

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**RICHMOND, VIRGINIA 23261**

**W. L. STEWART**  
**VICE PRESIDENT**  
**NUCLEAR OPERATIONS**

May 18, 1984

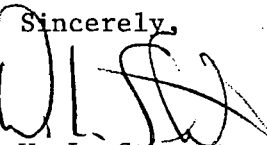
Mr. James P. O'Reilly  
 Regional Administrator  
 U.S. Nuclear Regulatory Commission  
 Region II  
 101 Marietta Street, Suite 2900  
 Atlanta, Georgia 30303

Serial No. 269  
 NO/REB/jmj:LM5-173  
 Docket Nos. 50-280  
                   50-281  
 License Nos. DPR-32  
                   DPR-37

Dear Mr. O'Reilly:

REVISIONS TO  
SURRY POWER STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURES

Pursuant to 10CFR 50.54 (q) revisions to the Surry Power Station Emergency Plan Implementing Procedures are submitted.

Sincerely,  
  
 W. L. Stewart

Enclosures

cc: Document Control Desk (2)

w/o Enclosures

cc: Mr. Steven A. Varga, Chief  
 Operating Reactors Branch No. 1  
 Division of Licensing

Mr. D. J. Burke  
 NRC Resident Inspector  
 Surry Power Station

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VIRGINIA ELECTRIC AND POWER COMPANY

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 your manual updated with the most recent revisions.

<u>EPIP-4.02</u>	<u>Radiation Protection Supervisor Controlling Procedure</u>
<u>Remove and Destroy</u>	<u>Enter</u>
Entire Procedure dated 02-24-83	Entire Procedure dated 04-26-84

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)	03
		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 ALERT.
2. Activation by another EPIP.
3. Any other time the Radiological Assessment Director deems it necessary.

**REVISION RECORD**

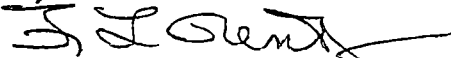
REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): 1,3,4,5,7,8,10,11,12,13,14 and 15	DATE: 11-04-82
REV. 02	PAGE(S): 1, 8, 10	DATE: 02-24-83
REV. 03	PAGE(S): 1,4,5,6,7,8,9,12,13	DATE: APR 8 6 1984
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

**APPROVAL RECOMMENDED**

**QC REVIEW**

**APPROVED**

**DATE**



  
CHAIRMAN STATION NUCLEAR SAFETY  
AND OPERATING COMMITTEE

APR 26 1984

<b>NUMBER</b>  EPIP-4.02	<b>PROCEDURE TITLE</b>  RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	<b>REVISION</b> 00  <b>PAGE</b> 2 of 16
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p><u>NOTE:</u> <u>IF</u> Health Physics area becomes uninhabitable, relocate Health Physics staff to the OSC or the Emergency Switchgear Room.</p>		
1.	INITIATE PROCEDURE:	
	a) Initiated By: _____ Date: _____ Time: _____	
2.	ESTABLISH COMMUNICATION:	
	Upon activation of the TSC, establish communication by:	
	a) Telephone <ol style="list-style-type: none"> <li>1) Locate a telephone in H.P. office</li> <li>2) Call the TSC at extension <u>479</u> or <u>392</u> or <u>294</u></li> </ol> b) Radio <ol style="list-style-type: none"> <li>1) Obtain a portable radio from Health Physics Office</li> <li>2) Initiate EPIP-4.19, <u>Use of Radios for Health Physics Monitoring</u></li> <li>3) Contact the TSC</li> </ol>	b) <u>IF</u> radio does not work or cannot be found, obtain a radio from operations or security.
3.	PERFORM ACCOUNTABILITY:	
	a) Perform accountability as per EPIP 5.03, <u>Personnel Accountability</u>	

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<b>STEP</b>	<b>ACTION/EXPECTED RESPONSE</b>	<b>RESPONSE NOT OBTAINED</b>
3.	<p>(CONTINUED)</p> <p>b) Report Health Physics readiness to the Radiological Assessment Director</p> <p>1) Report the number of H.P. personnel onsite</p>	
4.	<p>DETERMINE PLANT STATUS:</p> <p>a) Request briefing with Radiological Assessment Director as to:</p> <p>1) Emergency classification</p> <p>2) Plant status</p> <p>3) Assistance required</p>	
5.	<p>ESTABLISH DOSE CONTROL:</p> <p>a) Insure individual is available at dose control station</p> <p>b) <u>IF</u> dose control station becomes uninhabitable consider relocation to the OSC:</p> <p>1) Insure adequate supply of dosimeters are available</p> <p style="text-align: center;"><u>AND</u></p> <p>2) Relocate, if necessary, dosimetry processing equipment</p> <p>c) Request dose control individual to maintain exposure records and issue dosimetry as per normal H. P. procedures</p>	<p>b) <u>IF</u> dose control <u>is</u> habitable, <u>GO TO</u> Step <u>5.c.</u></p>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
6.	<p>ACTIVATE INPLANT MONITORING:</p> <p><u>IF</u> need for inplant monitoring determined:</p> <p>a) Request from Radiological Assessment Director:</p> <p>1) Location of required monitoring</p> <p>2) Type of surveys required</p> <p>b) Request assessment of possible radiological hazards in area of requested surveys</p> <p>c) Assign EPIP-4.14, <u>Inplant Monitoring</u></p> <p>1) Select <u>2</u> individuals</p> <p>2) Only <u>1</u> individual must be a H.P. technician</p> <p>d) Advise monitoring team as to the location and surveys required</p> <p>e) Obtain protective gear and monitoring equipment from H.P. area or H.P. Instrument Shop; as necessary:</p> <p>1) Respirators</p> <p>2) Protective clothing</p> <p>3) Dosimetry</p> <p>4) Monitoring equipment</p> <p>5) Air sampler</p> <p>f) Suggest routes of entry that may reduce exposure</p>	<p><u>IF</u> inplant monitoring teams <u>NOT</u> required, <u>GO TO NOTE</u> prior to Step <u>7</u>.</p> <p>e) Protective gear and/or monitoring equipment may be obtained from Health Physics or Control Room Emergency kits.</p>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
6.	(CONTINUED)	
	g) Consider use of portable radios for Inplant Monitoring Teams	g) <u>IF NO</u> radios are available <u>GO TO</u> Step <u>6.h.</u>
	h) Dispatch team(s)	
	i) Upon receipt of survey information, transmit data to the Radiological Assessment Director	
	<p><u>NOTE:</u> Onsite monitoring teams should be dispatched upon Alert classification, as specified by Radiological Assessment Director.</p>	
7.	ACTIVATE ONSITE MONITORING:	
	<u>IF</u> need for onsite monitoring is determined:	<u>IF</u> onsite monitoring <u>NOT</u> required, <u>GO TO</u> Step <u>8.</u>
	a) Request from Radiological Assessment Director the location of desired monitoring and the surveys required	
	b) Request from the Radiological Assessment Director assessment of radiological hazards in area of requested surveys	
	c) If transportation is required assist in obtaining a vehicle	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
7.	(CONTINUED)	
	1) Health Physics truck #3088 2) Health Physics truck #1449 3) Station Managers vehicle #1155 4) Station vehicle #1150 5) Station vehicle #1151	
	NOTE: Keys to above vehicles are located in H.P. Supervisor's office.	
	d) Assign EPIP-4.15, <u>Onsite Monitoring</u>	
	e) Select <u>2</u> individuals per team only <u>1</u> need be a H.P. technician	
	f) Obtain protective gear and monitoring equipment from H.P. area or H.P. Instrument Shop, as necessary:	f) Protective gear and/or monitoring equipment may be obtained from Health Physics, Control Room or Emergency Coordinator Office Emergency kits.
	1) Respirators	
	2) Protective clothing	
	3) Dosimetry	
	4) Monitoring Equipment	
	5) Air samples	
	g) Dispatch monitoring team(s)	
	h) <u>IF</u> radios are available, establish radio communication monitoring team(s)	h) Continue with this instruction <u>IF</u> radios <u>NOT</u> available.
	i) Upon receipt of survey results, transmit data to Radiological Assessment Director	



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
8.	ESTABLISH ACCESS CONTROL:	
	a) Based on survey(s) and/or briefing with Radiological Assessment Director concerning radiological event:	a) <u>IF</u> emergency <u>NOT</u> radiological in nature:
	1) Establish access control over Auxiliary Building and/or other high radiation or high airborne areas	1) Normal station access control to be followed
		<u>AND</u>
	b) Suggested access control limits:	2) <u>GO TO</u> Step <u>9</u> .
	1) Airborne contamination GREATER THAN	
	0.25 $\Sigma$ $\frac{\text{CONCi}}{\text{MPCi}}$	
	<u>OR</u>	
	2) GREATER THAN <u>1000</u> dpm per <u>100</u> cm <sup>2</sup>	
	<u>OR</u>	
	3) GREATER THAN <u>1000</u> mR/hr	
	c) Establish access control by:	
	1) Requiring H.P. notification prior to entry	
	<u>AND/OR</u>	
	2) Use of Radiation Work Permits as per Section <u>2</u> of the Health Physics Manual	
	3) Roping and posting affected area.	

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<b>STEP</b>	<b>ACTION/EXPECTED RESPONSE</b>	<b>RESPONSE NOT OBTAINED</b>
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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.

NOTE: Keys to the Emergency Coordinators office are located on vehicle key ring.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
9.	(CONTINUED)  e) Assign an emergency kit:  1) Three offsite kits are located in the Emergency Coordinator's office  OR  2) One kit located in Health Physics area.  3) Record number of emergency kits issued  f) Brief team on the initial reporting location  g) Review protective gear required:  1) Respirator gear  2) Protective clothing  3) Dosimetry  h) Dispatch monitoring team	
10.	INITIATE TSC/OSC/EOF MONITORING:  a) Upon ALERT emergency establish monitoring of emergency response centers  b) Determine frequency of monitoring based upon:  1) Spread of contamination from service buildings  2) Increase <u>OR</u> decrease of effluent release	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
10.	(CONTINUED)	
	3) Increase in emergency classification	
	4) Change in plume direction	
	c) Assign:	
	1) EPIP-4.17, <u>Monitoring of OSC and TSC</u>	
	<u>AND</u>	
	2) EPIP-4.18, <u>Monitoring of EOF</u>	
	d) Inform Radiological Assessment Director as to the habitability of emergency response centers	
11.	CONTAMINATED PERSONNEL:	
	a) <u>IF</u> station personnel found contaminated:	a) <u>IF</u> no station personnel found contaminated, <u>GO TO</u> Step <u>13</u> .
	1) Assign EPIP-4.06, <u>Personnel Monitoring and Decontamination</u>	
	<u>AND</u>	
	2) Report results to Radiological Assessment Director	
	b) Determine area contamination levels, if time and dose rate levels permit	b) <u>IF</u> time or dose rate levels do not permit survey, consider access control of the area until cleaned
	<u>NOTE:</u> <u>IF</u> injury is life threatening <u>GO TO</u> Step <u>12</u> .	

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<b>STEP</b>	<b>ACTION/EXPECTED RESPONSE</b>	<b>RESPONSE NOT OBTAINED</b>
12.	CONTAMINATED INJURED PERSONNEL:	
	<u>IF</u> an individual is injured and requires transportation offsite:	<u>IF</u> individual is <u>NOT</u> found to be contaminated, <u>GO TO</u> Step <u>13</u> .
	<ul style="list-style-type: none"> <li>a) Review personnel survey(s)</li> <li>b) Insure decontamination prior to transportation <u>NOT</u> practical</li> <li>c) Inform Radiological Assessment Director of need to transport contaminated personnel</li> <li>d) Assign EPIP-4.20, <u>H.P. Actions for Transportation of Contaminated Injured Individual</u> <ul style="list-style-type: none"> <li>1) Select a technician to accompany victim</li> <li>2) Supply technician with copy of EPIP-4.20</li> <li>3) Supply technician with portable survey instrument(s)</li> </ul> </li> <li>e) Upon arrival of ambulance, dispatch a technician to issue dosimetry</li> <li>f) Inform Radiological Assessment Director upon departure of ambulance</li> </ul>	
13.	EVACUATION MONITORING:	
	<ul style="list-style-type: none"> <li>a) <u>IF</u> evacuation alarm sounds without prior notification of pending evacuation, <u>GO TO</u> Step <u>13.d</u></li> </ul>	<ul style="list-style-type: none"> <li>a) Continue with this instruction.</li> </ul>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
13.	(CONTINUED)	
b)	<u>IF</u> informed by the Radiological Assessment Director of a pending evacuation	b) <u>IF</u> evacuation of the station is not eminent, <u>GO TO</u> Step <u>14</u> .
	1) Dispatch, if necessary, onsite monitoring team to the parking lot(s) to determine radiation and contamination levels	
c)	Report results of survey to the Radiological Assessment Director	
d)	Assign EPIP-4.21, <u>Evacuation and Remote Assembly Area Monitoring</u>	
e)	Assign Evacuation and Remote Assembly Area monitoring kit, located in Emergency Coordinator's trailer.	
f)	Assist in obtaining transportation of team <u>OR</u> arrange transportation with security	
g)	Inform Radiological Assessment Director when team dispatched	
14.	POST ACCIDENT SAMPLING:	
a)	<u>IF</u> notified by Radiological Assessment Director of need for post accident containment and/or reactor coolant sample:	a) <u>IF</u> post accident sampling Containment Air and/or Reactor Coolant <u>NOT</u> required, <u>GO TO</u> Step <u>15</u> .
	1) Perform in-plant survey to determine dose rate at sample station	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
14.	(CONTINUED)  2) Inform Radiological Assessment Director results of survey  3) Initiate preparation of RWP  4) Assign EPIP-4.22, <u>Post Accident Sampling of Containment Air</u>  <u>AND/OR</u>  <u>EPIP-4.23, Post Accident Sampling of Reactor Coolant</u>  5) Supply Health Physics coverage during sampling and sample preparation	
15.	SAMPLE ANALYSIS:  a) Upon receipt of sample analysis data requested by Radiological Director  <u>OR</u>  Receipt of abnormal or unexpected analysis data:  1) Report results immediately to the Radiological Assessment Director	a) <u>IF</u> sample analysis data <u>NOT</u> received, <u>GO TO</u> Step <u>16</u> .  <u>AND</u>  Report analysis to Radiological Assessment Director when available.
16.	ASSESS MANPOWER:  a) When time allows, determine need for relief shift and/or increase in manpower	a) <u>IF</u> time is not currently available, assign scheduling to other H.P. personnel  <u>OR</u>  Assess at a later time,

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
16.	(CONTINUED)	
		<u>AND</u> <u>GO TO Step 17.</u>
	<ol style="list-style-type: none"> <li>1) Discuss with Radiological Assessment Director, projected duration of emergency</li> <li>2) Determine need for increased manpower</li> <li>3) Develop relief schedule and/or increased staffing schedule</li> <li>4) Present schedule to Radiological Assessment Director for approval</li> <li>5) <u>IF</u> approved, activate callout of scheduled personnel</li> <li>6) Upon completion of callout, inform Radiological Assessment Director</li> </ol>	5) <u>IF NOT</u> approved, <u>GO TO Step 17.</u>
17.	RELIEF OF SHIFT:	
	a) <u>IF</u> a more senior H.P. individual <u>OR</u> relief arrives:	a) <u>GO TO Step 18.</u>
	<ol style="list-style-type: none"> <li>1) Brief successor as to the plant conditions</li> </ol>	
		<u>AND</u>
	Health Physics actions underway	



<b>NUMBER</b> EPIP-4.02	<b>PROCEDURE TITLE</b> RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	<b>REVISION</b> 01
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<b>STEP</b>	<b>ACTION/EXPECTED RESPONSE</b>	<b>RESPONSE NOT OBTAINED</b>
17.	(CONTINUED)	
	2) Announce change of position to the Radiological Assessment Director  3) Remain with new Supervisor for approximately 30 minutes	
18.	CONTINUE ASSESSMENT:	
	a) <u>IF</u> emergency condition still exists:  1) Return to Step <u>4</u>  2) Direct repetition of survey(s) and sampling, as necessary, to determine radiological hazards onsite	a) <u>IF</u> Radiological Assessment Director declares termination of Emergency, <u>GO TO</u> Step <u>19</u> .
19.	TERMINATION OF EMERGENCY:	
	a) Inform Health Physics staff as to termination of emergency  b) Maintain access control  c) Review recovery actions with Radiological Assessment Director  d) Replace all procedures and equipment used during the emergency	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
20.	<p>ADMINISTRATION:</p> <p>a) Forward all completed or partially completed procedures, notes, sample results and surveys to the Radiological Assessment Director</p>	
21.	<p>TERMINATE EPIP-4.02:</p> <p>a) Completed By: _____</p> <p style="padding-left: 100px;">Date: _____</p> <p style="padding-left: 100px;">Time: _____</p>	
END		