

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

February 9, 2001

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

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Gentlemen:

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

On May 25, 1999, Virginia Electric and Power Company submitted revisions to several North Anna Power Station Emergency Plan Implementing Procedures (EIPs). It has recently come to our attention that there was a typographical error in Steps 5 and 18 of EIP 4.01. The response not obtained column for Steps 5 and 18 incorrectly directed the user to Step 22 rather than Step 23. The error has been corrected. Please update your North Anna Power Station EIP manual with the enclosed corrected procedure.

Very truly yours,



D. A. Heacock  
Site Vice President

Commitments Stated or Implied: None.

Enclosure

cc: U.S. Nuclear Regulatory Commission (2 copies)  
Region II  
Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
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Mr. M. J. Morgan  
NRC Senior Resident Inspector  
North Anna Power Station

A045

VIRGINIA POWER  
NORTH ANNA POWER STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER EPIP-4.01	PROCEDURE TITLE RADIOLOGICAL ASSESSMENT DIRECTOR CONTROLLING PROCEDURE (With 1 Attachment)	REVISION 16
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PURPOSE

To initially assess emergency conditions, provide recommendations for protective measures, establish an emergency organization and direct Health Physics response to an emergency.

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

ENTRY CONDITIONS

Activation by EPIP-1.01, EMERGENCY MANAGER CONTROLLING PROCEDURE.

APPROVAL RECOMMENDED  <i>Page Kemp</i> CHAIRMAN SNSOC	SNSOC DATE  5-11-99	APPROVAL  <i>[Signature]</i> STATION MANAGER	APPROVAL DATE  5-12-99	EFFECTIVE DATE  5/17/99
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
_____ 4	TRANSITION TO TSC IF EMERGENCY FACILITIES ARE BEING ACTIVATED	GO TO Step 5.
_____ 5	CHECK IF EVENT INVOLVES ACTUAL OR POTENTIAL OFFSITE RELEASE	GO TO Step 23.
_____ 6	INITIATE SAMPLING OF EFFLUENT PATHWAY	<u>IF</u> unable to get effluent sample, <u>THEN</u> initiate source term sampling.
_____ 7	DIRECT INITIATION OF EPIP-4.03, DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE	
_____ 8	DIRECT INITIATION OF EPIP-4.30, USE OF MIDAS CLASS A MODEL	<u>IF</u> MIDAS <u>NOT</u> operable, <u>THEN</u> initiate back-up assessment using desk-top calculations: <ul style="list-style-type: none"> <li>• EPIP-4.08, INITIAL OFFSITE RELEASE ASSESSMENT.</li> <li>• EPIP-4.09, SOURCE TERM ASSESSMENT.</li> <li>• EPIP-4.10, DETERMINATION OF X/Q.</li> </ul>
_____ 9	DIRECT RPS TO INITIATE EPIP-4.02, RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED												
10	DETERMINE EVENT CLASSIFICATION:													
	<table border="1"> <thead> <tr> <th>ASSESSMENT RESULTS</th> <th>CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>Normal range monitors ONSCALE and indicate &lt; 100% TS</td> <td>N/A: Below classification limits</td> </tr> <tr> <td>Normal range monitors ONSCALE and indicate ≥ 100% TS (but &lt; 1000%)</td> <td>Notification of Unusual Event</td> </tr> <tr> <td>% TS calculations indicate ≥ 1000%</td> <td>Alert</td> </tr> <tr> <td>Site Boundary dose ≥ 100 mrem TEDE 500 mrem Thyroid CDE</td> <td>Site Area Emergency</td> </tr> <tr> <td>Site Boundary dose ≥ 1 Rem TEDE or 5 Rem Thyroid CDE</td> <td>General Emergency</td> </tr> </tbody> </table>	ASSESSMENT RESULTS	CLASSIFICATION	Normal range monitors ONSCALE and indicate < 100% TS	N/A: Below classification limits	Normal range monitors ONSCALE and indicate ≥ 100% TS (but < 1000%)	Notification of Unusual Event	% TS calculations indicate ≥ 1000%	Alert	Site Boundary dose ≥ 100 mrem TEDE 500 mrem Thyroid CDE	Site Area Emergency	Site Boundary dose ≥ 1 Rem TEDE or 5 Rem Thyroid CDE	General Emergency	
ASSESSMENT RESULTS	CLASSIFICATION													
Normal range monitors ONSCALE and indicate < 100% TS	N/A: Below classification limits													
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% TS calculations indicate ≥ 1000%	Alert													
Site Boundary dose ≥ 100 mrem TEDE 500 mrem Thyroid CDE	Site Area Emergency													
Site Boundary dose ≥ 1 Rem TEDE or 5 Rem Thyroid CDE	General Emergency													
11	GIVE ASSESSMENT BASED CLASSIFICATION TO SEM													
12	CHECK NOTIFICATION OF UNUSUAL EVENT IN EFFECT OR EVENT IS BELOW CLASSIFICATION LIMITS:	GO TO Step 13.												
	a) Report percent Tech. Spec. and Site Boundary dose rate to Station Emergency Manager  b) Get backup sample of the effluent release path  c) Have sample analyzed using Health Physics Procedures  d) GO TO Step 18 for follow up assessment	b) <u>IF</u> unavailable, <u>THEN</u> GO TO Step 18.												

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
13	<p>INITIATE RESPONSE ACTIONS FOR CONDITION IV LIMITING FAULT ACCIDENT:</p> <ul style="list-style-type: none"> <li>Fuel Handling Accident - GO TO Step 14</li> <li>Steam Generator Tube Rupture - GO TO Step 15</li> <li>Main Steam Line Rupture - GO TO Step 16</li> <li>LOCA - GO TO Step 17</li> </ul>	<p><u>IF</u> event <u>NOT</u> Limiting Fault, <u>THEN</u> GO TO Step 18.</p>
14	<p>INITIATE RESPONSE ACTIONS FOR FUEL HANDLING ACCIDENT:</p> <ul style="list-style-type: none"> <li>a) Recommend evacuation of the Fuel Building and affected containment</li> <li>b) Restrict access until radiological assessment can be made</li> <li>c) Have EPIP-4.06, PERSONNEL MONITORING AND DECONTAMINATION, initiated to monitor individuals evacuated from accident area</li> <li>d) Report dose assessment (MIDAS or desk-top) results to SEM</li> <li>e) GO TO Step 19</li> </ul>	

NOTE: Analysis of accidents involving decayed spent fuel should include consideration of onsite skin dose due to Kr-85.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
15	<p>INITIATE RESPONSE ACTIONS FOR STEAM GENERATOR TUBE RUPTURE:</p> <p>a) Get release parameters from SEM:</p> <ol style="list-style-type: none"> <li>1) Note length of time between initiation of release and when Air Ejector diverted to containment: _____ (min.) (if Air Ejector diverted)</li> <li>2) Number of Steam Generator Relief or Safety Valves which have lifted: _____</li> <li>3) Length of time Relief or Safety Valves remained open: _____ (min.)</li> <li>4) Number of relief or Safety Valves which may potentially lift: _____</li> <li>5) Status of main steam supply to the Steam Driven Auxiliary Feedwater Pump:  Steam isolation from "A" S/G at _____ (time) "B" S/G at _____ "C" S/G at _____</li> <li>6) Current Steam Generator Blowdown pathway: _____</li> <li>7) Length of time until blowdown isolated: _____ (min.)</li> </ol> <p>b) Check Air Ejector - DIVERTED TO CONTAINMENT</p> <p>c) Request immediate evacuation of containment building</p>	<p>b) IF Air Ejector <u>NOT</u> diverted, <u>THEN</u> GO TO Step 15.d.</p>

(STEP 15 CONTINUED ON NEXT PAGE)

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
15	INITIATE RESPONSE ACTIONS FOR STEAM GENERATOR TUBE RUPTURE: (Continued)	d) IF SDAFWP Turbine <u>NOT</u> ISOLATED, <u>THEN</u> do the following:
	d) Check Steam Driven Auxiliary Feedwater Pump (SDAFWP) Turbine - ISOLATED	1) Ask SEM to isolate main steam supply from affected generator to Steam Driven Auxiliary Feedwater Pump.
	e) Disregard SDAFWPT as a release pathway	2) GO TO Step 15.f.
	f) Ask SEM for placement of individual to report the following data:	
	1) Initial monitor readings	
	2) Increase or decrease in Main Steam and SDAFWP exhaust radiation monitors	
	3) Meteorological panel indications	
	g) Report dose assessment (MIDAS or desk-top) results to SEM	
(STEP 15 CONTINUED ON NEXT PAGE)		



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
15	<p>INITIATE RESPONSE ACTIONS FOR STEAM GENERATOR TUBE RUPTURE: (Continued)</p> <p>h) Restrict access in the following areas until survey(s) confirm no radiological hazards:</p> <ul style="list-style-type: none"> <li>• Steam Generator Blowdown Cooler area</li> <li>• Steam Generator Blowdown Lines and Vent area</li> <li>• Steam Generator Relief Valve area</li> <li>• Steam Driven Auxiliary Feedwater Pump Turbine exhaust area</li> <li>• Powdex Area - Turbine Building, 303' level</li> <li>• Main Steam Valve House</li> </ul> <p>i) Consider activation of EPIP-4.23, POST ACCIDENT SAMPLING OF REACTOR COOLANT, to assess core damage</p> <p>j) Consider sampling of Steam Generator Blowdown and Main Steam of affected unit</p> <p>k) Determine potential for liquid release pathway through the Main Steam Safety Valve</p> <p>l) GO TO Step 19</p>	<p>i) <u>IF</u> personnel <u>NOT</u> available, <u>THEN</u> consider sampling upon arrival of additional manpower.</p>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
16	INITIATE RESPONSE ACTIONS FOR MAIN STEAM LINE RUPTURE:	
	a) Ask SEM for release parameters:	
	1) Location of steam break	
	2) Status of actual or potential Main Steam Safety Valve lift	
	3) Number of valves lifted: _____	
	4) Length of time valves remained open: _____(min.)	
	5) Status of Steam Driven Auxiliary Feedwater Pump isolation	
	6) Monitor reading on Main Steam Monitors and Steam Driven Auxiliary Feedwater Pump exhaust radiation monitors	
	b) Check station ventilation vent radiation monitors for release indication	b) <u>IF</u> NO release indicated, <u>THEN</u> do the following:
		1) Notify SEM that potential for source term development will be evaluated because monitors do not indicate release.
		2) GO TO Step 16.e.
	c) Evaluate release consequences:	
	1) Assess onsite dose rate in area of break (after break is isolated)	
	2) Assess offsite dose rate (STEP 16 CONTINUED ON NEXT PAGE)	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
16	INITIATE RESPONSE ACTIONS FOR MAIN STEAM LINE RUPTURE: (Continued)  d) Report dose assessment (MIDAS or desk-top) results to SEM  e) Determine potential for source term to develop inside containment or from Main Steam Relief Valve lift  f) Direct initiation of EPIP-4.22, POST ACCIDENT SAMPLING OF CONTAINMENT AIR  AND  EPIP-4.23, POST ACCIDENT SAMPLING OF REACTOR COOLANT  g) GO TO Step 19	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
17	<p>INITIATE RESPONSE ACTIONS FOR LOCA:</p> <p>a) Ask SEM for location of break</p> <p>b) Ask SEM for status of Containment Isolation - Phase "A" or "B", and any leak paths from the containment</p> <p>c) Recommend evacuation of Auxiliary Building and Safeguards Building to SEM</p> <p style="text-align: center;"><u>AND</u></p> <p>Restrict entry until survey(s) confirm no radiological hazard exist</p> <p>d) Determine CHRRMS readings (RMS-165, 166 or RMS-265, 266)</p> <p>e) Check release occurred through monitored pathway(s)</p> <p>f) Report dose assessment (MIDAS or desk-top) results to SEM</p> <p>g) Direct initiation of EPIP-4.22, POST ACCIDENT SAMPLING OF CONTAINMENT AIR</p> <p style="text-align: center;"><u>AND</u></p> <p>EPIP-4.23, POST ACCIDENT SAMPLING OF REACTOR COOLANT</p> <p>h) GO TO Step 19</p>	<p>e) Do the following:</p> <p>1) Direct initiation of EPIP-4.03, DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE.</p> <p>2) Assess actual (unmonitored) or potential release from containment.</p>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
18	<p>INITIATE RESPONSE ACTIONS FOR RADIOLOGICAL RELEASE:</p> <p>a) Record release pathway(s): _____</p> <p>b) Report dose assessment (MIDAS or desk-top) results to SEM</p> <p>c) Ask SEM to place an individual at the monitor of interest to report increase or decrease in readings</p> <p>d) Get sample of effluent pathway</p> <p>e) Analyze samples using normal Health Physics procedures</p> <p>f) Consider initiation of EPIP-4.26, HIGH LEVEL ACTIVITY SAMPLE ANALYSIS</p> <p>g) Verify that an exposure control individual is available to supply dosimetry</p> <p>h) Have RPS coordinate HP coverage needed for any of the following activities:</p> <ul style="list-style-type: none"> <li>• Damage Control Teams</li> <li>• Emergency Security activities</li> <li>• Access control</li> <li>• Personnel monitoring</li> <li>• Sample analysis</li> </ul> <p>i) Consider having RPS prepare for dispatch of Offsite Monitoring Teams:</p> <ul style="list-style-type: none"> <li>• Team assembly</li> <li>• Preparation of equipment and vehicles</li> </ul>	<p>GO TO Step 23.</p> <p>d) <u>IF</u> sample <u>NOT</u> available, <u>THEN</u> use monitor readings for follow-up assessment.</p>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
_____ 19	ENSURE 40CFR302 EPA NOTIFICATION REQUIREMENTS AND REPORTABLE QUANTITY CALCULATIONS ARE EVALUATED IN ACCORDANCE WITH NORMAL HP PROCEDURES	
_____ 20	CHECK IF RESULTS OF OFFSITE RELEASE ASSESSMENT INDICATE SITE BOUNDARY DOSE RATE $\geq$ 50 mrem/hr TEDE OR 250 mrem/hr THYROID CDE	GO TO Step 22.
_____ 21	DETERMINE OFFSITE PROTECTIVE MEASURES:	
	a) Get an estimate of release duration (hours) from SEM	a) Use 2 hour default.
	b) Direct initiation of EPIP-4.07, PROTECTIVE MEASURES	
	c) Give recommendation to SEM	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
22	CHECK LEOF (CEOF) HAS LEAD FOR OFFSITE DOSE ASSESSMENT	<p>Do the following:</p> <ul style="list-style-type: none"> <li>a) Assure dose assessment result identification number recorded on all pages.</li> <li>b) Record initials on each page to document approval for issuance of results.</li> <li>c) Review offsite release assessment results with SEM.</li> <li>d) Give applicable dose assessment report to State/Local Emergency Communicator: <ul style="list-style-type: none"> <li>• MIDAS Radiological Status Report (2 pages).</li> <li>• EPIP-4.03, DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE, Attachment 1.</li> </ul> </li> <li>e) Provide updated dose assessment results when any of the following occur: <ul style="list-style-type: none"> <li>• Every 60 minutes during Alert or higher classification.</li> <li>• Within 15 minutes after a classification change.</li> <li>• Change in radiological conditions.</li> </ul> </li> </ul>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p><u>NOTE:</u> The following step lists response actions that may have to be coordinated by the RAD. These actions are not listed in order of priority.</p>		
<p>23</p>	<p>REVIEW HP RESPONSE ACTIONS AND INITIATE RESPONSES ON A PRIORITY BASIS:</p> <ul style="list-style-type: none"> <li>• Injured contaminated individual: GO TO Step 24</li> <li>• Give turnover to relief: GO TO Step 25</li> <li>• Establish HP emergency organization: GO TO Step 26</li> <li>• Offsite monitoring: GO TO Step 27</li> <li>• Offsite release assessment: GO TO Step 28</li> <li>• Activate LEOF: GO TO Step 29</li> <li>• Inplant/Onsite monitoring: GO TO Step 30</li> <li>• Access Control: GO TO Step 31</li> <li>• Respiratory Protection: GO TO Step 32</li> <li>• Issue radioprotective drugs: GO TO Step 33</li> <li>• Evacuate non-essential personnel: GO TO Step 34</li> <li>• Emergency Exposure Authorization: Initiate EPIP-4.04, EMERGENCY PERSONNEL RADIATION EXPOSURE</li> <li>• Limiting Fault event (LOCA, Main Steam Line Break, SGTR or Fuel Handling Accident): RETURN TO Step 13</li> <li>• Radiological release: RETURN TO Step 18</li> </ul>	<p><u>WHEN</u> all necessary response actions addressed, <u>THEN</u> GO TO Step 35.</p>



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
	<p><u>NOTE:</u> First Aid considerations must be given priority over decontamination of individual.</p>	
<p>24</p>	<p>INITIATE RESPONSE TO INJURED CONTAMINATED INDIVIDUAL:</p>	
	<p>a) Check if individual requires offsite medical treatment</p>	<p>a) RETURN TO Step 23.</p>
	<p>b) Direct initiation normal HP procedure(s) for response to contaminated injured personnel</p>	
	<p>c) Have RPS review personnel contamination surveys and confirm personnel contaminated</p>	<p>c) RETURN TO Step 23.</p>
	<p>d) Check if clothing removal and/or onsite decontamination eliminates contamination</p>	<p>d) <u>IF</u> individual remains contaminated, <u>THEN</u> do the following:</p>
	<p><u>AND</u></p> <p>Internal contamination is <u>NOT</u> suspected</p>	<p>1) Have HP Technician accompany the individual.</p> <p>2) Recommend transport to MCV.</p>
	<p>e) -RETURN TO Step 23</p>	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
25	<p>GIVE TURNOVER TO RELIEF:</p> <p>a) <u>WHEN</u> a more Senior Health Physics individual arrives onsite</p> <p style="text-align: center;"><u>OR</u></p> <p>Relief - NEEDED, <u>THEN</u> brief successor on:</p> <ul style="list-style-type: none"> <li>• Existing plant conditions</li> <li>• Offsite release assessment performed</li> <li>• Health Physics actions currently underway</li> </ul> <p>b) Notify SEM of position change</p> <p>c) Have relief remain for about 30 minutes to ensure proper turnover</p> <p>d) RETURN TO Step 23</p>	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
26	<p>ESTABLISH HP EMERGENCY ORGANIZATION:</p> <p>a) Establish Dose Assessment Team:</p> <ol style="list-style-type: none"> <li>1) Assign 1 Team Leader and 2 Team Members</li> <li>2) Assign EPIP-4.03, DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE</li> </ol> <p>b) Establish RPS position</p> <p style="text-align: center;"><u>AND</u></p> <p>Assign EPIP-4.02, RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE</p> <p>c) RETURN TO Step 23</p> <p><u>NOTE:</u></p> <ul style="list-style-type: none"> <li>• A minimum of 2 (two) Offsite Monitoring Teams must be dispatched (i.e., sent into the field) upon a Site Area Emergency or General Emergency.</li> <li>• The function of plume tracking/offsite monitoring will be the responsibility of the Radiological Assessment Coordinator upon LEOF activation.</li> </ul>	
27	<p>ASSESS NEED FOR OFFSITE MONITORING:</p> <p>a) Evaluate need for offsite monitoring with Dose Assessment Team Leader</p> <p>b) Check if command and control of Offsite Monitoring Teams has been transferred to the LEOF</p> <p>c) RETURN TO Step 23</p>	<p>b) GO TO Step 27.d.</p>

(STEP 27 CONTINUED ON NEXT PAGE)

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
	<p>27 ASSESS NEED FOR OFFSITE MONITORING: (Continued)</p> <p>d) Have RPS initiate EPIP-4.16, OFFSITE MONITORING</p> <p>e) Evaluate protective measures for offsite teams:</p> <ul style="list-style-type: none"> <li>• TEDE exposure may exceed 10CFR20 annual limits: Initiate EPIP-4.04, EMERGENCY PERSONNEL RADIATION EXPOSURE</li> <li>• Thyroid CDE may exceed 25 Rem: Initiate EPIP-5.07, ADMINISTRATION OF RADIOPROTECTIVE DRUGS</li> <li>• Consider placing teams further downwind</li> </ul> <p>f) Discuss provisions with RPS:</p> <ol style="list-style-type: none"> <li>1) Number of monitoring teams required</li> <li>2) Protective clothing</li> <li>3) Respiratory protection</li> <li>4) Standby assembly of teams, vehicles and equipment</li> <li>5) Notification of TSC prior to team dispatch</li> <li>6) Initial team placement</li> <li>7) Relay of samples/supplies between teams and station</li> <li>8) Relief of teams</li> </ol> <p>g) RETURN TO Step 23</p>	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
28	EVALUATE OFFSITE RELEASE ASSESSMENTS:  a) Check if radiological monitoring and meteorological parameters are available to Dose Assessment Team from ERFCs (MIDAS imports ERFCs data automatically)  b) Review latest offsite release assessments  c) RETURN TO Step 10	a) IF parameters <u>NOT</u> available from ERFCs, <u>THEN</u> give completed copy of Attachment 1 to Dose Assessment Team.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
29	<p>ACTIVATE LEOF:</p> <p>a) Have RPS initiate EPIP-4.18, MONITORING OF LEOF</p> <p>b) Brief RAC on the following parameters:</p> <ul style="list-style-type: none"> <li>Existing plant conditions</li> <li>Current offsite dose projections</li> <li>HP actions underway</li> </ul> <p>c) Have Dose Assessment Team Leader brief RAC on the following parameters:</p> <ul style="list-style-type: none"> <li>Offsite dose assessment</li> <li>Status and location of offsite monitoring teams</li> </ul> <p>d) Have Dose Assessment Team Member continue transmittal of status information to LEOF:</p> <ul style="list-style-type: none"> <li>Meteorological data</li> <li>Monitor data</li> <li>Sample analysis data</li> </ul> <p>e) RETURN TO Step 23</p>	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
30	<p>INITIATE IN-PLANT / ONSITE MONITORING:</p> <p>a) Review parameters with RPS:</p> <ul style="list-style-type: none"> <li>• Plant conditions</li> <li>• Selection of monitoring and sample locations</li> <li>• Protective gear (clothing, respirators), dosimetry and special precautions for teams</li> <li>• Elevated radiation level readings</li> <li>• Access control points</li> <li>• Recent survey results</li> </ul> <p>b) Have RPS assign EPIP-4.14, INPLANT MONITORING</p> <p><u>AND</u></p> <p>EPIP-4.15, ONSITE MONITORING</p> <p><u>AND</u></p> <p>EPIP-4.17, MONITORING OF EMERGENCY RESPONSE FACILITIES</p> <p><u>AND</u></p> <p>EPIP-4.18, MONITORING OF LEOF</p>	
	<p>(STEP 30 CONTINUED ON NEXT PAGE)</p>	





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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
32	<p>EVALUATE RESPIRATORY PROTECTION REQUIREMENTS:</p> <ul style="list-style-type: none"> <li>a) Assess results of air sample analyses</li> <li>b) Recommend relocation of non-essential personnel from areas where high airborne activity is expected or airborne activity &gt; 0.30 DAC</li> <li>c) Initiate EPIP-4.05, RESPIRATORY PROTECTION AND KI ASSESSMENT</li> <li>d) RETURN TO Step 23</li> </ul> <p><u>NOTE:</u> Administration of Potassium Iodine Tables is preferably done prior to exposure, although administration of the drug within 2 hours is considered acceptable.</p>	
33	<p>DETERMINE NEED FOR ISSUANCE OF RADIOPROTECTIVE DRUGS:</p> <ul style="list-style-type: none"> <li>a) Direct initiation of EPIP-4.05, RESPIRATORY PROTECTION AND KI ASSESSMENT</li> <li>b) Determine if actual or projected exposure <math>\geq</math> 25 Rem Thyroid CDE</li> <li>c) Ask SEM for approval to administer radioprotective drugs</li> <li>d) Initiate EPIP-5.07, ADMINISTRATION OF RADIOPROTECTIVE DRUGS</li> <li>e) Get supply of tablets from Health Physics Office</li> <li>f) RETURN TO Step 23</li> </ul>	<ul style="list-style-type: none"> <li>b) RETURN TO Step 23.</li> <li>c) <u>IF</u> approval <u>NOT</u> granted, <u>THEN</u> RETURN TO Step 23.</li> <li>e) Get alternate supply from Surry Power Station.</li> </ul>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
34	<p>EVALUATE NEED TO EVACUATE/SHELTER NON-ESSENTIAL PERSONNEL:</p> <p>a) Ask SEM for duration of release</p> <p>b) Determine onsite exposure of non-essential personnel:</p> <ol style="list-style-type: none"> <li>1) Ask RPS for results of plant surveys and samples</li> <li>2) Check TEDE dose in occupied areas of station</li> <li>3) Determine radioiodine dose commitment from concentration (<math>\mu\text{Ci/cc}</math>) based on air sample data and exposure duration:</li> </ol> <p style="text-align: center;">_____ <math>\mu\text{Ci/cc}</math> x <math>1.57\text{E}+6</math> x _____ hrs = _____ Rem</p> <p>c) Check results indicate onsite exposure greater than or equal to the following:</p> <ul style="list-style-type: none"> <li>• 1 Rem TEDE</li> </ul> <p style="text-align: center;"><u>OR</u></p> <ul style="list-style-type: none"> <li>• 5 Rem Thyroid CDE</li> </ul> <p>d) Recommend that the SEM evacuate non-essential personnel</p>	<p>c) Do one of the following:</p> <ul style="list-style-type: none"> <li>• IF exposure greater than 0.5 Rem TEDE or 1 Rem Thyroid CDE, <u>THEN</u> recommend sheltering</li> </ul> <p style="text-align: center;"><u>AND</u></p> <p>RETURN TO Step 23</p> <p style="text-align: center;"><u>OR</u></p> <ul style="list-style-type: none"> <li>• IF exposure less than 0.5 Rem TEDE and 1 Rem Thyroid CDE, <u>THEN</u> RETURN TO Step 23</li> </ul>

(STEP 34 CONTINUED ON NEXT PAGE)

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
34	EVALUATE NEED TO EVACUATE/SHELTER NON-ESSENTIAL PERSONNEL: (Continued)  e) Assist in evacuation planning:  1) Review offsite release assessments  2) Check plume direction  3) Determine appropriate evacuation route and remote assembly area  f) Have RPS assign EPIP-4.21, EVACUATION AND REMOTE ASSEMBLY AREA MONITORING  g) Keep SEM informed about Emergency Assembly Area monitoring status  h) RETURN TO Step 23	RETURN TO Step 9.
_____ 35	BRIEF SEM AND RPS ON EMERGENCY STATUS AND RADIOLOGICAL TRENDS	
_____ 36	CHECK IF EMERGENCY HAS BEEN TERMINATED	
_____ 37	NOTIFY RPS AND RAC OF EVENT TERMINATION	
_____ 38	CONSIDER EXTENDED USE OF MONITORING TEAMS FOR DATA COLLECTION	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
_____ 39	REVIEW RECOVERY PHASE PARAMETERS WITH SEM: <ul style="list-style-type: none"> <li>• Access control to outside contaminated areas</li> <li>• Return to normal access control throughout site</li> <li>• Additional HP support personnel</li> <li>• Radwaste packaging and disposal</li> <li>• Assistance with decontamination</li> </ul>	
_____ 40	TERMINATE EPIP-4.01: <ul style="list-style-type: none"> <li>• Give completed EIPs, forms, and other applicable records to the Nuclear Emergency Preparedness (TSC Emergency Procedures Coordinator if TSC activated)</li> <li>• By: _____</li> <li>  Date: _____</li> <li>  Time: _____</li> </ul>	

-END-

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DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ UNIT: \_\_\_\_\_

Meteorological Data:

WIND DIRECTION (from): \_\_\_\_\_

SECTORS AFFECTED: \_\_\_\_\_

WIND SPEED (mph): \_\_\_\_\_

PRECIPITATION: \_\_\_\_\_

STABILITY CLASS: \_\_\_\_\_

RADIATION SYSTEM MONITORING DATA

VENT VENT A (VG-104) \_\_\_\_\_ cpm (VG-179) \_\_\_\_\_  $\mu$ Ci/sec

VENT VENT B (VG-113) \_\_\_\_\_ cpm (VG-180) \_\_\_\_\_  $\mu$ Ci/sec

PROCESS VENT (GW-102) \_\_\_\_\_ cpm (GW-178) \_\_\_\_\_  $\mu$ Ci/sec

AIR EJECTOR (SV-121) \_\_\_\_\_ cpm (SV-221) \_\_\_\_\_ cpm

VENT VENT A (VG-174) \_\_\_\_\_ mR/hr

VENT VENT B (VG-175) \_\_\_\_\_ mR/hr

PROCESS VENT (GW-173) \_\_\_\_\_ mR/hr

mR/hr

MAIN STEAM: (MS-170) \_\_\_\_\_ (MS-171) \_\_\_\_\_ (MS-172) \_\_\_\_\_

(MS-270) \_\_\_\_\_ (MS-271) \_\_\_\_\_ (MS-272) \_\_\_\_\_

AFPT: (MS-176) \_\_\_\_\_ (MS-276) \_\_\_\_\_

CONTAINMENT MONITORS:

R/hr

(RMS-161) \_\_\_\_\_ (RMS-164) \_\_\_\_\_ (RMS-261) \_\_\_\_\_ (RMS-264) \_\_\_\_\_

(RMS-162) \_\_\_\_\_ (RMS-165) \_\_\_\_\_ (RMS-262) \_\_\_\_\_ (RMS-265) \_\_\_\_\_

(RMS-163) \_\_\_\_\_ (RMS-166) \_\_\_\_\_ (RMS-263) \_\_\_\_\_ (RMS-266) \_\_\_\_\_