

REVISIONS TO  
SURRY POWER STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURES

Enclosed are recently revised pages to the Surry Power Station Emergency Plan Implementing Procedures. Please take the following actions in order to keep our manual period updated with the most recent revisions.

<u>EPIP 1.01</u>	<u>Emergency Manager Controlling Procedure</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1, 4, and 5 of 8	Pages 1, 4, and 5 of 8
<u>EPIP 2.03</u>	<u>Reports to Offsite Agencies</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1, 7, and 8 of 8	Pages 1, 7, and 8 of 8
<u>EPIP 3.01</u>	<u>Callout of Emergency Response Personnel</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Page 1 of 3, and Attachment 1, pages 1, 2, and 3 of 6	Page 1 of 3, and Attachment 1, pages 1, 2, and 3 of 6
<u>EPIP 3.02</u>	<u>Activation of Technical Support Center</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Page 1 of 8, and Attachment 3, page 1 of 3	Page 1 of 8, and Attachment 3, page 1 of 3
<u>EPIP 4.02</u>	<u>Radiation Protection Supervisor Controlling Procedure</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1, 8, and 10 of 16	Pages 1, 8, and 10 of 16
<u>EPIP 4.12</u>	<u>Offsite Environmental Monitoring Instructions</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1, 6, and 7 of 7	Pages 1, 6, and 7 of 7

<u>EPIP 4.15</u>	<u>Onsite Monitoring</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1, 3, 4, 5, 7, and 8 of 9, and Attachment 2, page 1 of 1	Pages 1, 3, 4, 5, 7, and 8 of 9, and Attachment 2, page 1 of 1, and Attachment 3 page 1 of 1
<u>EPIP 4.16</u>	<u>Offsite Monitoring</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1, 2, 3, 4, 7, 8, and 9 of 11	Pages 1, 2, 3, 4, 7, 8, and 9 of 11, and Attachment 4, page 1 of 1
<u>EPIP 4.18</u>	<u>Monitoring of EOF</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1, 4, 5, 6, 7, and 8 of 8	Pages 1, 4, 5, 6, 7, and 8 of 8, and Attachment 3, page 1 of 1, and Attachment 4 page 1 of 1
<u>EIPP 4.19</u>	<u>Use of Radios for Health Physics Monitoring</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1 and 2 of 5	Pages 1 and 2 of 5
<u>EPIP 4.20</u>	<u>Health Physics Actions for Transport of Contaminated Injured Personnel</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1, 6, and 7 of 7	Pages 1, 6, and 7 of 7
<u>EPIP 4.21</u>	<u>Evacuation and Remote Assembly Area Monitoring</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1 and 4 of 9	Pages 1 and 4 of 9
<u>EPIP 4.22</u>	<u>Post Accident Sampling of Containment Air</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1 and 10 of 10	Pages 1 and 10 of 10

<u>EPIP 4.23</u>	<u>Post Accident Sampling of Reactor Coolant</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1, 13, and 14 of 14	Pages 1, 13, 14 of 14
<u>EPIP 5.03</u>	<u>Personnel Accountability</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1, 2, and 6 of 7	Pages 1, 2, and 6 of 7
<u>EPIP 5.05</u>	<u>Site Evacuation</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1 and 3 of 5	Pages 1 and 3 of 5
<u>EPIP 5.07</u>	<u>Administration of Radioprotective Drugs</u>	
	<u>Remove and Destroy</u>	<u>Enter</u>
	Pages 1 and 2 of 4	Pages 1 and 2 of 4

VIRGINIA ELECTRIC AND POWER COMPANY  
 SURRY POWER STATION  
 EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-1.01	EMERGENCY MANAGER CONTROLLING PROCEDURE  (With 1 Attachment)	03 PAGE 1 of 8

**PURPOSE**

To initially assess a potential emergency condition and initiate corrective actions.

**USER**

Shift Supervisor or Station Emergency Manager

**ENTRY CONDITIONS**

Any one of the following :

1. Another station procedure directs initiation of this procedure

OR

2. A potential emergency condition is reported to the Shift Supervisor.

**REVISION RECORD**

REV. 00	PAGE(S): ENTIRE PROCEDURE	DATE: 06-29-82
REV. 01	PAGE(S): 1 of 8 and 5 of 8	DATE: 11-18-82
REV. 02	PAGE(S): 1 of 8 and 5 of 8	DATE: 02-03-83
REV. 03	PAGE(S): 1 of 8, 4 of 8, and 5 of 8	DATE: FEB 24 1983
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

<p>APPROVAL RECOMMENDED</p> <p><i>W. K. ...</i> 2/23/83</p>	<p>APPROVED</p> <p><i>J. E. Wilson</i></p> <p>CHAIRMAN STATION NUCLEAR SAFETY AND OPERATING COMMITTEE</p>	<p>DATE</p> <p>FEB 24 1983</p>
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<p>NUMBER</p> <p>EPIP-1.01</p>	<p>PROCEDURE TITLE</p> <p>EMERGENCY MANAGER CONTROLLING PROCEDURE</p>	<p>REVISION</p> <p>03</p> <hr/> <p>PAGE</p> <p>4 of 8</p>
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p>*****</p>		
<p><u>CAUTION:</u> Declaration of the highest emergency class for which an EAL is exceeded shall be made.</p>		
<p>*****</p>		
3.	ASSESSMENT AND CLASSIFICATION:	
	<p>a) Refer to EPIP 1.01, Attachment 1. <u>Emergency Action Levels, Index</u></p> <p>1) Using index, determine event category <u>AND GO TO</u> proper EAL tab</p> <p style="text-align: center;"><u>AND</u></p> <p>2) Evaluate event, determine classification, <u>AND GO TO</u> Step 4 of this procedure</p>	
4.	NOTIFICATION AND VERIFICATION:	
	<p>a) TSC - <u>NOT</u> ACTIVATED</p> <p>b) Notify Operations Personnel</p> <p>1) Superintendent of Operations</p> <p>G. Kane (9-1-484-8322) (9-1-484-3043)</p>	<p>a) <u>IF</u> TSC activated, <u>GO TO</u> Step 6.</p> <p>Attempt contact via beeper 83 or 9-1-(629-7761)</p>
<p><u>OR</u></p>		

NUMBER  EPIP-1.01	PROCEDURE TITLE  EMERGENCY MANAGER CONTROLLING PROCEDURE	REVISION 03 PAGE 5 of 8
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
4.	(CONTINUED)	
	2) SRO-On-Call	
	R. Johnson	Attempt contact via beeper
	<u>OR</u>	
	I. Peterson	Attempt contact via beeper
	c) Verify classification	
	d) <u>IF</u> required by Alert, Site	
	Emergency or General Emergency,	
	request initiation of Standing	
	Order 21	
	<u>NOTE:</u> Return to Step 2 of this instruction as necessary during	
	the course of the situation for additional events and	
	reclassification.	
5.	VERIFY EALS EXCEEDED:	
	a) Assure EALS - EXCEEDED	a) <u>IF</u> EALS <u>NOT</u> exceeded,
		<u>DO NOT</u> declare an emergency
		classification.
	<u>AND</u>	
	1) Continue appropriate	
	corrective action IAW	
	procedures.	
	2) <u>GO TO</u> Step <u>7</u> of this	
	procedure.	

VIRGINIA ELECTRIC AND POWER COMPANY  
 SURRY POWER STATION  
 EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.03	REPORTS TO OFFSITE AGENCIES  (With No Attachments)	01
		PAGE 1 of 8

**PURPOSE**

- To ensure that reports to various agencies, which may be required because of the nature of the emergency, are made in a timely manner.

**USER**

Emergency Administrative Director OR Station Emergency Manager.

**ENTRY CONDITIONS**

- An emergency has been declared;  
  
OR
- Entry is directed by another EPIP.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): 1 of 8, 7 of 8, and 8 of 8	DATE: FEB 24 1983
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

**APPROVAL RECOMMENDED**

*W. L. ...*, 3/23/83

**APPROVED**

*J. Wilson*  
 CHAIRMAN STATION NUCLEAR SAFETY  
 AND OPERATING COMMITTEE

**DATE**

FEB 24 1983

NUMBER  EPIP-2.03	PROCEDURE TITLE  REPORTS TO OFFSITE AGENCIES	REVISION 01 PAGE 7 of 8
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
	<p><u>NOTE:</u> 10 CFR 20.402, 10 CFR 20.403, and the Technical Specifications require written followup reports to be submitted. Measures should be taken to ensure these reports are prepared and submitted.</p>	
19.	NOTIFY VEPCO INSURANCE, DEPT.:	
	<p>a) Call the VEPCO Insurance Dept. during business hours at:</p>	
	<p>b) Call the VEPCO Insurance Dept. during non-business hours at:</p>	
20.	VERIFY EMERGENCY STATUS:	
	<p>a) Emergency - NOT TERMINATED</p>	<p>a) <u>IF</u> emergency terminated, <u>GO TO Step 22.</u></p>
21.	MONITOR NOTIFICATION EVENTS:	
	<p>a) <u>IF</u> release of radioactive materials - OCCURS</p>	<p>a) <u>IF NOT</u>, continue to monitor until emergency terminated, <u>THEN GO TO Step 22.</u></p>
	<u>OR</u>	
	<p>Release of radioactive materials - INCREASES</p>	
	<u>OR</u>	
	<p>Release of radioactive materials - IS PROJECTED</p>	



NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.03	REPORTS TO OFFSITE AGENCIES	01
		PAGE 8 of 8

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
21.	(CONTINUED)	
	<u>OR</u>	
	Overexposures - OCCUR	
	<u>OR</u>	
	Overexposures - ARE LIKELY	
	<u>OR</u>	
	Loss or theft of licensed material - OCCURS	
	<u>OR</u>	
	Event listed in Specifi- cation 6.6.2.a of Tech. Specs... - OCCURS	
	<u>GO TO Step 2</u>	
22.	NOTIFY VEPCO Insurance Dept. OF TERMINATION:	
	a) Notify VEPCO Insurance Dept. of emergency termination	
	b) Use telephone number listed in Step <u>19</u>	
23.	TERMINATE EPIP-2.03:	
	a) Completed By: _____	
	Time: _____	
	Date: _____	
	b) Forward procedure to SNSOC for review	
	END	

VIRGINIA ELECTRIC AND POWER COMPANY  
SURREY POWER STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-3.01	CALLOUT OF EMERGENCY RESPONSE PERSONNEL  (With 1 Attachment)	03  PAGE 1 of 3

**PURPOSE**

1. To callout station AND corporate emergency response personnel if they are not already at their normal work locations.

**USER**

Security Team Leader OR Station Emergency Manager

**ENTRY CONDITIONS**

1. Initiation directed by the Station Emergency Manager.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): Page 1 of 3 & Att. 1, Page 3 of 6, 4 of 6	DATE: 10-07-82
REV. 02	PAGE(S): Page 1 of 3 and Attachment 1, Page 2 of 6	DATE: 02-03-83
REV. 03	PAGE(S): 1 of 3 & Att.1 Pg. 1 of 6, 2 of 6, 3 of 6	DATE: FEB 24 1983
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

**APPROVAL RECOMMENDED**

*W. H. ... Jr. 2/23/83*

**APPROVED**

*J. Wilson*  
CHAIRMAN STATION NUCLEAR SAFETY  
AND OPERATING COMMITTEE

**DATE**

FEB 24 1983

<p>NUMBER EPIP-3.01</p>	<p>ATTACHMENT TITLE EMERGENCY PERSONNEL NOTIFICATION LIST</p>	<p>REVISION 03</p>
<p>ATTACHMENT 1</p>		<p>PAGE 1 of 6</p>

1. INSTRUCTIONS TO SECURITY: Use all available security personnel and telephone lines to make the following notifications as rapidly as possible. Notify, in order, the individuals listed below until at least one individual in each department has been notified. When each individual is reached, transmit the message indicated for that department, verify the message has been understood, and then move to the next department.

2. GENERAL OFFICE SECURITY (Richmond)

MESSAGE: "This is Security at Surry Power Station. An emergency has been declared at Surry Power Station. Commence the callout of the Corporate Emergency Response Team in accordance with the Corporate Emergency Response Plan."

<u>NAME</u>	<u>EXT.</u>	<u>TELEPHONE NUMBER</u>
General Office Security		
	<u>OR</u>	<u>OR</u>
	<u>OR</u>	<u>OR</u>

3. STATION MANAGEMENT

MESSAGE: "This is Security at Surry Power Station. This message is to inform you that an emergency has been declared at the station."

<u>NAME</u>	<u>EXT.</u>	<u>TELEPHONE NUMBER</u>
J. L. Wilson		Beeper
R. F. Saunders		Beeper
G. E. Kane		Beeper

NUMBER EPIP-3.01	ATTACHMENT TITLE  EMERGENCY PERSONNEL NOTIFICATION LIST	REVISION 03
ATTACHMENT 1		PAGE 2 of 6

4. HEALTH PHYSICS DEPARTMENT

MESSAGE: ~~"This is Security at Surry Power Station. An emergency has been declared. Commence callout of emergency response personnel in your department in accordance with your departmental emergency notification list."~~

<u>NAME</u>	<u>EXT.</u>	<u>TELEPHONE NUMBER</u>
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S. P. Sarver

P. P. Nottingham

Barry Garber

Dean Densmore

5. TECHNICAL SERVICES DEPARTMENT

Message: "This is Security at Surry Power Station. An emergency has been declared. Commence callout of emergency response personnel in your department in accordance with your departmental emergency notification list."

<u>NAME</u>	<u>EXT.</u>	<u>TELEPHONE NUMBER</u>
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D. A. Christian

Beeper

Eugene Gracheck

Douglas Rickeard

Larry Curfman

John Horhutz

George Pitonyak

Rick Bailey

Tom Swindell

Larry Miller

NUMBER EPIP-3.01	ATTACHMENT TITLE EMERGENCY PERSONNEL NOTIFICATION LIST	REVISION 03
ATTACHMENT 1		PAGE 3 of 6

6. MAINTENANCE DEPARTMENT

MESSAGE: "This is Security at Surry Power Station. An emergency has been declared. Commence callout of emergency response personnel in your department in accordance with your departmental emergency notification list."

NAME                      EXT.                      TELEPHONE NUMBER

H. W. Kibler

Jerry Olin

John Patrick

Dick Mudd

7. SECURITY DEPARTMENT

MESSAGE: "This is Security at Surry Power Station. This message is to inform you that an emergency has been declared at the station."

NAME                      EXT.                      TELEPHONE NUMBER

Otto Wegman

H. J. Van Dyke

W. D. Sweaney

**VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE**

<b>NUMBER</b>	<b>PROCEDURE TITLE</b>	<b>REVISION</b>
EPIP-3.02	ACTIVATION OF TECHNICAL SUPPORT CENTER  (With 10 Attachments)	02 <b>PAGE</b>  1 of 8

**PURPOSE**

1. To provide guidance to personnel charged with TSC Activation.
2. To provide guidance to TSC members.

**USER**

Emergency Administrative Director OR Available TSC Personnel

**ENTRY CONDITIONS**

1. Declaration of Alert, Site Emergency or General Emergency;

AND

2. Entry from another EPIP;

OR

3. Direction of Station Emergency Manager.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): Page 1 of 8, and 2 of 8	DATE: 10-07-82
REV. 02	PAGE(S): Page 1 of 8, Attachment 3 Page 1 of 3	DATE: FEB 24 1983
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

<p><b>APPROVAL RECOMMENDED</b></p> <p><i>W. L. ...</i> 2/23/83</p>	<p><b>APPROVED</b></p> <p><i>J. Wilson</i></p> <p>CHAIRMAN STATION NUCLEAR SAFETY AND OPERATING COMMITTEE</p>	<p><b>DATE</b></p> <p>FEB 24 1983</p>
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NUMBER EPIP-3.02	ATTACHMENT TITLE EMERGENCY OPERATIONS DIRECTOR GUIDELINE	REVISION 02
ATTACHMENT 3		PAGE 1 of 3

STEP	* ACTION/EXPECTED RESPONSE	* RESPONSE NOT OBTAINED
1.	INITIATE EPIP-3.02, ATTACHMENT 3:	
	a) BY: _____	
	DATE: _____	
	TIME: _____	
2.	COMMUNICATIONS:	
	a) Obtain operator from Emergency Switchgear Room	a) Obtain Nuc. Training Coordinator from Administrative Director
	b) Establish communications from TSC to Main Control Room via Ringdown Phone	b) Establish communications to Control Room via available means
	c) Update Station Emergency Manager in a timely manner	
	d) Insure status boards maintained	
3.	VERIFY:	
	a) <u>IF</u> required, obtain operational status from Control Room personnel	
4.	SUPPORT:	
	a) Verify availability of operations personnel in Emer/SG Room	
	b) As required, request additional personnel to support operational activities	
	c) As required, request material and equipment via Emergency Administrative Director	

VIRGINIA ELECTRIC AND POWER COMPANY  
 SURRY POWER STATION  
 EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.02	RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE (With No Attachments)	02 PAGE 1 of 16

**PURPOSE**

To assist Radiological Assessment Director in establishment of radiation protection program during an emergency and dispatching monitoring teams.

**USER**

Assistant Health Physics Supervisor, Health Physicist or Health Physics Technician.


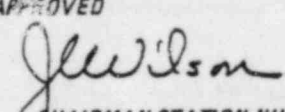
**ENTRY CONDITIONS**

Any one of the following :

1. Emergency classification of ALFRT.
2. Activation by another EPIP.
3. Any other time the Radiological Assessment Director deems it necessary.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): 1,3,4,5,7,8,10,11,12,13,14 and 15	DATE: 11-04-82
REV. 02	PAGE(S): 1, 8, 10	DATE: FEB 24 1983
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

<p><b>APPROVAL RECOMMENDED</b></p> 	<p><b>APPROVED</b></p>  <p>CHAIRMAN STATION NUCLEAR SAFETY AND OPERATING COMMITTEE</p>	<p><b>DATE</b></p> <p>FEB 24 1983</p>
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<p>NUMBER EPIP-4.02</p>	<p>PROCEDURE TITLE RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE</p>	<p>REVISION 02</p>
		<p>PAGE 8 of 16</p>

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
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NOTE: Offsite Monitoring Team(s) should be dispatched upon classification of SITE or GENERAL emergency, as specified by the Radiological Assessment Director.

9. ACTIVATE OFFSITE MONITORING:

a) Review with Radiological Assessment Director:

1) Need for offsite monitoring teams

1) IF offsite monitoring NOT required, GO TO Step 10.

2) Initial location and number of offsite teams required

3) Assessment of offsite radiological hazards

b) Assign EPIP-4.16, Offsite Monitoring

c) Select 2 individuals per team:

1) Only 1 need be a H.P. technician

d) Assist in obtaining a vehicle

- 1) Health Physics truck #3088
- 2) Health Physics truck #1449
- 3) Station Management vehicle #1155
- 4) Station Vehicle #1150
- 5) Station Vehicle #1151

NOTE: Keys to above vehicles except 1155 are located in key locker in H.P. Supervisor's Office.



VIRGINIA ELECTRIC AND POWER COMPANY  
 SURRY POWER STATION  
 EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.12	OFFSITE ENVIRONMENTAL MONITORING INSTRUCTIONS (With 2 Attachments)	01
		PAGE 1 of 7

**PURPOSE**

Provide guidance to the Dose Assessment Team to direct Offsite Monitoring Teams to:

- 1) Confirm radiological release
- 2) Track release
- 3) Determine radiological composition of release

**USER**

Dose Assessment Team Members.

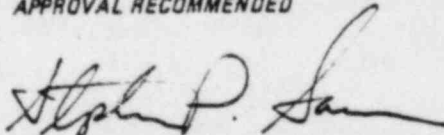
**ENTRY CONDITIONS**

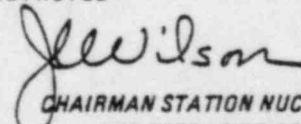
Any one of the following:

1. Release of radioactive materials with a SITE or GENERAL emergency condition and EOF is NOT activated.
2. Any other time which the Radiological Assessment Director deems it necessary.
3. Activation by another EPIP.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): Page 1, 6, and 7	DATE: FEB 24 1983
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

**APPROVAL RECOMMENDED**

**APPROVED**

  
 CHAIRMAN STATION NUCLEAR SAFETY  
 AND OPERATING COMMITTEE

**DATE**

FEB 24 1983

NUMBER  EPIP-4.12	PROCEDURE TITLE  OFFSITE ENVIRONMENTAL MONITORING INSTRUCTION	REVISION 01
		PAGE 6 of 7

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

8. (CONTINUED)

b) IF unexpected reading occurs:

- 1) Have team travel downwind a distance until plume is located

9. FIXED ENVIRONMENTAL SAMPLERS AND TLD'S:

- a) Fixed air samplers and TLD's provide good information on the TOTAL release. Collection of these samples may provide best information after termination of release

10. ADDITIONAL SAMPLING:

- a) Additional sampling for chronic exposure pathways is not normally within the scope of initial response
- b) Upon recovery phase of emergency, direct teams to obtain, as appropriate:
  - 1) Milk
  - 2) Water
  - 3) Crop samples

NUMBER  EPIP-4.12	PROCEDURE TITLE  OFFSITE ENVIRONMENTAL MONITORING INSTRUCTION	REVISION 01
		PAGE 7 of 7

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

## 11. CONTINUE MONITORING:

a) Continue Steps 7 thru 12  
until:

b) EOF-MANNED, GO TO Step 2

OR

2) Release TERMINATED, GO TO  
Step 13

OR

3) IF monitoring data becomes  
available, GO TO Step 12.

## 12. ASSESS DATA:

a) IF monitoring data becomes  
available:

1) Initiate EPIP-4.13, Offsite  
Release Assessment with  
Environmental Data

## 13. TERMINATE EPIP-4.12:

a) COMPLETED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

END

VIRGINIA ELECTRIC AND POWER COMPANY  
 SURRY POWER STATION  
 EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.15	ONSITE MONITORING  (With 3 Attachments)	01
		PAGE  1 of 9

**PURPOSE**

Confirm initial offsite releases and provide surveys for personnel protection program onsite.

**USER**

Onsite Monitoring Team Member

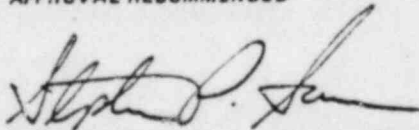
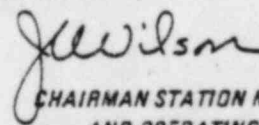
**ENTRY CONDITIONS**

Any one of the following conditions:

1. ALERT, SITE or GENERAL emergency.
2. Activation by another EPIP.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): 1, 3, 4, 5, 7, 8, Att. 2 p.1, Att. 3 p.1	DATE: FEB 24 1983
REV.	PAGE(S):	DATE:
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REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

**APPROVAL RECOMMENDED**

**APPROVED**


CHAIRMAN STATION NUCLEAR SAFETY  
AND OPERATING COMMITTEE

**DATE**

FEB 24 1983

NUMBER  EPIP-4.15	PROCEDURE TITLE  ONSITE MONITORING	REVISION 01
		PAGE 3 of 9

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: Emergency kits should be used for offsite monitoring. Obtain equipment for surveys from normal station supplies.

4. OBTAIN MONITORING/SAMPLING EQUIPMENT:

a) Obtain the following equipment, as necessary, from the Health Physics Office:

- 1) Portable survey meter (minimum range of 0-1000 mr/hr)
- 2) Battery powered air sampler, IF air sampling is required
- 3) RM-14, with H.P. 210 probe IF analysis of samples are required in field
- 4) Poly bags for soil sample, plastic bottles for liquid samples, gas chambers IF gas sample is required and smears IF swipes are to be taken

a) Portable survey equipment may also be obtained from H.P. instrument repair shop.

2) Continue with this instruction

3) Continue with this instruction

4) Continue with this instruction

b) Perform operability check as appropriate:

- 1) Battery check
- 2) Current calibration sticker
- 3) Source check (if available)

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.15	ONSITE MONITORING	01
		PAGE 4 of 9

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
5.	INITIAL CONFIRMATION OF OFFSITE RELEASES:	
a)	IF team activated for initial confirmation and assessment:	
1)	Proceed to location specified in Step <u>2</u>	
2)	Use suggested protective clothing and respiratory gear	
b)	Obtain dose rate:	
1)	Use portable survey meter with beta window closed	
2)	Transverse plume in cross-wind direction	
3)	Determine maximum dose rate (mR/hr)	
4)	Record mR/hr, time and location on Attachment 2	
c)	Place particulate filter and silver zeolite cartridge in air sampler	
d)	Obtain air sample:	
1)	Turn on sampler at location of maximum dose rate determined in Step <u>5.b</u>	
2)	Obtain an approximate <u>10</u> ft <sup>3</sup> air sample	



NUMBER  EPIP-4.15	PROCEDURE TITLE  ONSITE MONITORING	REVISION 01
		PAGE 5 of 9

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
5.	(CONTINUED)	
	3) Obtain gas sample - open top of chamber, waving chamber within plume and closing chambers  4) Relocate out of plume while sampler is running  5) After sampling is complete, turn off air sampler and disconnect cables  6) Log sample volume on Attachment <u>2</u>	
	e) Obtain a soil sample	
	1) Take approximately <u>1/4</u> to <u>1/2</u> inch of soil from <u>1</u> square foot area  2) Place sample in a poly bag	
	f) Return samples and complete the survey	
	g) <u>IF</u> samples are LESS THAN <u>10</u> mR/hr:  1) Return sample to the count room in a clean plastic bag	g) <u>IF</u> samples are GREATER THAN <u>10</u> mR/hr:  1) Return sample to hot lab  <u>AND</u>  2) Initiate EPIP-4.26, <u>High Level Activity Sample Analysis.</u>
6.	FOLLOW-UP MONITORING:	
	a) Obtain a portable radio prior to departure	a) <u>IF</u> portable radio is not available:

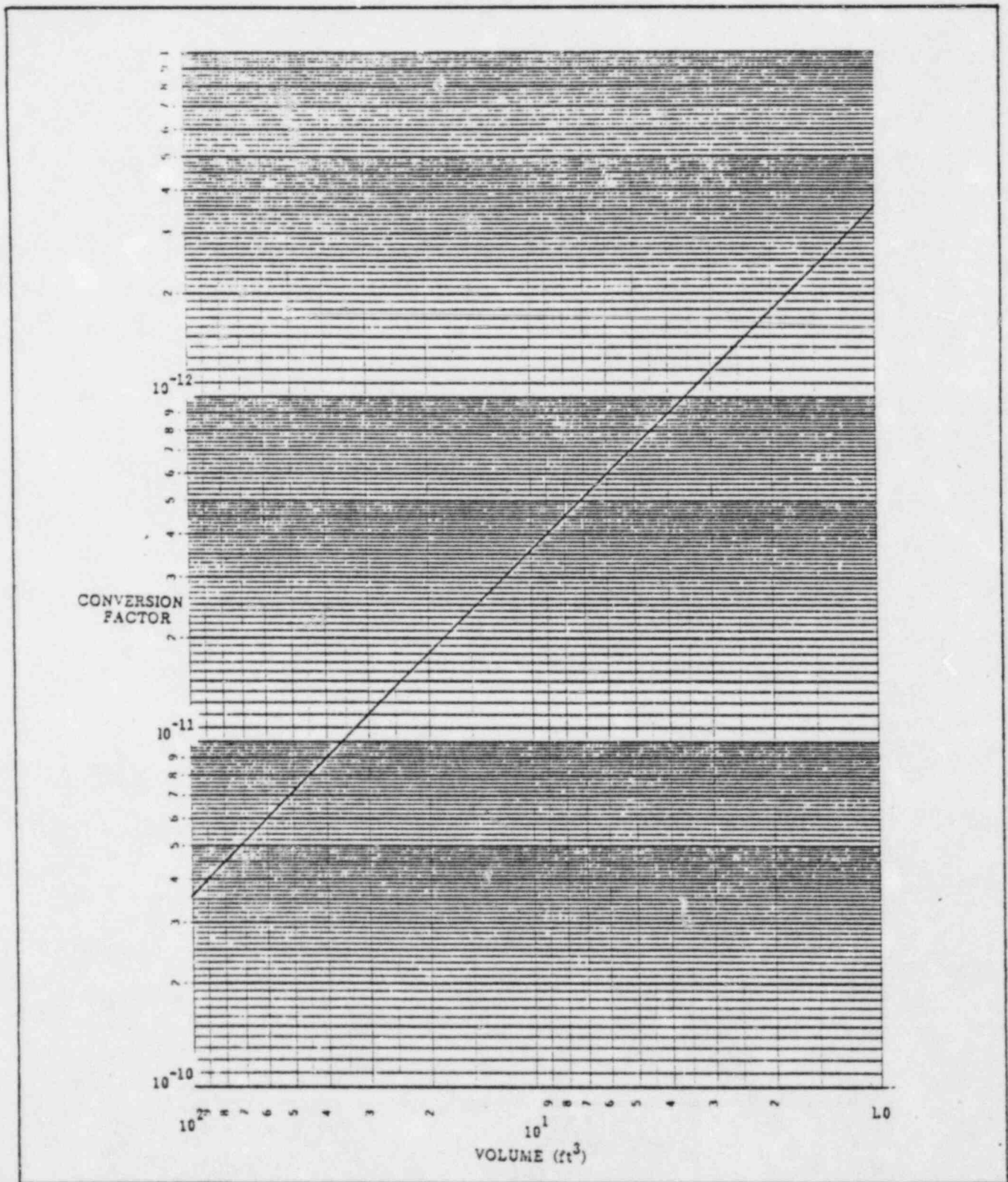


NUMBER  EPIP-4.15	PROCEDURE TITLE  ONSITE MONITORING	REVISION 01 PAGE 8 of 9
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
7.	(CONTINUED)	
	2) Log on Attachment 2	
	c) Hold silver zeolite cartridge one-quarter inch from the detector with influent side of cartridge facing the detector	
	d) Observe gross count rate and log on Attachment 2	
	e) Subtract background count rate from gross count rate to obtain net count rate	
	f) Determine from Attachment <u>3</u> the conversion factor for specific sample volume	
	g) Determine I-131 activity:  NET (cpm) x conversion factor = ACTIVITY (uCi/ml)	
	h) Log on Attachment 2 <u>AND</u> a sample:	
	1) Date	
	2) Time	
	3) Location	
	4) Activity	
	i) Return samples, as time allows, to count room	
8.	REPEAT SURVEYS:	
	a) Return to Step <u>6</u> and perform repetition of sampling and/or surveys as required by the Radiation Protection Supervisor	a) <u>IF</u> emergency terminates or <u>IF</u> team is requested to return, <u>GO TO</u> Step <u>9</u> .



NUMBER	ATTACHMENT TITLE	REVISION
4.15	RM-14 CONVERSION FACTOR	01
ATTACHMENT		PAGE
3		1 of 1



**VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE**

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.16	OFFSITE MONITORING  (With 4 Attachments)	01 PAGE 1 of 11

**PURPOSE**

Provide guidance for offsite monitoring teams in obtaining equipment, tracking plume, taking samples and transmitting data.

**USER**

Offsite Monitoring Team members.

**ENTRY CONDITIONS**

Initiation by EPIP-4.02, Radiation Protection Supervisor Controlling Procedure.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): 1, 2, 3, 4, 7, 8, 9, Att. 4 p.1	DATE: FEB 24 1983
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

<p><b>APPROVAL RECOMMENDED</b></p> 	<p><b>APPROVED</b></p>  <p style="text-align: center;">CHAIRMAN STATION NUCLEAR SAFETY AND OPERATING COMMITTEE</p>	<p><b>DATE</b></p> <p style="text-align: center;">FEB 24 1983</p>
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NUMBER  EPIP-4.16	PROCEDURE TITLE  OFFSITE MONITORING	REVISION 01
		PAGE 2 of 11

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
1.	INITIATE PROCEDURE:	
	a) BY: _____	
	DATE: _____	
	TIME: _____	
2.	TEAM ASSIGNMENT:	
	a) Offsite monitoring team shall consist of two individuals:	
	1) Only one need be a H.P. technician	
3.	REQUEST BRIEFING:	
	a) Request briefing with the Radiation Protection Supervisor as to the following:	
	1) Required monitoring locations	1) <u>IF</u> no location <u>OR</u> survey requirements given, proceed to security building and await instructions.
	2) Samples and surveys required	
	3) Anticipated radiation levels	
	4) Protective clothing and dosimetry and/or respiratory gear required	
	b) Obtain information on who to report survey data to:	
	1) TSC	
	<u>OR</u>	
	2) EOF	

NUMBER  EPIP-4.16	PROCEDURE TITLE  OFFSITE MONITORING	REVISION 01 PAGE 3 of 11
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
4.	<p>OBTAIN VEHICLE:</p> <p>a) Health Physics truck will be used as primary transportation for Offsite Teams</p> <p>b) Insure vehicle has at least 1/4 tank of gas</p>	<p>a) Request assistance from Radiation Protection Supervisor or Radiological Assessment Director in obtaining vehicles.</p>
5.	<p>OBTAIN MONITORING KIT:</p> <p>a) Obtain a monitoring kit specified by Radiation Protection Supervisor</p> <p>b) Obtain additional equipment from H.P. Office:</p> <p>1) Battery powered air sampler</p> <p>2) RM-14 with H.P. <u>210</u> probe</p> <p>3) Package of silver zeolite cartridges and particulate filters</p>	<p>b) Additional equipment available at HP instrument repair shop.</p>
6.	<p>PERFORM INSTRUMENT CHECK:</p> <p>a) Perform operability check:</p> <p>1) Battery check</p> <p>2) Current calibration sticker</p>	
7.	<p>PROCEED TO MONITORING LOCATION:</p> <p>a) Obtain and don protective clothing, dosimetry, and respiratory gear as specified in Step <u>3</u></p>	<p>a) <u>IF</u> no gear is specified, continue with this instruction.</p>



NUMBER EPIP-4.16	PROCEDURE TITLE OFFSITE MONITORING	REVISION 01
		PAGE 4 of 11

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
7.	(CONTINUED)	
	b) Use Attachment 1 and 2 to determine: <ol style="list-style-type: none"> <li>1) Initial location</li> <li>2) Location specified by personnel in TSC (EOF)</li> </ol> c) Proceed to monitoring location specified in Step <u>3</u>	c) <u>IF</u> no monitoring location specified: <ol style="list-style-type: none"> <li>1) Report to Security Building</li> </ol> <p style="text-align: center;"><u>AND</u></p> <ol style="list-style-type: none"> <li>2) Await further instructions.</li> </ol>
8.	ESTABLISH RADIO CONTACT: <ol style="list-style-type: none"> <li>a) Initial radio communication will be with emergency response personnel in the TSC</li> <li>b) <u>IF</u> EOF is activated, radio communication will be with EOF</li> <li>c) Establish radio communication with the TSC or EOF by initiation of EPIP-4.19, <u>Use of Radios for Health Physics Monitoring</u> <ol style="list-style-type: none"> <li>1) To transmit:               <p style="margin-left: 40px;">"Mobile (<u>Number of Vehicle</u>) to TSC (HP-2) or EOF (HP-3). Our location is _____"</p> </li> </ol> </li> </ol>	

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.16	OFFSITE MONITORING	01
		PAGE
		7 of 11

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
10.	(CONTINUED)	
	2) Ensure petcocks are closed and replace top	
	3) Place chamber in plastic bag and label with date, time and location	
	c) Log information in Step <u>10.b.3</u> on Attachment 3	
11.	PARTICULATE AND IODINE SAMPLE:	
	a) <u>IF</u> particulate and/or iodine sample required:	a) <u>IF</u> sample <u>NOT</u> required, <u>GO TO</u> Step <u>12</u> .
	1) Obtain battery powered air sampler	
	2) Load samples with particulate filter and silver zeolite cartridge	
	b) <u>IF</u> sample required during high humidity:	b) Continue with Step <u>11.c</u> .
	1) Shelter sample from moisture	
	2) Report weather conditions to TSC or EOF	
	c) Obtain an approximate <u>10</u> ft <sup>3</sup> air sample	
	1) Connect cables to vehicle battery terminal	
	2) Turn on air sampler	
	3) Relocate out of plume while sampler is running	

NUMBER  EPIP-4.16	PROCEDURE TITLE  OFFSITE MONITORING	REVISION 01
		PAGE 8 of 11

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
11.	<p>(CONTINUED)</p> <p>4) Disconnect cables after sample volume collected</p> <p>5) Log sample volume on Att. <u>3</u>.</p> <p>d) Place iodine cartridge and particulate filter in a plastic bag and label:</p> <p>1) Date</p> <p>2) Time</p> <p>3) Volume</p> <p>4) Location</p> <p>e) Log information in Step <u>11.d</u> on Attachment 3</p> <p><u>NOTE:</u> Air sample must have been taken using silver zeolite cartridge to use this method for analysis.</p>	
12.	<p>ACTIVITY DETERMINATION:</p> <p>a) <u>IF</u> air sample analysis required:</p> <p>1) Proceed to a low background area</p> <p>b) Turn on RM-14 (frisker)</p> <p>1) Obtain a background count rate (cpm)</p> <p>c) Hold silver zeolite cartridge one-quarter inch from detector, with influent side of cartridge facing the detector</p>	

NUMBER  EPIP-4.16	PROCEDURE TITLE  OFFSITE MONITORING	REVISION 01 PAGE 9 of 11
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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

12. (CONTINUED)

d) Observe gross count rate

e) Determine net count rate:

$$\text{GROSS (cpm)} - \text{BACKGROUND (cpm)} = \text{NET (cpm)}$$

f) Determine from Attachment 4 the conversion factor for specific sample volume.

g) Determine activity:

$$\text{NET (cpm)} \times \text{Conversion Factor} = \text{ACTIVITY (uCi/ml)}$$

h) Log on Attachment 3:

1) Date

2) Time

3) Location

4) Activity

i) Place sample in poly bag and label:

1) Date

2) Time

3) Volume

4) Location

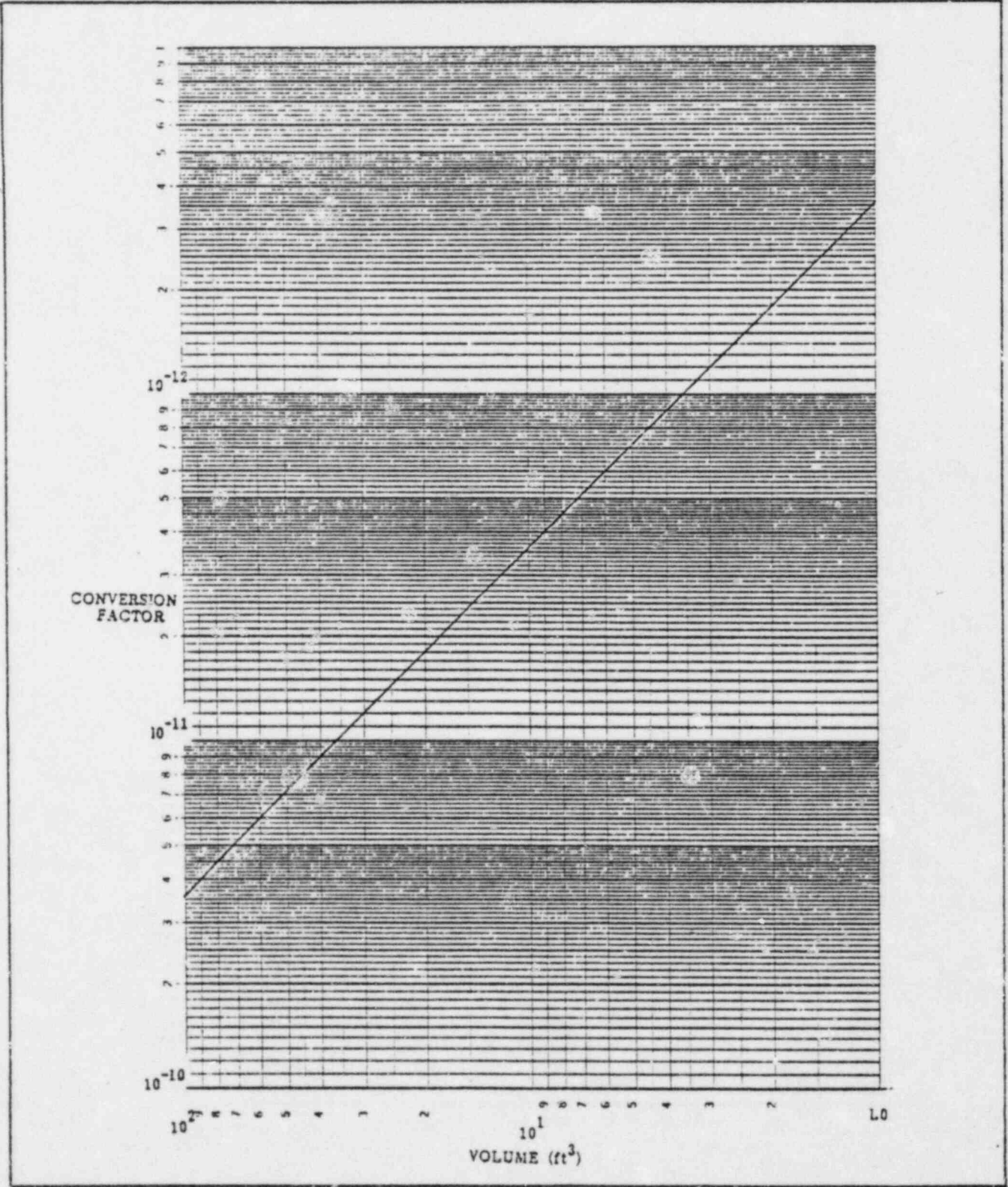
13. SOIL DEPOSITION:

a) IF soil sample IS requested:

1) Obtain a sample by marking off an approximate one square foot area

a) IF soil sample NOT requested, GO TO Step 14.

<p>NUMBER 4.16</p>	<p>ATTACHMENT TITLE RM-14 CONVERSION FACTOR</p>	<p>REVISION 01</p>
<p>ATTACHMENT 4</p>		<p>PAGE 1 of 1</p>



VIRGINIA ELECTRIC AND POWER COMPANY  
 SURRY POWER STATION  
 EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.18	MONITORING OF EOF  (With 4 Attachments)	01 PAGE 1 of 8

<p><b>PURPOSE</b></p> <p style="text-align: center;">Provide Health Physics coverage for personnel manning the EOF.</p>																		
<p><b>USER</b></p> <p style="text-align: center;">Member of Inplant Monitoring Team.</p>																		
<p><b>ENTRY CONDITIONS</b></p> <p style="text-align: center;">Initiation of EPIP-4.02, <u>Radiation Protection Supervisor Controlling Procedure</u>;</p>																		
<p><b>REVISION RECORD</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">REV. 00</td> <td style="width: 60%;">PAGE(S): Entire Procedure</td> <td style="width: 30%;">DATE: 07-29-82</td> </tr> <tr> <td>REV. 01</td> <td>PAGE(S): 1,4,5,6,7,8, Att. 3 page 1, Att. 4 Page 1</td> <td>DATE: FEB 24 1983</td> </tr> <tr> <td>REV.</td> <td>PAGE(S):</td> <td>DATE:</td> </tr> <tr> <td>REV.</td> <td>PAGE(S):</td> <td>DATE:</td> </tr> <tr> <td>REV.</td> <td>PAGE(S):</td> <td>DATE:</td> </tr> <tr> <td>REV.</td> <td>PAGE(S):</td> <td>DATE:</td> </tr> </table>	REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82	REV. 01	PAGE(S): 1,4,5,6,7,8, Att. 3 page 1, Att. 4 Page 1	DATE: FEB 24 1983	REV.	PAGE(S):	DATE:	REV.	PAGE(S):	DATE:	REV.	PAGE(S):	DATE:	REV.	PAGE(S):	DATE:
REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82																
REV. 01	PAGE(S): 1,4,5,6,7,8, Att. 3 page 1, Att. 4 Page 1	DATE: FEB 24 1983																
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<p><b>APPROVAL RECOMMENDED</b></p> <p style="text-align: center;"><i>Stephen P. Smith</i></p>	<p><b>APPROVED</b></p> <p style="text-align: center;"><i>J. W. Isom</i></p> <p style="text-align: center;">CHAIRMAN STATION NUCLEAR SAFETY AND OPERATING COMMITTEE</p>	<p><b>DATE</b></p> <p style="text-align: center;">FEB 24 1983</p>																

NUMBER  EPIP-4.18	PROCEDURE TITLE  MONITORING OF EOF	REVISION 01
		PAGE 4 of 8

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

5. (CONTINUED)

2) Direct radiation survey

d) Obtain air sample

1) Load sampler with silver  
zeolite and particulate  
filter2) Obtain an approximate 10ft<sup>3</sup>  
air samplee) Record volume of air sample  
on Attachment 4

6. PERFORM ANALYSIS ON AIR SAMPLE:

a) Proceed to a low background  
areab) Turn ON RM-14 and allow  
to stabilizec) Obtain background count  
rated) Hold silver zeolite 1/4 inch  
from detector with end of  
cartridge, where air sample  
entered, facing the detectore) Determine Conversion factor  
based on sample volume from Att. 3

f) Determine activity:

1) Observe gross count rate

2) Perform calculation:

$$(\text{GROSS cpm} - \text{BACKGROUND cpm}) \times \text{Conversion Factor} = \text{ACTIVITY (uCi/ml)}$$

NUMBER  EPIP-4.18	PROCEDURE TITLE  MONITORING OF ECF	REVISION 01
		PAGE 5 of 8

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
6.	(CONTINUED)  g) Place sample in a poly bag labeled: 1) Date 2) Time 3) Volume  h) Log on Attachment 1: 1) Date 2) Time 3) Instrument and serial number  i) Report results to Radiological Assessment Coordinator	
7.	INITIATE MONITORING EQUIPMENT:  a) <u>IF</u> permanent monitoring equipment available: 1) Continue with this instruction  b) Initiate air monitor: 1) Initiate air monitoring equipment as per H.P. procedure <u>3.3.4.2</u>  c) Initiate direct radiation monitor as per H.P. <u>3.3.4.3</u>	a) <u>IF</u> monitoring equipment <u>NOT</u> available: 1) <u>GO TO</u> Step <u>8.</u>  b) <u>IF</u> air monitoring equipment <u>NOT</u> available: 1) <u>GO TO</u> Step <u>7.c.</u>  c) <u>IF</u> direct monitor <u>NOT</u> available: 1) <u>GO TO</u> Step <u>8.</u>



NUMBER  EPIP-4.18	PROCEDURE TITLE  MONITORING OF EOF	REVISION 01  PAGE 6 of 8
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
8.	<p>ACCESS CONTROL:</p> <p>a) Set up access control point at entrance to the building:</p> <p>1) Monitor personnel with RM-14</p>	
9.	<p>ISSUE DOSIMETRY:</p> <p>a) As Vepco corporate and state officials arrive at the EOF, issue:</p> <p>1) TLD</p> <p style="text-align: center;"><u>AND</u></p> <p>2) Self-reading high and low range dosimeter</p> <p>b) Complete Attachment 3 upon issuance of dosimetry</p> <p>c) <u>IF</u> EOF is activated prior to issuance of dosimetry:</p> <p>1) Insure all people in EOF obtain dosimetry</p>	
10.	<p>PROTECTIVE MEASURES:</p> <p>a) <u>IF</u> area is found to be contaminated:</p> <p>1) Rope off contaminated area</p> <p>2) Request assistance from Radiation Protection Supervisor for decontamination and supply of protective clothing, if necessary</p>	<p>a) <u>IF</u> area is <u>NOT</u> contaminated, <u>GO TO</u> Step <u>11</u>.</p>

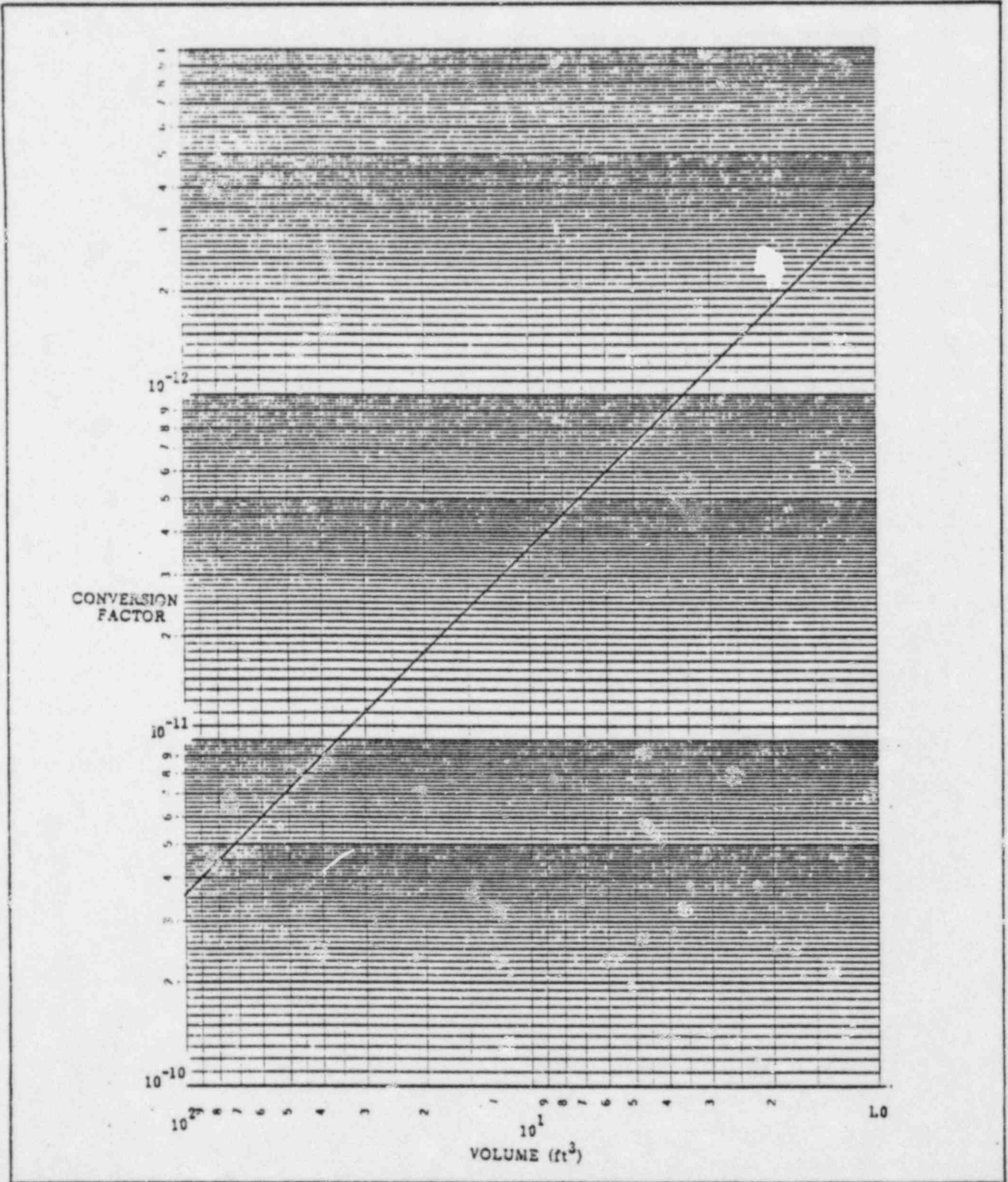


NUMBER EPIP-4.18	PROCEDURE TITLE MONITORING OF EOF	REVISION 01
		PAGE 8 of 8

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
12.	ADMINISTRATION: a) Complete all surveys including: 1) Instrument used and serial number 2) Date	
12.	(CONTINUED) 3) Time 4) Name b) Return surveys to Radiation Protection Supervisor c) Return air samples to the plant for further analysis	
13.	TERMINATE EPIP-4.18: a) COMPLETED BY: _____ DATE: _____ TIME: _____	

END

NUMBER	ATTACHMENT TITLE	REVISION
4.18	RM-14 CONVERSION FACTOR	01
ATTACHMENT		PAGE
3		1 of 1





VIRGINIA ELECTRIC AND POWER COMPANY  
 SURRY POWER STATION  
 EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.19	USE OF RADIOS FOR HEALTH PHYSICS MONITORING (With No Attachments)	02 PAGE 1 of 5

**PURPOSE**

Explain use of portable and mobile radios, and the radiophones in the emergency centers (H. P. Count Room, TSC, EOF).

**USER**

Radiological Assessment Director, Radiation Protection Director, OR any emergency team member.

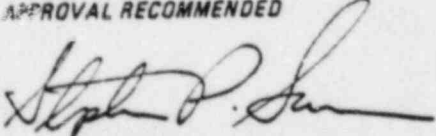
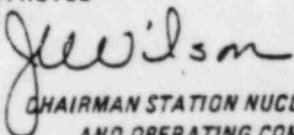
**ENTRY CONDITIONS**

Any one of the following:

1. Upon activation of the TSC.
2. Activation by offsite, onsite, inplant monitoring EPIP's.
3. Whenever radio communication is deemed necessary.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): 1 of 5, 2 of 5, 3 of 5, 4 of 5, 5 of 5	DATE: 11-04-82
REV. 02	PAGE(S): 1 of 5, 2 of 5	DATE: FEB 24 1983
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

<p><b>APPROVAL RECOMMENDED</b></p> 	<p><b>APPROVED</b></p>  <p>CHAIRMAN STATION NUCLEAR SAFETY AND OPERATING COMMITTEE</p>	<p><b>DATE</b></p> <p>FEB 24 1983</p>
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NUMBER  EPIP-4.19	PROCEDURE TITLE  USE OF RADIOS FOR HEALTH PHYSICS MONITORING	REVISION 02
		PAGE 2 of 5

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
1.	INITIATE PROCEDURE:	
	a) BY: _____	
	DATE: _____	
	TIME: _____	
2.	LOCATION OF RADIOS:	
	a) Location of PORTABLE RADIOS:	
	1) Four portable radios are located in H.P. Supervisors office	
	b) Location of mobile radios:	
	1) Health Physics truck #3088	
	2) Health Physics truck #1449	
	3) Station Management Vehicle #1155	
	4) Station Vehicle #1150	
	5) Station Vehicle #1151	
	6) Spare mobile units may be obtained from corporate staff manning the EOF	
	c) Location of radiophone:	
	1) H.P. Count Room (HP-1)	
	2) TSC (HP-2)	
	3) EOF (HP-3)	
	<u>NOTE:</u> IF FAILURE of mobile or portable radio occurs under field conditions, use public telephone as backup communications.	

VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.20	HEALTH PHYSICS ACTIONS FOR TRANSPORT OF CONTAMINATED INJURED PERSONNEL  (With 4 Attachments)	01
		PAGE 1 of 7

**PURPOSE**

To provide guidance for health physics personnel accompanying a contaminated injured individual to an offsite medical facility.

**USER**

Health Physics Technician.

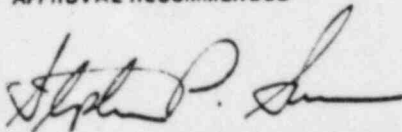
**ENTRY CONDITIONS**


Any one of the following:

1. Activation by Station Abnormal Procedure.
2. Activation by Station Health Physics Procedure.
3. Activation by another EPIP.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): 1 of 7, 6 of 7, and 7 of 7	DATE: FEB 24 1983
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**APPROVAL RECOMMENDED**

**APPROVED**

  
CHAIRMAN STATION NUCLEAR SAFETY  
AND OPERATING COMMITTEE

**DATE**

FEB 24 1983



NUMBER  HIP-4.20	PROCEDURE TITLE  HEALTH PHYSICS ACTIONS FOR TRANSPORT OF CONTAMINATED INJURED PERSONNEL	REVISION 01
		PAGE 6 of 7

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
11.	(CONTINUED)	
	b) <u>IF</u> members are found to be contaminated:  1) Use protective clothing to minimize spread  <u>AND</u>  2) Request use of decontamination facilities at MCV upon arrival	b) <u>IF</u> members are <u>NOT</u> contaminated, <u>GO TO</u> Step <u>12</u> .
12.	RELAY RADIOLOGICAL INFORMATION:	
	a) Upon arrival at MCV:  1) Relay radiological information to the <u>Incoming Monitoring Specialist</u> in Area <u>A</u> (see Attachment 4)	a) <u>IF</u> the Emergency Plan for MCV is <u>NOT</u> initiated:  1) Contact the MCV Hospital Superintendent
	<u>OR</u>  2) Radiation Safety Director in Area <u>B</u>  b) Request the need for further assistance or information required by the Radiation Safety Director  c) Report arrival time at MCV to Surry Control Room	
13.	MONITOR TRANSPORTING VEHICLE:	
	a) Survey the vehicle inside and outside	

NUMBER  EPIP-4.20	PROCEDURE TITLE  HEALTH PHYSICS ACTIONS FOR TRANSPORT OF CONTAMINATED INJURED PERSONNEL	REVISION 01  PAGE 7 of 7
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
13.	(CONTINUED)  b) <u>IF</u> the vehicle is found contaminated outside  1) Decon before return to the station  c) <u>IF</u> vehicle is found to be contaminated on the inside:  1) Return to the station for further decontamination	
14.	ADMINISTRATION:  a) Gather all information and survey results  b) Present all information and survey results to the Radio- logical Assessment Director upon arrival at the station	
15.	TERMINATE EPIP-4.20:  a) COMPLETED BY: _____  DATE: _____  TIME: _____	
END		

**VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE**

<b>NUMBER</b>	<b>PROCEDURE TITLE</b>	<b>REVISION</b>
EPIP-4.21	EVACUATION AND REMOTE ASSEMBLY AREA MONITORING (With 3 Attachments)	01 <b>PAGE</b> 1 of 9

**PURPOSE**

Collect personnel dosimetry, monitor station personnel evacuating from the site, and decontaminate as necessary.

**USEF**

Evacuation and remote assembly area monitoring.

**ENTRY CONDITIONS**

Any of the following:

1. Initiation by EPIP-4.01, Radiological Assessment Director Controlling Procedure;

OR

2. Initiation by EPIP-4.02, Radiation Protection Supervisor Controlling Procedure.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): 1 of 9, 4 of 9	DATE: FEB 24 1983
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REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

<p><b>APPROVAL RECOMMENDED</b></p> 	<p><b>APPROVED</b></p>  <p style="text-align: center;">CHAIRMAN STATION NUCLEAR SAFETY AND OPERATING COMMITTEE</p>	<p><b>DATE</b></p> <p style="text-align: center;">FEB 24 1983</p>
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NUMBER  EPIP-4.21	PROCEDURE TITLE  EVACUATION AND REMOTE ASSEMBLY AREA MONITORING	REVISION 01
		PAGE 4 of 9

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
6.	PROCEED TO REMOTE ASSEMBLY AREA:  a) Using Attachment 1, proceed on Route 650 to intersection of Routes 650 and 617	a) Proceed on Rt. 650 to Hog Island wildlife management area if instructed. <u>GO TO Step 7.</u>
7.	EVACUATION WITHOUT RADIOLOGICAL EMERGENCY:  a) <u>IF</u> emergency is non-radio- logical in nature:  1) Continue with this pro- cedure  b) Collect all dosimetry:  1) Securely fastening the self-reading dosimeters to TLD's  c) Release individuals after collection of dosimetry  d) <u>GO TO Step 15</u>	a) <u>IF</u> emergency <u>IS</u> radiological in nature:  <u>GO TO Step 8.</u>
8.	EVACUATION WITH RADIOLOGICAL EMERGENCY:  a) Collect all dosimetry:  1) Securely fastening the self-reading dosimeters to the TLD's  b) Instruct individuals:  1) Remain in vehicles until survey complete	

**VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE**

<b>NUMBER</b>	<b>PROCEDURE TITLE</b>	<b>REVISION</b>
EPIP-4.22	POST ACCIDENT SAMPLING OF CONTAINMENT AIR  (With 1 Attachment)	01
		<b>PAGE</b> 1 of 10

**PURPOSE**

1. To collect a post accident sample of containment air from Unit 1 OR Unit 2 Containment.

**USER**

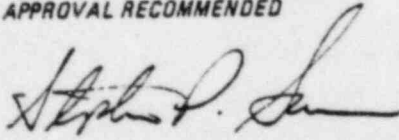
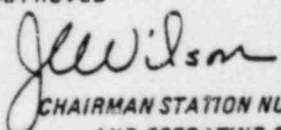
In-plant Monitoring Team or Sample Analysis Team.

**ENTRY CONDITIONS**

1. Entry directed by Radiation Protection Supervisor.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
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<b>APPROVAL RECOMMENDED</b>	<b>APPROVED</b>	<b>DATE</b>
	 CHAIRMAN STATION NUCLEAR SAFETY AND OPERATING COMMITTEE	FEB 24 1983

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.22	POST ACCIDENT SAMPLING OF CONTAINMENT AIR	01
		PAGE
		10 of 10

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
18.	(CONTINUED)  4) Date  5) Sample Time	
19.	NOTIFICATIONS:  a) Notify the following that sampling completed  1) Radiation Protection Supervisor  2) Shift Supervisor  3) Station Emergency Manager	
20.	TERMINATE EPIP-4.22:  a) COMPLETED BY: _____  TIME: _____  DATE: _____	
21.	FORWARD PROCEDURE:  a) Forward procedure to SNSOC for review	
END		

VIRGINIA ELECTRIC AND POWER COMPANY  
 SURRY POWER STATION  
 EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.23	POST ACCIDENT SAMPLING OF REACTOR COOLANT  (With 1 Attachment)	01 PAGE 1 of 14

**PURPOSE**

1. To collect a post accident sample of reactor coolant from the hot leg of Unit 1 OR Unit 2 Reactor Coolant Systems.

**USER**

Chemistry Team Leader AND Chemistry Team Member.

**ENTRY CONDITIONS**

1. Entry directed by Radiation Protection Supervisor.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
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REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

<p><b>APPROVAL RECOMMENDED</b></p> 	<p><b>APPROVED</b></p>  CHAIRMAN STATION NUCLEAR SAFETY AND OPERATING COMMITTEE	<p><b>DATE</b></p> <p>FEB 24 1983</p>
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NUMBER EPIP-4.23	PROCEDURE TITLE POST ACCIDENT SAMPLING OF REACTOR COOLANT	REVISION 01
		PAGE 13 of 14

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
45.	TRANSPORT PIG TO HOT LAB:	
	a) Roll pig to Chemistry Hot Lab	
	b) Place shielded sample pig in corner by the A.A.	
46.	RECORD SAMPLE DATE/TIME	
	a) Date _____	
	b) Time _____	
47.	HAVE SAMPLE TRIP VALVES SHUT:	
	a) Notify Shift Supervisor that sampling completed	
	b) <u>IF</u> sampling Unit 1, have Control Room shut TV-SS-106A <u>AND</u> TV-SS-106B	a) <u>IF</u> sampling Unit 2, have Control Room shut TV-SS-206A <u>AND</u> TV-206B
48.	NOTIFICATIONS:	
	a) Notify following that sampling completed	
	1) Radiation Protection Supervisor	
	2) Station Emergency Manager	
49	SAMPLE ANALYSIS:	
	a) Request initiation of RWP to dilute sample	
	b) Consider initiation of EPIP-4.26, <u>High Activity Sample Analysis</u> , upon termination of procedure	





VIRGINIA ELECTRIC AND POWER COMPANY  
 SURRY POWER STATION  
 EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-5.03	PERSONNEL ACCOUNTABILITY  (With 1 Attachment)	01
		PAGE  1 of 7

**PURPOSE**

1. To determine the personnel who are inside the protected area and unaccounted for within 30 minutes following declaration of Site Emergency, or General Emergency.
2. To provide a periodically updated list of all personnel inside the protected area.

**USER**

Security Team Leader.

**ENTRY CONDITIONS**

Any one of the following:

1. Activation by another EPIP;  
  
OR
2. Declaration of a Site Emergency, or General Emergency;  
  
OR
3. Any time deemed necessary by the Station Emergency Manager.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): 1 of 7, 2 of 7, 6 of 7	DATE: FEB 24 1983
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REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

**APPROVAL RECOMMENDED**

*W. L. ...*, 2/25/83

**APPROVED**

*J. Wilson*

CHAIRMAN STATION NUCLEAR SAFETY  
AND OPERATING COMMITTEE

**DATE**

FEB 24 1983

NUMBER  EPIP-5.03	PROCEDURE TITLE  PERSONNEL ACCOUNTABILITY	REVISION 01
		PAGE 2 of 7

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
1.	INITIATE EPIP-5.03:  a) INITIATED BY: _____  TIME: _____  DATE: _____	
2.	VERIFY EVACUATION STATUS:  a) Evacuation - NOT ORDERED	a) <u>IF</u> evacuation ordered, <u>GO TO</u> Step <u>10</u> .
<p>NOTE: Each Emergency Assembly Area will have an Emergency Assembly Area Leader. This person will be a supervisor or other cognizant person normally working in the Emergency Assembly Area.</p> <p>Each Emergency Assembly Area Leader will immediately take steps to determine who is missing from their Emergency Assembly Area that should be there, and who is present that should not be there.</p> <p>Each Emergency Assembly Area Leader will record the above information and forward it to Security.</p>		
3.	INITIATE ACCOUNTABILITY WITHOUT EVACUATION:  a) Make announcement on station Gai-Tronics system as follows:  1) "Emergency Assembly Area Leaders - TAKE ACCOUNT- ABILITY"  2) "Emergency Assembly Area Leaders deliver results of accountability to security"	

NUMBER  EPIP-5.03	PROCEDURE TITLE  PERSONNEL ACCOUNTABILITY	REVISION 01
		PAGE 6 of 7

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
15.	<p>FORWARD LIST:</p> <p>a) Forward list of all personnel within the Protected Area to Emergency Administrative Director in TSC</p> <p>b) Forward list of all personnel within the Protected Area indicated missing to Emergency Administrative Director in TSC</p>	<p>a) <u>IF TSC NOT</u> manned, forward lists to Station Emergency Manager in Control Room.</p>
16.	<p>RUN COMPUTER LISTINGS:</p> <p>a) Produce a list of all personnel within the Protected Area</p> <p style="text-align: center;"><u>OR</u></p> <p>As directed by Emergency Administrative Director</p>	<p>a) <u>IF</u> computer is inoperable, perform manual logging of all personnel</p>
17.	<p>VERIFY EMERGENCY STATUS:</p> <p>a) Emergency - <u>NOT</u> terminated</p> <p>b) <u>GO TO</u> Step <u>16</u></p>	<p>a) <u>IF</u> terminated, <u>GO TO</u> Step <u>18.</u></p>
18.	<p>TERMINATE EPIP-5.03:</p> <p>a) Close-Out</p> <p>1) COMPLETED BY: _____</p> <p style="padding-left: 100px;">TIME: _____</p> <p style="padding-left: 100px;">DATE: _____</p>	

VIRGINIA ELECTRIC AND POWER COMPANY  
 SURRY POWER STATION  
 EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-5.05	SITE EVACUATION  (With No Attachments)	01
		PAGE  1 of 5

**PURPOSE**

Insure steps are taken to provide for a quick and orderly evacuation.

**USER**

Station Emergency Manager OR Emergency Administrative Director.

**ENTRY CONDITIONS**

Any one of the following conditions exist:

1. Activation by another EPIP;

OR

2. Upon determining evacuation is imminent;

OR

3. At any time deemed necessary by the Station Emergency Manager.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
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REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

APPROVAL RECOMMENDED

*W. R. ...* 2/23/83

APPROVED

*J. Wilson*  
 CHAIRMAN STATION NUCLEAR SAFETY  
 AND OPERATING COMMITTEE

DATE

FEB 24 1983

NUMBER  EPIP-5.05	PROCEDURE TITLE  SITE EVACUATION	REVISION 01
		PAGE 3 of 5

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
5..	<p>CALL TRAINING CENTER:</p> <ul style="list-style-type: none"> <li>a) Notify training personnel by Station PBX - #270, 271, or 272</li> <li>b) Inform evacuation ordered</li> <li>c) Advise which assembly area is to be used</li> </ul>	
6.	<p>INPLANT NOTIFICATION:</p> <ul style="list-style-type: none"> <li>a) Verify primary remote assembly area to be used (Rt. 650 &amp; 617)</li> <li>b) Sound Emergency Alarm</li> <li>c) Make announcement on station Gai-Tronics as follows: <ul style="list-style-type: none"> <li>1) "Personnel <u>NOT</u> responding to emergency evacuate the station"</li> <li>2) "Turn in security badge, keep pocket dosimeter and TLD"</li> <li>3) "Proceed to intersection of Routes 650 and 617"</li> <li>4) "Remain in vehicle for further instructions"</li> </ul> </li> <li>d) Repeat Steps 6 <u>THEN</u>, <u>GO TO</u> Step 8</li> </ul>	a) <u>IF NOT</u> , <u>GO TO</u> Step 7.
7.	<p>INPLANT NOTIFICATION:</p> <ul style="list-style-type: none"> <li>a) Verify alternate remote assembly area to be used (Hog Island)</li> <li>b) Sound Emergency Alarm</li> </ul>	

VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-5.07	ADMINISTRATION OF RADIOPROTECTIVE DRUGS  (With 2 Attachments)	01
		PAGE 1 of 4

**PURPOSE**

To administer, with proper authorization, radioprotective drugs.

**USER**

Radiological Assessment Director or Senior Health Physics personnel onsite.

**ENTRY CONDITIONS**

Any one of the following conditions exist:

1. Activation by another EPIP;

OR

2. Survey results indicate inhalation dose may have exceeded 10 Rem;

OR

3. Entry into high airborne activity area where inhalation dose may exceed 10 Rem.

**REVISION RECORD**

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
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REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

**APPROVAL RECOMMENDED**

*W. L. ...* 2/23/83

**APPROVED**

*Jewellson*  
CHAIRMAN STATION NUCLEAR SAFETY  
AND OPERATING COMMITTEE

**DATE**

FEB 24 1983

NUMBER  EPIP-5.07	PROCEDURE TITLE  ADMINISTRATION OF RADIOPROTECTIVE DRUGS	REVISION 01
		PAGE 2 of 4

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
1.	INITIATE PROCEDURE:	
	a) INITIATED BY: _____	
	DATE: _____	
	TIME: _____	
2.	AUTHORIZATION:	
	a) Review data from EPIP-4.01 with the Station Emergency Manager	
	b) Request approval for use of radioprotective drugs from Station Emergency Manager	
3.	OBTAIN MEDICAL ADVICE:	
	a) Contact VEPCO Medical Director	a) <u>IF</u> medical approval is <u>NOT</u> available within <u>30</u> minutes administer the KI tablets.
	office - office - home - beeper -	
*****		
<p style="text-align: center;"><u>CAUTION:</u> Potassium iodide should not be used by people allergic to iodine.</p>		
*****		