NO 97887230
REV A

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION

EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS (With 2 Attachments)	03 PAGE 1 of 17

PURPOSE

1. To initially notify state and local governments of the declaration of an emergency;

AND

2. To provide periodic status updates to state and local governments during an emergency;

AND

3. To notify state and local governments of any change in emergency status.

USER

Emergency Communicator or Station Emergency Manager.

ENTRY CONDITIONS

Any one of the following:

1. Emergency is declared;

OR

2. Approximately 30 minutes have passed since last notification;

OR

3. The status of any notification item has changed;

OR

4. Entry directed by Station Emergency Manager.

REVISION RECORD

REV. 00	PAGE(S):	Entire Procedure	DATE:07-29-82
REV. 01	PAGE(S):	8 of 17	DATE:09-02-82
REV. 02	PAGE(S):	1 of 17, 4 of 17, and 9 of 17	DATE:02-03-83
REV. 03	PAGE(S):	1, 7 thru 15, Att. 1, pg. 1; Att. 2, pg. 2	DATE:AUG 2 5 1983
REV.	PAGE(S):		DATE:
REV.	PAGE(S):		DATE:
REV.	PAGE(S):		DATE:

APPROVAL RECOMMENDED	APPROVED	DATE
W R Kanner, Jr	R F Saunders	AUG 2 5 1983
QC REVIEW	CHAIRMAN STATION NUCLEAR SAFETY AND OPERATING COMMITTEE	

X005

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS	00
		PAGE 2 of 17

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

NOTE: The initial notification of an emergency must be made within 15 minutes following declaration of the emergency.

Follow-up reports of emergency conditions should be sent approximately every 30 minutes or when there are changes in emergency conditions.

1. INITIATE PROCEDURE:

   a) INITIATED BY: _____

      TIME: _____

      DATE: _____

2. OBTAIN EMERGENCY REPORT FORM:

   a) Attachment 1, Report of Emergency to State and Local Governments, located at back of this procedure

   a) IF NOT attached, THEN obtain from procedure file.

3. OBTAIN EMERGENCY STATUS INFORMATION:

   a) Obtain information from status board

   a) Obtain from Station Emergency Manager.

   b) Record in Items 1 thru 6 of Attachment 1

NOTE: Wind direction is always given as the compass point, NOT the degrees, the wind is blowing from. Example: Wind direction is from the East North East (ENE).

4. DETERMINE WIND DIRECTION:

   a) IF in Control Room, obtain from Met. Panel

   a) IF NOT, contact Control Room and request data.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

4. (CONTINUED)

b) Read wind direction degrees from "CH.A - Wind Direction Upper" recorder.

b) IF NOT operable, read "CH.A Wind Direction Backup" recorder.

c) Use wind direction degrees AND Table 1 to determine compass point wind is blowing from

TABLE 1

DEGREES		COMPASS POINT	DEGREES		COMPASS POINT	DEGREES		COMPASS POINT
0-11	=	N	170-191	=	S	350-371	=	N
12-34	=	NNE	192-214	=	SSW	372-394	=	NNE
35-56	=	NE	215-236	=	SW	395-416	=	NE
57-79	=	ENE	237-259	=	WSW	417-439	=	ENE
80-101	=	E	260-281	=	W	440-461	=	E
102-124	=	ESE	282-304	=	WNW	462-484	=	ESE
125-146	=	SE	305-326	=	NW	485-506	=	SE
147-169	=	SSE	327-349	=	NNW	507-529	=	SSE
						530-540	=	S

d) Record compass point in item 7 of Attachment 1

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
5.	DETERMINE WIND SPEED:	
	a) IF in Control Room, obtain from Met. Panel	a) IF NOT, contact Control Room and request data.
	b) Read wind speed from "CH.A - Wind Speed Upper" recorder	b) IF NOT operable, read "CH.A - Wind Speed Backup" recorder.
	c) Record wind speed in Item 7 of Attachment 1	
6.	DETERMINE STABILITY CLASS:	
	a) IF in Control Room, obtain from Met. Panel	a) IF NOT, contact Control Room and request data.
	b) Read Delta T from "CH.A - Delta T Upper/Lower" recorder AND Use Table 2 to determine stability class	b) IF NOT operable, read Sigma "CH.B - Sigma Theta" recorder. AND Use Table 3 to determine stability class.

TABLE 2

DELTA T (°C)		STABILITY CLASS	DELTA T (°C)		STABILITY CLASS
-1.11 to -0.66	=	A	-0.16 to +0.55	=	E
-0.66 to -0.61	=	B	+0.55 to +1.38	=	F
-0.61 to -0.55	=	C	+1.38 to +1.66	=	G
-0.55 to -0.16	=	D			

6. (CONTINUED)

TABLE 3

SIGMA THETA (DEGREES)		STABILITY CLASS	SIGMA THETA (DEGREES)		STABILITY CLASS
45.0 to 22.5	=	A	7.5 to 3.8	=	E
22.5 to 17.5	=	B	3.8 to 2.1	=	F
17.5 to 12.5	=	C	2.1 to 0	=	G
12.5 to 7.5	=	D			

c) Record stability class in Item 7 of Attachment 1

7. CHECK RADIOACTIVE RELEASE STATUS:

a) Release - HAS OCCURRED

OR

Release - IS OCCURRING

OR

Release - IS PROJECTED

a) IF NOT, record "None" in item 8 of Attachment 1,

AND

GO TO Step 11.

8. DETERMINE AFFECTED SECTORS:

a) Use wind direction from Item 7 of Attachment 1

AND

8. (CONTINUED)

Table 4 to determine affected sectors

TABLE 4

COMPASS POINT	AFFECTED SECTORS	COMPASS POINT	AFFECTED SECTORS
N	Hotel-Juliett-Kilo	S	Romeo-Alpha-Bravo
NNE	Juliett-Kilo-Lima	SSW	Alpha-Bravo-Charlie
NE	Kilo-Lima-Mike	SW	Bravo-Charlie-Delta
ENE	Lima-Mike-November	WSW	Charlie-Delta-Echo
E	Mike-November-Papa	W	Delta-Echo-Foxtrot
ESE	November-Papa-Quebec	WNW	Echo-Foxtrot-Gulf
SE	Papa-Quebec-Romeo	NW	Foxtrot-Gulf-Hotel
SSE	Quebec-Romeo-Alpha	NNW	Gulf-Hotel-Juliett

NOTE: Affected Sectors and Zones are recorded using alphanumeric designations. Example: The affected Sectors and Zones are B1 and 2, C1 and 2, and D1 and 2.

9. DETERMINE AFFECTED ZONES:

a) Obtain from Station Emergency Manager

a) IF NOT known, assume Zones 1 and 2.

b) Record affected Sectors and Zones in Item 8 of Attachment 1

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

NOTE: During the initial stages of an emergency, prior to manning the Technical Support Center (TSC), the Radiological Assessment Director will be the senior H.P. member onsite, who will be located in the Control Room or H.P. office. After the TSC is manned, the Radiological Assessment Director will be located in the TSC.

10. INFORM RADIOLOGICAL ASSESSMENT DIRECTOR OF MET DATA:

a) Inform Radiological Assessment Director of:

1) Wind direction

2) Wind speed

3) Stability class

11. UPDATE STATUS BOARD:

a) IF status board is being maintained, insure following updated:

a) IF NOT, GO TO next step.

1) Wind direction

2) Wind speed

3) Stability class

4) Affected sectors

12. RECORD REMARKS:

a) Obtain from status board

a) Obtain from Station Emergency Manager.

b) IF there are any remarks, record them in Item 9 of Attachment 1

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS	03
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
13.	RECORD YOUR NAME AND TITLE: a) Record in Item 10 of Attachment 1	
14.	OBTAIN APPROVAL TO TRANSMIT MESSAGE: a) Show completed Attachment 1 to Station Emergency Manager b) Receive approval to transmit	
15.	TRANSMIT MESSAGE TO STATE AND LOCAL GOVERNMENTS: a) Use Insta-Phone	a) IF NOT operable, use normal station telephone. Call following in order listed: ____ 1) Surry County 9-1-294-3156 ____ 2) James City County 9-1-253-2300 ___ 3) State of Virginia 9-1-323-2300 Ask for Duty Officer ____ 4) Isle of Wight 9-357-2151 or 9-357-3191 ____ 5) Williamsburg 9-1-229-1544 ____ 6) Newport News 9-1-247-8513 9-1-247-8514

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
15.	(CONTINUED)	
	____ 7) York County 9-1-898-0222	
	b) Read Attachment 1 exactly as written	
16.	RECORD TIME MESSAGE SENT:	
	a) Record on bottom of Attachment 1	
17.	RETAIN ATTACHMENT:	
	a) Retain Attachment 1	
18.	INFORM STATION EMERGENCY MANAGER:	
	a) Inform Station Emergency Manager that message sent	
19.	VERIFY RELEASE STATUS:	
	a) Item 6 of Attachment 1 indicates: Release - HAS OCCURRED OR Release - IS OCCURRING OR Release - IS PROJECTED	a) IF NOT, GO TO Step 21.

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS	03
		PAGE 10 of 17

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
20.	INFORM STATE THAT REPORT WILL BE SENT:	
	a) Use State EOC ring down phone	a) IF NOT operable, use normal station telephone AND Call State EOC at 9-1-323-2300 AND Ask for Duty Officer.
	b) Read following message: "This is VEPCO Surry Control Room (or TSC). We will transmit a report of radiological conditions shortly."	
	c) GO TO Step 22	
21.	INFORM STATE THAT REPORT WILL NOT BE SENT:	
	a) Use State EOC ring down phone	a) IF NOT operable, use normal station telephone AND Call State EOC at 9-1-323-2300 AND Ask for Duty Officer.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

21. (CONTINUED)

b) Read following message:

"This is VEPCO Surry Control Room (or TSC). Since we have no release of radioactive material, we will not transmit a report of radiological conditions."

c) GO TO Step 38

22. OBTAIN RADIOLOGICAL REPORT FORM:

a) Attachment 2, Report of Radiological Conditions to the State, located at the back of this procedure

a) IF NOT attached to this procedure, obtain from procedure file.

NOTE: The initial report of radiological conditions must be transmitted to the state as soon as possible following the declaration of an emergency involving release of radioactive material.

Follow-up reports should be sent to the state approximately every 30 minutes or when there are changes in radiological conditions.

23. DETERMINE RELEASE DATA:

a) Obtain from status board

a) Obtain from Station Emergency Manager.

b) Record in Items 1 thru 4 of Attachment 2

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
24.	RECORD METEOROLOGICAL DATA:	
	a) Obtain wind direction, wind speed, and stability class from most recent Attachment 1 completed	
	b) Record in item 5 of Attachment 2	
25.	DETERMINE TEMPERATURE:	
	a) IF in Control Room, obtain temperature from "CH.A - Temperature" recorder	a) IF NOT, contact Control Room and request data.
	b) Record temperature in Item 6 of Attachment 2	
26.	DETERMINE PRECIPITATION:	
	a) Determine AND record precipitation from in Item 6 of Attachment 2	
27.	INFORM RADIOLOGICAL ASSESSMENT DIRECTOR:	
	a) Inform Radiological Assessment Director of temperature AND precipitation data	
28.	UPDATE STATUS BOARD:	
	a) IF status board being maintained, insure temperature and precipitation data updated	a) IF NOT, GO TO next step.

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS	03
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
29.	RECORD RADIOLOGICAL DATA:	
	a) Obtain from status board OR Radiological Assessment Director	a) IF NOT known, record as "unknown."
	b) Record in Items 7 through 14 of Attachment 2	
30.	RECORD RECOMMENDED OFFSITE PROTECTIVE ACTIONS:	
	a) Obtain from status board	a) Obtain from Station Emergency Manager
	b) Record in Item 15 of Attachment 2	
31.	RECORD STATION CONDITIONS:	
	a) Obtain from status board	a) Obtain from Station Emergency Manager.
	b) Include status of following: 1) Fuel Failure 2) Containment Leakage 3) RCS Integrity	
	c) Record in Item 16 of Attachment 2	
32.	RECORD YOUR NAME AND TITLE:	
	a) Record in at the bottom of Attachment 2	

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS	03
		PAGE 14 of 17

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
33.	OBTAIN APPROVAL TO TRANSMIT MESSAGE:	
	a) Show completed Attachment 2 to Station Emergency Manager	
	b) Receive approval to transmit	
34.	TRANSMIT MESSAGE TO STATE:	
	a) Use ringdown phone to state EOC	a) IF NOT operable, use normal station telephone AND Call state EOC at 9-1-323-2300 AND Ask for Duty Officer.
	b) Read Attachment 2 exactly as written	
35.	RECORD TIME MESSAGE SENT:	
	a) Record in at the bottom of Attachment 2	
36.	RETAIN ATTACHMENT:	
	a) Retain Attachment 2	
37.	INFORM STATION EMERGENCY MANAGER:	
	a) Inform Station Emergency Manager that message sent	
38.	VERIFY EMERGENCY STATUS:	
	a) Notification of termination of emergency - NOT SENT	a) IF sent, GO TO Step 47.

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS	03
		PAGE 15 of 17

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
39.	RELIEF:	
	a) IF your relief arrives, perform following: 1) Brief your relief on current status of emergency 2) Review last Attachments 1 and 2 completed 3) Transfer this procedure and all completed attachments to your relief	a) IF NOT, GO TO Step 40.
	b) Record relief: Relieved By:_____ Time:_____ Date:_____	
40.	RELOCATION:	
	a) IF in TSC, GO TO Step 41	a) IF NOT in TSC, relocate to TSC when TSC is being manned AND Station Emergency Manager directs you to relocate to TSC.
41.	DETERMINE EOF STATUS:	
	a) Emergency Operations Facility (EOF) - NOT MANNED 1) GO TO Step 46	a) IF EOF manned AND EOF has assumed responsibility for notification of state and local governments, GO TO Step 42.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
42.	ASSUME TSC PHONETALKER DUTIES: a) Man ringdown phone to EOF b) Maintain Emergency Status Board and Radiological Status Board	
43.	MAINTAIN EOF COMMUNICATIONS: a) Keep EOF updated on emergency status	
44.	OBTAIN METEOROLOGICAL DATA: a) Approximately every 30 minutes, request update of meteorological data from the Control Room phonetalker b) Inform EOF AND Radiological Assessment Director of latest meteorological data c) Record on status boards	
45.	VERIFY EMERGENCY STATUS: a) Emergency - NOT TERMINATED 1) GO TO Step 43	a) Emergency - TERMINATED 1) GO TO Step 47.
46.	DETERMINE NEED FOR FOLLOW-UP NOTIFICATION:	

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
46.	(CONTINUED)	
	a) Status of <u>any</u> information on Attachment <u>1</u> or Attachment <u>2</u> - CHANGED	a) <u>IF NOT</u> changed, wait approximately 30 minutes from time last notification form initiated, <u>THEN GO TO</u> Step <u>2</u>.
	1) <u>GO TO</u> Step <u>2</u>.	
47.	TERMINATE EPIP-2.01:	
	a) COMPLETED BY: _____	
	TIME: _____	
	DATE: _____	
	b) Forward <u>all</u> completed EPIPs and attachments to SNSOC for review	

END

No. 9788722Ø

NUMBER EPIP-2.01	ATTACHMENT TITLE	REVISION 03
ATTACHMENT 1	REPORT OF EMERGENCY TO STATE AND LOCAL GOVERNMENTS	PAGE 1 of 1

MESSAGE:

'This is VEPCO Surry ☐ Control Room ☐ TSC ☐ EOF.
Standby for a roll-call followed by an emergency message. Use a Report of Emergency form to copy this message.' (Conduct a roll-call and check the boxes as each party answers.)

☐ Surry County ☐ Virginia State EOC ☐ Williamsburg ☐ York County
☐ James City County ☐ Isle of Wight County ☐ Newport News

'The emergency message is as follows:

'Item 1. Emergency Class: ☐ Notification of Unusual Event
☐ Alert
☐ Site Area Emergency Declared at _____ (24 Hr. time) on __ /__ /__ (date).'
☐ General Emergency
☐ Emergency terminated (if checked, go to Item 9)

'Item 2. Assistance requested: ☐ None.
☐ _____ (no.) Fire Units from _____.
☐ _____ (no.) Police Units from _____.
☐ _____ (no.) Rescue Units from _____.
☐ (Other) _____.'

'Item 3. Emergency response actions underway: ☐ None.
☐ Station monitoring teams dispatched off-site.
☐ Station emergency personnel called in.
☐ (Other) _____.'

'Item 4. Evacuation of on-site personnel: ☐ No.
☐ Yes. Evacuated to _____.'

'Item 5. Prognosis of situation: ☐ Improving.
☐ Worsening.
☐ Stable.
☐ (Other) _____.'

'Item 6. Release of radioactive material: ☐ Has NOT occurred and is NOT projected.
☐ Has occurred and is now terminated.
☐ Is presently occurring.
☐ Is projected to occur.'

'Item 7. Wind direction is from the_____; Wind speed is _____MPH.'

'Item 8. Areas affected are: ☐ None.
☐ Sectors and Zones _____.'

'Item 9. Remarks: _____

_____

_____.'

'Item 10. This is _____ (name) / _____ (position).'

'Please acknowledge receipt of this message.' (Conduct roll-call and check boxes)
☐ Surry County ☐ Virginia State EOC ☐ Williamsburg ☐ York County
☐ James City County ☐ Isle of Wight County ☐ Newport News

'This is VEPCO Surry ☐ Control Room ☐ TSC ☐ EOF out at time _____ (24 hr. time).'

No. 97887220

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-2.01	REPORT OF RADIOLOGICAL CONDITIONS TO THE STATE	03
ATTACHMENT 2		PAGE 1 of 1

NOTE: INFORMATION ON THIS FORM IS FOR STATE USE ONLY AND WILL BE TRANSMITTED TO THE STATE EOC BY THE "RING-DOWN" TELEPHONE CIRCUIT.

"This is VEPCO Surry ☐ Control Room ☐ TSC ☐ EOF.
I have a report of radiological conditions. Use a Report of Radiological Conditions form to copy this message.
Please inform me when you are ready to copy." (Proceed when informed.)

"Item 1. Type of release is ☐ Airborne, released at elevation of _____ ft.
☐ Waterborne
☐ Surface Spill."

"Item 2. Release ☐ began at _____ (24 hr. time)."
☐ is estimated to begin at _____ (24 hr. time)."

"Item 3. Release duration ☐ was _____ hours.
☐ is estimated to be _____ hours."

"Item 4. Time between reactor shutdown and beginning of release was ☐ _____ hours
☐ not applicable."

"Item 5. Wind direction is from the _____. Wind speed is _____ MPH. Stability class is _____."

"Item 6. Temperature is _____ °F. Precipitation form is ☐ None
☐ Rain
☐ Sleet
☐ Snow
☐ (Other) _____."

"Item 7. The Iodine/Noble Gas Ratio is ☐ _____.
☐ Unknown."

"Item 8. Projected total release equivalent Curies of I-131 is ☐ _____ Curies.
☐ Unknown."

"Item 9. Projected total release equivalent Curies of Xe-133 is ☐ _____ Curies.
☐ Unknown."

"Item 10. Actual dose rate at the Site Boundary is ☐ _____ mR/hr.
☐ Unknown."

"Item 11. Estimated dose rates are ☐ _____ mR/hr at Site Boundary.
_____ mR/hr at 2 miles.
_____ mR/hr at 5 miles.
_____ mR/hr at 10 miles.
☐ Unknown."

"Item 12. Projected total integrated Whole Body dose is ☐ _____ mR/hr at Site Boundary.
_____ mR/hr at 2 miles.
_____ mR/hr at 5 miles.
_____ mR/hr at 10 miles.
☐ Unknown."

"Item 13. Projected total integrated Thyroid dose is ☐ _____ mR/hr at Site Boundary.
_____ mR/hr at 2 miles.
_____ mR/hr at 5 miles.
_____ mR/hr at 10 miles.
☐ Unknown."

"Item 14. Actual surface radioactive contamination is ☐ _____ DPM/100 cm^2 in Zone _____.
☐ Unknown."

"Item 15. Recommended off-site protective actions:
☐ None
☐ Sheltering in Sectors and Zones _____
☐ Evacuation in Sectors and Zones _____
☐ (Other) _____."

"Item 16. Station conditions are as follows (Give brief status and cause of emergency):
_____
_____
_____."

"This is _____ (name) / _____ (position) out at time _____ (24 hr. time)."

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

September 16, 1983

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

Serial No. 315
NO/REB/jmj
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, Appendix E, paragraph 50.54(q), revisions to the Surry Power Station Emergency Plan Implementing Procedures, numbers, and subjects as listed on enclosures 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

Mr. D. J. Burke - (NRC - Surry)

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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.

EPIP 2.01 Notification of State and Local Governments

Remove and Destroy	Enter
Entire Procedure dated 02-03-83	Entire Procedure dated 08-25-83