

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

February 1, 2002

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Serial No. 02-056
NAPS/MPW
Docket Nos. 50-338
50-339
License Nos. NPF-4
NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNITS 1 AND 2
REVISION TO EMERGENCY PLAN IMPLEMENTING PROCEDURE

Pursuant to 10 CFR 50.54(q), enclosed are recent revisions to a North Anna Power Station Emergency Plan Implementing Procedures. The revisions do not implement actions that decrease the effectiveness of our Emergency Plan. The Emergency Plan and Implementing Procedures continue to meet the standards of 10 CFR 50.47(b).

Please update your manual by performing the actions described in Attachment 1, Tabulation of Changes.

Very truly yours,



D. A. Heacock
Site Vice President

Commitments Stated or Implied: None.

Enclosures

cc: U.S. Nuclear Regulatory Commission (2 copies)
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Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, GA 30303

Mr. M. J. Morgan
NRC Senior Resident Inspector
North Anna Power Station

17045

**ATTACHMENT 1
TABULATION OF CHANGES**

**VIRGINIA ELECTRIC AND POWER COMPANY
REVISION TO NORTH ANNA POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURES**

Enclosed is a recent revision to a North Anna Power Station Emergency Plan Implementing Procedure (EPIP). Please take the following actions in order to keep your manual updated.

REMOVE AND DESTROY	DATED	INSERT	EFFECTIVE DATE
EPIP-4.24, Rev. 10	07/22/99	EPIP-4.24, Rev. 11	01/28/02

Emergency Plan Privacy and Proprietary Material has been removed. Reference Generic Letter No. 81-27.

NORTH ANNA POWER STATION
LIST OF NAPS EMERGENCY PLAN IMPLEMENTATION PROCEDURES
CHECK DMIS FOR LATEST DOCUMENT INFORMATION

DOCUMENT NUMBER	REV	APPROVAL **DATE**	EFFECT** **DATE**	DOCUMENT TITLE
EPIP-1.01	034	07/26/01	09/13/01	EMERGENCY MANAGER CONTROLLING PROCEDURE
EPIP-1.02	011	09/07/99	10/01/99	RESPONSE TO NOTIFICATION OF UNUSUAL EVENT
EPIP-1.03	014	09/07/99	10/01/99	RESPONSE TO ALERT
EPIP-1.04	014	09/07/99	10/01/99	RESPONSE TO SITE AREA EMERGENCY
EPIP-1.05	016	09/07/99	10/01/99	RESPONSE TO GENERAL EMERGENCY
EPIP-1.06	004	09/05/01	09/05/01	PROTECTIVE ACTION RECOMMENDATIONS
EPIP-2.01	024	09/24/01	09/26/01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS
EPIP-2.02	014	01/04/99	01/29/99	NOTIFICATION OF NRC
EPIP-2.04	003	08/07/92	08/07/92	TRANSMITTAL OF PLANT, RADIOLOGICAL AND EMERGENCY STATUS
EPIP-3.02	018	12/17/97	01/07/98	ACTIVATION OF TECHNICAL SUPPORT CENTER
EPIP-3.03	012	12/20/93	01/01/94	ACTIVATION OF OPERATIONAL SUPPORT CENTER
EPIP-3.04	015	07/14/98	07/20/98	ACTIVATION OF LOCAL EMERGENCY OPERATIONS FACILITY
EPIP-3.05	001	09/07/99	10/01/99	AUGMENTATION OF EMERGENCY RESPONSE ORGANIZATION
EPIP-4.01	017	10/09/01	10/17/01	RADIOLOGICAL ASSESSMENT DIRECTOR CONTROLLING PROCEDURE
EPIP-4.02	012	07/25/00	08/02/00	RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE
EPIP-4.03	011	12/20/93	01/01/94	DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE
EPIP-4.04	009	11/21/94	11/28/94	EMERGENCY PERSONNEL RADIATION EXPOSURE
EPIP-4.05	009	01/28/00	02/04/00	RESPIRATORY PROTECTION AND KI ASSESSMENT
EPIP-4.06	009	12/21/95	12/28/95	PERSONNEL MONITORING AND DECONTAMINATION
EPIP-4.07	014	09/29/00	10/06/00	PROTECTIVE MEASURES
EPIP-4.08	013	07/26/01	09/13/01	INITIAL OFFSITE RELEASE ASSESSMENT
EPIP-4.09	012	07/26/01	09/13/01	SOURCE TERM ASSESSMENT
EPIP-4.10	010	04/23/98	04/28/98	DETERMINATION OF X/Q

NORTH ANNA POWER STATION
LIST OF NAPS EMERGENCY PLAN IMPLEMENTATION PROCEDURES
CHECK DMIS FOR LATEST DOCUMENT INFORMATION

DOCUMENT NUMBER	REV	APPROVAL **DATE**	EFFECT** **DATE**	DOCUMENT TITLE
EPIP-4.13	009	09/29/00	10/06/00	OFFSITE RELEASE ASSESSMENT WITH ENVIRONMENTAL DATA
EPIP-4.14	007	12/20/93	01/01/94	INPLANT MONITORING
EPIP-4.15	011	02/18/00	02/28/00	ONSITE MONITORING
EPIP-4.16	014	02/18/00	02/28/00	OFFSITE MONITORING
EPIP-4.17	014	08/12/98	08/14/98	MONITORING OF EMERGENCY RESPONSE FACILITIES
EPIP-4.18	011	08/12/98	08/14/98	MONITORING OF LEOF
EPIP-4.21	008	12/20/93	01/01/94	EVACUATION AND REMOTE ASSEMBLY AREA MONITORING
EPIP-4.22	013	04/02/93	04/02/93	POST ACCIDENT SAMPLING OF CONTAINMENT AIR
EPIP-4.23	013	03/13/96	03/18/96	POST ACCIDENT SAMPLING OF REACTOR COOLANT
EPIP-4.24	011	01/25/02	01/28/02	GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY
EPIP-4.25	008	07/23/93	07/23/93	LIQUID EFFLUENT SAMPLING DURING AN EMERGENCY
EPIP-4.26	011	07/26/01	09/13/01	HIGH LEVEL ACTIVITY SAMPLE ANALYSIS
EPIP-4.28	007	01/09/97	01/14/97	TSC/LEOF RADIATION MONITORING SYSTEM
EPIP-4.30	004	01/04/99	01/08/99	USE OF MIDAS CLASS A MODEL
EPIP-4.31	003	06/20/94	06/20/94	USE OF MIDAS CLASS B MODEL
EPIP-4.33	003	11/28/00	11/30/00	HEALTH PHYSICS NETWORK COMMUNICATIONS
EPIP-4.34	002	02/18/00	02/28/00	FIELD TEAM RADIO OPERATOR INSTRUCTIONS
EPIP-5.01	011	12/11/96	12/17/96	TRANSPORTATION OF CONTAMINATED INJURED PERSONNEL
EPIP-5.03	016	02/18/00	02/28/00	PERSONNEL ACCOUNTABILITY
EPIP-5.04	008	07/20/99	07/22/99	ACCESS CONTROL
EPIP-5.05	013	06/25/96	07/02/96	SITE EVACUATION
EPIP-5.07	011	07/25/00	08/02/00	ADMINISTRATION OF RADIOPROTECTIVE DRUGS
EPIP-5.08	007	11/28/00	11/30/00	DAMAGE CONTROL GUIDELINE

NORTH ANNA POWER STATION
LIST OF NAPS EMERGENCY PLAN IMPLEMENTATION PROCEDURES
CHECK DMIS FOR LATEST DOCUMENT INFORMATION

DOCUMENT NUMBER	REV	APPROVAL **DATE**	EFFECT** **DATE**	DOCUMENT TITLE
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EPIP-5.09	003	03/26/99	03/31/99	SECURITY TEAM LEADER CONTROLLING PROCEDURE
EPIP-6.01	007	05/12/99	05/17/99	RE-ENTRY/RECOVERY GUIDELINE

VIRGINIA POWER
NORTH ANNA POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER EPIP-4.24	PROCEDURE TITLE GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY (With 4 Attachments)	REVISION 11
		PAGE 1 of 13

PURPOSE

Provide guidance to personnel responsible for sampling high level radioactive gaseous effluents.

LEVEL 2 DISTRIBUTION
This Document Should Be Verified
And Annotated To A Controlled Source
As Required to Perform Work

ENTRY CONDITIONS

Any one of the following:

1. Direction by the Radiation Protection Supervisor.
2. Direction by Dose Assessment Team Leader.
3. Direction by the Radiation Assessment Director.
4. Activation by another EPIP.

Approvals on File

Effective Date 1/28/2002

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.24	GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	11
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
____ 1	INITIATE PROCEDURE: • By: _____ Date: _____ Time: _____	
____ 2	ASSEMBLE SAMPLING TEAM (Consider expertise and exposure when designating team members)	
____ 3	CONSIDER USE OF SHIELDING FOR SAMPLE TRANSPORT	
____ 4	CHECK IF EMERGENCY RADIATION EXPOSURE - REQUIRED	<u>IF</u> emergency radiation exposure <u>NOT</u> needed, <u>THEN</u> GO TO Step 6.
____ 5	ASK RAD TO INITIATE EPIP-4.04, EMERGENCY PERSONNEL RADIATION EXPOSURE	

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.24	GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	11
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
	<p>*****</p> <p>CAUTION: During implementation of Design Change 99-006, Ventilation Radiation Monitoring System Replacement, the user needs to identify whether Kaman or MGPI monitor is being used (for GW-178, VG-179 and VG-180).</p> <p>*****</p> <p>NOTE: MGPI Normal Range Noble Gas monitors: 178-1, 179-1 and 180-1. MGPI High Range Noble Gas monitors: 178-2, 179-2 and 180-2.</p>	
6	<p>BRIEF SAMPLE TEAM:</p> <ul style="list-style-type: none"> • Sampling location and monitor manufacturer • Sampling procedures • Sample type (e.g., Noble gas, Tritium, Iodine/Particulate) • Dose rates in sample location • Emergency dose authorization (if appropriate) • RWP requirements: <ul style="list-style-type: none"> • High and low range dosimetry or use of DADs • Wrist, head, and ankle TLDs • Protective clothing • Respiratory protection • "Buddy System" criteria • Ingress and egress routes considering: <ul style="list-style-type: none"> • Lowest dose fields • Hazards (i.e., high pressure steam, structural damage) 	

NUMBER EPIP-4.24	PROCEDURE TITLE GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	REVISION 11 PAGE 4 of 13
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STEP
ACTION/EXPECTED RESPONSE
RESPONSE NOT OBTAINED

____ 7 REVIEW SAMPLE LOCATIONS:

MONITOR	PRIMARY	BACKUP
Process Vent	274' Aux. Bldg. near charcoal filter banks	307' Service Bldg. MGPI monitors
Vent Vents A and B	Aux. Bldg. roof near elevator shaft	310' Turbine Bldg. Kaman High Range Vent and MGPI monitors behind elevator shaft
Unit 1 Air Ejector	303' Turbine Bldg. near Powdex Resin Control Panel	None
Unit 2 Air Ejector	279' Turbine Bldg. at the Condenser Air Ejectors	None

____ 8 GET SAMPLE EQUIPMENT:

- Poly bag labelled with:
 - System to be sampled
 - Date
 - Time
 - Volume
- 100 cc gas bomb
- Silver zeolite cartridge and particulate patch
- Silver zeolite sample holder
- Tritium bubbler with 20 mls demineralized water
- Tygon tubing and flow meter
- Maps and sampling procedures
- Portable monitoring equipment
- 4 ft tongs and 3 ft extension lever from Count Room (for Kaman samples only)
- MGPI grip tongs (for MGPI samples only)

NUMBER EPIP-4.24	PROCEDURE TITLE GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	REVISION 11 PAGE 5 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
	<p>NOTE: A portable transfer housing for Kaman samples, located at the High Range Calibration facility, will be used for personnel protection during the transfer of the filters as appropriate to maintain occupational ALARA. A separate shield cart is available for MGPI samples.</p>	
<p>_____ 9</p>	<p>EVALUATE METHODS AND MATERIALS FOR TRANSPORTATION OF HIGH ACTIVITY SAMPLES</p>	
<p>_____ 10</p>	<p>NOTIFY RPS THAT TEAM IS BEING DISPATCHED</p>	
<p>_____ 11</p>	<p>GO TO SAMPLE LOCATION:</p>	
	<p>a) Use pre-planned route</p>	
	<p>b) Verify dose rates within expected levels during transit</p>	<p>b) <u>IF</u> unexpected radiological conditions are encountered along the route, <u>THEN</u> do the following:</p>
		<p>1) Use route of lowest dose field.</p>
		<p>2) Notify RPS of radiological conditions.</p>
	<p>c) Maintain ALARA</p>	

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.24	GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	11
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
_____ 12	<p>GET IODINE/PARTICULATE SAMPLE:</p> <p>a) Maintain continuous exposure surveillance</p> <p>b) Check if normal gaseous effluent sampling systems to be used</p> <p>c) Remove iodine/particulate sample assembly</p> <p>d) Determine sample volume on first iodine/particulate sample (assume sample started at beginning of accidental release)</p> <p>e) GO TO Step 17</p>	<p>b) <u>IF</u> using Kaman Science System, <u>THEN</u> GO TO Step 13.</p> <p><u>IF</u> using MGPI, <u>THEN</u> do the following:</p> <p>1) Use Attachment 4, High-Range Sampling Using MGPI, to take sample.</p> <p>2) GO TO Step 17.</p> <p><u>NOTE:</u></p> <ul style="list-style-type: none"> • The following steps are applicable to the Process Vent and Vent Vents. • Kaman high range monitors contain three shielded Iodine/Particulate sample containers (see Attachment 1). Normal sample collection begins with sample container #1.
_____ 13	<p>IDENTIFY SAMPLE CONTAINER THAT HAS COMPLETED COLLECTION (RED LIGHT ON)</p>	<p><u>IF</u> collection <u>NOT</u> completed, <u>THEN</u> GO TO Step 15.</p>
_____ 14	<p>GO TO STEP 16</p>	

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.24	GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	11
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p>NOTE: Sample collection time may take up to 15 minutes following completion of Step 15.c.</p>		
15	TAKE ACTIONS FOR INCOMPLETE SAMPLE COLLECTION:	
	a) Get Kaman display panel key from HP Shift Supervisor <u>AND</u> go to the Control Room	a) <u>IF</u> Kaman display panel key <u>NOT</u> available from HP Shift Supervisor, <u>THEN</u> get key from Control Room Shift Supervisor.
	b) Insert key into Kaman display panel at Control Room (see Attachment 3)	
	c) Turn switch to "ENABLE"	
	d) Press the following keys to switch from one container to another:	
	1) "FTN"	
	2) Select container:	
	• "3" for container #1	
	<u>OR</u>	
	• "4" for container #2	
	<u>OR</u>	
	• "5" for container #3	
	3) "04"	
	4) "ENT"	
	e) Verify sample collection light at local skid - ON	e) <u>IF</u> sample collection light at local skid - OFF, <u>THEN</u> do the following:
		1) Wait in low dose area for 15 minute collection time to elapse
		2) <u>IF</u> light <u>NOT</u> on after 15 minute collection time, <u>THEN</u> RETURN TO Step 15.b.

NUMBER EPIP-4.24	PROCEDURE TITLE GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	REVISION 11 PAGE 8 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
16	<p>REMOVE SAMPLE:</p> <ul style="list-style-type: none"> a) Open shield door on sample container (see Attachment 2) b) Slide extension lever over short metal rod located below collector assembly c) Unlock Iodine/Particulate collector assembly with 3 ft extension lever by turning lever to the right d) Remove collector assembly with 4 ft long pair of tongs e) Place sample in designated container: <ul style="list-style-type: none"> • Labelled poly bag <p style="text-align: center;"><u>OR</u></p> <ul style="list-style-type: none"> • Portable transfer housing f) Insert new silver zeolite and particulate filter g) Lock collector assembly in place by turning short metal rod to the left with the extension lever h) Close shield door 	<p>g) IF unable to remove sample, <u>THEN</u> REPEAT Steps 15.b through 16.d.</p>

NUMBER EPIP-4.24	PROCEDURE TITLE GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	REVISION 11 PAGE 9 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
17	<p>GET NOBLE GAS SAMPLE (IF REQUIRED):</p> <ul style="list-style-type: none"> a) Assure charcoal cartridge (located in assembly upstream of noble gas chamber) is removed b) Assure particulate patch is in place c) Attach 100 cc sample chamber to the two sample valves at grab sample skid with flexible hose d) Establish flow through gas chamber: <ul style="list-style-type: none"> 1) Open both sample valves 2) Open petcocks on gas chamber 3) Slowly close bypass valve 4) Maintain flow to purge chamber e) Isolate gas chamber: <ul style="list-style-type: none"> 1) Open bypass valve 2) Close sample valves and petcocks f) Remove gas chamber 	<p><u>IF</u> noble gas sample <u>NOT</u> required, <u>THEN</u> do the following:</p> <ul style="list-style-type: none"> 1) Assure iodine/particulate sample assembly is installed with a silver zeolite cartridge and particulate patch in place. 2) GO TO Step 18.

NUMBER EPIP-4.24	PROCEDURE TITLE GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	REVISION 11 PAGE 10 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p>*****</p> <p>CAUTION: Make sure to open the flowmeter side (supply) before opening the bubbler (discharge). Opening the discharge first may cause air pressure to push water from the bubbler into the flowmeter.</p> <p>*****</p>		
18	<p>GET TRITIUM SAMPLE (IF REQUIRED):</p> <p>a) Assure both particulate patch and charcoal filter are in place</p> <p>b) Attach tritium sampler:</p> <ol style="list-style-type: none"> 1) Facing sample station, connect flowmeter hose to supply valve 2) Open flowmeter needle valve 3 turns 3) Connect bubble hose/bubbler assembly to discharge valve <p>c) Establish flow through tritium sampler:</p> <ol style="list-style-type: none"> 1) Open both sample valves at about the same time 2) Slowly close bypass valve to establish a flowrate of about 2 lpm 3) Adjust ratemeter, as necessary, to obtain 2 lpm 4) Allow flow for about 5 minutes: <ul style="list-style-type: none"> • Collect at least 500 mls (to meet LLD) • Note actual sample duration <p>d) Isolate tritium sampler:</p> <ul style="list-style-type: none"> • Open bypass valve • Close both sample valves at about the same time <p>e) Remove tritium sampler apparatus</p>	<p>GO TO Step 19.</p>

NUMBER EPIP-4.24	PROCEDURE TITLE GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	REVISION 11 PAGE 11 of 13
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
_____ 19	CHECK SAMPLE READS GREATER THAN OR EQUAL TO 10 mR/hr	<p><u>IF</u> sample reads LESS THAN 10 mR/hr, <u>THEN</u> do the following:</p> <p>a) Prepare sample for Count Room.</p> <p>b) GO TO Step 21.</p>
_____ 20	PREPARE SAMPLE FOR HOT LAB	
_____ 21	<p>DELIVER SAMPLE:</p> <p>a) Place sample in clean poly bag</p> <p>b) Quickly leave area by preplanned route</p> <p>c) Record the following on sample:</p> <ul style="list-style-type: none"> • Date • Time • Sample type • Volume (if normal gaseous effluent system used) <p>d) Deposit sample in Count Room or Hot Lab IAW Step 19</p> <p>e) Check sample taken using either of the following:</p> <ul style="list-style-type: none"> • Normal gaseous effluent sampling systems • MGPI <p>f) GO TO Step 28</p>	<p>e) <u>IF</u> using Kaman Science System, <u>THEN</u> GO TO Step 22.</p>

NUMBER EPIP-4.24	PROCEDURE TITLE GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	REVISION 11 PAGE 12 of 13
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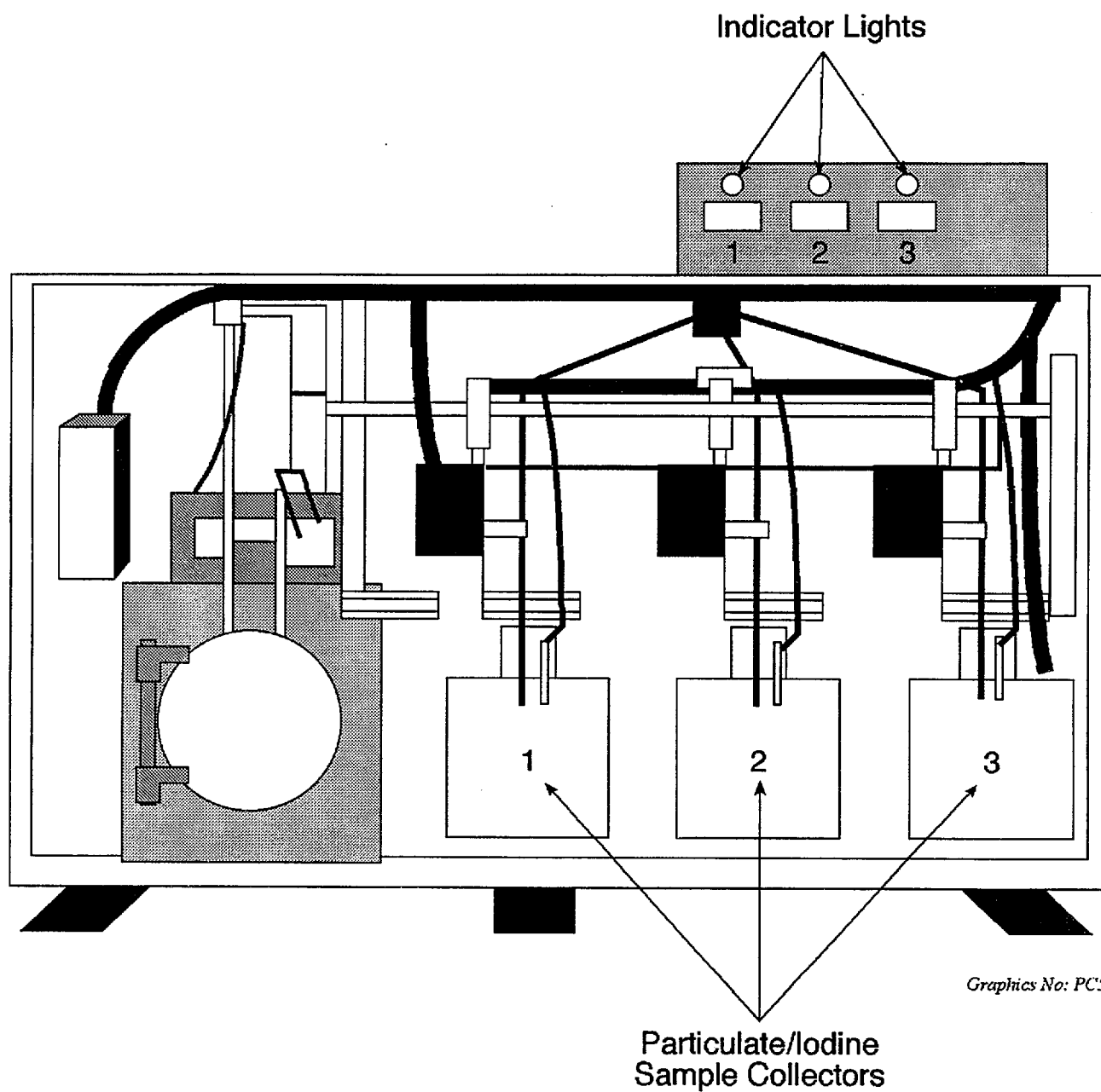
STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
	<p>NOTE: Sample volume is in liters.</p>	
22	<p>GET KAMAN SAMPLE VOLUME:</p> <ol style="list-style-type: none"> Go to the Kaman control panel in the Control Room Get sample volume by pressing the following keystrokes: <ol style="list-style-type: none"> "DSP" Select container: <ul style="list-style-type: none"> "3" for container #1 <u>OR</u> "4" for container #2 <u>OR</u> "5" for container #3 "37" "ENT" Clear sample volume by pressing the following keystrokes: <ol style="list-style-type: none"> "STP" Select container: <ul style="list-style-type: none"> "3" for container #1 <u>OR</u> "4" for container #2 <u>OR</u> "5" for container #3 "ENT" 	
23	<p>NOTIFY COUNT ROOM OR HOT LAB OF SAMPLE VOLUME</p>	

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.24	GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY	11
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
_____ 24	CHECK IF ADDITIONAL KAMAN SAMPLE COLLECTIONS - REQUIRED	GO TO Step 26.
_____ 25	RETURN TO STEP 15.b	
_____ 26	TURN KEY TO THE DISABLE POSITION	
_____ 27	REMOVE KEY AND GIVE IT TO THE HP OR CONTROL ROOM SHIFT SUPERVISOR	
_____ 28	NOTIFY RPS SAMPLING COMPLETE	
_____ 29	TERMINATE EPIP-4.24: a) Give completed EPIP-4.24, forms and other applicable records to the RPS b) Completed by: _____ Date: _____ Time: _____	

-END-

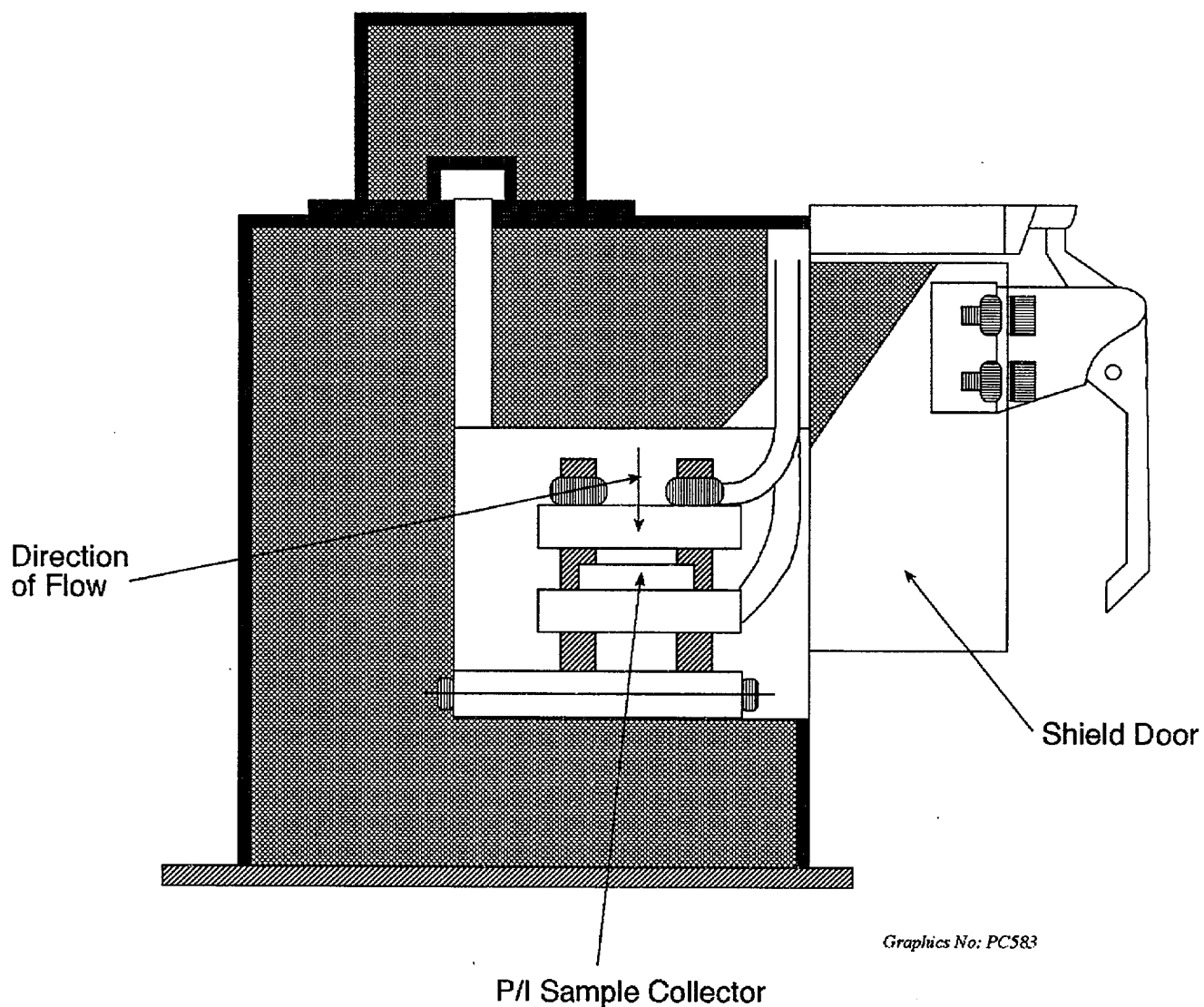
NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.24	KAMAN HIGH RANGE MONITOR	11
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Graphics No: PC582

KAMAN HIGH RANGE MONITOR

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.24	KAMAN PARTICULATE/IODINE SAMPLE COLLECTOR	11
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KAMAN PARTICULATE/IODINE SAMPLE COLLECTOR

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.24	KAMAN DISPLAY PANEL	11
ATTACHMENT	(KERIC)	PAGE
3		1 of 1

⊕ -

(Enable) (Disable)

Local 

Remote

High
Ack

Alert
Ack

Rate
Ack

Test
Lt Ck

Power
Comm

Proc
Func

Alarm
Disab

Equip
Fail

1 1 23

FUNCT
CHAN
PARAMETER

8.76 E 05

VALUE

DSP	SET	ACS	PRG
PMP	ENA	FTN	EXP
TST	STP	CHS	ENT

6	7	8	9
2	3	4	5
1	0	•	CLR

Graphics No. CB1591G

KAMAN DISPLAY PANEL
(KERIC)

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.24	HIGH-RANGE SAMPLING USING MGPI	11
ATTACHMENT		PAGE
4		1 of 5

NOTE: Ball valves V-11 and V-12 are used to turn on or shut off "accident sampling flow through the first shielded Particulate/Iodine Sampler (PIS#1). V-13 and V-14 are used for the second shielded Particulate/Iodine Sampler (PIS#2).

I. PREPARE FOR SAMPLING

- 1. Verify shielded Particulate/Iodine (P/I) sample is loaded in PIS#1 or PIS#2.
IF P/I sample NOT loaded, THEN do the following:
 - a. Verify which PIS to be loaded.
 - b. Prepare a new P/I holder.
 - c. Line up PIS#1 (PIS#2) by opening V-13 (V-11) and V-14 (V-12).
 - d. Close V-11 (V-13) and V-12 (V-14).
 - e. Open the PIS door.
- 2. Insert the new holder into the PIS and close the door.
- 3. Notify Control Room of sampling for any alarms.

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.24	HIGH-RANGE SAMPLING USING MGPI	11
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CAUTION: Although analog outputs will be frozen at last value, digital ports and log commands remain operational while in Program Mode.

NOTE:

- Flow rate through the PIS is totalized by FIT-2 (the flow transmitter for the accident sampling flow path) and by the Local Processing Unit (LPU). Both totalizers must be reset when switching or replacing PIS samples. Only the Local Display Unit (LDU) totalizer resets when the vent monitor switches from NORMAL mode to ACCIDENT mode and places the shielded PIS in service.

- The keypad sequence to escape is CC.
- The keypad sequence for HELP is HH.
- The display will continue to scroll options while in normal operation.

II. RESET THE FIT-2 TOTALIZER (USING THE MASS FLOW TRANSMITTER KEYPAD)

1. Turn (unscrew) cover to access keypad.
2. Press P key on Mass Flow Transmitter keypad.

The following message screens will appear for about 3 seconds each:

! WARNING ! NO
OUTPUT UPDATES

WHILE IN
PROGRAM MODE

(SECTION II CONTINUED ON NEXT PAGE)

NUMBER EPIP-4.24	ATTACHMENT TITLE HIGH-RANGE SAMPLING USING MGPI	REVISION 11
ATTACHMENT 4		PAGE 3 of 5

II. RESET THE FIT-2 TOTALIZER (USING THE MASS FLOW TRANSMITTER KEYPAD)
[continued]

- 3. WHEN the "ENTER ACCESS CODE" message screen appears,

ENTER ACCESS
CODE:

THEN enter the user access code followed by the E key (ENTER).

ENTER ACCESS
CODE: 123456

(Press E key.)

The following messages will alternate on the display screen:

PRESS E TO SET
SYSTEM OF UNITS

PRESS P TO SEE
NEXT CHOICE OR

- 4. Press the P key (NEXT).

The following messages will alternate on the display screen:

PRESS E TO
RESET TOTALIZER

PRESS P TO SEE
NEXT CHOICE OR

- 5. Press the E key (ENTER) to reset the totalizer.

The following message will appear:

ARE YOU SURE?
/\=YES \/=NO : NO

- 6. Press the /\ (Up Arrow) (YES) key.

The following message will appear:

ARE YOU SURE?
/\=YES \/=NO : YES

- 7. Press the E key (ENTER) to complete totalizer reset.

- 8. Press C key twice (CC) (ESCAPE) to close.

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III. RESET THE FIT-2 TOTALIZER DISPLAY ON THE LOCAL DISPLAY UNIT

- 1. Record the FIT-2 totalizer reading from the LDU
(D PISTotal 3 RT-3-P).
- 2. Reset the FIT-2 totalizer display on the LDU.
 - a. Press Sel key on LDU keypad repeatedly until COMMAND screen is displayed.
 - b. Press up or down key on LDU keypad repeatedly until R/FIT-2 is hi lighted.
 - c. Press Sel key on LDU keypad repeatedly until field to right of the command changes to "1".
 - d. Press up or down key on LDU keypad repeatedly until cursor is at first (next) digit in 4-digit password field. Password is 0000 (four zeroes).
 - e. Press Sel key on LDU keypad repeatedly until digit changes to first digit of the password.
 - f. Repeat steps d and e until all four digits of password entered.
 - g. Press up or down arrow repeatedly until Confirm is hi lighted.
 - h. Press Sel key on LDU keypad to confirm the command.

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NOTE: For PIS#1 to be in service, V-11 and V-12 are open, and V-13 and V-14 are closed. For PIS#2 to be service V-13 and V-14 are open, and V-11 and V-12 are closed.

IV. REMOVE SAMPLE AND DELIVER TO COUNT ROOM

- ___ 1. Verify which PIS to be changed.
- ___ 2. Prepare a new P/I holder to replace the one to be removed.
- ___ 3. Change out PIS#1 (PIS#2) by opening V-13 (V-11) and V-14 (V-12).
- ___ 4. Close V-11 (V-13) and V-12 (V-14).
- ___ 5. Use grip tong to open PIS door and grab P/I holder.
- ___ 6. Place P/I holder inside shielded cart and close cart door.
- ___ 7. Insert new holder into PIS and close PIS door.
- ___ 8. Deliver sample to Count Room.

NOTE: Part V, Install New Particulate/Iodine Holder, below is applicable when there is no P/I sampler installed.

V. INSTALL NEW PARTICULATE/IODINE HOLDER

- ___ 1. Verify which PIS to be loaded.
- ___ 2. Prepare a new P/I holder.
- ___ 3. Line up PIS#1 (PIS#2) by opening V-13 (V-11) and V-14 (V-12).
- ___ 4. Close V-11 (V-13) and V-12 (V-14).
- ___ 5. Open the PIS door.
- ___ 6. Insert the new holder into the PIS and close the door.