

DOCUMENT TRANSMITTAL

TRANSMITTAL NO: DOD-82-187

DATE: 3/17/82

TRANSMITTED TO: Dir of nuclear Reactor Reg. Wash (7)

DESCRIPTION OF DOCUMENT(S) TRANSMITTED:

HNP-4625 RW4

HNP-4725 RW4

RECEIVED BY _____ DATE: _____

RETURN THIS TRANSMITTAL AND ANY DOCUMENTS REQUIRED TO BE
RETURNED, TO THE DOCUMENT CONTROL DEPARTMENT.

DESCRIPTION OF DOCUMENT(S) TO BE RETURNED:

HNP-4625 RW3

HNP-4725 RW3

DATE RETURN REQUIRED 4/28/82

EC General / CAL
DOCUMENT CONTROL SUPERVISOR


HNP-O-ADM-00010 R/2

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E. I. HATCH NUCLEAR PLANT

Georgia Power 

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SITE AREA EMERGENCY - EXTERNAL SURVEY TEAM

NOTE

This procedure supercedes HNP-4604 Revision 5 dated 12-8-80.

A. CONDITION

Events are in progress or have occurred which involve actual or likely major failures of plant functions needed for protection of the public. Any releases are not expected to exceed PAG exposure levels, except near the site boundary.

B. REFERENCES

HNP-4620.

C. ACTION

NOTE


This action is to be taken by the Health Physics Supervisor or designated alternate, and the technicians, whenever possible, or by other trained personnel.

1. Obtain a survey team kit at the Emergency Operations Facility.
2. Turn on survey instruments, allow them to warm up, and check response with source provided.
3. Install glass fiber filter and charcoal (or silver zeolite, if directed) filter in sample holder of air sampler. Turn on sampler and confirm proper operation. Turn off.
4. Acquire transportation and stand by for instructions from Dose Assessment Manager.
5. Proceed to area specified by Dose Assessment Manager.
6. While in transit, take continuous background readings from survey instruments.
 - a. Indicate observed readings on survey map.
 - b. If dose rate in excess of 5 mr/hr is indicated, report reading to E.O.F.

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7. Take air sample at designated area as follows:

- a. Place charcoal (or silver zeolite, if directed) and glass fiber filters in air sample holder.
- b. Start air sampler and record time on Data Package 1 (Data Sheet 1).
- c. Check air flow indication and record flow rate.
- d. Run air sampler 10 minutes, observing flow rate during the sample period.
- e. Make radiation survey as in step C.8. while running air sampler.

NOTE

If levels are greater than 10 mr/hr (approximately 40,000 CPM) report reading to E.O.F. Discontinue sampling and move on to the next location specified by Dose Assessment Manager. Remove filters, place in envelope and record total sample time and flow rate.

- f. Remove filters.
- g. Insert G.M. survey meter probe (HP-210) into sample holder (SH-4A) and record background reading.
- h. Place glass fiber filter in holder and obtain reading (CPM). Calculate airborne concentration as per Data Package 1 (Data Sheet 1).
- i. Place charcoal or silver zeolite cartridge in plastic and put directly against probe (HP-210). Obtain reading (cpm) and calculate airborne concentration per Data Package 1 Data Sheet 1.
- j. Place sample filters in envelopes and record on envelopes time, location, flow, sample time, CPM, BKG, and air activity. Hold for further analysis at Plant or E.O.F.

8. Take count/dose rate survey as follows:

- a. At waist level, hold GM probe HP-210 or GM survey meter with the detector window facing horizontal, read meter and record results in CPM.

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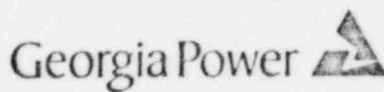
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- b. Repeat above, but with detector window facing the ground.
 - c. At 2" above, the ground, hold GM probe with the detector window facing the ground, read meter and record results.
 - d. At waist level, hold high range survey meter horizontal, read and record dose rate in mr/hr.
 - e. Repeat step C.8.d. above but at 2" from ground.
9. Collect soil, vegetation and water sample as follows:
 - a. Take bag marked soil and small scoop, fill with surface soil from a bare spot, tape closed, and tag with the date, time, and location.
 - b. Take bag marked vegetation and scissors. Cut vegetation approximately two (2) inches above ground, fill bag, tape closed, and tag with the date, time, and location.
 - c. Fill poly bottle with surface water, close and tag with the date, time and location.
10. Report all results to E.O.F. and await further instructions.
11. When directed by the Dose Assessment Manager proceed to T.L.D. and air sample cabinet locations. Change out TLD's and filters at the stations, noting time and date of change out. Return samples to E.O.F.

REFERENCE ONLY

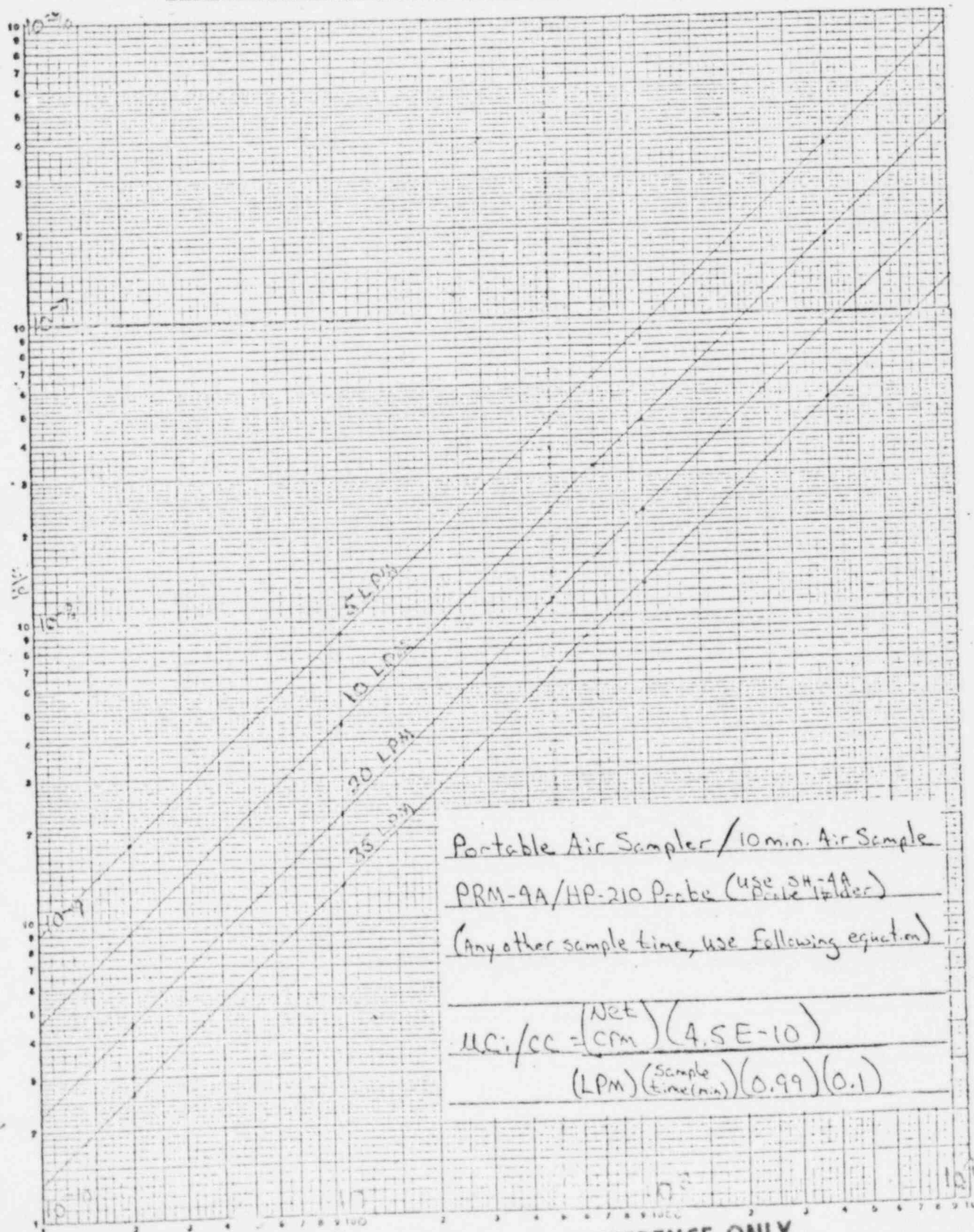
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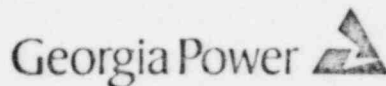
FIGURE 1
EMERGENCY AIR ACTIVITY CONCENTRATION PARTICULATE



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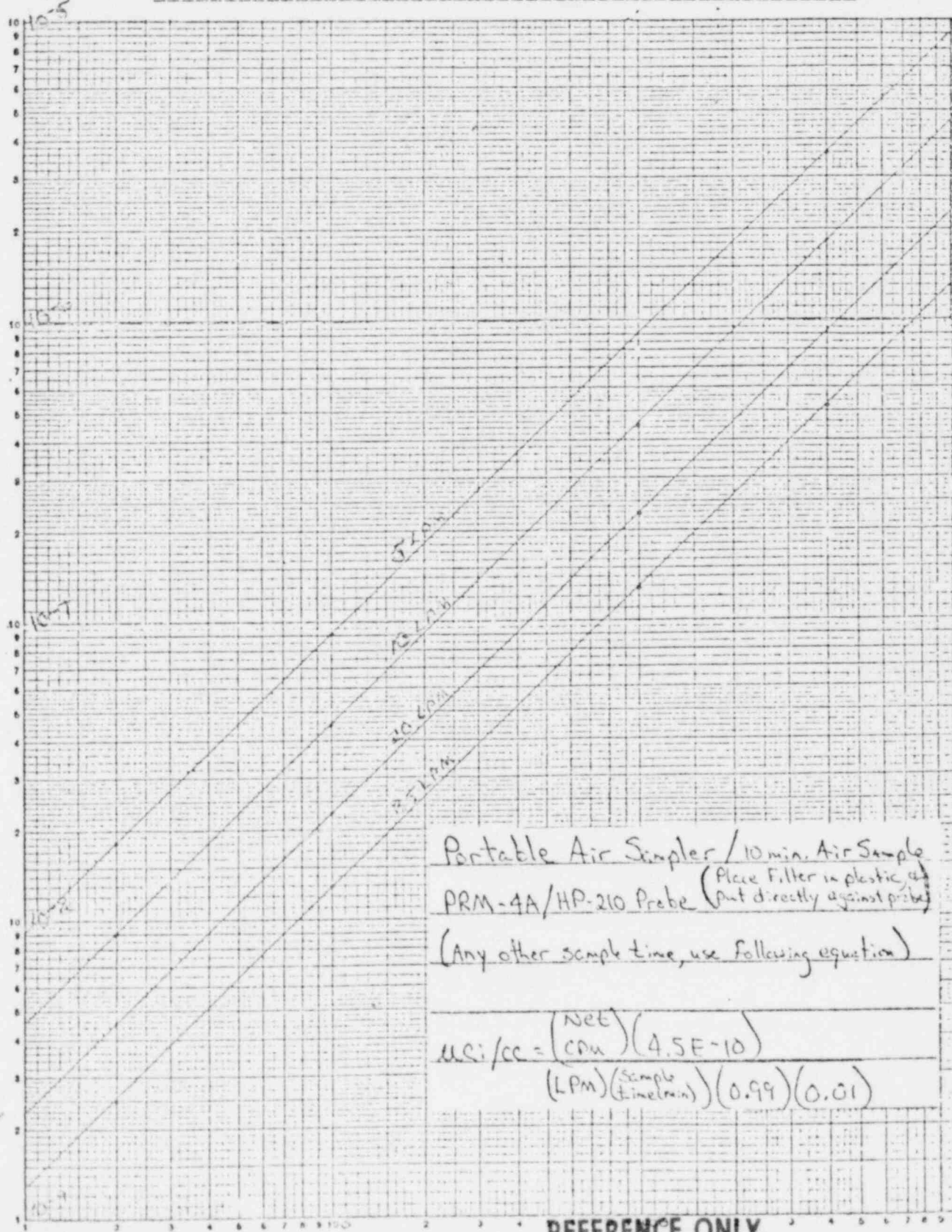
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FIGURE 2
EMERGENCY AIR ACTIVITY CONCENTRATION RADIO IODINE

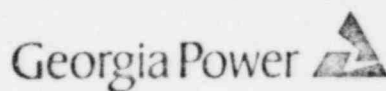


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PROCEDURE DATA PACKAGE	
DOCUMENT NO:	HNP-4625-1
SERIAL NO:	R04-
MPL NO:	
RTYPE:	G15.03
XREF:	
TOTAL SHEETS:	2
FREQUENCY:	As Required
COMPLETED BY:	
DATE COMPLETED:	
I HAVE REVIEWED THIS DATA PACKAGE FOR COMPLETENESS AND AGAINST ACCEPTANCE CRITERIA IN ACCORDANCE WITH HNP-830.	
ACCEPTANCE	UNACCEPTABLE
REVIEWED BY:	
DATE REVIEWED:	
REMARKS:	

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DATA PACKAGE 1 (DATA SHEET 1)

SITE EMERGENCY MONITORING TEAM DATA SHEET

DATE: _____
TIME: _____
TEAM #: _____

SAMPLE LOCATION: _____

SAMPLE TIME ON: _____ OFF: _____

SAMPLER TYPE: _____ SERIAL NUMBER: _____

FLOW RATE: _____ LPM

GROSS AIRBORNE ACTIVITY (GLASS FIBER FILTER)

(SAMPLE + BACK GROUND CPM) _____ CPM (BACK GROUND CPM) _____ CPM

(SAMPLE + BACK GROUND CPM) - (BACK GROUND CPM) = CORRECTED CPM

FROM FIGURE 1 PARTICULATE AIRBORNE CONCENTRATION _____ uc/cc

INSTRUMENT TYPE: _____ SERIAL NUMBER: _____

I AIRBORNE ACTIVITY (CHARCOW. FILTER)

(SAMPLE + BACK GROUND CPM) _____ CPM (BACK GROUND CPM) _____ CPM

(SAMPLE + BACK GROUND CPM) - (BACK GROUND CPM) = CORRECTED CPM

FROM FIGURE 2 I AIRBORNE CONCENTRATION _____ uc/cc

INSTRUMENT TYPE: _____ SERIAL NUMBER: _____

COUNT/DOSE RATE SURVEY:

COUNT/DOSE RATE WHILE IN TRANSIT _____ CPM _____ mr/hr

COUNT RATE - WAIST LEVEL (WINDOW FACING HORIZONTAL) _____ CPM

COUNT RATE - WAIST LEVEL (WINDOW FACING GROUND) _____ CPM

COUNT RATE - 2" FROM GROUND (WINDOW FACING GROUND) _____ CPM

DOSE RATE - WAIST LEVEL (SURVEY METER HORIZONTAL) _____ mr/hr

DOSE RATE - 2" FROM GROUND (SURVEY METER HORIZONTAL) _____ mr/hr

INSTRUMENT TYPE: _____ SERIAL NUMBER: _____

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FIGURE 3
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RESPONSIBLE SECTION

NON-SAFETY RELATED ()

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GENERAL EMERGENCY - EXTERNAL SURVEY TEAM

NOTE

This procedure supercedes HNP-4704 Rev. 4 dated 5-13-78.

A. CONDITION

Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Release can be reasonably expected to exceed PAG exposure levels offsite for more than the immediate site area.

B. REFERENCE

HNP-4720.

C. ACTION

NOTE

This action to be taken by the Health Physics Supervisor or designated alternate and technicians whenever possible or by other trained personnel.

1. Obtain a survey team kit at the Emergency Operations Facility.
2. Turn on survey instruments, allow them to warm up, and check response with source provided.
3. Install glass fiber filter and charcoal (or silver zeolite, if directed) filter in sample holder of air sampler. Turn on sampler and confirm proper operation. Turn off.
4. Acquire transportation and stand by for instructions from Dose Assessment Manager.
5. Proceed to area specified by Dose Assessment Manager.
6. While in transit, take continuous background readings with survey.

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- a. Indicate observed readings on survey map.
- b. If dose rate in excess of 5 mr/hr is indicated, report reading to E.O.F.
7. Take air sample at designated area as follows:
 - a. Place charcoal (or silver zeolite, if directed) and glass fiber filters in air sample holder (fiber filter outside).
 - b. Start air sampler and record time on Data Package 1 (Data Sheet 1).
 - c. Check air flow indication and record flow rate.
 - d. Run air sampler 10 minutes, observing flow rate during the sample period.
 - e. Make radiation survey as in Step C.8 while running air sampler.

NOTE


If levels are greater than 10 mr/hr (approximately 40,000 CPM) report reading to E.O.F. Discontinue sampling and move on to the next location specified by Dose Assessment Manager. Remove filters, place in envelope and record total sample time and flow rate.

- f. Remove filters.
- g. Insert G.M. survey meter probe (HP-210) into sample holder (SH-4A) and record background reading.
- h. Place glass fiber filter in SH-4A holder and obtain reading (CPM). Calculate airborne concentration per Data Package 1 (Data Sheet 1).
- i. Place charcoal or silver zeolite cartridge in plastic and put directly against probe (HP-210). Obtain reading (cpm) and calculate airborne concentration per Data Package 1 Data Sheet 1.
- j. Place sample filters in envelopes and record on envelopes time, location, flow, sample time, CPM, background, and air activity. Hold for further analysis at plant E.O.F.

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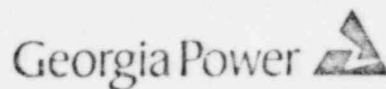
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8. Take count/dose rate survey as follows:
 - a. At waist level, hold G.M. probe on G.M. survey meter with the detector window facing horizontal, read meter and record results in CPM.
 - b. Repeat above, but with detector window facing the ground.
 - c. At 2" above the ground, hold G.M. probe with the detector window facing the ground, read meter and record results.
 - d. At waist level, hold high range survey meter horizontal, read and record dose rate in mr/hr.
 - e. Repeat Step C.8.c above but at 2" from ground.
9. Collect soil, vegetation and water samples as follows:
 - a. Take bag marked soil and small scoop, fill with surface soil from a bare spot, tape closed, and tag with the date, time, and location.
 - b. Take bag marked vegetation and scissors. Cut vegetation approximately two (2) inches above ground, fill bag, tape closed, and tag with the date, time and location.
 - c. Fill poly bottle with surface water, close and tag with date, time and location.
10. Report all results to E.O.F. and await further instructions.
11. When directed by the Dose Assessment Manager, proceed to TLD and air sample cabinet locations. Change out TLD and filters at the stations noting time and date of change out. Return samples to E.O.F.

REFERENCE ONLY

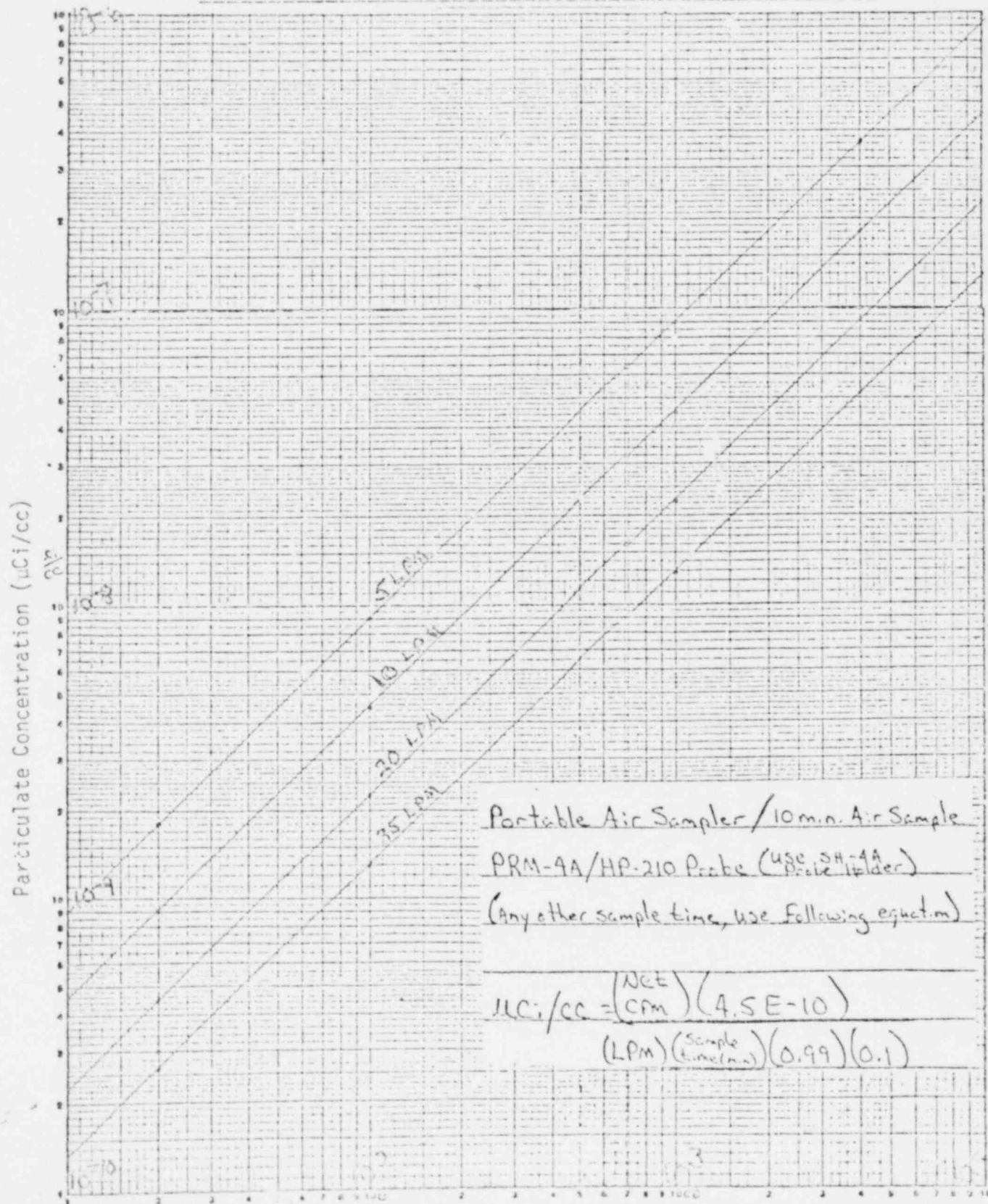
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FIGURE 1
EMERGENCY AIR ACTIVITY CONCENTRATION PARTICULATE



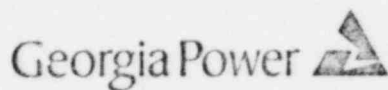
Corrected Counts Per Minute (cpm)

REFERENCE ONLY

MANUAL SET

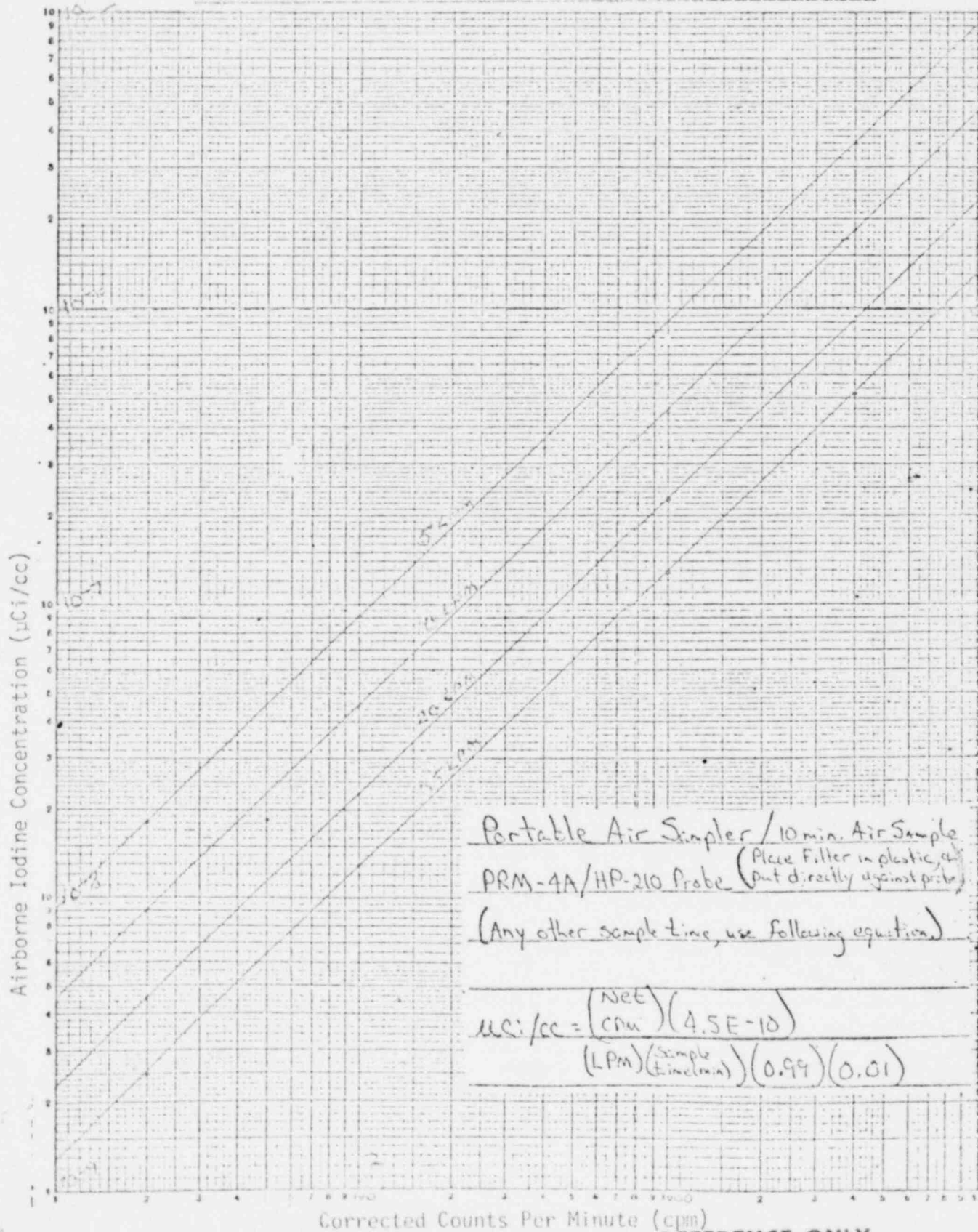
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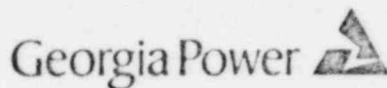
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FIGURE 2
EMERGENCY AIR ACTIVITY CONCENTRATION RADIOIODINE



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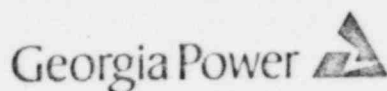
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SERIAL NO:	R04-
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XREF:	
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FREQUENCY:	
COMPLETED BY:	
DATE COMPLETED:	
I HAVE REVIEWED THIS DATA PACKAGE FOR COMPLETENESS AND AGAINST ACCEPTANCE CRITERIA IN ACCORDANCE WITH HNP-830.	
ACCEPTANCE	UNACCEPTABLE
REVIEWED BY:	
DATE REVIEWED:	
REMARKS:	

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DATA PACKAGE 1
(DATA SHEET 1)

OFF-SITE EMERGENCY MONITORING TEAM DATA SHEET

DATE: _____
TIME: _____
TEAM #: _____

SAMPLE LOCATION: _____

SAMPLE TIME ON: _____ OFF: _____

FLOW RATE: _____ LPM

SAMPLER TYPE: _____ SERIAL NUMBER _____

GROSS AIRBORNE ACTIVITY (GLASS FIBER FILTER)

(SAMPLE + BACK GROUND CPM) _____ CPM (BACK GROUND CPM) _____ CPM

(SAMPLE + BACK GROUND CPM) - (BACK GROUND CPM) = CORRECTED CPM

FROM FIGURE 1 PARTICULATE AIRBORNE CONCENTRATION _____ $\mu\text{c/cc}$

INSTRUMENT TYPE: _____ SERIAL NUMBER _____

I AIRBORNE ACTIVITY (CHARCOAL FILTER)

(SAMPLE + BACK GROUND CPM) _____ CPM (BACK GROUND CPM) _____ CPM

(SAMPLE + BACK GROUND CPM) - (BACK GROUND CPM) = CORRECTED CPM

FROM FIGURE 2 I AIRBORNE CONCENTRATION _____ $\mu\text{c/cc}$

INSTRUMENT TYPE: _____ SERIAL NUMBER _____

COUNT/DOSE RATE SURVEY:

COUNT/DOSE RATE WHILE IN TRANSIT _____ CPM _____ mr/hr

COUNT RATE - WAIST LEVEL (WINDOW FACING HORIZONTAL) _____ CPM

COUNT RATE WAIST LEVEL (WINDOW FACING GROUND) _____ CPM

COUNT RATE - 2' FROM GROUND (WINDOW FACING GROUND) _____ CPM

DOSE RATE - WAIST LEVEL (SURVEY METER HORIZONTAL) _____ mr/hr

DOSE RATE - 2' FROM GROUND (SURVEY METER HORIZONTAL) _____ mr/hr

INSTRUMENT TYPE _____ SERIAL NUMBER _____