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Vogtle Electric Generating Plant
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Energy to Serve Your WorldSM

August 24, 2000

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

NOG- 01161

**VOGTLE ELECTRIC GENERATING PLANT
EMERGENCY PLAN IMPLEMENTING PROCEDURE REVISION**

Gentlemen:

In accordance with 10 CFR 50.4, as required by 10 CFR 50, Appendix E, Part V, Southern Nuclear hereby submits the following revision(s) to the Vogtle Emergency Plan Implementing Procedure(s):

<u>Procedure</u>	<u>Revision</u>	<u>Effective Date</u>
91303-C	16	08/02/00

By copy of this letter, the NRC Region II Administrator and the Site NRC Senior Resident Inspector will receive one copy each of the revision(s).

Please contact Angel Cardona at (706) 826-3114 if you have questions.

Sincerely,

Jeffrey T. Gasser
General Manager

JTG:AEC:jmm

Enclosure: Emergency Plan Implementing Procedure(s)

A045

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SOUTHERN COMPANY
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8/7/08
Date

Figure 2 (Example)

Approved By G.R. Frederick	Vogtle Electric Generating Plant 	Procedure Number 91303-C	Rev 16
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PRB REVIEW REQUIRED

1.0 PURPOSE

The purpose of this procedure is to provide direction for performing field monitoring.

2.0 RESPONSIBILITIES

2.1 The Dose Assessment Manager (or Health Physics (HP) Supervisor if the Emergency Operations Facility (EOF) is not activated) shall determine the need for offsite surveys and sampling.

2.2 The Dose Assessment Manager (or HP Supervisor if the EOF is not activated) is responsible for:

2.2.1 Briefing and dispatching the Field Monitoring Team(s) (FMT).

2.2.2 Directing the FMT's activities through the FMT Communicator.

2.2.3 Collecting all documentation, and directing disposition of samples at the completion of shift and prior to dismissal.

3.0 PREREQUISITES

NONE


4.0 PRECAUTIONS

4.1 FMT members shall not exceed their authorized dose limit. If the limit is approached, leave the plume and request guidance from the FMT Communicator.

4.2 Normal precautions applicable to the handling of radioactive material involving the potential hazards from direct radiation exposure and the spread of loose contamination apply to air sample materials. Completed sample materials will be bagged for transport and retention. Iodine cartridges and air particulate filters shall be monitored for direct radiation. Bagged sample material having contact Gamma readings greater than 2½ mRem/h above background will be stored in the rear of the field survey vehicle and any shielding materials available shall be used.

4.3 When precipitation is predicted or occurring in the area of the plume, the potential for significantly increased rates of radioactivity deposition shall be considered and the scope of field monitoring increased, as required, in order to quantify the effects of this potentially increased deposition.

4.4 The FMT Communicator shall inform the FMT's of any changes in emergency classification, or of situations which may compromise their health and safety.

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5.0 PROCEDURE

5.1 The Dose Assessment Manager (or HP Supervisor if the EOF is not activated) should request the formation of at least one team (three teams maximum) of two persons each, and provide a briefing to them prior to their dispatch. (Checklist 2, Field Monitoring Team, Initial Briefing Checklist, should be used.)

5.2 The FMT(s) shall implement the actions of Field Monitoring Team Checklist, Checklist 1.

5.3 The Field Team Communicators may use Data Sheets 2, 3, 4 or 5 and Checklists 3, 4, 5 or 6 when communicating with FMT(s).

5.4 Prior to team dispatch, the Field Team Communicator should prepare the KI Distribution Checklist (Data Sheet 1) in Procedure 91305-C, "Protective Action Guidelines".

5.5 The Field Team Communicator should contact Health Physics personnel when FMT kits need restocked.


6.0 REFERENCES

6.1 **VEGP EMERGENCY PLAN**

6.2 **PROCEDURES**

6.2.1 91305-C, "Protective Action Guidelines"

END OF PROCEDURE TEXT

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FIELD MONITORING LOCATIONS AND ENVIRONMENTAL MONITORING POINTS

SECTOR F		
F21	1-1/2 miles	Dirt road intersection, SE of Plant Wilson
F22	2 miles	Dirt road intersection, dirt road starts from River Road south of Training Center
F41	3-1/2 miles	Unimproved dirt lane, sharp right turn junction, west of Griffins Landing
F42	4 miles	Griffins Landing boat ramp
F51	4-1/4 miles	Griffins Landing Road, Y-junction with unimproved dirt road
F81	7-1/4 miles	Brigham Landing boat ramp
F91	8-1/4 miles	River Road, intersection with unimproved dirt road by concrete marker
F101	9-1/2 miles	River Road T-junction with unimproved dirt road by concrete marker, by Sweetwater Creek

SECTOR G		
G21	2 miles	River Road, T-junction with GPC boat landing road
G22	1-3/4 miles	River Road, junction with Training Center road
G23	1-1/2 miles	River Road, Y-junction with Plant Wilson road
G24	1-1/2 miles	River Road, T-junction with Plant Vogtle exit road
G31	2-1/4 miles	River Road, at end of paved section
G41	3-1/2 miles	River Road, V-junction with unimproved dirt road
G51	4-1/4 miles	River Road, at Cochran Grove Church
G52	5 miles	River Road, at T-junction with unimproved dirt road at residence
G53	4-1/2 miles	Griffins Landing Road, Y-junction with Dixon Road
G61	5-1/2 miles	River Road, SE Beaverdam Creek at residence
G62	5-3/4 miles	End of unimproved dirt road, County Road 20 at residence
G71	6-1/2 miles	Intersection of River Road and Brigham Landing Road
G72	6-1/2 miles	Brigham Landing Road, T-junction with County Road 81
G73	6-1/2 miles	Brigham Landing Road, end of paved section, T-junction with County Road 80
G81	7-1/2 miles	River Road, T-junction with unimproved dirt road
G82	7-1/2 miles	County Road 78, by Holy Trinity Church
G101	9-3/4 miles	Royal Road, T-junction with unimproved dirt road

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FIELD MONITORING LOCATIONS AND ENVIRONMENTAL MONITORING POINTS

SECTOR H		
H21	1-1/4 miles	River Road, by Environmental Monitoring Station Number 8
H51	4-3/4 miles	Chance Road, sharp left turn by stream
H61	5-1/4 miles	Junction of Griffins Landing Road and Chance Road
H62	5-1/2 miles	Dixon Road, by grain bin
H63	5-3/4 miles	Griffins Landing Road, by Microwave Tower
H71	6-1/4 miles	Dixon Road, Y-intersection
H72	6-1/2 miles	Griffins Landing Road, by Bethany Church Cemetery
H81	7-1/2 miles	Georgia Route 23 in Girard by stop sign and junction of Stoney Bluff Road
H82	7-1/4 miles	Georgia Route 23, junction with Brigham Landing Road
H83	7-1/4 miles	End of dirt lane off Brigham Landing Road
H91	8-1/2 miles	Stoney Bluff Road, T-junction with Long Road
H92	8-3/4 miles	Givens Church Road by Church of God
H101	9-1/2 miles	Stoney Bluff Road, at Thankful Church Road

SECTOR J		
J21	1-1/4 miles	River Road, by Environmental Monitoring Station 9, T-intersection with unimproved dirt road
J22	1-1/2 miles	Y-intersection of unimproved dirt road
J23	1-3/4 miles	End of unimproved dirt road
J41	3-3/4 miles	Junction of unimproved dirt roads
J51	4-3/4 miles	Intersection of Cypress Pond Road and Georgia Route 23
J52	4-1/2 miles	Chance Road, curve at residence
J61	5-1/2 miles	Georgia Route 23, T-junction with Glisson Road
J62	5-1/2 miles	Georgia Route 23 and Chance Road
J63	5-3/4 miles	Dead end of improved dirt road off of Buck Lane
J64	5-1/2 miles	Unimproved dirt road off Buck Lane by windmill at Hickman Cemetery
J71	7 miles	Glisson Road at residence
J72	6-1/2 miles	Intersection of Claxton Road and Glisson Road
J73	6-1/2 miles	Intersection of Brier Creek Road and Buck Lane by Wimberly Cemetery
J81	7-1/4 miles	T-junction of Brier Creek Road and Claxton Road at siren B33
J82	7-3/4 miles	T-junction of Brier Creek Road and Glisson Road
J91	8-1/2 miles	T-junction of Brier Creek Road and Georgia Route 23
J101	9-1/2 miles	Y-intersection of Georgia Route 23 and County Road 138 at siren B44
J102	9-1/2 miles	Tom Barger Road at intersection of unimproved dirt road
J103	9-1/2 miles	Tom Barger Road at intersection of Benjamin Road


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SECTOR K		
K24	1-1/4 miles	River Road at Y-intersection with unimproved dirt road
K31	2-1/2 miles	Ebenezer Church Road at intersection with unimproved dirt road prior to sharp right turn south
K41	3-1/2 miles	Ebenezer Church Road at Y-intersection with unimproved dirt road
K51	4-1/2 miles	Intersection of Ebenezer Church Road and Georgia Route 23
K52	4-1/2 miles	T-intersection of Georgia Route 23 and unimproved dirt road
K53	4-1/2 miles	Ebenezer Church Road at sharp right curve by unimproved dirt road
K61	5-1/2 miles	Intersection of Thompson Bridge Road and Brier Creek Road
K62	5-1/4 miles	Thompson Bridge Road at T-junction with Heath Road
K63	5-3/4 miles	Approximately 3/4 - mile South of K62
K64	5-1/2 miles	Fork of Buck Lane at an unimproved dirt road
K71	6-1/2 miles	Brier Creek Road by sharp curve at residence with out building
K72	6-1/2 miles	Y-junction on unimproved dirt road, County Road 92
K73	6-1/4 miles	County Road 92 at Lambert Cemetery
K81X	7-1/4 miles	Dead end of unimproved dirt road, off Roberts Road, at creek
K91	8-3/4 miles	T-intersection of unimproved dirt roads off Mobley-Brown Road
K92	8-3/4 miles	Mobley-Brown Road at triangular intersection of dirt road
K93	8-1/4 miles	Mobley-Brown Road at sharp curve
K94	8-3/4 miles	Unimproved dirt road off Roberts Road
K101	10 miles	Intersection of Tom Barger Road and Gordon Road
K102	9-1/2 miles	Gordon Road at intersection with Mobley-Brown Road
K103	9-1/4 miles	Gordon Road at intersection with unimproved dirt road
K104	9-1/4 miles	Gordon Road at T-intersection with unimproved dirt lane
K105	9-1/4 miles	Gordon Road at T-intersection with Mobley-Brown Road
K106	9-3/4 miles	Intersection of Gordon Road and Quaker Road
K107	9-3/4 miles	Intersection of Quaker Road and Hatchers Mill Road
K108	9-1/2 miles	Hatchers Mill Road at Springfield Church
K109	10 miles	Quaker Road at T-intersection with unimproved dirt road


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SECTOR L		
L11	1 mile	Intersection of Plant Vogle access roads
L21	1-1/4 miles	Intersection of Plant Vogle Gate 1 access road and River Road
L22	1-1/2 miles	Ebenezer Church Road at Ebenezer Church
L23	2 miles	Jack Delaigle Road at T-intersection with unimproved road
L31	2-1/2 miles	Ebenezer Church Road at sharp curve after recreation area
L32	2-1/4 miles	Jack Delaigle Road at Y-intersection of unimproved road
L33	2-3/4 miles	Jack Delaigle Road at Triangular intersection with Son Delaigle Road
L34	2-3/4 miles	Y-intersection of unimproved dirt roads off of Ebenezer Church Road
L41	3-1/4 miles	Jack Delaigle Road at cluster of residences and out buildings
L42	3-3/4 miles	Unimproved dirt road off Jack Delaigle Road
L43	3-1/4 miles	Intersection of unimproved dirt roads
L44	3-1/4 miles	T-intersection of unimproved dirt roads
L51	4-1/2 miles	Jack Delaigle Road at T-intersection with County Road 391
L52	5 miles	Intersection of Jack Delaigle Road and Georgia Route 23
L53	4-1/2 miles	Fork of improved dirt roads off Jack Delaigle Road and County Road 391
L54	4-3/4 miles	Georgia Route 23 at unimproved road
L61	5-1/2 miles	Thompson Bridge Road intersection with Boll Weevil Road
L71	6-1/2 miles	Thompson Bridge Road at Cox Place Road
L72	6-1/4 miles	Thompson Bridge Road at Jobs Spring Church
L81	8 miles	Thompson Bridge Road at intersection with Seven Oaks Road
L82	7-1/2 miles	Dead End of dirt lane off Seven Oaks Road
L91	8-1/2 miles	Intersection of unimproved roads off Roberts Road
L92	8-1/4 miles	Thompson Bridge Road at Thompson Bridge
L93	8-3/4 miles	Intersection of Hatchers Mill Road and Chance Hatcher Road
L101	9-3/4 miles	County Road 393 at dead end off Quaker Road
L102	9-1/2 miles	Housing subdivision off Roberts Road


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SECTOR M		
M31	2-1/2 miles	Son Delaigle Road under transmission lines
M41	3-1/2 miles	Triangular intersection of dirt roads near 230 kV transmission lines
M42	3-3/4 miles	Intersection of dirt roads north of 230 kV transmission liens
M43	3-3/4 miles	Jack Delaigle Road at intersection
M51	4-1/2 miles	Hancock Landing Road under 230 kV transmission lines
M52	4-1/2 miles	Thomas Road at T-intersection
M53	4-1/4 miles	Intersection of Thomas Road and Jack Delaigle Road
M61	5 miles	Intersection of Hancock Landing Road and Thomas Road
M62	5-1/2 miles	Intersection of Georgia Route 23 and Hancock Landing Road
M63	5-3/4 miles	Botsford Church Road by cemetery and dirt road with out buildings
M71	6-3/4 miles	McNorril Road and Cemetery Road Y-intersection
M72	6-1/4 miles	Intersection of Botsford Church Road and Cox Place Road
M73	6-1/2 miles	At Y-intersection of unimproved dirt lanes off McNorril Road
M81	7-3/4 miles	Intersection on Utley Road and Lawson Road
M82	7-1/2 miles	Intersection of Sevens Oaks Road and Botsford Church Road at Botsford Church
M83	7-1/2 miles	Seven Oaks Road at intersection with Lawson Hall Road
M84	7-1/2 miles	Seven Oaks Road at intersection with improved dirt road
M85	7-1/4 miles	Botsford Church Road at Botsford Church Cemetery
M86	7-1/2 miles	Seven Oaks Road at T-intersection with Griffin Road
M87	7-3/4 miles	Intersection of Sevens Oaks Road and dirt lane
M91	8 miles	Griffin Road and 230 kV transmission lines
M92	8-1/4 miles	Griffin Road and 108 intersection
M93	8-3/4 miles	End of Griffin Road
M101	9-1/2 miles	Intersection of Bates Road and unimproved dirt road


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FIELD MONITORING LOCATIONS AND ENVIRONMENTAL MONITORING POINTS

SECTOR N		
N21	1-1/2 miles	Y-intersection of unimproved dirt roads west of River Road
N22	1-1/2 miles	T-intersection of unimproved dirt roads west of River Road
N23	1-3/4 miles	Out buildings on unimproved dirt road and County Road 99
N31	2-1/4 miles	End of unimproved dirt road near Red Branch
N32	2-1/4 miles	Residence of unimproved dirt road off Hancock Landing Road
N33	2-3/4 miles	Dead end of Claxton-Lively Road
N41	3-3/4 miles	Intersection of Hancock Landing Road and Nathaniel Howard Road
N42	3-1/2 miles	Son Delaigle Road at railroad crossing
N43	3-1/2 miles	Intersection of Claxton Lively Road and Son Delaigle Road
N51	4 miles	Railroad crossing at Hancock Landing Road
N52	4-1/4 miles	Intersection of Claxton-Lively Road and Hancock Landing Road
N53	4-1/2 miles	Pond at end of unimproved dirt road off Hancock Landing Road
N61	5-3/4 miles	Claxton-Lively Road at Y-intersection with unimproved dirt road
N71	6-1/2 miles	Georgia Route 23 at trailer park
N72	6-1/2 miles	Claxton-Lively Road at T-intersection with unimproved dirt road
N73	6-3/4 miles	Claxton-Lively Road at Y-intersection with improved dirt road
N74	6-1/2 miles	Ben Hatcher Road at Y-intersection with improved dirt road
N75	7 miles	Ben Hatcher Road at Y-intersection with improved dirt road
N81	7-1/2 miles	Intersection of Seven Oaks Road and Sam Mead Road
N82	7-3/4 miles	Seven Oaks Road at railroad crossing
N83	7-3/4 miles	Dead end of improved dirt road off of Seven Oaks Road
N84	8 miles	Intersection of Georgia Route 23 and 80 at siren B8
N85	7-1/2 miles	Intersection of Georgia Route 23 and Ben Hatcher Road
N86	7-1/4 miles	Railroad crossing on Georgia Route 23
N91	8-1/2 miles	Pond off of improved dirt road off Sam Mead Road
N92	8-1/2 miles	Sam Mead Road at grain bin
N93	8-1/2 miles	Junction of Cates-Mead and Sam Mead Road at siren B16
N94	8-1/2 miles	Residence on improved dirt road off of Cates-Mead Road
N95	9 miles	Sharp turn on Georgia Route 80 east of Sam Mead Road
N101	9-1/2 miles	Sharp turn on unimproved dirt road between Sam Mead Road and Cates-Mead Road
N102	9 miles	T-intersection of Daybreak Road and Cates-Mead Road
N103	9 miles	Grain bins at the end of Daybreak Road
N104	9-1/2 miles	Dead end of unimproved dirt road off of Sam Mead Road
N105	9 miles	Junction of Sam Mead Road and unimproved dirt road
N106	10 miles	One mile East of N102 on Cates-Mead Road


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SECTOR P		
P21	1-1/2 miles	River Road at railroad crossing
P22	2 miles	Trailer park on dirt road off of Hancock Landing Road
P23	1-3/4 miles	Railroad crossing and improved dirt road
P24	2 miles	Intersection of Hancock Landing Road and River Road
P25	1-3/4 miles	Intersection of unimproved dirt road 1/3 mile off of River Road
P31	2 miles	Radio tower on Hancock Landing Road
P32	2-1/4 miles	River Road at trailer park
P33	2-1/2 miles	River Road at intersection with unimproved dirt road
P41	3-1/4 miles	Dead end of improved dirt road off of River Road
P42	3-1/2 miles	Intersection of improved dirt road and River Road
P43	4 miles	River Road at intersection with unimproved dirt road
P51	4-1/4 miles	River Road at Gobbie Grove Church
P61	5 miles	Nathaniel Howard Road at Newberry Creek
P62	5-1/2 miles	Ben Hatcher Road at Fair Field Church
P63	5-1/4 miles	Ben Hatcher Road at Newberry Creek
P64	5-3/4 miles	Junction of Ben Hatcher and Nathaniel Howard Road
P71	6-1/2 miles	Dead end of unimproved dirt road off of Georgia Route 80 by Mineral Spring Branch
P81	7-1/2 miles	Georgia Route 80 at intersection of Godbee Road
P82	7-1/4 miles	Georgia Route 80 at intersection of unimproved dirt road
P83	7-1/2 miles	Georgia Route 80 at cluster of residences and out buildings
P84	7 miles	Junction of Georgia Route 80 and Anderson Road
P91	8-3/4 miles	Georgia Route 23 at Mount Zion Church
P92	8-3/4 miles	End or unimproved road off of Godbee Road
P93	8-1/4 miles	Dead end of Godbee Road
P101	9-1/2 miles	Intersection of Georgia Route 23 and Spring Branch Church Road
P102	9-3/4 miles	T-intersection of unimproved dirt road and Spring Branch Church Road

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SECTOR Q		
Q31	2-3/4 miles	Fork at unimproved road off of River Road
Q51	4-1/2 miles	Trailer park on River Road
Q52	4-1/2 miles	Intersection of County Road 58 and unimproved dirt road at siren B10
Q53	4-1/2 miles	Dead end of Allen Chapel Road
Q54	4-1/2 miles	T-intersection of unimproved dirt road off of Allen Chapel Road
Q61	5 miles	River Road and Allen Chapel Road T-intersection by trailer park
Q62	5-3/4 miles	Dead end of unimproved dirt road off of River Road
Q71	6 miles	River Road at sharp curve
Q72	6-1/2 miles	Unimproved dirt road off of Georgia Route 80
Q73	6-3/4 miles	Junction of River Road and Shell Bluff Landing Road and Georgia Route 80
Q74	6-1/2 miles	Improved dirt road off of Shell Bluff Landing Road
Q75	6-3/4 miles	Intersection of improved dirt road and Shell Bluff Landing Road
Q76	6-1/2 miles	Shell Bluff Landing Road and Y-intersection with improved dirt road
Q77	6-3/4 miles	Georgia Route 80 at Y-intersection with cluster of residences
Q78	6-3/4 miles	Georgia Route 80 by 230 kV transmission lines
Q81	7-1/2 miles	Intersection of River Road and unimproved road
Q82	7-1/2 miles	Intersection of Anderson Road and unimproved road
Q91	8 miles	River Road and McKinney Branch Church
Q92	8-1/2 miles	End of Miller Pond Road
Q93	8-3/4 miles	Junction of River Road and Miller Pond Road at siren B1

SECTOR R		
R71	6-3/4 miles	End of Shell Bluff Landing Road at Shell Bluff Landing


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FIELD MONITORING LOCATIONS AND ENVIRONMENTAL MONITORING POINTS

LOCATION NUMBER	DESCRIPTIVE LOCATION	DIRECTION	DISTANCE (MILES)	SAMPLE TYPE (1)
1	Hancock Landing Road	N	1.1	D
2	River Bank	NNE	0.8	D
3	River Bank	NE	0.7	D
4	River Bank	ENE	0.8	D
5	River Bank	E	1.2	D
6	Plant Wilson	ESE	1.1	D
7	Simulator Building	SE	1.7	D,V,A
8	River Road	SSE	1.1	D
9	River Road	S	1.1	D
10	Met Tower River Road	SSW	0.9	A
11	River Road	SW	1.2	D
12	River Road	WSW	1.1	D
13	River Road	W	1.3	D
14	River Road	WNW	1.8	D
15	Hancock Landing Road	NW	1.5	D,V
16	Hancock Landing Road	NNW	1.4	D,A
17	Savannah River Site River Road	N	5.4	D
18	Savannah River Site D Area	NNE	5.0	D
19	Savannah River Site A.13	NE	4.6	D
20	Savannah River Site A.13.1	ENE	4.8	D
21	Savannah River Site A.17	E	5.3	D
22	River Bank Downstream of Buxton Landing	ESE	5.2	D
23	River Road	SE	4.7	D
24	Chance Road	SSE	4.9	D
25	Chance Road and Highway 23	S	5.2	D
26	Highway 23, mile 15.5	SSW	4.6	D
27	Highway 23, mile 17	SW	4.8	D
28	Thomas Road	WSW	5.0	D
29	Claxton-Lively Rod	W	5.0	D
30	Ben Hatcher Road	WNW	4.7	D
31	River Road at Allen's Church Fork	NW	5.0	D
32	River Bank	NNW	4.8	D
33	Nearby Residence	SE	3.3	D

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MONITORING POINTS**

LOCATION NUMBER	DESCRIPTIVE LOCATION	DIRECTION	DISTANCE (MILES)	SAMPLE TYPE (1)
34	Girard Elementary School	SSE	6.3	D
35	Girard	SSE	6.6	D,A
36	Waynesboro	WSW	15.0	D,A
37	Substation (Waynesboro) North Side of Road	WSW	17.5	D
38	Substation (Waynesboro) South Side of Road	WSW	17.5	D
43	Employees Recreation Area	SW	2.2	D
44	Plant Wilson (West Gate)	ESE	1.1	D
45	VEGP Visitors Center	SSE	0.3	D
80	North Augusta Water Treatment Plant	Upstream	51	W
81	Savannah River (mile 153.1)	Upstream	2.2	R,S
82	Savannah River (mile 151.2)	Upstream	0.2	R,S(2)
83	Savannah River (mile 150.4)	Downstream	0.6	R
84	Savannah River (mile 149.5)	Downstream	1.5	R,S(2)
85	Savannah River (mile 146.7)	Downstream	4.3	R
87	Beaufort-Jasper Water Treatment Plant; Beaufort, S.C.	Downstream	112	W
88	Cherokee Hill Water Treatment Plant; Port Wentworth, Ga.	Downstream	122	W
98	W. C. Dixon Dairy	SE	9.8	M

TABLE NOTATION:

- (1) Sample Types
 - A - Airborne Radioactivity
 - D - Direct Radiation
 - M- Milk
 - R - River Water
 - S - River Shoreline Sediment
 - V- Vegetation
 - W - Drinking Water (at water treatment plant)
- (2) These are approximate locations for sediment sampling. High water may sometimes cause an otherwise suitable location for sediment sampling to be unavailable.

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DATA SHEET 2

Sheet 1 of 1

FIELD MONITORING SURVEY FORM

Date _____ Team Members _____

LOCATION and TIME		Dose Rate Meter* WAIST-LEVEL			Dose Rate Meter* 2-INCHES FROM GROUND			WAIST LEVEL	2" FROM GROUND	SAMPLE NUMBER	SAMPLE SURVEY
Survey point or miles and direction from given sample point.	Time	CLOSED (mRem/h)	OPEN (mRem/h)	OPEN/ CLOSED RATIO	CLOSED (mRem/h)	OPEN (mRem/h)	OPEN/ CLOSED RATIO	(ncpm)	(ncpm)	1.	2. (mRem/hr) or ncpm)

NOTES:

- 1.**
TYPE OF SAMPLE CODE

SN - SNOW SAMPLE

I - ICE SAMPLE

V - VEGETATION (GRASS)

W - WATER SAMPLE

S - SURFACE SAMPLE

GA - GENERAL AREA RADIATION SURVEY

2.
If results from sample survey exceed 100 net cpm, label sample with a radioactive material sticker.

INSTRUMENT TYPES _____

SERIAL NUMBERS _____

CALIBRATION DUE _____

*Dose Rate Meter (RO2 or equivalent)
Count Rate Meter (ASP1 w/GM probe or equivalent)


EXAMPLES OF SAMPLE NUMBERS TO BE GIVEN BY FMT COMMUNICATORS:

Air Sample #1 on the 10 Mile EPZ Map at Location Mike 31 - (AS1M31) Second Air Sample at that location - (AS2M31)
 Air Sample #1 on the Site Map at Grid Coordinate Juliet 18 - (AS1J18) - Second Air Sample at that location - (AS2J18)
 Same Nomenclature to be used for other samples using "Type Of Sample" code above - (V1M31) or (V1J18) for Vegetation, (W1M31) or (W1J18) for Water

AIR SAMPLE DATA Sampler Model No. _____ Serial No. _____ Calibration Due _____

Sample Location	Sample Time	Sample Duration (Minutes) A	Flow Rate (LPM) <u>Start</u> End	Avg. Flow Rate (LPM) B	Total Flow (Liters) A X B	Sample No.	Sample Activity	
							<u>Particulate</u> (ncpm)	<u>Silver Zeolite</u> (ncpm)

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DATA SHEET 3

Sheet 1 of 1

IN TRANSIT RADIATION SURVEY FORM


Traverse path from _____ to _____

Survey Point (Description or Number)	Dose Rate (mRem/hr)	Count Rate (ncpm)	Time	Mileage

INSTRUMENT TYPES		
	SERIAL NUMBER	CALIBRATION DUE
COUNT RATE METER		
DOSE RATE METER		

TEAM MEMBERS	

DATE _____

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DATA SHEET 4
FIELD MONITORING TEAM DATA

Sheet 1 of 1

THYROID DOSE RATE (\dot{D})
FROM FIELD MONITORING DATA

Sample No. _____ Time of Sample _____ Date _____ Location _____

A. FIELD DATA

REMARKS:

1. Total volume of air sampled: (V) _____ liters


2. Net cpm (Iodine) above background (N): _____ cpm
Data Sheet 2 of Procedure 91303-C)

B. Thyroid dose rate (\dot{D}): _____ mRem/h
(Use appropriate expression below to calculate)

NOTE

T is time since reactor shutdown until release occurred.

FOR $T \leq 24$ hr: $\dot{D} = \frac{N(12)}{V}$	FOR $T > 24$ hr: $\dot{D} = \frac{N(65)}{V}$
---	--

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DATA SHEET 5

Sheet 1 of 1

**FIELD MONITORING TEAM
STATUS UP-DATE**

EMERGENCY CLASSIFICATION _____


WIND DIRECTION: FROM _____° TO _____° WIND SPEED _____ MPH

AFFECTED SECTORS: _____

PROJECTED RADIOLOGICAL CONDITIONS:

<u>DISTANCE</u> (miles)	<u>TEDE</u> (mRem)	<u>THYROID CDE</u> (mRem)
0.6	_____	_____
2	_____	_____
5	_____	_____
_____	_____	_____
_____	_____	_____

MESSAGE _____

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CHECKLIST 1

FIELD MONITORING TEAM CHECKLIST

POSITION FILLED BY: Qualified members of Radiological Emergency Team.

RESPONSIBILITY: Field sampling and surveys.


INITIAL ACTIONS

NOTE

The first FMT consists of those on-shift personnel who's names appear on Data Sheet 1 of procedure 00012-C, "Shift Manning Requirements" in the FMT position.

FIRST FMT

1. Report to the Technical Support Center (TSC)
2. Receive an Initial Briefing from the HP/Chem Shared Foreman or designee.
3. The Initial Briefings will be given per Checklist 2, Field Monitoring Team, Initial Briefing Checklist.
4. Obtain emergency vehicle key rings and hand held radio at the TSC prior to dispatch.
5. Pick-up the field monitoring kit, field survey handbook and emergency dosimetry (TLD and EDRD) at the entrance to the PESB and go directly into the field for sampling and surveys.
6. Obtain Emergency Vehicles. Emergency vehicles are located in designated parking spaces in front of the Administrative Building and in the Training Center parking lot.
7. Go to the "Instrument and Equipment Checks" section in the Initial Actions section of this checklist.

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CHECKLIST 1

FIELD MONITORING TEAM CHECKLIST

INITIAL ACTIONS(Cont'd.)

SECOND AND THIRD FMT

1. Report to the Operations Support Center (OSC).
2. Form teams under the direction of the OSC Manager and Lab Foreman in the OSC or the HP Supervisor in the TSC. If the OSC Manager or Lab foremen are not available in the OSC, call the TSC and receive direction from the HP Supervisor.
3. Obtain Emergency Vehicle Key Rings at the OSC.
4. Obtain Emergency Vehicles. Emergency vehicles are located in designated parking spaces in front of the Administrative Building and in the Training Center parking lot.
5. Report to the EOF, obtain Field Monitoring Kits, hand held radios, Field Survey Handbook and emergency dosimetry (TLD & EDRD) if not already obtained.
6. Receive an Initial Briefing from the Dose Assessment Manager or designee (or HP Supervisor if the EOF is not activated).
7. The Initial Briefings will be given per Checklist 2, Field Monitoring Team, Initial Briefing Checklist.
8. Go to the "Instrument and Equipment Checks" section in the Initial Actions section of this checklist.

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CHECKLIST 1

FIELD MONITORING TEAM CHECKLIST

INITIAL ACTIONS (Cont'd.)


INSTRUMENT AND EQUIPMENT CHECKS

1. Check vehicle for adequate fuel ($\frac{1}{2}$ tank or greater), refuel if necessary. The gas pump is operated by a key-card and the EP ID number (444444) must be used when prompted for a PIN number.

NOTE

Inventory of FMT Kit is required ONLY if seal is found broken. If seal is broken, inventory kit per Procedure 91702-C, "Emergency Equipment And Supplies", Data Sheet 2. If the PESB FMT Kit has a seal broken, the first FMT has the option of proceeding to the EOF to obtain a spare FMT kit and leaving the unsealed kit at the EOF to be inventoried at a later time.

2. Check operation of selected Field Monitoring Kit's equipment as follows:
 - a. Perform radio check on vehicle and/or hand held radio on Channel 5.
 - b. Perform instrument checks on radiological survey instruments to include:
 - (1) Calibration up-to-date.
 - (2) Battery check
 - (3) Response check
 - c. Perform operational check of air sampler as follows:
 - (1) Calibration up-to-date.
 - (2) Install sample head with particulate filter or orifice plate.

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CHECKLIST 1

FIELD MONITORING TEAM CHECKLIST

INITIAL ACTIONS (Cont'd.)

INSTRUMENT AND EQUIPMENT CHECKS (Cont'd.)

CAUTION


Ensure power cables and handles will remain clear of vehicle hood before lowering the hood.

- (3) Connect air sampler cables to the grill mounted quick disconnect battery cable or to vehicle battery and lower the hood if quick disconnect is not installed.
- (4) Start vehicle engine if engine is not already running.
- (5) Start air sampler, ensure flow is greater than 25 LPM.
- d. Check for satisfactory operation of the Stopwatch. (A personal watch with a second hand is acceptable in lieu of a stopwatch)
3. Obtain replacement for any defective equipment.
4. Ensure air sample heads are loaded and bagged for rapid use. The Silver Zeolite cartridge should have the flow arrow pointing toward the air sampler body and the particulate filter should be installed with the rough side out, away from the sampler body.
5. Install one air sample head in sampler and cover the inlet with a bag or glove.
6. Place the following in vehicle for easy access:

NOTE

RO-2 should have beta window closed at all times except when taking an open window reading.

- a. ASP-1 or equivalent and RO-2 or equivalent
- b. Field monitoring survey forms (Data Sheets 2 & 3, begin filling out as time permits)

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CHECKLIST 1

FIELD MONITORING TEAM CHECKLIST

INITIAL ACTIONS (Cont'd.)

INSTRUMENT AND EQUIPMENT CHECKS (Cont'd.)

- c. Clip board
 - d. Log Book
 - e. Data Sheet 1 - survey/sample locations, EPZ and site area maps
7. Place kit in vehicle.

MONITORING and SURVEY ACTIONS

NOTE


The CEDE component of the TEDE dose cannot be directly determined by field measurements, therefore a correction factor of (2) should be applied to convert the DDE to the TEDE dose. This is accomplished by multiplying the Direct Reading Dosimeter reading by 2 to get the TEDE dose. When actual source term data becomes available a more accurate correction factor may be obtained using the offsite dose assessment computer.

- 1. Wear a direct-reading dosimeter and TLD. Record initial readings in Log Book and record remaining allowable dose for each team member. The FMT Communicator should prepare the KI Distribution Checklist (Data Sheet 1) in Procedure 91305-C, "Protective Action Guidelines", prior to team dispatch.
- 2. When dispatched, report departure and carry out the instruction of the Dose Assessment Manager via the FMT Communicator.

NOTE

Use phonetic alphabet and individual numbers as appropriate (e.g., if Team designation is ST17, report as Sierra Tango One Seven).

- 3. Turn on survey instrument(s) (ASP-1 and RO-2) and speaker when so equipped. Make frequent observations of meter readings while in transit to sampling location or while traversing plume. Record these observations on Data Sheet 3 or in the Logbook.

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CHECKLIST 1

FIELD MONITORING TEAM CHECKLIST

MONITORING and SURVEY ACTIONS (Cont'd.)

WARNING


DO NOT EXCEED A READING OF 100 MREM/HR WITHOUT APPROVAL OF THE DOSE ASSESSMENT MANAGER OR HP SUPERVISOR AS APPROPRIATE.

4. Report when entering the plume and the location of the highest in transit dose rate.
5. Take KI, per Dose Assessment Manager directive via the FMT Communicator. Don protective clothing when directed by the Dose Assessment Manager or his designee.
6. Check dosimetry at least every 30 minutes and each time the plume is crossed. Record in Logbook and report readings to the FMT Communicator.
7. If routine communications are not being made on a frequent basis, check in with FMT Communicator every 30 minutes. MAINTAIN RADIO CONTACT.
8. Vehicle speed should not exceed 30 mph while traversing the plume. Flashers should be used while sampling.
9. When approximate plume centerline is detected (i.e., highest reading on any traverse), stop and perform radiation survey as directed by the Field Team Communicator.

NOTE

If open window reading is less than 2.5 mRem/hr use ASP-1 for survey.

- a. Take open and closed window readings at waist and 2-inches.
- b. Record data from log book on Data Sheet 2.
10. Report results to FMT Communicator.

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CHECKLIST 1

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FIELD MONITORING TEAM CHECKLIST

MONITORING and SURVEY ACTIONS (Cont'd.)

NOTE

A representative air sample should be taken near the edge of the plume where dose rates are low. Dose Assessment personnel can estimate activity concentration at the plume centerline by correlating the air activity using the ratio of dose rates between the sample point and the plume centerline


11. If the waist-level open window reading is at least twice the closed window reading, or if directed, obtain an air sample, per instructions on Checklist 3.
12. If directed to obtain a surface deposition sample, see Checklist 4, report acquisition and await further instructions.
13. If directed to obtain a vegetation sample, see Checklist 5, report acquisition and await further instructions.
14. If directed to obtain a water sample, see Checklist 6, report acquisition and await further instructions.

RETURN TO BASE/SHIFT TERMINATION

WARNING

THE VEHICLE AIR CLEANER COULD BE A POTENTIAL SOURCE OF RADIATION DEPENDING ON THE ISOTOPIC MIX OF THE PLUME.

1. On final exit from the plume, or prior to return to base, survey yourself and the vehicle, and document results.
2. If contamination is found, report to FMT Communicator and proceed as directed.
3. Submit all survey and sample records documentation except LOG BOOK to the Dose Assessment Manager (or HP Supervisor if the EOF is not activated). Keep LOG BOOK with you for debriefing.
4. Return sample(s) and radwaste on direction of the Dose Assessment Manager (or HP Supervisor if EOF is not activated).

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CHECKLIST 1

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FIELD MONITORING TEAM CHECKLIST

RETURN TO BASE/SHIFT TERMINATION (Cont'd.)

5. Debrief with Dose Assessment Manager or HP Supervisor, including as a minimum:
 - a. Radiation exposure from dosimeter readings
 - b. Subsequent duty schedule (if return is anticipated, obtain name and phone for verification)
 - c. Unusual circumstances or route conditions
 - d. Final location for emergency field monitoring kit
6. Ensure emergency field monitoring kit supplies are replenished as necessary by notifying the FMT communicator. The FMT communicator will notify Health Physics personnel of the items that need to be restocked.
7. Sign out in LOG BOOK including:
 - a. Debrief time
 - b. Kit discrepancies
 - c. Final radiation exposure of the dosimeter from each team member
 - d. Unusual circumstances or route conditions
8. Return LOG BOOK to emergency field monitoring kit.
9. Place emergency field monitoring kit in location specified by Dose Assessment Manager (or HP Supervisor).

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CHECKLIST 2

Sheet 1 of 2

FIELD MONITORING TEAM INITIAL BRIEFING CHECKLIST

<u>FIELD TEAM 1</u>	KI-AUTH.	DOSIMETRY	RESP. QUAL.	EXP. MARGIN
----------------------------	----------	-----------	-------------	-------------

(Leader) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
----------------	--------------------------	--------------------------	--------------------------	--

_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
-------	--------------------------	--------------------------	--------------------------	--

INITIAL SAMPLE POINT _____	TYPE VEH. _____
----------------------------	-----------------

TEAM BRIEFED _____

<u>FIELD TEAM 2</u>	KI-AUTH.	DOSIMETRY	RESP. QUAL.	EXP. MARGIN
----------------------------	----------	-----------	-------------	-------------

(Leader) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
----------------	--------------------------	--------------------------	--------------------------	--

_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
-------	--------------------------	--------------------------	--------------------------	--

INITIAL SAMPLE POINT _____	TYPE VEH. _____
----------------------------	-----------------

TEAM BRIEFED _____

<u>FIELD TEAM 3</u>	KI-AUTH.	DOSIMETRY	RESP. QUAL.	EXP. MARGIN
----------------------------	----------	-----------	-------------	-------------

(Leader) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
----------------	--------------------------	--------------------------	--------------------------	--

_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
-------	--------------------------	--------------------------	--------------------------	--

INITIAL SAMPLE POINT _____	TYPE VEH. _____
----------------------------	-----------------


TEAM BRIEFED _____

☐ EMERGENCY CLASSIFICATION _____

☐ METEOROLOGICAL CONDITIONS AFFECTED ZONES

WIND SPEED _____ WIND DIRECTION FROM _____ TO _____

☐ PLANT CONDITIONS/ANTICIPATED RADIOLOGICAL CONDITIONS _____

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CHECKLIST 2

Sheet 2 of 2

FIELD MONITORING TEAM INITIAL BRIEFING CHECKLIST


EXPOSURE GUIDANCE/LIMITATIONS

- ☐ Do not exceed a reading of 100 mRem/hr. without the approval of the Dose Assessment Manager or TSC HP Supervisor as appropriate.
- ☐ Do not exceed your exposure margin.
- ☐ Don PC's when directed by the Dose Assessment Manager or his designee.
- ☐ Take KI as directed by Dose Assessment Manager or his designee.
- ☐ Your self-reading dosimeter reading will initially be multiplied by two (2) to account for CEDE until a more accurate correction factor is computed.

COMMUNICATE THE FOLLOWING INFORMATION

- ☐ Notify FMT Communicator when you encounter edge of plume reading (2x BKG) and plume centerline (Highest dose rate encountered when traversing plume). . The plume centerline should follow the wind direction. Representative air samples should be taken near the edge of the plume, where dose rates are low, if waist level Window open (W.O.) readings are 2x's window closed (W.C.) readings.
- ☐ You will be updated of changes in meteorological, radiological, and other pertinent information every 15-30 minutes or as conditions change.
- ☐ Initial sample locations, suggested routes. (See Data Sheet 3 or use logbook to complete traverse path information.)
- ☐ Phone number to call if radios fail. (See VEGP Emergency Telephone Directory in FMT Handbook)
- ☐ If approached by members of the public and/or press, the field monitoring team leader must contact the EOF for appropriate instructions/directions to give those persons.
- ☐ Ensure you log all required information on the appropriate data sheet or in your logbook.

COMMENTS:

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CHECKLIST 3

Sheet 1 of 2

AIR SAMPLING

- EQUIPMENT:**
- 12V DC Air Sampler.
 - Preloaded sample head.
 - Plastic bags.
 - Marking pen.
 - Forceps.
 - Stop watch.
 - Disposable surgeons gloves.
 - Calculator (optional).
 - ASP-1 with HP-260 probe or equivalent.


ACTIONS:

- Obtain Data Sheet 2 and record initial data.

CAUTION

Be careful when connecting air sampler cables to battery terminals. Ensure the vehicle hood does not contact exposed cables or cable handles when the hood is lowered.

- Connect air sampler cables to the grill mounted quick disconnect battery cable or to vehicle battery and lower the hood if quick disconnect is not installed.
- Start vehicle engine if engine is not already running.
- Remove cover from sample head inlet.
- Simultaneously start sampler and timing device.
- Record start time and start flow rate. Ensure rotometer flow is greater than 25 LPM.
- Remain in vehicle during sampling to minimize exposure.
- Obtain sample number from FMT Communicator and record on Data Sheet 2.
- Label two plastic bags with the sample number.
- Run sample for 10 minutes unless otherwise specified by the FMT Communicator.

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CHECKLIST 3

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AIR SAMPLING


ACTIONS: (CONT'D)

11. When sampling is complete, turn off sampler, record stop flow rate on Data Sheet 2 and cover sample head with a plastic bag or glove.
12. Disconnect air sampler from vehicle battery.
13. Proceed out of the plume to a low background area of less than or equal to 300 cpm to count the samples.
14. Purge silver zeolite (AgX) or charcoal cartridges by running sample for about 15 seconds.
15. Put on disposable surgeons gloves.
16. Remove head from sampler, separate particulate filter and cartridge.
17. Count the filter and cartridge and record data (net cpm) on Data Sheet 2.

NOTE

Cartridge and particulate filter should remain in the plastic bags until delivered to a lab or EOF.

18. Place the separated particulate filter and cartridge in separate bags.
19. Report sample data to FMT Communicator.

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CHECKLIST 4

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SURFACE SAMPLING


- EQUIPMENT:**
- a. Soil Scoop
 - b. Large polybag
 - c. Marking pen
 - d. Tape
 - e. Tape measure (optional)
 - f. Paper towel or wipe
 - g. Disposable surgeons gloves
 - h. ASP-1 with HP-260 probe or equivalent

NOTE

Potentially contaminated ice and snow samples should be collected similar to surface samples and analyzed similar to water samples except the ice and/or snow may have to be broken up in order to fill the bag.

ACTIONS

1. Monitor radiation levels at all times. Avoid spreading contamination by using disposable surgeons gloves as a minimum.
2. Locate an area of exposed soil with minimal or no overhead cover (should not be dirt road).
3. Obtain sample number from FMT Communicator and label the bag with the sample number.
4. Using the trowel, dig soil to a depth of approximately 1/4 inch, and place the soil and whatever lies on the soil into the plastic bag. This sample should represent an area of approximately 10 square feet.
5. Twist the unused portion of the bag to the top and double the top over before taping.
6. Tape the bag such that opening is not exposed.
7. Frisk bag (in low background area, if practical) and label with RADIOACTIVE MATERIAL sticker if net cpm exceeds 100.
8. Record sample data on Data Sheet 2.
9. Record sample number, location, date and time of sample in the LOG BOOK.

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CHECKLIST 5


Sheet 1 of 1

VEGETATION SAMPLING

- EQUIPMENT:**
- a. Razor knife, scissors or grass clippers
 - b. Large polybag
 - c. Marking pen
 - d. Tape
 - e. Tape measure (optional)
 - f. Paper towel or wipe
 - g. Disposable surgeons gloves
 - h. ASP-1 with HP-260 probe or equivalent

ACTIONS:

1. Monitor radiation levels at all times. Avoid spreading contamination by using disposable surgeons gloves as a minimum.
2. Locate an area of exposed growing grasses with minimal or no overhead cover.
3. Obtain sample number from FMT Communicator and label the bag toward the bottom with the sample number.
4. Cut the grass from a 10 ft² area about (2 ft x 5 ft) and place in bag. Cut sufficient grass to fill the bag approximately $\frac{1}{2}$ full. Grass should be cut to about $\frac{1}{2}$ to 1 inch from the ground.
5. Twist the unused portion of the bag to the top and double the top over before taping.
6. Tape the bag such that opening is not exposed.
7. Frisk bag (in low background area, if practical) and label with RADIOACTIVE MATERIAL sticker if net cpm exceeds 100.
8. Record sample data on Data Sheet 2.
9. Record sample number, location, date and time of sample in the LOG BOOK.

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CHECKLIST 6

Sheet 1 of 1

WATER SAMPLING

- EQUIPMENT:**
- a. Poly bottle (approximately 1 liter)
 - b. Marking pen
 - c. Paper towel or wipe
 - d. Disposable surgeons gloves.
 - e. ASP-1 with HP-260 probe or equivalent

ACTIONS:

1. Monitor radiation levels at all times. Avoid spreading contamination by using disposable surgeons gloves as a minimum.
2. Locate an area of non-flowing water with minimal or no overhead cover. If water is flowing, seek clarification from FMT Communicator.
3. Obtain sample number from FMT Communicator and label bottle with the sample number.
4. Fill bottle slowly with surface water by partial submersion of the bottle.
5. Wipe bottle and place in bag.
6. Frisk bag (in low background area, if practical) and label with RADIOACTIVE MATERIAL sticker if net cpm exceeds 100.
7. Record sample data on Data Sheet 2.
8. Record sample number, location, date and time of sample in LOG BOOK.