

**Veeco**

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VIRGINIA ELECTRIC AND POWER COMPANY  
Surry Power Station  
P. O. Box 315  
Surry, Virginia 23883

USNRC  
DIVISION OF EMERGENCY  
PREPAREDNESS, I AND E  
MS-AR-5011  
WASHINGTON, DC 20555

September 14, 1983

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>EPID 5.01</u>	<u>Transportation Of Contaminated Injured Personnel</u>
<u>Remove and Destroy</u>	<u>Enter</u>
Entire Old Procedure	Entire Procedure

*E. P. DeWandel*  
E. P. DeWandel  
Records Management Supervisor

EPD/dkp

Attachments

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EPIP-4.20

Health Physics Actions For Transport Of Contaminated  
Injured Personnel

Remove and Destroy

Enter

Pages 1, 2, 3, 4, 5,  
6, 7, 8, 9 & Att. 5  
pg. 1

Pages 1, 2, 3, 4, 5,  
6, 7, 8, 9 & Att. 5  
pg. 1

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

NUMBER	PROCEDURE TITLE	REVISION
EPIP-5.01	TRANSPORTATION OF CONTAMINATED INJURED PERSONNEL (With No Attachments)	02
		PAGE 1 of 4

PURPOSE

To provide actions to be taken when contaminated injured person(s) require transport to an offsite medical facility.

USER

Shift Supervisor or Station Emergency Manager.

ENTRY CONDITIONS

Any one of the following conditions exist:

1. Activation by another EPIP;

OR

2. Contaminated injured person(s) requiring offsite medical treatment;

OR

3. Any time deemed necessary by Shift Supervisor or Station Emergency Manager.

REVISION RECORD

REV. 00	PAGE(S): Entire Procedure	DATE: 07-29-82
REV. 01	PAGE(S): 1 of 4 and 2 of 4	DATE: 04-15-83
REV. 02	PAGE(S): Entire Procedure	DATE: SEP 12 1983
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:
REV.	PAGE(S):	DATE:

APPROVAL RECOMMENDED

*W. L. Hunter, Jr.*

QC REVIEW

*E. L. Gendy*

APPROVED

*J. Wilson*

CHAIRMAN STATION NUCLEAR SAFETY  
AND OPERATING COMMITTEE

DATE

SEP 12 1983

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NUMBER	PROCEDURE TITLE	REVISION
EPIP-5.01	TRANSPORTATION OF CONTAMINATED INJURED PERSONNEL	02
		PAGE 2 of 4

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
1.	INITIATE EPIP-5.01:  a) BY: _____  DATE: _____  TIME: _____	
2.	VERIFY PERSONNEL CONTAMINATED INJURED:  a) Assure HP-3.6.1, <u>Personnel Injury</u> -ACTIVATED	a) Direct Health Physics to initiate HP-3.6.1, <u>Personnel Injury</u> , then <u>GO TO Step 3.</u>
3.	VERIFY AMBULANCE:  a) Insure First-Aid Team Member obtains ambulance key from Security  b) Insure ambulance is brought to required location	a) Verify offsite rescue personnel notified if onsite ambulance <u>NOT</u> available
4.	REQUEST NIGHTINGALE AIR AMBULANCE:  a) If requested by first aid team call Nightingale Air Ambulance at 1-800-527-4354 for transport to Medical College of Virginia	a) <u>IF NOT</u> requested then <u>GO TO Step 5.</u>

NUMBER	PROCEDURE TITLE	REVISION
EPIP-5.01	TRANSPORTATION OF CONTAMINATED INJURED PERSONNEL	02
		PAGE 3 of 4

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
4.	(CONTINUED) b) Provide dispatcher with the following information 1) Your name 2) Title 3) Call back number  NOTE: Nightingale response time to Surry Training Center Field is approximately 25 minutes.	
5.	INITIATE EPIP-4.20, H.P. <u>Actions For Transport of Contaminated Injured Personnel</u>  NOTE: Do not notify Medical College of Virginia (MCV) of contaminated injured personnel being transported until ambulance has left the site.  NOTE: Continue with EPIP-1.01 Step 3 for Classification and Notifications	
6.	INITIATE MCV-VEPCO RADIATION EMERGENCY PLAN:  a) Major radiation emergency- GREATER THAN 10 victims call 9-1-786-0958	a) IF minor radiation emergency- LESS THAN 10 victims call 9-1-786-9834  AND  GO TO Step 5.b.
	b) Provide MCV following information  1) Time of accident	

NUMBER  EPIP-5.01	PROCEDURE TITLE  TRANSPORTATION OF CONTAMINATED INJURED PERSONNEL	REVISION 02  PAGE 4 of 4
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
6.	(CONTINUED)  2) Number of victims  3) Severity of injuries  4) Number of neutron irradiated victims  5) Estimate of dose received by victims  6) Estimated time of arrival at MCV	
7.	NOTIFICATION:  <u>Initiate EPIP-2.01, Notifi-</u> <u>cation of State and Local</u> <u>Governments</u>	
8.	TERMINATE EPIP-5.01:  a) Close-Out  1) COMPLETED BY: _____  DATE: _____  TIME: _____  b) Forward EPIP-5.01 to SNSOC for review	
END		

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 5 Attachments)	02 PAGE 1 of 9

<p><b>PURPOSE</b></p> <p>To provide guidance for health physics personnel accompanying a contaminated injured individual to an offsite medical facility.</p>
<p><b>USER</b></p> <p>Health Physics Technician.</p>
<p><b>ENTRY CONDITIONS</b></p> <p>Any one of the following:</p> <ol style="list-style-type: none"> <li>1. Activation by Station Abnormal Procedure.</li> <li>2. Activation by Station Health Physics Procedure.</li> <li>3. Activation by another EPIP.</li> </ol>

<b>REVISION RECORD</b>		
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: 02-24-83
REV. 02	PAGE(S): 1,2,3,4,5,6,7,8,9,& Att. 5 pg. 1	DATE: SEP 12 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. K... 9-12-83</i></p>	<p><b>APPROVED</b></p> <p><i>John L. ...</i></p> <p>CHAIRMAN STATION NUCLEAR SAFETY AND OPERATING COMMITTEE</p>	<p><b>DATE</b></p> <p>SEP 12 1983</p>
<p><b>QC REVIEW</b></p> <p><i>W. L. K...</i></p>		



NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.20	HEALTH PHYSICS ACTIONS FOR TRANSPORT OF CONTAMINATED INJURED PERSONNEL	02
		PAGE 2 of 9

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
1.	INITIATE PROCEDURE:	
	a) BY: _____	
	DATE: _____	
	TIME: _____	
2.	OBTAIN SURVEY RESULTS:	
	a) Obtain any previous survey results on victim	a) <u>IF NO</u> prior survey results available, <u>GO TO</u> Step 3.
3.	DISCONTINUE DECONTAMINATION:	
	a) <u>IF</u> it has been determined that the individual is to be transported off-site:	
	1) Discontinue decontamination effort	
	<u>AND</u>	
	2) Prepare for transportation	
4.	PREPARE INDIVIDUAL FOR TRANSPORTATION:	
	a) <u>IF</u> individual is grossly contaminated:	a) <u>IF</u> contamination is localized, <u>GO TO</u> Step 4.e.
	1) Continue with this instruction	
	b) Spread blanket or sheet over stretcher	
	c) Place contaminated individual on top of the blanket or sheet	c) <u>IF</u> unable to move individual from stretcher:
		1) Wrap stretcher and individual in blanket or sheet.



NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.20	HEALTH PHYSICS ACTIONS FOR TRANSPORT OF CONTAMINATED INJURED PERSONNEL	02
		PAGE 3 of 9

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
4.	(CONTINUED)	
	d) Wrap blanket or sheet loosely around individual	
	e) <u>IF</u> contamination is localized minimize spread of contamination by covering area with cloth or sheet	e) <u>GO TO</u> Step <u>5</u> .
5.	REPLACE DOSIMETRY:	
	a) Remove individuals:	
	1) Dosimetry	
	<u>and</u>	
	2) Record self-reader on Attachment 1	
	b) Replace TLD and self-reading dosimetry	
	c) Send self-reader and TLD to dose control	
	d) Assess the need for personnel dosimetry for the rescue squad member	d) <u>IF</u> dosimetry <u>NOT</u> needed, <u>GO TO</u> Step <u>6</u> .
	1) Issue dosimetry to squad members	
6.	OBTAIN SUPPLIES:	
	a) Obtain, if possible, the following list of supplies and equipment prior to transport:	
	1) Poly bags	

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.20	HEALTH PHYSICS ACTIONS FOR TRANSPORT OF CONTAMINATED INJURED PERSONNEL	02
		PAGE 4 of 9

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
6.	(CONTINUED)	
	2) Cleaning rags (diapers)	
	3) Gloves and booties	
	4) RM-14 with a HP-210 probe and portable gamma survey instrument	
7.	MINIMIZE SPREAD OF CONTAMINATION:	
	a) Advise the medical personnel of radiation and contamination problems with the individual	
	b) Advise, if necessary, the use of protective clothing (i.e., gloves) while per- forming first aid	
	c) Monitor all equipment or material used on the indi- vidual	
8.	DETERMINE METHOD OF TRANSPORTATION:	
	a) Ambulance used	a) <u>IF</u> Nightingale Helicopter is to be used accompany ambulance to training center field and <u>GO TO</u> Step <u>16.</u>
	b) Direct ambulance driver to take Route <u>10</u> West	
	c) Take I-95 North (Richmond - Petersburg Turnpike)	
	d) When close to Richmond, use Attachment 3 to direct driver to MCV from I-95	

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.20	HEALTH PHYSICS ACTIONS FOR TRANSPORT OF CONTAMINATED INJURED PERSONNEL	02
		PAGE 5 of 9

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
8.	(CONTINUED)	
	1) Leave I-95 North at Exit <u>10</u> , Broad Street	
	2) Turn right on College Street	
	3) Turn left on East Marshall Street	
	4) Continue across 12th Street and then left into MCV parking lot	
9.	PERFORM SURVEY:	
	a) On route to MCV:	
	1) Perform survey of the containment individual	
	2) Record data on Attachments 1 and 2	
	b) Decontaminate the individual as much as medical status allows (i.e. - remove con- taminated clothing)	
10.	RELAY VITAL INFORMATION TO MCV:	
	a) Use the <u>HEAR</u> system in route to provide:	
	1) Medical information	
	2) Radiological information	
	3) Estimated time of arrival	

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.20	HEALTH PHYSICS ACTIONS FOR TRANSPORT OF CONTAMINATED INJURED PERSONNEL	02
		PAGE 6 of 9

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
11.	<p>MONITOR RESCUE SQUAD PERSONNEL:</p> <p>a) Prior to arrival at MCV:</p> <p>1) Monitor the rescue squad members for contamination</p> <p>b) <u>IF</u> members are found to be contaminated:</p> <p>1) Use protective clothing to minimize spread</p> <p style="text-align: center;"><u>AND</u></p> <p>2) Request use of decontamination facilities at MCV upon arrival</p>	<p>b) <u>IF</u> members are <u>NOT</u> contaminated, <u>GO TO</u> Step <u>12</u>.</p>
12.	<p>RELAY RADIOLOGICAL INFORMATION:</p> <p>a) Upon arrival at MCV:</p> <p>1) Relay radiological information to the <u>Incoming Monitoring Specialist</u> in Area <u>A</u> (see Attachment 4)</p> <p style="text-align: center;"><u>OR</u></p> <p>2) Radiation Safety Director in Area <u>B</u></p> <p>b) Request the need for further assistance or information required by the Radiation Safety Director</p> <p>c) Report arrival time at MCV to Surry Control Room (357-7035)</p>	<p>a) <u>IF</u> the Emergency Plan for MCV is <u>NOT</u> initiated:</p> <p>1) Contact the MCV Hospital Superintendent (779-5025)</p>

NUMBER  EPIP-4.20	PROCEDURE TITLE  HEALTH PHYSICS ACTIONS FOR TRANSPORT OF CONTAMINATED INJURED PERSONNEL	REVISION 02  PAGE 7 of 9
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
13.	MONITOR TRANSPORTING VEHICLE:  a) Survey the vehicle inside and outside  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 Radiological Assessment Director upon arrival at the station	
15.	TERMINATE EPIP-4.20:  a) COMPLETED BY: _____  DATE: _____  TIME: _____	

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.20	HEALTH PHYSICS ACTIONS FOR TRANSPORT OF CONTAMINATED INJURED PERSONNEL	02
		PAGE 8 of 9

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
16.	PERFORM SURVEY:	
	a) On route to training center field	
	1) Perform survey of the contaminated individual	
	2) Record data on Attachments 1 and 2	
	b) Decontaminate the individual as much as medical status allows (i.e. - remove contaminated clothing)	
17.	FORWARD SURVEY AND SUPPLIES	
	a) Give Attachment 1 and 2 to Nightingale Crew.	
	b) Give Attachment 5 to Nightingale Crew.	
	c) Give radiological supplies from ambulance to Nightingale Crew.	
	d) Give RM-14 with HP 2.10 probe to Nightingale crew	
	<u>NOTE:</u> HELICOPTER SAFETY RULES	
	1) Never approach aircraft until signaled to do so by the pilot	
	2) Never approach aircraft when blades are in motion	
	3) Never approach aircraft from the rear	
	4) Never open or close doors on aircraft	
	5) Keep the landing area clear of spectators	
	6) Protect your eyes from debris which may be thrown up	





NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.20	GUIDELINES FOR HELICOPTER CREW	02
ATTACHMENT		PAGE
5		1 of 1

THE FOLLOWING GUIDELINES ARE PROVIDED TO HELP YOU MANAGE THE RADIOLOGICAL PART OF THIS EMERGENCY

1. RELAY INFORMATION TO MCV
  - a) Medical Information
  - b) Radiological Information (use survey sheets given you)
  - c) ETA
2. MONITOR YOURSELF AND YOUR SUPPLIES WITH THE INSTRUMENT PROVIDED
3. IF YOU DETECT CONTAMINATION USE PROTECTIVE CLOTHING TO MINIMIZE SPREAD AND REQUEST USE OF DECONTAMINATION FACILITIES AT MCV UPON ARRIVAL
4. RELAY RADIOLOGICAL INFORMATION UPON ARRIVAL AT MCV TO INCOMING MONITORING SPECIALIST OR RADIATION SAFETY DIRECTOR
5. MONITOR TRANSPORTING VEHICLE (HELICOPTER)
  - a) Survey the helicopter inside - instruments or anything that may have come in contact with patient
  - b) Survey the helicopter outside - this should not be necessary unless recommended by VEPCO
  - c) If helicopter is found to be contaminated inside return to Surry Power Station for decontamination
6. PLACE ALL DISPOSABLES THAT CAME INTO CONTACT WITH THE PATIENT IN THE YELLOW PLASTIC BAG, SEAL IT AND RETURN IT TO SURRY POWER STATION
7. RETURN RM-14 WITH HP-210 PROBE TO SURRY POWER STATION.