.1 Request a briefing on the helicopter landing location and on present plant conditions from the RAD.

Helicopter Landing Location: _____

Estimated Time of Arrival: _____

Briefing Completed: _____/_____
Initials Time

3.6.2 Obtain an EMERGENCY MONITORING KIT (MOBILE), and a radio suitable for use from a helicopter.

Kit and Radio Obtained: _____/_____
Initials Time

Ch. 4

-NOTE-

The Emergency Monitoring Kit (Mobile) can be obtained at the South Guard House.

3.6.3 Perform a quick equipment and radio check prior to proceeding (Use Table 5 of Appendix B.1).

Kit and Radio Checked _____/_____
Initials Time

3.6.4 Proceed to and meet the helicopter and establish radio contact with the RAD.

Helicopter Landed: _____/_____
Initials Time

Radio Contact Established: _____/_____
Initials Time

-NOTE-

Record all survey instructions and locations of survey points (Distance in miles

from the Site and elevation or feet above ground level) on EXHIBIT 4.3.1-C, MONITORING TEAM ACTION FORM.

3.6.5 Proceed, as directed by the RAD, to the locations to be surveyed.

Initiated Aerial Survey: _____ / _____
Initials Time

-CAUTION-

MAINTAIN A MINIMUM ELEVATION OF 100 FEET ABOVE GROUND LEVEL WHEN SURVEYING.

3.7 Continuously monitor the general area.

Monitoring of Area Proceeding: _____ / _____
Initials Time

-NOTE-

Record all survey data and results of the analyses on EXHIBITS 4.3.1-D, EXPOSURE RATE FORM, and 4.3.1-E, MONITORING TEAM SURVEY FORM, as specified. Additional actions/comments can be entered on EXHIBIT 4.3.1-C.

3.7.1 Using equipment shielded against Beta radiation (i.e. closed window) traverse the plume in the crosswind direction, determine the maximum mR/h, and record that reading, time the reading was taken, and the sector/distance.

Exposure Rate (mR/h): _____ Time Reading Was Taken: _____

Sector/Distance: _____ _____ / _____
Initials Time

- NOTE -

Vehicle must be running while taking air sample.

Ch. 4

3.7.2 Place a particulate filter and a charcoal cartridge in the air sampler and collect a 50 liter sample at the location where the mR/h reading was the highest (found during the traverse).

Sample Initiated: _____ / _____
Initials Time

3.7.3 While collecting the sample, report the specific survey location and results of the gamma exposure rate survey to the RAD.

Results Reported: _____ / _____
Initials Time

3.7.4 Contact the RAD (by radio) to locate a low background area to be used for counting and proceed to the area specified.

ERPIP 4.3.1 REVIEW/APPROVAL

REVISION	CHANGE	REVIEWER SIG/ DATE	SUPERVISOR EPU SIG/DATE	POSRC MTG	PLANT SUPERINTENDENT /DATE
8	1	[signature] 10-1-82	[signature] 10-1-82	82-127	W. L. Tilson 10/6/82
8	2	[signature] 10-27-82	[signature] 10/27/82	82-141	J B Russell 11/5/82
8	3	C L Clayton 10-26-83	[signature] 10-26-83	83-128	J B Russell 10/26/83
8	-	[illegible]	[signature] 11-16-83	83-145	J B Russell 11/16/83

LIST OF EFFECTIVE PAGES

PAGE NUMBER	REVISION
4.3.1-1	8, Change 3
4.3.1-2	8, Change 3
4.3.1-3	8, Change 4
4.3.1-4	8, Change 4
4.3.1-5	3
4.3.1-6	3
4.3.1-7	8, Change 2
4.3.1-8	4
4.3.1-9	4
4.3.1-10	8

location.

Exposure Rate (mR/h): _____ Time Reading Was Taken: _____

Location: _____ _____ /
Initials Time

- NOTE -

Vehicle must be running while taking air sample. Ch. 4

3.6.2 Place a particulate filter and a charcoal cartridge in the air sampler and collect a 50 liter sample at the location where the mR/h reading was the highest (found during the traverse).

Sample Initiated: _____ /
Initials Time

3.6.3 While collecting the sample, report the specific location and results of the gamma exposure rate survey to the RPD.

Exposure Rate Reported: _____ /
Initials Time

3.6.4 After collecting the air sample, record the time completed and place the charcoal cartridge and the particulate filter in separate plastic bags and mark them for later identification.

Actual Sample Size (cc): _____

Sample Completed: _____ /
Initials Time

3.6.5 Contact the RPD (by radio) to locate a low background area to be used for counting and proceed to that location. While en route, backflush the charcoal cartridge only with three cubic feet of uncontaminated air.

3.6.6 Set up the MS-2 and SPA-3 sample counting equipment.

3.6.7 Verify that control adjustments are per instructions in the Emergency Kit, then run a two minute background count and record results.

Background Counts (cpm): _____

Background Recorded: _____ /
Initials Time

3.6.8 Set the detector directly on the inlet side of the charcoal cartridge, count for two minutes and record the results.

Gross Counts (cpm): _____

Cartridge Counted and Recorded: _____ /
Initials Time

3.6.9 Determine the charcoal activity by the following formula and record

results:

Charcoal Activity (uCi/cc.) =

$$\frac{\text{Gross Counts - Background counts}}{\text{(Counting Minutes) (Actual Sample Volume(cc))(2.22E6)(Efficiency)}}$$

Use the efficiency listed on the scaler.

= _____ microcuries/cc

3.6.10 Record the standard procedures utilized, any exceptions taken, specific instruments used and corrections for flow rates applied.

Specific Location: _____

Standard Procedures Used: _____

Exception to Procedures: _____

Instruments Used: _____

(Serial No. or ID No.): _____

Corrections Applied for Flow Rates: _____

Recorded: _____ / _____
Initials Time

3.6.11 Report the specific survey location and charcoal activity (Steps 3.6.8 & 3.6.9) to the RPD.

Results Reported: _____ / _____
Initials Time

3.6.12 Ask RPD if a silver zeolite cartridge air sample should be collected. If directed by RPD to do so, Repeat steps, 3.6.1 through 3.6.10 using a silver zeolite instead of charcoal cartridge. Report the specific survey location and silver zeolite activity to the RPD.

Results Reported: _____ / _____
Initials Time

3.7 Perform additional surveys as directed by the RPD as follows:

-NOTE-

Based on field exposure rate measurements, take air samples starting as near to the center of the plume as possible.

3.7.1 Repeat Step 3.6 using charcoal cartridges unless directed otherwise by the RPD (3 or 4 passes across the plume should be optimum). Record data on EXHIBITS 4.3.1-D and E.

ERPIP 4.3.2 REVIEW/APPROVAL

REVISION	CHANGE	REVIEWER SIG/ DATE	SUPERVISOR EPU SIG/DATE	POSRC MTG	PLANT SUPERINTENDENT /DATE
8	1	[illegible] 11-30-82	[illegible] 12/14/82	82-164	J B Russell 12/10/82
8	2	G F Wall 12/16/82	[illegible] 12/22/82	82-167	J B Russell 12/22/82
8	3	C L Bayless 10-24-83	[illegible] 11-1-83	83-128	J B Russell 10/26/83
8	4	[illegible] 11-16-83	[illegible] 11-16-83	83-145	J B Russell 11/16/83

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PAGE NUMBER	REVISION
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4.3.2-2	8, Ch. 3
4.3.2-3	8, Ch. 4
4.3.2-4	7
4.3.2-5	8, Ch. 2
4.3.2-6	1
4.3.2-7	1

LIQUID EFFLUENT SAMPLING AND ANALYSIS

RESPONSIBLE INDIVIDUAL: Liquid Release Monitoring Team

CONDITIONS: As directed by the CD or PS.

ACTIONS:

1. **OBTAIN** briefing from CD, PS and/or the person you replace.

- CAUTION -

While proceeding through areas of unknown radioactivity levels, continuously monitor to ensure safety.

2. **OBTAIN** sampling equipment for two 500 cc circ water samples from the Rad-Chem Lab or mobile backup lab (trailer).

3. **PROCEED** to circ water discharge duct;

   Remove the grating, and **COLLECT** a 500 cc dip sample of water.

- NOTE -

Use Attachment 1, Monitoring Team Action, to record radioactivity/contamination levels, sampling actions and results.

4. **RECORD** the date, time and specific location where the sample was obtained.

5. **AT** the Intake Structure, **COLLECT** a 500 cc dip sample from the screen back-wash trough.

6. **RECORD** the date, time, and specific location where the sample was obtained.

7. **AT** the Rad-Chem Lab or the mobile backup lab (trailer),

   ANALYZE each sample in accordance with RCP-2-102.

8. **RECORD** the results of each analysis and **REPORT** this information to the CD/PS.

9. **FORWARD** this checklist and all records related to this emergency response to the Supervisor-Emergency Planning.

ATTACHMENT 1

MONITORING TEAM ACTION

TEAM: ______________________ DATE: ______________________

Action Taken/DATE	Time / Initials	Findings

ERPIP 4.3.3 REVIEW/APPROVAL

REVISION	CHANGE	REVIEWER SIG/ DATE	SUPERVISOR EPU SIG/DATE	POSRC MTG	PLANT SUPERINTENDENT /DATE
9	—	C.L. Rayburn 11-3-83	[signature] 11.7.83	83-145	J.S. Durrell 11/10/83

LIST OF EFFECTIVE PAGES

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ATTACHMENT	REVISION
1	9