VIRGINIA ELECTRIC AND POWER COMPANY Richmond, Virginia 23261

September 3, 2002

U.S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555 Serial No. 02-566 NAPS/MPW Docket Nos. 50-338 50-339 License Nos. NPF-4 NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY NORTH ANNA POWER STATION UNITS 1 AND 2 REVISIONS TO EMERGENCY PLAN IMPLEMENTING PROCEDURES

Pursuant to 10 CFR 50.54(q), enclosed are recent revisions to North Anna Power Station Emergency Plan Implementing Procedures. The revisions do not implement actions that decrease the effectiveness of our Emergency Plan. The Emergency Plan and Implementing Procedures continue to meet the standards of 10 CFR 50.47(b).

Please update your manual by performing the actions described in Attachment 1, Tabulation of Changes.

Very truly yours,

D. A. Heacock Site Vice President

Commitments Stated or Implied: None.

Enclosures

cc: U.S. Nuclear Regulatory Commission (2 copies) Region II Atlanta Federal Center 61 Forsyth St., SW, Suite 23T85 Atlanta, GA 30303

> Mr. M. J. Morgan NRC Senior Resident Inspector North Anna Power Station

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ATTACHMENT 1 TABULATION OF CHANGES

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VIRGINIA ELECTRIC AND POWER COMPANY REVISION TO NORTH ANNA POWER STATION EMERGENCY PLAN IMPLEMENTING PROCEDURES

Enclosed are recent revisions to North Anna Power Station Emergency Plan Implementing Procedures (EPIP). Please take the following actions in order to keep your manual updated.

REMOVE AND DESTROY	DATED	INSERT	EFFECTIVE DATE
EPIP – 2.01, Rev. 24	09/26/01	EPIP – 2.01, Rev. 25	08/28/02
EPIP – 2.02, Rev. 14	01/29/99	EPIP – 2.02, Rev. 15	08/28/02
EPIP – 3.02, Rev. 19	10/01/99	EPIP – 3.02, Rev. 20	08/28/02
EPIP – 4.10, Rev. 10	04/28/98	EPIP – 4.10, Rev. 11	08/28/02

Emergency Plan Privacy and Proprietary Material has been removed. Reference Generic Letter No. 81-27.

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NORTH ANNA POWER STATION LIST OF NAPS EMERGENCY PLAN IMPLEMENTATION PROCEDURES CHECK DMIS FOR LATEST DOCUMENT INFORMATION

			APPROVAL	EFFECT**	
-	DOCUMENT NUMBER	REV	**DATE**	**DATE**	DOCUMENT TITLE

	EPIP-1.01	036	04/30/02	05/15/02	EMERGENCY MANAGER CONTROLLING PROCEDURE
	EPIP-1.02	011	09/07/99	10/01/99	RESPONSE TO NOTIFICATION OF UNUSUAL EVENT
	EPIP-1.03	014	09/07/99	10/01/99	RESPONSE TO ALERT
	EPIP-1.04	014	09/07/99	10/01/99	RESPONSE TO SITE AREA EMERGENCY
	EPIP-1.05	016	09/07/99	10/01/99	RESPONSE TO GENERAL EMERGENCY
	EPIP-1.06	004	09/05/01	09/05/01	PROTECTIVE ACTION RECOMMENDATIONS
	EPIP-2.01	025	08/13/02	08/28/02	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS
	EPIP-2.02	015	08/13/02	08/28/02	NOTIFICATION OF NRC
	EPIP-3.02	020	08/13/02	08/28/02	ACTIVATION OF TECHNICAL SUPPORT CENTER
	EPIP-3.03	012	12/20/93	01/01/94	ACTIVATION OF OPERATIONAL SUPPORT CENTER
	EPIP-3.04	015	07/14/98	07/20/98	ACTIVATION OF LOCAL EMERGENCY OPERATIONS FACILITY
,	EPIP-3.05	001	09/07/99	10/01/99	AUGMENTATION OF EMERGENCY RESPONSE ORGANIZATION
	EPIP-4.01	018	04/05/02	04/09/02	RADIOLOGICAL ASSESSMENT DIRECTOR CONTROLLING PROCEDURE
	EPIP-4.02	012	07/25/00	08/02/00	RADIATION PROTECTION SUPERVISOR CONTROLLING PROCEDURE
	EPIP-4.03	011	12/20/93	01/01/94	DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE
	EPIP-4.04	009	11/21/94	11/28/94	EMERGENCY PERSONNEL RADIATION EXPOSURE
	EPIP-4.05	009	01/28/00	02/04/00	RESPIRATORY PROTECTION AND KI ASSESSMENT
	EPIP-4.06	009	12/21/95	12/28/95	PERSONNEL MONITORING AND DECONTAMINATION
	EPIP-4.07	014	09/29/00	10/06/00	PROTECTIVE MEASURES
	EPIP-4.08	014	05/10/02	06/19/02	INITIAL OFFSITE RELEASE ASSESSMENT
	EPIP-4.09	013	05/10/02	06/19/02	SOURCE TERM ASSESSMENT
	EPIP-4.10	011	08/13/02	08/28/02	DETERMINATION OF X/Q
	EPIP-4.13	009	09/29/00	10/06/00	OFFSITE RELEASE ASSESSMENT WITH ENVIRONMENTAL DATA

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NORTH ANNA POWER STATION

LIST OF NAPS EMERGENCY PLAN IMPLEMENTATION PROCEDURES

CHECK DMIS FOR LATEST DOCUMENT INFORMATION

		APPROVAL	EFFECT**	
DOCUMENT NUMBER	REV	**DATE**	**DATE**	DOCUMENT TITLE
EPIP-4.14	 007	 12/20/93	01/01/94	INPLANT MONITORING
		10, 20, 55	01/01/34	INFLANT FORTIORING
EPIP-4.15	011	02/18/00	02/28/00	ONSITE MONITORING
EPIP-4.16	014	02/10/00	00 (00 (00	
11 - 4 • 1 0	014	02/18/00	02/28/00	OFFSITE MONITORING
EPIP-4.17	015	06/11/02	06/19/02	MONITORING OF EMERGENCY RESPONSE FACILITIES
EDTD_4 19				
EPIP-4.18	012	06/11/02	06/19/02	MONITORING OF LEOF
EPIP-4.21	008	12/20/93	01/01/94	EVACUATION AND REMOTE ASSEMBLY AREA MONITORING
EPIP-4.22	014	04/05/02	04/09/02	POST ACCIDENT SAMPLING OF CONTAINMENT AIR
EPIP-4.23	014	04/05/02	04/09/02	POST ACCIDENT SAMPLING OF REACTOR COOLANT
EPIP-4.24	012	08/02/02	08/15/02	GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY
EPIP-4.25	008	07/23/93	07/23/93	LIQUID EFFLUENT SAMPLING DURING AN EMERGENCY
EPIP-4.26	011	07/26/01	09/13/01	HIGH LEVEL ACTIVITY SAMPLE ANALYSIS
EPIP-4.28	007	01/09/97	01/14/97	TSC/LEOF RADIATION MONITORING SYSTEM
EPIP-4.30	005	04/05/02	04/09/02	USE OF MIDAS CLASS A MODEL
EPIP-4.31	003	05/20/94	06/20/94	USE OF MIDAS CLASS B MODEL
EPIP-4.33	003	11/28/00	11/30/00	HEALTH PHYSICS NETWORK COMMUNICATIONS
EPIP-4.34	002	02/18/00	02/28/00	FIELD TEAM RADIO OPERATOR INSTRUCTIONS
		• • •		
EPIP-5.01	011	12/11/96	12/17/96	TRANSPORTATION OF CONTAMINATED INJURED PERSONNEL
EPIP-5.03	016	02/18/00	02/28/00	PERSONNEL ACCOUNTABILITY
			,,	
EPIP-5.04	009	08/02/02	08/15/02	ACCESS CONTROL
EPIP-5.05	013	06/25/96	07/02/06	STITE FUNCTION
	-10		07/02/96	SITE EVACUATION
EPIP-5.07	011	07/25/00	08/02/00	ADMINISTRATION OF RADIOPROTECTIVE DRUGS
EPIP-5.08	007	11/00/00	11/20/00	
···· ▲£ = d ♦ V U	007	11/28/00	11/30/00	DAMAGE CONTROL GUIDELINE
EPIP-5.09	004	08/02/02	08/15/02	SECURITY TEAM LEADER CONTROLLING PROCEDURE

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NORTH ANNA POWER STATION

LIST OF NAPS EMERGENCY PLAN IMPLEMENTATION PROCEDURES

CHECK DMIS FOR LATEST DOCUMENT INFORMATION

			APPROVAL	EFFECT**	
-	DOCUMENT NUMBER	REV	**DATE**	**DATE**	DOCUMENT TITLE
	EPIP-6.01	007	05/12/99	05/17/99	RE-ENTRY/RECOVERY GUIDELINE

VIRGINIA POWER NORTH ANNA POWER STATION EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS	25
	(With 3 Attachments)	PAGE
		1 of 18

PURPOSE

To initially notify State and local governments of the declaration of an emergency and to provide status updates related to the event.

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

ENTRY CONDITIONS

Any of the following:

- 1. An emergency has been declared.
- 2. Entry directed by Station Emergency Manager.

Approvals on File

Effective Date 08/28/02

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1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

<u>WHEN</u> emergency conditions change (e.g., classification, event termination, offsite assistance, site evacuation, worsening prognosis, release of radioactive material, Protective Action Recommendation), <u>THEN</u> do one of the following:

- a. <u>IF</u> preparation of a new/revised message will prevent timely transmittal of an initial message reporting an emergency class (i.e., within 15 minutes of classification), <u>THEN</u> do the following:
 - 1) Complete transmittal of current message.
 - 2) RETURN TO Step 3 to prepare new emergency message.
- b. <u>IF</u> new/revised message can be prepared without delaying timely transmittal of an initial message reporting an emergency class. <u>THEN</u> do one the following:
 - Update current message to include changed condition(s).
 - RETURN TO Step 3 to prepare new emergency message.

2. REPORT OF EMERGENCY UPDATE CRITERIA

<u>WHEN</u> scheduled Report of Emergency to State and Local Governments - DUE, <u>THEN</u> RETURN TO Step 3 to prepare new emergency message.

<u>NOTE</u>: Transmittal of a Report of Emergency to State and Local Governments takes precedence over preparing a new radiological status message, responding to requests for meteorological information and turning-over duties to relief.

3. REPORT OF RADIOLOGICAL STATUS CONDITION CHANGE CRITERIA

<u>WHEN</u> updated Radiological Status report provided by radiological assessment organization. <u>THEN</u> RETURN TO Step 15 to prepare new radiological status message.

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

NUMBER	PROCEDUF	RE TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE	AND LOCAL GOVERNMENTS	25
			PAGE 2 of 18
STEP -	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBT	AINED
1 I	NITIATE PROCEDURE:		
•	By:	_	
	Date:		
	Time:		
	Location:		
	HECK FIRST REPORT OF EMERGENCY OR EVENT - REQUIRED	<u>IF</u> procedure previous <u>THEN</u> continue from st identified during rel	ep in effect
<u>NOTE</u> :	 The initial notification of completed within 15 minutes 	any emergency classificatio of declaring the emergency	
	 Items 4 through 8 on Attack report of any emergency cla 	nment 2 may be excluded from assification (including termi	
	 Attachment 1, Instructions State and Local Governments 	for Completing Report of Eme , may be referenced as neede	
(RECORD INFORMATION ON ATTACHMENT REPORT OF EMERGENCY TO STATE AND LOCAL GOVERNMENTS)	Γ2	
4 C	CHECK EMERGENCY – REMAINS IN EFF	ECT <u>IF</u> emergency terminat message sent, <u>THEN</u> do following:	
		a) Record reason even in Item 3.	it terminated
		b) Record "State EOC- of message not app bottom of Attachme	licable" on
	HAVE SEM/RM APPROVE REPORT (initial at top of Attachment 2))	

1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

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5. <u>SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA</u>

NUMBER	PROCEDURE TI	TLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE AND	25	
			PAGE
			3 of 18
STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OB	TAINED
6 RE	CORD TIME NOTIFICATION STARTED		
<u>NOTE</u> :	 Multiple items excluded from a statement, e.g., "Items 4 throu 		
	 Outbound calls through the PBX 8-1-(area code)-###-####. Dire unrestricted telephones by dial code not required for direct ou area). No prefix is required w 	ct outbound calls may b ing 9-1-(area code)-### tbound calls within loc	e made using -#### (area al calling
	END REPORT OF EMERGENCY TO TATE AND LOCAL GOVERNMENTS:		
a)	Check Instaphone - CLEAR OF CONFLICTING MESSAGE TRAFFIC	a) <u>IF</u> Instaphone <u>NOT</u> <u>THEN</u> do the follo	
		1) Call State EOC (Alternate: (8	on DEM ARD 04) 674-2400).
		2) Notify State E Officer of nee message.	-
		3) <u>WHEN</u> Instaphon for message tr <u>THEN</u> GO TO Ste	ansmittal,
b) Use Instaphone to contact State and local Emergency Operations Centers (EOCs)	b) <u>IF</u> Instaphone <u>NOT</u> <u>THEN</u> GO TO Step 1	
c) Perform initial roll-call (check boxes as EOC(s) answer or circle if no response)		
ď) Read Items 1 through 9		
e) Perform acknowledgement roll-call (check boxes as EOC(s) answer or circle if no response)		
	(STEP 7 CONTINUED ON NEXT PAGE)		

1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

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3. REPORT OF RADIOLOGICAL STATUS CONDITION CHANGE CRITERIA

<u>WHEN</u> updated Radiological Status report provided by radiological assessment organization, <u>THEN</u> RETURN TO Step 15 to prepare new radiological status message.

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

NUMBER		PROCEDUI	RE TITLE	Ē		REVIS	ION
EPIP-2.01		NOTIFICATION OF STATE	AND LOC	AL	GOVERNMENTS	25	
						PAG	11
						4 of 1	.8
	_				RESPONSE NOT OBTA	TNED	
- STEP		ACTION/EXPECTED RESPONSE		1		INCO	
7	SE ST	ND REPORT OF EMERGENCY TO ATE AND LOCAL GOVERNMENTS: (Cc	ontinued	1)			
	f)	Repeat any items upon request	;				
	g)	Record date and time transmittal of Items 1 throug 9 completed	Jh				
	h)	Check message reports emerger – REMAINS IN EFFECT	псу		<u>IF</u> State EOC acknow message, <u>THEN</u> GO T(
					<u>IF</u> State EOC did <u>N(</u> acknowledge message the following:		D
					1) Use DEM ARD phon State EOC (Alter 674-2400 (ask fo Officer)).	rnate: (
					<u>IF</u> all means of communications EOC are inopera the following:	with Stat	
					a) Notify SEM/R	Μ.	
					b) GO TO Step 9		
					2) Read Items 1 th	rough 9.	
					3) GO TO Step 9.		

(STEP 7 CONTINUED ON NEXT PAGE)

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1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

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3. REPORT OF RADIOLOGICAL STATUS CONDITION CHANGE CRITERIA

<u>WHEN</u> updated Radiological Status report provided by radiological assessment organization. <u>THEN</u> RETURN TO Step 15 to prepare new radiological status message.

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. <u>SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA</u>

NUMBER	PROCEDUR	E TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE A	25	
			PAGE
			5 of 18
	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTA	
			I
	ND REPORT OF EMERGENCY TO ATE AND LOCAL GOVERNMENTS: (Cor	ntinued)	
i)	Use DEM ARD phone to contact State EOC (Alternate: (804) 674-2400 (ask for Duty Officen	with State EOC are	inoperable,
		1) Use Instaphone 1 Item 10 to local	
		 Record the follo second page of A 	
		 "Transmitted local EOCs." 	Item 10 to
		• Date and time to each local	
		3) GO TO Step 9.	
j)	Check State EOC acknowledged message	j) Read Items 1 throu	gh 9.
k)	Read Items 10 and 11		
1)	Consult with State EOC Duty Officer to determine desired update message schedule		
m)	Record the following at Item	12:	
	• Update message schedule		
	• State EOC Duty Officer's na	me	
	CORD DATE AND TIME TRANSMITTAL ITEMS TO STATE EOC COMPLETE		

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1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

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3. REPORT OF RADIOLOGICAL STATUS CONDITION CHANGE CRITERIA

<u>WHEN</u> updated Radiological Status report provided by radiological assessment organization, <u>THEN</u> RETURN TO Step 15 to prepare new radiological status message.

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

NUMBER	PROCEDURE TITLE REVISI			
EPIP-2.01	NOTIFICATION OF STATE	AND LOCAL GOVERNMENTS	25	
			PAGE	
			6 of 18	
STEP -	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTA	INED	
9 VEF	ACTION/EXPECTED RESPONSE	IF any EOC(s) did NOT acknowledgement roll-of the following: a) Use telephone to car that did not answer b) Refer to the table order of priority alocal EOC phone num Louisa: (540) 9 Spotsylvania: (540) 5 Caroline: (804) 6 Orange: (540) 6 Hanover: (804) 5 c) IF State EOC notifiered Items 1 throu IF N0 communicatio	answer call, <u>THEN</u> do all EOC(s) r. below for and list of mbers: 67-1234 (local) 82-7115 33-5555 72-1234 37-6140 ied, <u>THEN</u> gh 9. ns with State	
		EOC. <u>THEN</u> read Ite 10. d) Record the followi Attachment 2: • Method of contac • Reason Instaphor known).	ng on t.	
10 G0) TO STEP 12	• Date and time of	contact.	

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1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

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3. REPORT OF RADIOLOGICAL STATUS CONDITION CHANGE CRITERIA

<u>WHEN</u> updated Radiological Status report provided by radiological assessment organization, <u>THEN</u> RETURN TO Step 15 to prepare new radiological status message.

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

NUMBER		PROCEDU	RE TITL	E	REVISION
EPIP-2.01	NOTI	FICATION OF STATE	AND LO	CAL GOVERNMENTS	25
					PAGE
					7 of 18
	ACTION/EXPE	CTED RESPONSE	<u> </u>	RESPONSE NOT OBTA	INED
L L_	<u> </u>	<u></u>	1		
NOTE		nnel may assist by telephones.	makin	g notifications simulta	neously
	SEND ATTACHMEN ALTERNATIVE ME				
	a) Call State	EOC:			
	· · · ·	ARD (Alternate: 4-2400, ask for E(icer))C		
	2) Read ent	ire Attachment 2			
	-	ate/time transmitt EOC complete	tal		
	b) Call each l Items 1 thr	ocal EOC and read ough 9:			
[Louisa:	(540) 967-1234 (local)		
	Spotsylvania:	(540) 582-7115			
	Caroline:	(804) 633-5555			
	Orange:	(540) 672-1234			
	Hanover:	(804) 537-6140			
		/time transmittal ough 9 complete	of		
12	NOTIFY SEM/RM	TRANSMITTAL WAS S	ENT		
13	KEEP ATTACHMEN PROCEDURE	T 2 WITH THIS			

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2. <u>REPORT OF EMERGENCY UPDATE CRITERIA</u>

<u>WHEN</u> scheduled Report of Emergency to State and Local Governments - DUE, <u>THEN</u> RETURN TO Step 3 to prepare new emergency message.

<u>NOTE</u>: Transmittal of a Report of Emergency to State and Local Governments takes precedence over preparing a new radiological status message, responding to requests for meteorological information and turning-over duties to relief.

3. REPORT OF RADIOLOGICAL STATUS CONDITION CHANGE CRITERIA

<u>WHEN</u> updated Radiological Status report provided by radiological assessment organization, <u>THEN</u> RETURN TO Step 15 to prepare new radiological status message.

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBT	AINED
EMI GO'	ECK IF ITEM 11 ON REPORT OF ERGENCY TO STATE AND LOCAL VERNMENTS INDICATES REPORT OF DIOLOGICAL CONDITIONS - REQUIRED	GO TO Step 17.	

1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

<u>WHEN</u> emergency conditions change (e.g., classification, event termination, offsite assistance, site evacuation, worsening prognosis, release of radioactive material, Protective Action Recommendation), <u>THEN</u> do one of the following:

- a. <u>IF</u> preparation of a new/revised message will prevent timely transmittal of an initial message reporting an emergency class (i.e., within 15 minutes of classification), <u>THEN</u> do the following:
 - 1) Complete transmittal of current message.
 - 2) RETURN TO Step 3 to prepare new emergency message.
- b. <u>IF</u> new/revised message can be prepared without delaying timely transmittal of an initial message reporting an emergency class, <u>THEN</u> do one the following:
 - Update current message to include changed condition(s).
 - RETURN TO Step 3 to prepare new emergency message.

2. <u>REPORT OF EMERGENCY UPDATE CRITERIA</u>

<u>WHEN</u> scheduled Report of Emergency to State and Local Governments - DUE, <u>THEN</u> RETURN TO Step 3 to prepare new emergency message.

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		r	
	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBT	AINED
15 GE CO a) b)	 The initial Report of Radiolog to the State EOC (or State rep soon as possible following the Follow-up reports should be is or when there are changes in r be measured from time of deliv verbal transmittal completed. The numbering sequence for Rep (Attachment 3) starts at #1 for separate from the numbering set and Local Governments (A T REPORT OF RADIOLOGICAL NDITIONS FOR THE STATE: Check if either of the following Radiological Status reports available: MIDAS Radiological Status report <u>OR</u> EPIP-4.03, DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE, Attachment 1, Radiological Status Get Radiological Status report from radiological assessment organization Check report - COMPLETE 	presentatives in the LEOF/ e release of radioactive m ssued approximately every radiological conditions. very, time facsimile sent, ports of Radiological Cond or the first report issued equence for Reports of Eme	CEOF) as aterial. 60 minutes Time should or time itions and is rgency to radiological nization when available. bout delay. al Status available, n this

	1		<u> </u>
NUMBER	PROCEDURE TITLE		REVISION
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBT	AINED
	 to the State EOC (or State soon as possible following Follow-up reports should be or when there are changes i be measured from time of de verbal transmittal complete The numbering sequence for 	representatives in the LEOF, the release of radioactive m issued approximately every n radiological conditions. livery, time facsimile sent, d. Reports of Radiological Cond for the first report issued sequence for Reports of Eme	CEOF) as naterial. 60 minutes Time should or time litions and is
a)	Check if either of the following Radiological Status reports available:MIDAS Radiological Status report	a) Do the following: 1) Determine from assessment orga report will be	anization when available.
	<u>OR</u>	2) Notify SEM/RM a	about delay.
	 EPIP-4.03, DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE, Attachment 1, Radiological Status 	3) <u>WHEN</u> Radiologic report becomes <u>THEN</u> continue procedure.	available,
b)	Get Radiological Status repor from radiological assessment organization	t	
c)	Check report - COMPLETE	c) <u>IF</u> blank items rea Radiological Stat <u>THEN</u> return repor radiological asse organization for	us report, t to ssment

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1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

<u>WHEN</u> emergency conditions change (e.g., classification, event termination, offsite assistance, site evacuation, worsening prognosis, release of radioactive material. Protective Action Recommendation), <u>THEN</u> do one of the following:

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- b. <u>IF</u> new/revised message can be prepared without delaying timely transmittal of an initial message reporting an emergency class. <u>THEN</u> do one the following:
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IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

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		RESPONSE NOT OBTAINED
	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
16	SEND REPORT OF RADIOLOGICAL CONDITIONS TO THE STATE TO EOC:	
	a) Attach Radiological Status report to Attachment 3	
	b) Follow Attachment 3 Part I, Instructions for North Anna Emergency Communicator	
	c) Check Report of Radiological Conditions to the State – SENT VIA FACSIMILE MACHINE	c) <u>IF</u> Radiological Status report communicated verbally or delivered, <u>THEN</u> GO TO Step 16.g.
	d) Allow 5 minutes for State EOC Duty Officer to verify receipt of message	
	e) Check receipt of message – VERIFIED BY STATE EOC DUTY OFFICER	e) <u>IF</u> receipt of message <u>NOT</u> verified, <u>THEN</u> do the following:
	UFFICER	1) Call State EOC on DEM ARD (Alternate: (804) 674-2400).
		 Ask State EOC Duty Officer if message received.
		3) <u>IF</u> receipt of message verified, <u>THEN</u> GO TO Step 16.f.
		<u>IF</u> message <u>NOT</u> received, <u>THEN</u> do the following:
		a) Follow Attachment 3 Part I Item 6 instructions.
		b) GO TO Step 16.g.
	f) Record Date/Time verified on Attachment 3 Part III Item 1	
	g) Notify SEM/RM transmittal – SEN	Т
	h) Keep Attachment 3 with this procedure	

1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

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2. REPORT OF EMERGENCY UPDATE CRITERIA

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3. REPORT OF RADIOLOGICAL STATUS CONDITION CHANGE CRITERIA

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4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

<u>IF</u> requested to acquire on-site meteorological information, <u>THEN</u> GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

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	ACTION/EXPECTED RESPONSE RESPONSE NOT OBT	
STEP		
<u>NOT</u>	E: Follow-up reports of emergency conditions must be provide and local governments approximately every 60 minutes (fro message notification start time) or when there are change emergency conditions, unless otherwise agreed upon with	om previous es in
17	CHECK ANY OF THE FOLLOWING MESSAGE <u>WHEN</u> Report of Emerg UPDATE CONDITIONS - EXISTS: update conditions sa RETURN TO Step 3.	
	• Status of any of the following Report of Emergency items - CHANGED: <u>WHEN</u> Report of Radio Conditions message u conditions satisfied	pdate
	 Emergency class (including TO Step 15. event termination) Offsite Assistance Required IF termination messa Site Evacuation sent, THEN GO TO Step Prognosis Worsening 	ge has been
	 Radioactive Release Protective Action Recommendation 	
	<u>0R</u>	
	 Updated Radiological Status report provided by radiological assessment organization 	
	<u>OR</u>	
	 Follow-up report due IAW schedule established with State EOC Duty Officer 	
18	RETURN TO APPLICABLE STEP AS INDICATED BELOW:	
	Report of Emergency to State and Local Governments RETUR	N TO Step 3
	Report of Radiological Conditions to the State RETURN	N TO Step 15

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1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

<u>WHEN</u> emergency conditions change (e.g., classification, event termination, offsite assistance, site evacuation, worsening prognosis, release of radioactive material, Protective Action Recommendation), <u>THEN</u> do one of the following:

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IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OB	TAINED	
19 СН	 Data may be obtained from m staff communicating with Co PCS (by selecting WEATHER f Both the PCS WEATHER Group Group Display contain meteo previous 15 minutes. PECK ON-SITE METEOROLOGICAL FORMATION - AVAILABLE 	ntrol Room when PCS not ava rom Group Display Menu). Display and the PCS ERDS RA	ilable) or D / MET ged over the available, g: rmation from ing: Center: r Service 37-8624. e EPIP-4.10 F X/Q. al informat	m •

1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

<u>WHEN</u> emergency conditions change (e.g., classification, event termination, offsite assistance, site evacuation, worsening prognosis, release of radioactive material, Protective Action Recommendation), <u>THEN</u> do one of the following:

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3. REPORT OF RADIOLOGICAL STATUS CONDITION CHANGE CRITERIA

<u>WHEN</u> updated Radiological Status report provided by radiological assessment organization, <u>THEN</u> RETURN TO Step 15 to prepare new radiological status message.

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IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

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STEP	ACTION/EXPECTED R	ESPONSE	RESPONSE NOT OBTAINED
	20 GET ON-SITE METEOROLO INFORMATION AS REQUES a) Refer to specified acquire requested	STED: d step(s) to	
	Temperature	Step 21	
	Wind Speed	Step 22	
	Wind Direction	Step 23	
	Affected Sectors	Steps 23 and 24	
	Stability Class	Step 25	
	indicator. Alter Tower Upper Level	MAIN TOWER R wind speed is the M nates sources are (1	ain Tower Lower Level) Backup Tower, and (2) Main
	22 GET WIND SPEED		

1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

<u>WHEN</u> emergency conditions change (e.g., classification, event termination, offsite assistance, site evacuation, worsening prognosis, release of radioactive material, Protective Action Recommendation), <u>THEN</u> do one of the following:

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3. REPORT OF RADIOLOGICAL STATUS CONDITION CHANGE CRITERIA

<u>WHEN</u> updated Radiological Status report provided by radiological assessment organization, <u>THEN</u> RETURN TO Step 15 to prepare new radiological status message.

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

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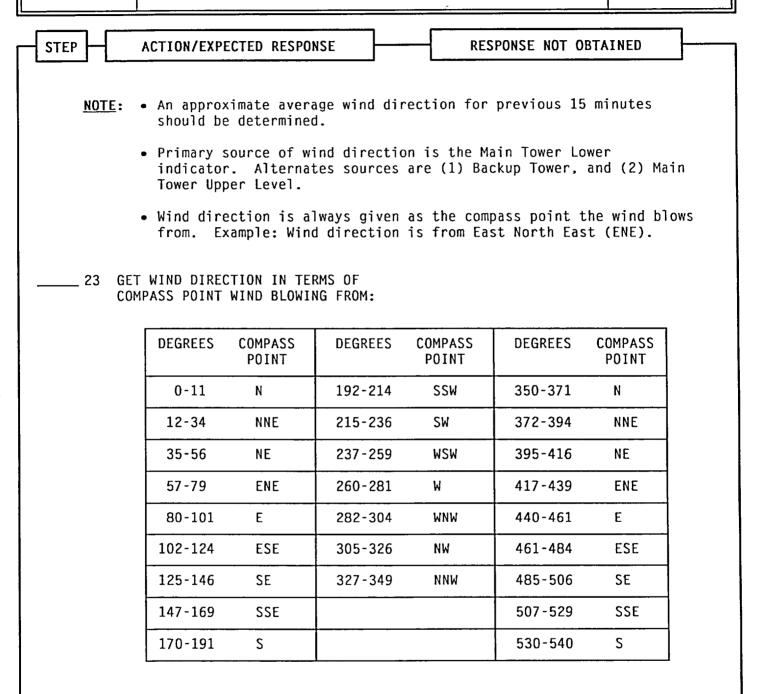
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1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

<u>WHEN</u> emergency conditions change (e.g., classification, event termination, offsite assistance, site evacuation, worsening prognosis, release of radioactive material, Protective Action Recommendation), <u>THEN</u> do one of the following:

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3. REPORT OF RADIOLOGICAL STATUS CONDITION CHANGE CRITERIA

<u>WHEN</u> updated Radiological Status report provided by radiological assessment organization, <u>THEN</u> RETURN TO Step 15 to prepare new radiological status message.

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

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STEP ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: Downwind sectors are recorded using alphabetic designations.

____24 DETERMINE DOWNWIND SECTORS:

COMPASS POINT	DOWNWIND SECTORS	COMPASS POINT	DOWNWIND SECTORS
N	Н-Ј-К	S	R - A - B
NNE	J - K - L	SSW	A - B - C
NE	K - L - M	SW	B - C - D
ENE	L - M - N	WSW	C - D - E
E	M - N - P	W	D - E - F
ESE	N - P - Q	WNW	E - F - G
SE	P - Q - R	NW	F - G - H
SSE	Q - R - A	NNW	G - H - J

1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

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IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

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RESPONSE NOT OBTAINED STEP ACTION/EXPECTED RESPONSE NOTE: • Main Tower Delta T is the preferred source of stability class. Sigma Theta (Backup Tower) is the secondary source. • The value closer to "G" should be used if unable to distinguish Delta T or Sigma Theta value. • Numerical ranges presented below for Delta T and Sigma Theta are less than the range of the chart recorder and indicator in the Control Room. Indications are not expected to read outside the ranges found on these tables. _ 25 DETERMINE STABILITY CLASS: MAIN TOWER DELTA T BACKUP TOWER SIGMA THETA STABILITY CLASS DELTA T (°F) STABILITY CLASS SIGMA THETA (°) ≤ -1.31 ≥ 22.5 Α _ Α = 22.4 to 17.5 В -1.30 to -1.18 = В === С 17.4 to 12.5 -1.17 to -1.04 = С = 12.4 to 7.5 Ð -1.03 to -0.35 D = £ -0.34 to +1.04 Ε 7.4 to 3.8 = _ F +1.05 to +2.77 F 3.7 to 2.1 = = < 2.1 G > +2.77 G = =

CONTINUOUS ACTION PAGE FOR EPIP-2.01

1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

<u>WHEN</u> emergency conditions change (e.g., classification, event termination, offsite assistance, site evacuation, worsening prognosis, release of radioactive material, Protective Action Recommendation), <u>THEN</u> do one of the following:

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<u>WHEN</u> updated Radiological Status report provided by radiological assessment organization, <u>THEN</u> RETURN TO Step 15 to prepare new radiological status message.

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

<u>IF</u> requested to acquire on-site meteorological information, <u>THEN</u> GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

WHEN shift relief or interfacility turnover occurs, THEN GO TO Step 26.

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STEP	ACTION/EXPECTED RESPONSE RESPONSE NOT OBT	AINED
<u>NOT</u>	E: Responsibilities may be transferred to relief within a fa to another facility, e.g., Control Room to TSC, Control R or CEOF, or TSC to LEOF or CEOF.	
26	TRANSFER RESPONSIBILITY FOR STATE/LOCAL NOTIFICATIONS:	
	a) Notify SEM (or RM if in LEOF/CEOF)	
	b) Tell relief Emergency Communicator about current event status	
	c) Review most recently completed Attachments 2 and 3 with relief	
	d) Tell relief Emergency Communicator when next notification is due	
	e) Provide this procedure and all attachments or send copies of attachments to relief	
	<pre>f) Have relief/turnover recorded in event log</pre>	
	g) Check - INTERFACILITY TURNOVER g) RETURN TO step in HAS BEEN COMPLETED to relief.	effect prior

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CONTINUOUS ACTION PAGE FOR EPIP-2.01

1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

<u>WHEN</u> emergency conditions change (e.g., classification, event termination, offsite assistance, site evacuation, worsening prognosis, release of radioactive material, Protective Action Recommendation), <u>THEN</u> do one of the following:

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3. REPORT OF RADIOLOGICAL STATUS CONDITION CHANGE CRITERIA

<u>WHEN</u> updated Radiological Status report provided by radiological assessment organization, <u>THEN</u> RETURN TO Step 15 to prepare new radiological status message.

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

IF requested to acquire on-site meteorological information, THEN GO TO Step 19.

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

WHEN shift relief or interfacility turnover occurs, THEN GO TO Step 26.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OF	TAINED
27 TE	ERMINATE PROCEDURE:		
•	Give EPIP-2.01, forms and other applicable records to the Control Room STA (TSC Emergency Procedures Coordinator or EOF Services Coordinator)		
•	Completed by:		
	Date:		
	Time:		
	-END-		
			-

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NUMBER	ATTACHMENT TITLE	REVISION
EPIP-2.01	INSTRUCTIONS FOR COMPLETING REPORT OF EMERGENCY TO	25
ATTACHMENT	STATE AND LOCAL GOVERNMENTS	PAGE
1		1 of 7
<u>Form_Fielc</u>	Instructions for Preparing Form:	
Approval (SEM or RM	Leave blank. (The Station Emergency Manager (SEM) or Manager (RM) signs/initials this space after message	Recovery is drafted.)
Message #	Record sequential message number on pages 1 and 2.	
	A single numbering sequence is used for Reports of Em State and Local Governments (Attachment 2) from the i classification until the Emergency Plan is exited. T sequence for Reports of Radiological Conditions to th (Attachment 3) is separate.	nitial The numbering
Notificat [:] Start Time		inning
Location	Check off facility from which notification will be ma	ide.
Roll Call	Leave blank. (Check off recipients of the emergency they answer the roll call.)	message when
	<u>NOTE</u> : • Information to complete Items 1-2 and 4-7 of SEM/RM.	obtained from
	 Items 4, 5, 6, 7 and/or 8 are optional for reporting initial entry into the Emergency emergency class change, including emergency and may be checked 'Excluded from this mess 	Plan or an y termination
·	 Inclusion of optional items, e.g., Item 6, of onsite personnel, should be considered a result in avoiding an immediate follow-up a 	when it can
Item 1	Emergency Class.	
	<u>IF</u> message initial or follow-up report, <u>THEN</u> do the	following:
	a. Check block for highest applicable emergency cla	\$\$.
	b. Enter time (0001-2400) and date of declaration.	
	<u>IF</u> initial message is also a termination report, <u>THE</u> time of termination Item 3.	<u>N</u> record
	<u>IF</u> message emergency termination report, <u>THEN</u> do the	following:
	a. Check Emergency Terminated block.	
	b. Complete Items 2, 3 and 9.	

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EPIP-2.01	INSTRUCTIONS FOR COMPLETING REPORT OF EMERGENCY TO	25
ATTACHMENT	STATE AND LOCAL GOVERNMENTS	PAGE
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<u>Form Field</u>	Instructions for Preparing Form:	
Item 2	Release of radioactive material.	
	The SEM/RM determines whether a release of radioactive is occurring, has occurred, has occurred and has been or is projected to occur based on plant indications a consultation with the RAD/RAC. For the purposes of e messages, release refers to a radiological release at to the emergency event.	n terminated, and/or emergency
Item 3	Remarks / Description of event.	
	Write Remarks / Description of event in plain languag technical jargon, abbreviations and acronyms.	ge. Avoid
	Explain any change in the prognosis of situation (Iterreported in the previous message.	em 7)
	<u>IF</u> Item 2 indicated a radiological release is occurred occurred, <u>THEN</u> remarks should be entered placing the context, e.g., release is estimated to be confined to release estimated to be within normal plant limits, dose rates are below offsite protective action levels	release in o the site, site boundary
	Avoid repeating Remarks / Description of event from message.	the previous
	The description should describe current conditions at the report approved by the SEM/RM.	t the time
Item 4	Assistance requested.	
	[] Excluded from this message may be checked for the report of any emergency class only (including termina	e initial ation).
	This item documents requests that have been made for assistance from off-site organizations such as from departments, rescue squads or law enforcement agenci- local law enforcement, Virginia State Police, Federa Investigation, etc.). <u>This item is NOT for requesti</u> A check block for other off-site organizations and s a description of the off-site organization is provid Department of Energy.	fire es, including l Bureau of <u>ng assistance.</u> pace to record
	Continue to record requests for assistance until the been canceled or off-site assistance has been releas ambulance, continue to record request for assistance ambulance has been released from the hospital.	ed. For an

EPIP-2.01 ATTACHMENT

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ATTACHMENT TITLE

INSTRUCTIONS FOR COMPLETING REPORT OF EMERGENCY TO STATE AND LOCAL GOVERNMENTS

3 of 7

Form Field Instructions for Preparing Form:

Item 5 Emergency Response Actions Underway.

[] Excluded from this message may be checked for the initial report of any emergency class only (including termination).

Check blocks are provided for the following:

[] Station monitoring teams dispatched offsite (teams may be dispatched for any emergency classification, but dispatch is generally required at the Site Area Emergency and General Emergency classifications)

[] Station emergency personnel called in (unless special circumstances are involved, station emergency personnel are called-in at an Alert or higher emergency class, but may be called-in for a Notification of Unusual Event)

[] Other (examples of other emergency response actions include dispatch of damage control teams, relocation of personnel from selected areas, etc.)

Item 6 Evacuation of onsite personnel.

[] Excluded from this message may be checked for the initial report of any emergency class only (including termination).

The Remote Assembly Area is selected in accordance with EPIP-5.05. SITE EVACUATION.

An "Other" check block is provided in case personnel are evacuated to different location, e.g., local evacuation assembly center.

Early release of personnel, i.e., non-essential personnel are sent home early, is reported in Item 3, Remarks / Description of event.

Continue to record evacuation of onsite personnel until evacuated personnel released from the applicable Remote Assembly Area.

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-2.01	INSTRUCTIONS FOR COMPLETING REPORT OF EMERGENCY TO	25
ATTACHMENT	STATE AND LOCAL GOVERNMENTS	PAGE
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FULL FIELD INSCREEDED TO FUEL FOR THE FOR THE FOR THE FOR THE FUEL FOR THE FOR THE FOR THE FOR THE FUEL FOR THE FUEL FOR THE	Form Field	Instructions for	r Preparing Form:
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<u>NOTE</u>: Changes in the prognosis of situation should be explained in Item 3, Remarks / Description of event.

Item 7 Prognosis of situation.

[] Excluded from this message may be checked for the initial report of any emergency class only (including termination).

The "Other" check block can be used to provide an indication of anticipated event termination, e.g., emergency will be terminated when unit reaches cold shutdown at or about 1700 hours.

Item 8 Meteorological data.

[] Excluded from this message may be checked for the initial report of any emergency class only (including termination).

[] Not available may be checked when waiting for meteorological information will delay transmission of a message. Efforts to obtain meteorological data from alternative sources should not delay sending emergency messages.

Check [] Based on onsite measurements when meteorological information is acquired from onsite instruments.

Onsite measurements may be acquired from any of the following:

- PCS WEATHER Group Display (15-minute average)
- PCS ERDS RAD / MET Group Display (15-minute average)
- Control Room meteorological panel charts (approximate average for previous 15 minutes) (communicate with Control Room staff when PCS not available in other facilities)

[Instructions for Item 8, Meteorological data, continued on following page.]

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NUMBER	ATTACHMENT TITLE	REVISION
EPIP-2.01	INSTRUCTIONS FOR COMPLETING REPORT OF EMERGENCY TO	25
ATTACHMENT	STATE AND LOCAL GOVERNMENTS	PAGE
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······································		
<u>Form Field</u>	Instructions for Preparing Form:	
I tem 8 [continued	Meteorological data.	
	Multiple indications of wind direction and wind speed available. The priority for using these indications	
	1 Main Tower Lower Level	
	2 Backup Tower	
	3 Main Tower Upper Level	
	Check [] Based on offsite regional data when onsite are NOT available. Regional wind speed and wind dire may be obtained from the following in the order indic	ection data
	1 Company Weather Center, (804) 273-3025	
	2 National Weather Service (NWS), (800) 737-8624	
	Use the following table to convert indicated degree r compass point wind blowing from.	reading to
	DEGREES COMPASS POINT	
	0-11 or 350-371 N (NORTH) 12-34 or 372-394 NNE (NORTH NORTH) 35-56 or 395-416 NE (NORTH NORTH) 35-56 or 395-416 NE (NORTH NORTH) 35-56 or 395-416 NE (NORTHEAST) 57-79 or 417-439 ENE (EAST NORTHEAST) 80-101 or 440-461 E (EAST) 102-124 or 462-484 ESE (EAST SOUTHEAST) 125-146 or 485-506 SE (SOUTHEAST) 147-169 or 507-529 SSE (SOUTH SOUTH) 192-214 SSW (SOUTH SOUTH) SUTH SOUTH) 215-236 SW (SOUTHWEST) SW (WEST SOUTHWEST) 237-259 WSW (WEST NORTHWEST) NW (NORTHWEST) 282-304 WNW (WEST NORTHWEST) NW (NORTH NORTHWEST) 327-349 NNW (NORTH NORTH	AST) AST) EAST) WEST) EST) WEST)
	Record wind direction in compass point wind is plowing Record wind speed.	ny Trom.

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ATTACHMENT TITLE

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<u>Form Field</u>	Instructions for Preparing Form:
Item 9	Emergency Communicator identification.
	Enter name of Emergency Communicator.
Roll Call	Leave blank. (Check off recipients of the emergency message when they answer the roll call.)
Message Close-Out	Leave blank. (Check off facility from which notification was made and enter date/time after transmitting Items 1-9.)
Item 10	Recommended offsite protective actions.
	<u>IF</u> Item 1 indicates the emergency class is a Notification of Unusual Event, Alert or Site Area Emergency, <u>THEN</u> check [] None.
	<u>IF</u> Item 1 indicates the emergency class is a General Emergency, <u>THEN</u> copy recommended offsite protective action from EPIP-1.06, PROTECTIVE ACTION RECOMMENDATION, Attachment 3, in Item 10.
Item 11	Report of Radiological Conditions.
	<u>IF</u> Item 2 indicates a release of radioactive material has NOT occurred and is NOT projected, <u>THEN</u> check [] We will not issue a Report of Radiological Conditions.
	<u>IF</u> a Report of Radiological Conditions is required <u>AND</u> all the following conditions are met:
	• LEOF (or CEOF) - RESPONSIBLE FOR STATE NOTIFICATIONS
	 Department of Emergency Management - PRESENT
	 Department of Health (Radiological Health Programs) representative - PRESENT
	<u>THEN</u> check [] We will provide the Report of Radiological Conditions to the State representatives in the LEOF (CEOF).
	<u>IF</u> a Report of Radiological Conditions is required <u>AND</u> has to be transmitted to the State EOC, <u>THEN</u> check [] We will transmit a Report of Radiological Conditions to the State EOC.

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EPIP-2.01	INSTRUCTIONS FOR COMPLETING REPORT OF EMERGENCY TO	25
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Form Field	Instructions for Preparing Form:
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Item 12 Update schedule and name of State EOC Duty Officer.

Leave blank. (Update schedule and identification of State EOC Duty Officer is determined in consultation with the State EOC Duty Officer after message is transmitted.)

Message Leave blank. (Check off facility from which notification was Close-Out made and enter date/time after transmitting Items 10-12.)

NUMBER	ATTACHMENT T	ATTACHMENT TITLE		
EPIP-2.01 ATTACHMEN			25 PAGE	
2			1 of 2	
	(SEM or RM):; MESSAGE #			
an emerger	orth Anna Power Station [] Control Room [] TSC [] L ncy message. Use a Report of Emergency form to copy t arty answers)	EOF [] CEOF. Standby for a roll-ca his message. (Conduct a roll-call a	ll followed by nd check boxes	
	[] Louisa County [] State EOC [] Spotsylvania County [] Hanover County	[] Orange County [] Caroline County		
The emerge	ency message is as follows: (READ SLOWLY)			
Item 1:	Emergency Class:			
	[] Notification of Unusual Event [] Site Area Emer [] Alert [] General Emerg			
	[] Emergency Terminated			
Item 2:	Release of radioactive material: [] Has NOT occurred and is NOT projected [] [] [] Has occurred and is now terminated [] []	s presently occurring s projected to occur		
Item 3:	Remarks / Description of event:			
NOTE:	Items 4 - 8 may be excluded from initial message repor	ting any emergency class (including	termination).	
	Assistance requested:	[] Excluded from this messag		
	[] None (#) Fire Units from			
	(#) Fire Units from			
	(#) Rescue Units from [] Other			
Item 5:	Emergency response actions underway:	[] Excluded from this messag	je	
	[] None [] Station monitoring teams dispatched offsite [] Station emergency personnel called in [] Other			
	Evacuation of onsite personnel:	[] Excluded from this messag	ge	
Item 6:	[] No			
Item 6:	[] Yes, evacuated to: [] Primary Remote Assembly A [] Secondary Remote Assembly			
ltem 6:	[] Yes, evacuated to: [] Primary Remote Assembly A [] Secondary Remote Assembly	Area	 GE)	

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NUMBER		ATTACHMEN	T TITLE		REVISION
EPIP-2.01		REPORT OF EME			25
ATTACHMENT		STATE AND LOCAL	GOVERNMENTS		PAGE
2					2 of 2
				······································	1
				MESSA	GE #
ltem 7:	Prognosis of situation:		[] Excluded	from this message	
1660 7.	[] Improving []	Stable			
	[] Worsening []	Other			
ltem 8:	Meteorological data is:		[] Excluded	from this message	
ILCH O:	[] Based on onsite measure				
	[] Wind direction is from			ph	
	[] Not available				
Item 9:	This is (name)	/E	Emergency Communicator.		
46Cm J.	Please acknowledge receip				
			[] Orange County		
	[] Louisa County [] Spotsylvania County	[] State EOC [] Hanover County	[] Orange County [] Caroline Cour		
				-	
					•
This is No	rth Anna Power Station []	Control Room [] TSC	[] LEOF [] CEOF out a		
NOTE:	he remainder of this repor	t is not transmitted w	hen the message report:	(24-hr time) s emergency termina	(date) atlon. When
<u>Note</u> : 1		t is not transmitted w information is for sta	hen the message report: te use only. Transmit	(24-hr time) s emergency termina to State EOC using	(date) atlon. When g the DEM ARD.
<u>Note</u> : 1	he remainder of this repor ransmitted, the following	t is not transmitted w information is for sta Control Room [] TSC	hen the message report: te use only. Transmit	(24-hr time) s emergency termina to State EOC using	(date) atlon. When g the DEM ARD.
<u>NOTE</u> : 1 1 This is No	The remainder of this repor ransmitted, the following with Anna Power Station []	t is not transmitted w information is for sta Control Room [] TSC	hen the message report: te use only. Transmit	(24-hr time) s emergency termina to State EOC using	(date) atlon. When g the DEM ARD.
<u>NOTE</u> : 1 1 This is No	The remainder of this repor cransmitted, the following worth Anna Power Station [] Recommended offsite prote	t is not transmitted w information is for sta Control Room [] TSC ective actions are:	hen the message report: te use only. Transmit [] LEOF [] CEOF cont	(24-hr time) s emergency termina to State EOC using	(date) atlon. When g the DEM ARD.
<u>NOTE</u> : 1 1 This is No	The remainder of this repor cransmitted, the following orth Anna Power Station [] Recommended offsite prote [] None [] Standard: Evacuate 30 [] Expanded:	t is not transmitted w information is for sta Control Room [] TSC ective actions are: 50° from <u>0</u> miles to	hen the message report: te use only. Transmit [] LEOF [] CEOF cont	(24-hr time) s emergency termina to State EOC using	(date) atlon. When g the DEM ARD.
<u>NOTE</u> : 1 1 This is No	The remainder of this report ransmitted, the following with Anna Power Station [] Recommended offsite prote [] None [] Standard: Evacuate 36 [] Expanded: [] Expanded: [] Evacuate 360° from	t is not transmitted w information is for sta Control Room [] TSC ective actions are: 50° from <u>0</u> miles to <u>0</u> miles to <u>5</u> m	hen the message report: te use only. Transmit [] LEOF [] CEOF cont	(24-hr time) s emergency termina to State EOC using	(date) atlon. When g the DEM ARD.
<u>NOTE</u> : 1 1 This is No	The remainder of this repor ransmitted, the following orth Anna Power Station [] Recommended offsite prote [] None [] Standard: Evacuate 36 [] Expanded: [] Evacuate 360° from [] Evacuate 360° from	t is not transmitted w information is for sta Control Room [] TSC ective actions are: 50° from <u>0</u> miles to <u>0</u> miles to <u>5</u> m <u>5</u> miles to <u>5</u> m	hen the message report: te use only. Transmit [] LEOF [] CEOF cont	(24-hr time) s emergency termina to State EOC using inuing the emergenc	(date) atlon. When g the DEM ARD.
<u>NOTE</u> : 1 1 This is No	The remainder of this repor ransmitted, the following orth Anna Power Station [] Recommended offsite prote [] None [] Standard: Evacuate 36 [] Expanded: [] Evacuate 360° from [] Evacuate sectors _ [] Shelter 360° from .	t is not transmitted w information is for sta Control Room [] TSC ective actions are: 50° from <u>0</u> miles to <u>0</u> miles to <u>5</u> m <u>5</u> miles to <u>5</u> m miles to <u>m</u>	hen the message reports te use only. Transmit [] LEOF [] CEOF cont 	(24-hr time) s emergency termina to State EOC using inuing the emergence miles.	(date) atlon. When g the DEM ARD.
<u>NOTE</u> : 1 1 This is No	The remainder of this repor ransmitted, the following orth Anna Power Station [] Recommended offsite prote [] None [] Standard: Evacuate 36 [] Expanded: [] Evacuate 360° from [] Evacuate 360° from [] Evacuate sectors _ [] Shelter 360° from . [] Shelter sectors _	t is not transmitted w information is for sta Control Room [] TSC ective actions are: 50° from <u>0</u> miles to <u>0</u> miles to <u>5</u> m <u>5</u> miles to <u>5</u> m m <u>100</u> miles to <u>5</u> m m <u>100</u> miles to <u>5</u> m m <u>100</u> miles to <u>5</u> m	hen the message report: te use only. Transmit [] LEOF [] CEOF cont	(24-hr time) s emergency termina to State EOC using inuing the emergence miles.	(date) atlon. When g the DEM ARD.
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<u>NOTE</u> : 1 1 This is No Item 10:	The remainder of this repor ransmitted, the following orth Anna Power Station [] Recommended offsite prote [] None [] Standard: Evacuate 36 [] Expanded: [] Evacuate 360° from [] Evacuate sectors _ [] Shelter 360° from [] Shelter unaffected	t is not transmitted w information is for sta Control Room [] TSC ective actions are: 50° from miles to miles to m miles to from miles to miles to mile	hen the message reports te use only. Transmit [] LEOF [] CEOF cont 	(24-hr time) s emergency termina to State EOC using inuing the emergence miles.	(date) atlon. When g the DEM ARD.
<u>NOTE</u> : 1 1 This is No	The remainder of this repor ransmitted, the following orth Anna Power Station [] Recommended offsite prote [] None [] Standard: Evacuate 36 [] Expanded: [] Evacuate 360° from [] Evacuate sectors [] Shelter 360° from [] Shelter sectors [] Shelter unaffected [] We will transmit a Re	t is not transmitted w information is for sta Control Room [] TSC ective actions are: 50° from miles to miles to m miles to from miles to from sectors from miles	hen the message report: te use only. Transmit [] LEOF [] CEOF cont 	(24-hr time) s emergency termina to State EOC using inuing the emergend miles. hiles.	(date) ation. When g the DEM ARD. cy message.
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<u>NOTE</u> : 1 1 This is No Item 10:	The remainder of this repor ransmitted, the following orth Anna Power Station [] Recommended offsite prote [] None [] Standard: Evacuate 36 [] Expanded: [] Expanded: [] Evacuate 360° from [] Evacuate 360° from [] Shelter 360° from [] Shelter sectors [] Shelter unaffected [] We will transmit a Re [] We will provide the R	t is not transmitted w information is for sta Control Room [] TSC ective actions are: 50° from miles to miles to m miles to m miles to from sectors from from sectors from miles port of Radiological for teport of Radiological for	hen the message report: te use only. Transmit [] LEOF [] CEOF cont 	(24-hr time) s emergency termina to State EOC using inuing the emergence miles. hiles. EOC. e representatives i	(date) ation. When g the DEM ARD. cy message.
NOTE: 1 1 This is No Item 10: Item 11:	The remainder of this repor ransmitted, the following orth Anna Power Station [] Recommended offsite prote [] None [] Standard: Evacuate 36 [] Expanded: [] Evacuate 360° from [] Evacuate 360° from [] Shelter 360° from [] Shelter sectors [] Shelter unaffected [] We will transmit a Re [] We will provide the R [] We will not issue a R	t is not transmitted w information is for sta Control Room [] TSC ective actions are: 50° from miles to miles to miles to miles to from miles to miles to miles to miles to from sectors from from sectors from from teport of Radiological for teport of Radiological for	hen the message report: te use only. Transmit [] LEOF [] CEOF cont 	(24-hr time) s emergency termina to State EOC using inuing the emergence miles. niles. EOC. e representatives f	(date) ation. When g the DEM ARD. cy message.
NOTE: 1 1 This is No Item 10: Item 11: Item 12:	The remainder of this repor ransmitted, the following with Anna Power Station [] Recommended offsite protec [] None [] Standard: Evacuate 36 [] Expanded: [] Evacuate 360° from [] Evacuate 360° from [] Shelter 360° from [] Shelter sectors [] Shelter unaffected [] We will transmit a Re [] We will provide the R [] We will not issue a R Update schedule: [] 60 m	t is not transmitted w information is for sta Control Room [] TSC ective actions are: 50° from miles to miles to miles to from from from sectors from from sectors from miles to from the sector of Radiological for the sector of Radiological for the sector of Radiological for the sector of Radiological for the s	hen the message report: te use only. Transmit [] LEOF [] CEOF cont 	(24-hr time) s emergency termina to State EOC using inuing the emergence miles. EOC. e representatives i	(date) ation. When g the DEN ARD. cy message. in the LEOF (CEOF)

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EPIP-2.01

ATTACHMENT

3

ATTACHMENT TITLE

REPORT OF RADIOLOGICAL CONDITIONS TO THE STATE

25

1 of 1

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Ι.	Check name of facility: [] Control Room [] TSC [] Local EOF [] Central EOF
2.	Record Message #: Communicator's name: Call-back #: ()
3.	Check which report is attached and record the report number and run time (as appropriate):
	MIDAS Radiological Status computer printout (2 pages) Report # Run Time Radiological Status attachment from EPIP-4.03 (1 page) Report #
4.	Have Station Emergency Manager (SEM) / Recovery Manager (RM) approve transmittal:
	APPROVED FOR TRANSMITTAL: (SEM / RM initials) DATE: TIME:
5.	<u>IF</u> report can be delivered to both VDEM <u>AND</u> VDH staff in EOF. <u>THEN</u> GO TO PART I. ITEM 6. <u>IF</u> report will be sent by facsimile. <u>THEN</u> notify State EOC Report of Radiological Conditions will be sent by facsimile (Use DEM ARD or (804) 674-2400) and request receipt confirmation.
6.	Deliver report to both VDEM <u>AND</u> VDH staff in EOF: a. Date/Time Message Delivered to VDEM Representative in Local/Central EOF: /// b. Date/Time Message Delivered to VDH Representative in Local/Central EOF:/ / c. Record N/A by Part II and Part III below.
	<u>IF</u> report will be sent by facsimile, <u>THEN</u> ask facsimile machine operator to transmit this mess
	 IF transmittal of report by facsimile NOT achieveable, THEN do the following: a. Notify State EOC using DEM ARD or call (804) 674-2400 b. Identify yourself and your location c. Ask EOC Duty Officer to use a <u>Report of Radiological Conditions</u> form to copy message d. Read the attached report e. Record when message transmittal completed: Date/Time Message Completed:
PA	RT II. <u>Instructions for Facsimile Machine Operator</u> :
1.	Record Facsimile Operator's name : Date/Time Sent:/ /
2.	Transmit this message to State EOC facsimile machine (804) 674–2419. <u>IF</u> facsimile transmission <u>NOT</u> successful, <u>THEN</u> RETURN message to Emergency Communicator.
3.	Return original report to State and Local Emergency Communicator.
P/	RT III. Instructions for State EOC Duty Officer:
1.	Notify North Anna Emergency Communicator report received. Date/Time Verified:/ /

VIRGINIA POWER NORTH ANNA POWER STATION EMERGENCY PLAN IMPLEMENTING PROCEDURE

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NUMBER

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.0	2 NOTIFICATION OF NRC	15
	(With 3 Attachments)	PAGE
		1 of 5
PURPOSE		
	To notify the NRC of an emergency and to provide supplem	nental status
	information.	
2.	To activate the Emergency Response Data System (ERDS) up	oon an Alert or
	LEVEL 2 DISTRIBUTION This Document Should Be Verified And Annotated To A Controlled Source As Required to Perform Work	
ENTRY COND	TIONS	
Any	one of the following:	
1.	Emergency is declared.	
2.	Entry directed by Station Emergency Manager.	
	Approvals on File	
	Effective Date <u>8/28/02</u>	
	Effective Date <u>8/28/02</u>	

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	NUMBER	PROCEDURE TITL	E	REVISION
	EPIP-2.02	NOTIFICATION OF I	VRC	15
2				PAGE
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L		······································		
ſ	STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTA	INED
	1 IN] • E	 NRC notification shall be made imported by state and local governments and in the time of event declaration. ERDS shall be activated as soon as within 1 hour after declaring an above the event of the NRC may require that a continue be maintained throughout the event state PROCEDURE: By:	n all cases within 1 ho s possible and in all c Alert or higher classif uous open communicatior	our from cases fication.
	٢	Time:		
\smile				
	<u>NOTE</u> :	 Items appearing on Attachment 1, may be marked "N/A" if they do no 		
		• Items 10 and 21 of Attachment 1 a communications with the NRC.	re normally completed o	during
		ECK EVENT DECLARATION - FIFICATION OF UNUSUAL EVENT	<u>IF</u> classification - Al HIGHER, <u>THEN</u> do the fo	
			a) Complete the follow Attachment 1:	wing items on
			 Items 1 - 9 Items 11 - 20 Items 22 - 33 	
			b) Activate ERDS using3, ERDS Operation.	g Attachment
			c) GO TO Step 4.	
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	NUMBER EPIP-2.02	PROCEDURE NOTIFICATION		REVISION 15
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ſ	STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBT	AINED
	ATT NOT •] •] •] •] •] •] •] •] •] •]	MPLETE THE FOLLOWING ITEMS ON FACHMENT 1, NRC EVENT FIFICATION WORKSHEET: Items 1 - 9 Items 11 - 20 K SEM TO SIGN ATTACHMENT 1 AT P OF PAGE 1 PRIOR TO TRANSMITTAL ndicating review and approval) Communications with the NRC Ope		d by the
	<u></u> .	NRC and by North Anna.		a by the
	5 USE	E NRC ENS PHONE TO NOTIFY NRC	Use commercial phone:	
\sim			• 1-301-816-5100	
			• 1-301-951-0550	
			• 1-301-415-0550	
	<u>NOTE</u> :	The NRC Headquarters Operations transmittal of Attachment 1 in representatives to the call. D you are advised to resume commu	order to add other NRC ata transmittal should con	-
		E ATTACHMENT 1 TO NOTIFY NRC ADQUARTERS OPERATIONS OFFICER		
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Ì	NUMBER	PROCEDUR	E TITLE	REVISION
i.	EPIP-2.02	NOTIFICATI	ON OF NRC	15
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$\smile \parallel$				4 of 5
[STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTA	INED
	<u>NOTE</u> :	 commitments and management ERDS data points are listed PLANT DATA and ERDS RAD / M The NRC Emergency Communica SEM, or as soon as possible 	blished by regulations, agree directives. in PCS Group Displays labele ET. tor should relocate to the TS thereafter. It may be neces RC Communicator if a continue	ements, ed ERDS – SC with the ssary to
		ECK IF CONTINUOUS OPEN LINE TO MAINTAINED	<u>IF</u> continuous communic required, <u>THEN</u> do the a) Ask NRC Operations follow-up call is a b) Record time follow required on Attacha Emergency Communica c) <u>WHEN</u> follow-up cal required, <u>THEN</u> GO	following: Officer when required. -up call is ment 2, NRC ator Log. l is
	•	NTINUE NRC COMMUNICATIONS: Get information needed to answ questions (e.g., PCS, Station Emergency Manager) Update NRC as conditions chang Use Attachment 2, NRC Emergency Communicator Log, to note item of record (e.g., excerpts from questions, associated response changes of NRC and North Anna communicators)	ie :y is	
\bigcirc	9 CH	ECK EMERGENCY - TERMINATED	RETURN TO Step 8.	

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Ī	NUMBER	PROCEDURE TITL	E	REVISION
1	EPIP-2.02	NOTIFICATION OF N	IRC	15
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ſ	STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTA	INED
	10 N0 ⁻ 11 CHI 12 TEI AT ⁻ (S ¹ 13 TEI • (TIFY NRC OF EVENT TERMINATION . ECK IF ERDS WAS ACTIVATED RMINATE ERDS DATA LINK USING TACHMENT 3, ERDS OPERATION teps 9 through 13) RMINATE PROCEDURE: Give completed EPIP-2.02, forms and other applicable records to the Emergency Procedures Coordinator Completed by: Date: Time: -END-		
\smile				-

NUMBER ATTACHMENT TITLE		ATTACHMENT T	ITLE	REVISION
		VENT NOTIFICATION WORKSHEET		15
ATTACHMENT				PAGE
1				1 of 11
APPROVAL	(SEM):		; Date/time:	/
1. This i inform (proce	is North Anna Power nation to transmit. eed when informed):	Station. This Please inform	message is being recorde me when you are ready to ate is/	d. I have
2. This e	event affects ([]	Unit 1, [] Unit	2, [] both units, []	ISFSI).
3. My nar	ne is		•	
4. Please	e provide your name	for our record	5:	•
5. My ca	llback number is: <u>(</u>	540)	•	
	[] Notification o Unusual Event [] Alert [] Site Area Emer [] General Emerge	gency ncy	eclared at on (hours) (
7. Unit Unit		eld stable,		
Unit Unit		eld stable, cooled down and		
	cal Safety Functior All green paths; As follows (list co discuss FRP status,	olor if other th	dications are: an green and be prepared ted or not implemented):	to
	РАТН	PATH COLOR	FRP STATUS	
Sub	criticality (F-1)			
Cor	e Cooling (F-2)			
Hea	t Sink (F-3)			
Int	egrity (F-4)		<u></u>	
Con	tainment (F-5)		<u>, , , , , , , , , , , , , , , , , , , </u>	
Trav	entory (F-6)		<u> </u>	

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EPIP-2.0	02	NRC EVENT NOTIFICATION WORKSHEET	15
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<u>NOTE</u> :	be p	escription of the EAL Condition/Applicability and In- provided (refer to EPIP-1.01, Attachment 1). Addition and be provided as necessary to describe the event.	
9. E ^N —	VENT D	DESCRIPTION:	
<u>NOTE</u> :	repr	NRC Headquarters Operations Officer may connect add resentatives to the call. Items may have to be repe resentatives are bridged on.	
	repres	d I continue with this notification or wait for addi sentatives to be bridged to the call? (Either proce ted by NRC, then do one of the following):	
•		emergency classification – Notification of Unusual ems 11 through 21	Event, <u>THEN</u> read
		<u>OR</u>	
	IF	emergency classification - Alert or higher, <u>THEN</u> do	the following:
	a.	Read Items 11 through 20 (the NRC representative m transmittal of this information and ask for other	
	b.	<u>IF</u> additional data is requested, <u>THEN</u> use the Refe the next page as a guideline to answer questions:	erence Menu on
		 Refer to appropriate item and give data that is event. The NRC may ask questions not addressed in which case it will be necessary to get data available means (e.g., PCS, Station Emergency M 	l by these items, from other

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NRC EVENT NOTIFICATION WORKSHEET

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REFERENCE MENU

Power/Mode prior to event	Item 11
Description of affected systems, initiating signals, effect of event on plant, etc.	Item 12
NRC Resident Inspector notification	Item 13
Government agency notification	Items 14-15
Press release	Item 16
Mode of Operation until correction	Item 17
Time of restart	Item 18
Radiological release, exposures, contaminations, release rates, monitor readings	Item 19
RCS leakage	Item 20
Steam Generator Tube Leakage	Item 20
NRC Form 361 Close-out	Item 21
System Failures	Item 22
Dose projections	Item 23
Planned release	Item 24
Potential escalation path(s)	Item 25
Method of core heat removal	Item 26
Unit 1 major equipment status: ECCS. Diesels, RCS Integrity, Fuel Integrity, Containment Integrity, Balance of Plant, Offsite Electrical Supply	Item 27
Unit 2 major equipment status: ECCS. Diesels, RCS Integrity, Fuel Integrity, Containment Integrity, Balance of Plant, Offsite Electrical Supply	Item 28
Miscellaneous: Emergency Response Organization augmentation, Offsite Assistance, Accountability, Protective Action Recommendations, Pertinent Data (as specified by SEM)	Items 29-33

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11.	Power	r level and mode prior to the event: Jnit 1:%, Mode	
		Jnit 2:%, Mode	
12.	effec Expla	ribe systems affected, actuation and initiating signals, at of event on plant, corrective actions taken or planned ain any systems that did not function as required. Incl sual" or that is not understood as of the time of this r	d, etc. ude anything
	•		
13.		NRC Resident Inspector ([] has been, [] has not been, fied.	[] will be)
13. 14.	noti		
	noti Stat Othe	fied. e and Local agencies ([] have been, [] have not been) r government agencies ([] have been, [] have not been, fied. List agencies notified, if any:	notified. , [] will be
14.	noti Stat Othe noti We (fied. e and Local agencies ([] have been, [] have not been) r government agencies ([] have been, [] have not been,	notified. , [] will be
14. 15.	noti Stat Othe noti We (make	fied. e and Local agencies ([] have been, [] have not been) r government agencies ([] have been, [] have not been, fied. List agencies notified, if any: [] plan, [] do not plan, [] have not yet determined w	notified. , [] will be whether) to

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	tem 19 need only be completed for a radiological release	· •
19. Rad	item 19 need only be completed for a radiological release diological release data is as follows: The release ([] is, [] was): ([] liquid, [] gaseous	
19. Rac a.	liological release data is as follows:	.).
19. Rac a. b.	liological release data is as follows: The release ([] is, [] was): ([] liquid, [] gaseous). ned).

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- f. Onsite areas ([] have, [] have not) been evacuated. List areas
 evacuated, if any: ______
- g. Personnel ([] have, [] have not) been exposed or contaminated. Describe exposure or contamination event, if any:
- h. Offsite Protective Action Recommendations ([] have been made, [] have not been made).

i.	Release	rate	information	([]	is	not	available,	Γ]	is	as	follows):
----	---------	------	-------------	----	---	----	-----	------------	---	---	----	----	-----------

	Release Rate, Ci/sec	% Tech. Spec. Limit
Noble Gas		
Iodine		
Particulate		
Liquid (excluding tritium) and dissolved noble gases)		
Liquid tritium		
TOTAL ACTIVITY		·····
(Item 19 continued on next pag	je)	Ang a

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NRC EVENT NOTIFICATION WORKSHEET

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19. Radiological release data is as follows: (continued)

j. Values for radiation monitors in alarm (if any) are as follows:

RADIATION MONITOR	READING	ALARM SETPOINT	% T.S. LIMIT
Vent Vent A			
Vent Vent B			
Process Vent			
Condenser Air Ejector			
Main Steam Line			
Steam Generator Blowdown			
Other: (list below)		L	
	<u> </u>		

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		· · · · · · · · · · · · · · · · · · ·
<u>NOTE</u> :	Item 20 need only be completed for Reactor Coolant or Steam Tube leaks.	Generator
] Reactor Coolant System, [] Steam Generator Tube leak) da Dllows:	ta is as
a	The location of the leak ([] is, [] was):	•
b	The leak rate ([] is, [] was) (specify נ gpm/gpd).	nits, e.g.,
С	. The leak volume ([] is, [] was):	•
d	the Tech. Spec. limit exceeded was:	
e	. This problem was a ([] sudden, [] long-term) development	
f	. The leak start date was:// The start time	was:
g	. Primary Coolant activity (Specify units of activity):	•
h	. Secondary Coolant activity (Specify units of activity):	·
i	. The following safety-related equipment is NOT operational	:
<u>NUTE</u> :	 The NRC may direct that a supplemental notification be m after a specified period of time, or when the event is t Attachment 2 should be used to record subsequent communi the NRC. 	erminated).
	• Item 21 is not applicable and may be marked "N/A" if a c	ontinuous,
	open line is to be maintained.	

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22.		m failures are as follows (list failures and be prepare nsatory/corrective action status):	d to discuss
23.	Dose	projections are:	
24.	[]i []m	nned release: s in progress [] is required ay be required [] is NOT required progress or required, then give detail (e.g., when rec ay):	quired,
25.	[]n [](describe plant parameters being assessed against emerge	ency
	c t	lassification criteria, e.g., parameters that may pose o EAL thresholds):	a challenge
26.	Methc 	od of core heat removal:	

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27. <u>UNIT</u>	<u>1 - MAJOR EQUIPMENT STATUS:</u>	
a.	EMERGENCY CORE COOLING SYSTEM: Train A:	
	High Head SI: [] Operating [] Available [Low Head SI: [] Operating [] Available [] Failed
	Low Head SI: [] Operating [] Available [] Failed
	<u>Train B:</u> High Head SI: [] Operating [] Available [] Failed
	High Head SI: [] Operating [] Available [Low Head SI: [] Operating [] Available [] Failed
b.	EMERGENCY DIESELS:	
	<pre># 1H - [] Operating [] Available [] Fail # 1J - [] Operating [] Available [] Fail</pre>	ed ed
0	RCS Integrity:	
ι.	[] Is intact.	
	[] LOCA ([] is, [] is not) in progress. Size is ([] estimated at gpm, [] un	known).
	[] SGTR ([] is, [] is not) in progress.	
	Size is ([] estimated at gpm, [] un	IKNOWN).
d.	Fuel Integrity: [] There are no fuel failure indications.	
	<pre>[] Fuel failure is indicated based on: [] RCS sample</pre>	
	[] Effluent radiation monitor readings	
	<pre>[] Letdown radiation monitor readings [] Containment radiation monitor readings</pre>	
۵	Containment Integrity:	
ι.	[] There is no containment failure indicated.	
	[] Containment failure or degradation is indicated b	ру:
		<u></u>
2	Secondary systems (NC (FW/Turbing))	
1.	Secondary systems (MS/FW/Turbine): [] Intact	
	[] Failures:	<u></u>
	e	
g.	Offsite electrical supply: [] Available	
	[] Not available [] Degraded (i.e., partial losses):	
		· · · · · · · · · · · · · · · · · · ·

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		· · · · · · · · · · · · · · · · · · ·
28. <u>UNIT</u>	2 - MAJOR EQUIPMENT STATUS:	
a. E	MERGENCY CORE COOLING SYSTEM:	
	<u>Train A:</u> High Head SI: [] Operating [] Available [Low Head SI: [] Operating [] Available [] Failed] Failed
	<u>Train B:</u> High Head SI: [] Operating [] Available [Low Head SI: [] Operating [] Available [] Failed
		JFalled
b. <u>F</u>	<pre>EMERGENCY DIESELS: # 2H - [] Operating [] Available [] Fail # 2J - [] Operating [] Available [] Fail</pre>	ed ed
c. F	<pre>RCS Integrity: [] Is intact. [] LOCA ([] is, [] is not) in progress. Size is ([] estimated at gpm, [] un [] SGTR ([] is, [] is not) in progress. Size is ([] estimated at gpm, [] un</pre>	
d. F	Fuel Integrity: [] There are no fuel failure indications. [] Fuel failure is indicated based on: [] RCS sample [] Effluent radiation monitor readings [] Letdown radiation monitor readings [] Containment radiation monitor readings	
e. (Containment Integrity: [] There is no containment failure indicated. [] Containment failure or degradation is indicated b)y:
f. \$	Secondary systems (MS/FW/Turbine): [] Intact [] Failures:	
g. (Offsite electrical supply: [] Available [] Not available [] Degraded (i.e., partial losses):	

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	NUMB	ER	ATTACHMENT TITLE	REVISIO
1 11 of 1 NOTE: The TSC is usually activated in about 30 minutes during normal work hours, and in about 60 minutes during off-hours. 29. The Emergency Response Organization ([] will be, [] has been, [] will not be) called out. [] TSC activation is projected at approximately (give time) 30. Offsite assistance ([] is not required, [] has been requested, [] has arrived onsite). Specify assistance, if requested: 31. Accountability is ([] not required, [] in progress, [] completed, [] deferred). Report results if known: MOTE: Protective Action Recommendations may be obtained from the State and Local Emergency Communicator. 32. A Protective Action Recommendation (PAR): [] is NOT required. [] (I] is being, [] has been) made to the State of Virginia and is as follows: [] Standard: Evacuate 360° from miles to miles. [] Evacuate 360° from miles to miles. [] Evacuate 360° from miles to miles. [] Evacuate 360° from miles to miles. [] Shelter sectors frommiles tomiles. [] Shelter unaffected sectors from	EPIP-2	2.02	NRC EVENT NOTIFICATION WORKSHEET	15
NOTE: The TSC is usually activated in about 30 minutes during normal work hours, and in about 60 minutes during off-hours. 29. The Emergency Response Organization ([] will be. [] has been, [] will not be) called out. [] TSC activation is projected at approximately (give time) 30. Offsite assistance ([] is not required, [] has been requested. [] has arrived onsite). Specify assistance, if requested: 31. Accountability is ([] not required, [] in progress, [] completed, [] deferred). Report results if known: NOTE: Protective Action Recommendations may be obtained from the State and Local Emergency Communicator. 32. A Protective Action Recommendation (PAR): [] is NOT required. [] J is being, [] has been) made to the State of Virginia and is as follows: [] Standard: Evacuate 360° from miles to miles. [] Evacuate 360° from miles to	ATTACH	MENT		PAGE
<pre>hours, and in about 60 minutes during off-hours. 29. The Emergency Response Organization ([] will be, [] has been, [] will not be) called out. [] TSC activation is projected at approximately (give time) 30. Offsite assistance ([] is not required, [] has been requested, [] has arrived onsite). Specify assistance, if requested: 31. Accountability is ([] not required, [] in progress, [] completed, [] deferred). Report results if known: 32. A Protective Action Recommendations may be obtained from the State and Local Emergency Communicator. 33. A Protective Action Recommendation (PAR): [] is NOT required. [] ([] is being, [] has been) made to the State of Virginia and is as follows: [] Standard: Evacuate 360° from _0 miles to _5</pre>	1	[11 of 11
<pre>hours, and in about 60 minutes during off-hours. 29. The Emergency Response Organization ([] will be, [] has been, [] will not be) called out. [] TSC activation is projected at approximately (give time) 30. Offsite assistance ([] is not required, [] has been requested, [] has arrived onsite). Specify assistance, if requested: 31. Accountability is ([] not required, [] in progress, [] completed, [] deferred). Report results if known: 32. A Protective Action Recommendation (PAR): [] is NOT required. [] ([] is being, [] has been) made to the State of Virginia and is as follows: [] Standard: Evacuate 360° from _0 miles to _5</pre>				
<pre>not be) called out. [] TSC activation is projected at approximately (give time) 30. Offsite assistance ([] is not required, [] has been requested, [] has arrived onsite). Specify assistance, if requested:</pre>	NOTE			1 work
 30. Offsite assistance ([] is not required. [] has been requested. [] has arrived onsite). Specify assistance, if requested:	29.	not b	e) called out.	
<pre>arrived onsite). Specify assistance, if requested:</pre>	20			
<pre>[] deferred). Report results if known:</pre>	50.			
<pre>[] deferred). Report results if known:</pre>				
<pre>Local Emergency Communicator. 32. A Protective Action Recommendation (PAR): [] is NOT required. [] ([] is being, [] has been) made to the State of Virginia and is as follows: [] Standard: Evacuate 360° from <u>0</u> miles to <u>5</u> miles. [] Expanded: [] Evacuate 360° from <u>0</u> miles to <u>5</u> miles. [] Evacuate 360° from <u>5</u> miles to <u>6</u> miles. [] Evacuate 360° from <u>5</u> miles to <u>6</u> miles. [] Evacuate sectors <u>6</u> miles to <u>6</u> miles. [] Shelter 360° from <u>6</u> miles to <u>6</u> miles. [] Shelter sectors <u>6</u> miles to <u>6</u> miles. [] Shelter unaffected sectors from <u>6</u> miles to <u>6</u> miles.</pre>	31.			
<pre>Local Emergency Communicator. 32. A Protective Action Recommendation (PAR): [] is NOT required. [] ([] is being, [] has been) made to the State of Virginia and is as follows: [] Standard: Evacuate 360° from <u>0</u> miles to <u>5</u> miles. [] Expanded: [] Evacuate 360° from <u>0</u> miles to <u>5</u> miles. [] Evacuate 360° from <u>5</u> miles to <u>5</u> miles. [] Evacuate 360° from <u>5</u> miles to <u>6</u> miles. [] Evacuate sectors <u>6</u> miles to <u>6</u> miles. [] Shelter 360° from <u>6</u> miles to <u>6</u> miles. [] Shelter sectors <u>6</u> miles to <u>6</u> miles. [] Shelter unaffected sectors from <u>6</u> miles to <u>6</u> miles.</pre>				
<pre>Local Emergency Communicator. 32. A Protective Action Recommendation (PAR): [] is NOT required. [] ([] is being, [] has been) made to the State of Virginia and is as follows: [] Standard: Evacuate 360° from <u>0</u> miles to <u>5</u> miles. [] Expanded: [] Evacuate 360° from <u>0</u> miles to <u>5</u> miles. [] Evacuate 360° from <u>5</u> miles to <u>6</u> miles. [] Evacuate sectors <u>6</u> miles to <u>6</u> miles. [] Shelter 360° from <u>6</u> miles to <u>6</u> miles. [] Shelter sectors <u>6</u> miles to <u>6</u> miles. [] Shelter unaffected sectors from <u>6</u> miles to <u>6</u> miles.</pre>				······
<pre>[] is NOT required. [] ([] is being, [] has been) made to the State of Virginia and is as follows: [] Standard: Evacuate 360° from <u>0</u> miles to <u>5</u> miles. [] Evacuate 360° from <u>0</u> miles to <u>5</u> miles. [] Evacuate 360° from <u>5</u> miles to <u>miles</u>. [] Evacuate sectors <u>from</u> miles to <u>miles</u>. [] Shelter 360° from <u>from</u> miles to <u>miles</u>. [] Shelter sectors <u>from</u> miles to <u>miles</u>. [] Shelter sectors <u>from</u> miles to <u>miles</u>. [] Shelter unaffected sectors from <u>miles</u> to <u>miles</u>.</pre>	<u>NOTI</u>			tate and
<pre>[] ([] is being, [] has been) made to the State of Virginia and is as follows: [] Standard: Evacuate 360° from <u>0</u> miles to <u>5</u> miles. [] Expanded: [] Evacuate 360° from <u>0</u> miles to <u>5</u> miles. [] Evacuate 360° from <u>5</u> miles to <u>6</u> miles. [] Evacuate sectors <u>6</u> miles to <u>6</u> miles. [] Shelter 360° from <u>6</u> miles to <u>6</u> miles. [] Shelter sectors <u>6</u> miles to <u>6</u> miles. [] Shelter sectors <u>6</u> miles to <u>6</u> miles. [] Shelter unaffected sectors from <u>6</u> miles to <u>6</u> miles.</pre>	32.	A Pro	tective Action Recommendation (PAR):	
<pre>[] Expanded: [] Evacuate 360° from <u>0</u> miles to <u>5</u> miles. [] Evacuate 360° from <u>5</u> miles to <u>miles</u>. [] Evacuate sectors <u>from</u> miles to <u>miles</u>. [] Shelter 360° from <u>miles</u> to <u>miles</u>. [] Shelter sectors <u>from</u> miles to <u>miles</u>. [] Shelter unaffected sectors from <u>miles</u> to <u>miles</u>.</pre>		[]([] is being, [] has been) made to the State of Virginia	and is as
<pre>[] Evacuate 360° from _0miles to _5miles. [] Evacuate 360° from _5miles tomiles. [] Evacuate sectorsfrommiles tomiles. [] Shelter 360° frommiles tomiles. [] Shelter sectorsfrommiles tomiles. [] Shelter unaffected sectors frommiles tomiles.</pre>		ĺ] Standard: Evacuate 360° from <u>0</u> miles to <u>5</u> miles.	
<pre>[] Evacuate sectors from miles to miles. [] Shelter 360° from miles to miles. [] Shelter sectors from miles to miles. [] Shelter unaffected sectors from miles to miles.</pre>		[[] Evacuate 360° from <u>0</u> miles to <u>5</u> miles.	
[] Shelter unaffected sectors from miles to miles.			[] Evacuate sectors from miles to [] Shelter 360° from miles to miles. [] Shelter sectors from miles to	miles.
33. Other data (get from SEM):			[] Shelter unaffected sectors from miles to	miles.
	33.	Other	data (get from SEM):	
		. <u></u>		
				<u> </u>

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Use this log to note information communicated to and from the NRC (e.g., notes about NRC questions and directions, responses to NRC questions, North Anna NRC ENS Communicator and NRC Operations Officer relief). Verbatim transcription of communications is not necessary.

TIME	NOTES
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<u></u>		
1.	Assure connection to desired unit's PCS on any unit-specific Room PCS workstation or TSC NRC Communicator PCS workstation	
2.	Select "ERDS" option from <u>M</u> ain drop-down menu on command lin	е.
3.	<u>WHEN</u> ERDS User Interface Display appears, <u>THEN</u> check "STATUS	" is:
	MODEMDISCONNECTEDERDS COMPUTERTERMINATEDCOMMUNICATION TASKINACTIVE	
	<u>IF</u> "STATUS" is different from expected, <u>THEN</u> refer to descri LOG MESSAGES and required actions at the end of this attachm	
4.	Select "ACTIVATE" selectable area or function key F1. (The the MODEM, ERDS COMPUTER and COMMUNICATIONS TASK will change connection.)	
5.	Wait until "STATUS" appears as shown below:	
	MODEMCONNECTERDSCOMPUTERACCEPTEDCOMMUNICATIONTRANSMITTING	
	<u>IF</u> after 2-3 minutes "STATUS" is different from expected, <u>TH</u> descriptions of LOG MESSAGES and required actions at the end attachment.	
6.	<u>IF</u> transmission of data for both units desired, <u>THEN</u> complet through 5 for the other unit <u>AND</u> continue with instructions Attachment.	
7.	Record when transmission link(s) established: By: Date: Time:	
8.	Notify SEM that Emergency Response Data System link to NRC	is active.

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<u>i.</u>		2 of 6
9.		<u></u>
10. 11.	WHEN directed by NRC or SEM to terminate ERDS transmission, this instruction. Select "TERMINATE" selectable area or function key F2. (The the MODEM, ERDS COMPUTER and COMMUNICATIONS TASK will change termination.) Wait until "STATUS" appears as shown below: MODEM DISCONNECTED ERDS COMPUTER TERMINATED COMMUNICATION TASK INACTIVE	• "STATUS"
12.	<u>IF</u> after 2-3 minutes "STATUS" is different from expected. <u>T</u> I descriptions of LOG MESSAGES and required actions at the end attachment.	d of this through 1
13.	Record termination of ERDS data link: By: Date: Time:	

	ATTACHMENT TITLE	REVISIO
PIP-2.02	ERDS OPERATION	15
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• M(• E)	ollowing sections provide alphabetical listings of: ODEM (connection) STATUS MESSAGES RDS COMPUTER (program) STATUS MESSAGES OMMUNICATION TASK STATUS MESSAGES	
	MODEM STATUS MESSAGES	
<u>Message</u> : <u>Description</u> : <u>Action</u> :	ANSWER This message indicates the NRC modem answered. None.	
<u>Message</u> : <u>Description</u> :	BUSY This message indicates the NRC modem did not answer. software will retry dialing the busy modem. When the number of retries is reached, the process will termi	ne defined
<u>Action</u> :	automatically. The user may select "TERMINATE" selectable area or f F2 to terminate the communication task before the bu count is reached. The problem is with the NRC moden the NRC.	usy retry
<u>Message</u> : <u>Description</u> :	CONNECT This message indicates the ERDS modem and the NRC mo each other, connected and are ready for ERDS informa to be transferred.	
	This message indicates the ERDS modem and the NRC mo each other, connected and are ready for ERDS informa	
Description:	This message indicates the ERDS modem and the NRC mo each other, connected and are ready for ERDS informa to be transferred. None. DIALING This message indicates the ERDS software has sent a	ation packet
Description: Action: Message:	This message indicates the ERDS modem and the NRC mo each other. connected and are ready for ERDS informa to be transferred. None. DIALING	ation packet
Description: Action: Message: Description:	This message indicates the ERDS modem and the NRC mo each other, connected and are ready for ERDS informa to be transferred. None. DIALING This message indicates the ERDS software has sent a to the ERDS modem and the ERDS modem is dialing the	dial comman NRC modem.

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EPIP-2.02	ERDS OPERATION	15
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	MODEM STATUS MESSAGES (continued)	
<u>Message</u> : <u>Description</u> : <u>Action</u> :	ERROR This message is self-explanatory. Select "TERMINATE" selectable area or function key F2 a second attempt to activate ERDS. <u>IF</u> problem recurs request OSC dispatch Instrument Technician to investi	, <u>THEN</u>
Message: Description: Action:	NO CARRIER This message may indicate the NRC phone number in the file is missing or the file has been corrupted. Request Telecommunications support from LEOF or IT He	-
<u>Message</u> : <u>Description</u> : <u>Action</u> :	NO DIAL TONE This message indicates the ERDS modem did not detect The problem is with the telephone system. Request Te tions support from LEOF or IT HelpLine.	
<u>Message</u> : <u>Description</u> : <u>Action</u> :	OK This message indicates the ERDS software has sent a d to the ERDS modem and the ERDS modem responded with a None.	
<u>Message</u> : <u>Description</u> : <u>Action</u> :	RINGING This message indicates the NRC modem is ringing. If this modem status persists, there may be a problem NRC computer. Contact the NRC.	n is with
<u>Message</u> : <u>Description</u> : <u>Action</u> :	TIMED OUT This message indicates ERDS modem has timed out. The user may select "TERMINATE" selectable area or fu F2 to terminate the communication task before the bus count is reached. Make a second attempt to activate <u>IF</u> problem recurs. <u>THEN</u> request OSC dispatch Instrume Technician to investigate.	sy retry ERDS.

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	NUMBER	ATTACHMENT TITLE	REVISION		
	EPIP-2.02	ERDS OPERATION	15		
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	· · ·				
		ERDS COMPUTER STATUS MESSAGES			
	<u>Message</u> : Descriptio	ACCEPTED <u>n</u> : This message indicates the NRC computer accepted the	link		
		request from the ERDS software.			
	<u>Action</u> :	None.			
	<u>Message</u> : <u>Descriptio</u>				
	Action:	from the ERDS software. Contact the NRC.			
	<u>Message</u> : <u>Descriptio</u>	TERMINATED <u>n</u> : This message is self-explanatory. This is the expect	ed modem		
	Action:	status before activating ERDS and after terminating E			
	<u>ACCION</u> .				

NUMBER	ATTACHMENT TITLE	REVISIO
PIP-2.02	ERDS OPERATION	15
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	COMMUNICATIONS TASK STATUS MESSAGES	
<u>Message</u> : <u>Descriptio</u> <u>Action</u> :	ACTIVE <u>on</u> : This message indicates the user has activated the ER None.	DS software.
<u>Message</u> : <u>Descriptic</u> <u>Action</u> :	INACTIVE on: This message is self-explanatory. This is the expect communications task status before activating ERDS ar terminating ERDS. None.	cted nd after
<u>Message</u> : Descriptic	LINK REQUESTED on: This message indicates the ERDS modem and the NRC mo	odem have
Action:	connected and synchronized, and the ERDS modem has s request to the NRC modem. None.	sent a link
	connected and synchronized, and the ERDS modem has s request to the NRC modem. None. RETRY N (where N is the retry count)	message een powered
<u>Action</u> : <u>Message</u> : <u>Descriptic</u>	connected and synchronized, and the ERDS modem has s request to the NRC modem. None. <u>on:</u> RETRY N (where N is the retry count) <u>on:</u> The timeout period of 30 seconds has elapsed. This indicates the ERDS modem has malfunctioned or has be off such that the modem can not receive commands. Request OSC dispatch Instrument Technician to invest TIMED OUT	message een powered tigate. eeded becaus cation task

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VIRGINIA POWER . NORTH ANNA POWER STATION EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER EPIP-3.02

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PROCEDURE TITLE ACTIVATION OF TECHNICAL SUPPORT CENTER

(With 14 Attachments)

20 **PAGE** 1 of 4

REVISION

PURPOSE

- 1. To provide guidance to personnel responsible for TSC Activation.
- 2. To provide guidance to TSC members.

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

ENTRY CONDITIONS

Any one of the following:

- 1. Declaration of Alert, Site Area Emergency or General Emergency.
- 2. Entry from another EPIP.
- 3. Direction of the Station Emergency Manager.

Approvals on File

Effective Date 8/28/02

NUMBER	PROCEDUR	RE TIT	LE		REVISION
EPIP-3.02	ACTIVATION OF TECHNICAL SUPPORT CENTER			20	
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	ACTION/EXPECTED RESPONSE			RESPONSE NOT OBTA	INED
			L		
<u>NOTE</u> :	The first person to report to procedure and then give it to upon his/her arrival.	the the	TSC s Emerg	should implement thi gency Administrative	s Director
1 IN	ITTIATE PROCEDURE:				
•	By:	_			
	Date:				
	Time:				
	HECK ACCOUNTABILITY CARD READER			accountability card -service, <u>THEN</u> do tl	
			a)	Initiate Attachment Exit Log.	t 1, Entry/
			b)	<u>WHEN</u> Emergency Asso Leaders are directoresults of accountause Attachment 1 to badge numbers of por TSC.	ed to report ability, <u>THEN</u> o provide
TH	AVE PERSONNEL MEETING EITHER OF HE FOLLOWING CRITERIA RECORD NFORMATION ON ATTACHMENT 1, NTRY/EXIT LOG	-			
•	Exiting the TSC				
	<u>OR</u>				
•	Entering TSC after accountability completed				
4 SE	ET UP TSC USING ATTACHMENT 2				
r -					

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NUMBER	PROCEDURE	PROCEDURE TITLE ACTIVATION OF TECHNICAL SUPPORT CENTER		
EPIP-3.02	ACTIVATION OF TECHNIC			
- STEP -	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBT		
<u>NOTE</u> :	• Some of the directors may be			
	 Minimum staff positions shown be filled prior to TSC activa 	on the facility staffing tion.	board must	
	TERMINE STATUS OF MINIMUM EQUIRED TSC STAFF POSITIONS	<u>IF</u> any positions vaca the following:	nt, <u>THEN</u> do	
		a) Get EPNL to identi for vacant positio		
		b) Compare list of pendition notified by automand notification (if a determine if any de	ted vailable) to lesignees for	
		c) Attempt to contact using contact numb	personnel pers in EPNL.	
0 E	OTIFY STATION EMERGENCY MANAGER F TSC MINIMUM STAFFING AND QUIPMENT STATUS SO THAT TSC MAY E DECLARED ACTIVATED			
	ETERMINE STATUS OF TSC FULL STAFI OSITIONS	<u>IF</u> any positions vaca the following:	ant, <u>THEN</u> do	
		a) Get EPNL to ident for vacant positio		
		b) Compare list of p notified by autom notification (if determine if any vacant positions	ated available) to designees for	
		c) Attempt to contac using contact num		

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NUMBER	PROCEDURE TITLE		REVISION	
EPIP-3.02	ACTIVATION OF TECHNICAL SUPP	ACTIVATION OF TECHNICAL SUPPORT CENTER		
			PAGE	
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTA		
	DIRECTS TSC DEACTIVATION, <u>THEN</u> de SECURE TSC:	etain this procedure eactivated.	until TSC	
	 a) Restore TSC to original status using Attachment 2, TSC Set-Up and Take-Down 			
	b) Affix completed Attachments to this EPIP:			
	 Attachment 1, Entry/Exit Log 			
	 Attachment 3, page 3, Resource Request Log 			
	 Attachment 12, Shift Rotation Schedule 			
	 Attachment 13, Data Sheet for Injured Person 			
	• Attachment 14, Plant Status			
9	TERMINATE EPIP-3.02:			
	 Give completed EPIP-3.02, forms and other applicable records to the Emergency Procedures Coordinator 			
	• Completed by:			
	Date:			
	Time:			
	-END-			

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ATTACHMENT TITLE	REVISION
ENTRY/EXIT LOG	20
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Enter name, badge number, and time of arrival of personnel in the appropriate columns below. As personnel exit the TSC, enter departure time and destination in the far right columns. New line entries should be made for returning personnel. Continue this log on additional pages as required.

<u>NAME</u>	<u>BADGE_NO</u>	<u>IN</u> (Use 24-Hour Time)	<u>DESTINATIO</u>
			<u> </u>
		<u> </u>	
			<u> </u>
			<u></u>
			<u> </u>
		<u> </u>	<u> </u>
		<u></u>	
			. <u></u>
		<u> </u>	. <u> </u>
Name:	_ Date:	Page of _	

NUMBER		ATTACHMENT TITLE	REVISION
EPIP-3.02		TSC SET-UP AND TAKE-DOWN	20
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			<u> </u>
1.	. SET	-UP TSC:	
	a)	 Distribute supplies: Position binders from Emergency Admin. Closet EPIP-3.02 Director Guidelines (Attachments 3 - 10 of the second secon	is EPIP)
	b)	Activate the following equipment: • PA System	
		 Verify Gai-Tronics audible (adjust volume as necessary) 	
<u>NOTE</u>		following items are to be completed as you are able. The informed of those items which have not been accomplished.	EAD is to
	c)	 Do the following checks and tests: Verify back entrance sealed (blast door CLOSED) Verify photo copier working Check paper level in printer(s), copier(s) and facsimile Synchronize the clocks to computer time Test telecopier Test Aperture Card Reader/Printer Verify telephones operable 	e machine(s)
	d)	Report any discrepancies to the EAD	
2	. TAK	E-DOWN (RESTORE) TSC:	
	a)	Restock procedures	
	b)	Verify Operations has realigned ventilation system to nor	mal mode
	c)	Direct HP to perform PT on emergency kits	
	d)	Check emergency supplies and restock as required	
	e)	Arrange for laborers to clean TSC	
	f)	Clean all Status Boards	
	g)	Replace break-away lock(s)	
	h)	Submit work orders on any equipment malfunctions	

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ſ	NUMBER	ATTACHMENT TITLE	REVISION
	EPIP-3.02	EMERGENCY ADMINISTRATIVE DIRECTOR GUIDELINE	20
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	3		1013
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	1. Ver	ify Organization:	
	a)	Emergency Communicators	
	b)	Administrative Support Team: • Administrative Support Team Leader • Safety/Loss Prevention Support (OSC) • Clerks	
	c)	TSC Logkeeper	
	d)	Security Team: • Security Shift Supv. (Team Leader) • Security Officers	
	2. Ass	ist in logistics of TSC activation and operation.	
	3. Pro	ovide clerical and records support.	-
	sta	sure TSC Logkeeper maintains chronology of key events, incl atus changes, management decisions in response to event ass sponse, etc.	uding essment and
	5. Ens	sure TSC accountability is maintained.	
		rect Security Team activities: Personnel Accountability Access control LEOF activation Liaison with local law enforcement agencies Notification of offsite assistance (police, fire and rescu	e units)
	7. Ge ⁻ an	t information regarding any injury and assure it is forward d CERC. Use EPIP-3.02, Attachment 13, DATA SHEET FOR INJUR	ed to LEOF ED PERSONS.
		ordinate acquisition of equipment, supplies and personnel. pport should be coordinated through the LEOF. Use Resource g (page 3 of this attachment) to track status.	Offsite Request
	9. Co Tr	ordinate waiver or provision for Nuclear Power Station Plar aining for offsite agencies called in to assist in emergenc	nt Access cy response.
	St	PCS is <u>NOT</u> operable, <u>THEN</u> make sure EPIP-3.02 Attachment 3 atus, reports are sent to both the LEOF and CERC (e.g., via et status report form from TSC-LEOF Phonetalker.)	l4, Plant a facsimile).
	11. En Ma	sure Safety/Loss Prevention Support advises the Station Eme nager on fire protection and first aid matters.	ergency

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NUMBER	ATTACHMENT TITLE	REVISION
EPIP-3.02	EMERGENCY ADMINISTRATIVE DIRECTOR GUIDELINE	20
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	ure the Security Team Leader advises the SEM on Security ma	
•	ure arrangements are made for relief of the following perso Administrative Support Team Security Team Fire Team First Aid Team Emergency Communicators	nnel:
<u>1</u> 4. Coo	rdinate station shift relief:	
a)	Determine relief requirements for the following:	
	 Refer to EPIP-3.02, Attachment 12, SHIFT ROTATION SCHE Additional support staff requirements from Emergency [EDULE Directors
b)	Identify standby personnel (personnel who are available bu filling positions as primary responders)	ıt not
c)	 Develop shift relief schedule: Use Emergency Personnel Notification List (EPNL) to ide designated qualified personnel (Numbers following position Attachment 12 correspond with position numbers appeare. Ask Emergency Directors to help select personnel for as Verify personnel are available and capable of respondite. Consider alternative personnel resources (Surry persons similar assignments or persons who can be provided ad Consider implementation of a split shift turnover (staturnover times by discipline) Record assignments on Attachment 12 	tion titles aring on EPNL. ssignment ng nel with hoc training)
d)	Ask SEM to approve schedule	
e)	Give instructions to standby personnel who are not presen (e.g., send home or remain on standby)	tly needed
f)	Notify relief shifts (Refer to EPNL for contact numbers):	
	 Consider asking LEOF for assistance in making notific 	ations
	2) Notify relief personnel of the following:	
	 Reporting time Ingress route to the station Reporting location 	

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	EPIP-3.02		RESOURCE	REQUEST LOG		20
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l		<u></u>				
	NAME OF I OR SERVIC		REQUESTED BY:	SOURCE/ CONTACT:	Status:	
	<u> </u>					
			<u></u>			
<i>,</i>						
			<u> </u>			
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EPIP-3.02 ATTACHMENT		EMERGENCY TECHNICAL DIRECTOR GUIDELINE	20 PAGE					
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1.	- 1 - 0 - F - N	fy Technical Support Team Organization: Team Leader Operational Advisor Reactor Engineer Mechanical Engineer Electrical Engineer						
2.	Noti	ify Westinghouse (NSSS Vendor).						
3.	Use	PCS to assess emergency conditions.						
4.								
 5. Analyze and develop solutions to problems in the following areas: Engineering Reactor Physics Instrumentation and Control 								
6. Periodically assess need for Chemistry sampling.								
7. Assist in development of procedures as required.								
8.	8. Interface with NRC and aid in resolution of questions concerning licensing requirements.							
9.	<u>THE</u> (Qu	LESS THAN one SAMG Decision Maker and three SAMG Evaluator \underline{N} initiate actions to augment the TSC staff with qualified alified personnel are listed at Positions 475 and 476 on t sonnel Notification List which is available from the EAD.)	personnel. he Emergency					
10.	•	event transitions into SAMG implementation; <u>THEN</u> do the fo Have the SAMG Evaluators continually review the Diagnostic (DFC) and Severe Challenge Status Tree (SCST), and assure made available to the SEM and EOD. Consider designating o to track DFC and SCST status. Assure the SEM and EOD are advised of SAMG-suggested metho implementation. Direct the SAMG Evaluators to use the SAMG indicated by th	Flow Chart results are ne Evaluator ods of					
11.	Ass tha	SCST, as appropriate. Sure arrangements are made for relief of Technical Support It the TSC relief shift includes at least one SAMG Decision See SAMG Evaluators.	Team and Maker and					

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2. 3.	Establish communications with Control Room to obtain operation and to direct response as required. Ensure TSC on emergency ventilation in accordance with 1-OP-2 Emergency Ventilation upon a Safety Injection and/or as requinadiological conditions. Verify availability of Operations personnel in OSC and reques personnel as required.	1.10, <u>TSC</u> red by

- 4. Use PCS to assess emergency conditions.
- __5. Ensure TSC-Control Room phonetalker in position to maintain communication with the Control Room and update Plant Status boards (as required).
- 6. Evaluate status of unaffected unit.
- _7. Assess events for reportability to outside agencies.
- 8. Provide status change data and recommendations to SEM as required.
- 9. Assist in procedure development as necessary.
- ___10. IF event transitions into SAMG implementation, THEN do the following:
 - Assure the SEM is kept informed of strategies being considered by the Control Room.
 - Maintain cognizance of the responsibility for directing Operations personnel in the development of possible methods to implement the SAMG recommended (or being considered) by the SAMG Evaluators.
 - Determine if equipment manipulations being requested by the Control Room should be evaluated by the SAMG Evaluators prior to the activity taking place.
- __11. Ensure arrangements are made for relief of:
 - a) Control Room personnel (including on-shift STA)
 - b) Standby Operations personnel in OSC

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-3.02	STATION EMERGENCY MANAGER GUIDELINE	20
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1. Ve	rify emergency response organization (ERO):	
•	Emergency Operations Director (EOD) Emergency Maintenance Director (EMD)	
•	Emergency Technical Director (ETD)	
•	Emergency Administrative Director (EAD) Radiological Assessment Director (RAD)	
•	Emergency Procedures Coordinator (EPC)	
	Emergency Communicators (3) OSC Director (at OSC)	
	<u>EN</u> ready to activate TSC. <u>THEN</u> do the following:	
a)	Announce facility activation to staff	
b)	Identify yourself as SEM	
c)	Provide initial status briefing	
<u>NOTE</u> : Th	e following responsibilities may not be delegated:	
•	Classifying the emergency Notifying NRC, State and local governments of emergency st Recommending protective measures Authorizing emergency exposure	atus
3. <u>W</u> ł	<u>IEN</u> LEOF is activated, <u>THEN</u> do the following:	
a	Transfer the following responsibilities to the Recovery M	anager:
	 Notifying State and local governments of emergency state Recommending offsite protective measures Performing offsite dose projections Providing radiological status to the NRC (after the NR that the Health Physics Network (HPN) be established or entertain the statement of the NR that the Health Physics Network (HPN) be established or entertain the statement of the NR that the statement of the	Casks
b	Notify TSC staff that above responsibilities transferred	
4. E	nsure timely notifications are made to offsite authorities.	
5. A	oprove temporary procedures/changes as required. Procedures	s may be ions.
6. U	se PCS to assess emergency conditions and response actions.	
7. P	eriodically reference EPIP-1.01, EMERGENCY MANAGER CONTROLL	ING PROCEDURE,

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- __8. Ensure suitable arrangements for relief of ERO through emergency directors.
- ___9. Keep station personnel informed about event status and their expected actions using Gai-Tronics or by other available means of communication.
- ___10. <u>IF</u> TSC must be evacuated, <u>THEN</u> designate TSC team members who will report to the alternate TSC in the Control Room, and those members who will report to the Alternate OSC.
- ___11. <u>IF</u> event transitions into SAMG implementation, <u>THEN</u> take responsibility for authorizing the SAMG strategy to be implemented based on recommendations from the EOD and/or ETD.

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EPIP-3.02	EMERGENCY PROCEDURES COORDINATOR GUIDELINE	20
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- Assist SEM in review and adherence to controlling procedures.
- ___2. Monitor Emergency Action Level entry conditions.
- ____3. Assure appropriate procedures are initiated as required.
- __4. Assure SEM periodically updates TSC staff and station personnel on the following:
 - Emergency status

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- Mitigation goals and techniques
- Direction of overall response
- ___5. Assure Emergency Communicators make periodic updates to offsite authorities as required.
- __6. Track and hold completed procedures and logs until TSC deactivation.
- __7. Assure procedures are properly completed and made available to Nuclear Emergency Preparedness for preparation of the Summary Report to the State, and ensure subsequent review by the SNSOC. The report for a Notification of Unusual Event is due to the State 72 hours after the event is declared. All higher classifications require a report within 8 hours after termination.

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-3.0	2 RADIOLOGICAL ASSESSMENT DIRECTOR GUIDELINE	20
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2. 3. 4. 5. 6. 7. 8.	 Verify Organization: Dose Assessment Team Offsite Monitoring Team Inplant Monitoring Team Onsite Monitoring Team Sample Analysis Team Personnel Monitoring and Decontamination Team Chemistry Team Direct HP response using EPIP-4.01, RADIOLOGICAL ASSESSMENT CONTROLLING PROCEDURE. Use PCS to assess emergency conditions. Direct activities of the following emergency response persor Radiation Protection Supervisor Dose Assessment Team Offsite and Evacuation Monitoring Teams Chemistry Team Assure communicator is assigned to Health Physics Network (HPI established after the NRC announces it is warranted over the Give results of Chemistry sampling to ETD for evaluation. WHEN LEOF activated, THEN do the following: Direct Dose Assessment Team Leader to transfer Offsite D to the LEOF Radiological Assessment Coordinator Transfer direction of Offsite and Evacuation Monitoring Teams Direct Dose Assessment Team Leader to transfer Offsite D to the LEOF Radiological Assessment Coordinator Transfer direction of Offsite and Evacuation Monitoring Radiological Assessment Coordinator Ensure LEOF assumes responsibility for HPN communication Confer with Radiological Assessment Coordinator for cons accident type (to yield consistency in dose assessments) Determine release status and evaluate offsite dose assessment assumed by LEOF. Give SEM periodic updates on the following: Radiological status Emergency exposure 	IPN) phone IPN) phone I) is ENS.) OSE Assessment Teams to S ensus on

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-3.02	RADIOLOGICAL ASSESSMENT DIRECTOR GUIDELINE	20
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- ___10. Make recommendation for onsite and offsite protective actions to SEM when appropriate.
- ___11. Assure HP coverage or RWP available for Damage Control Activities.
- ___12. Assist in development of procedures as necessary.

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____13. Assure relief available for HP and Chemistry emergency response personnel.

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	NUMBER	ATTACHMENT TITLE	REVISION
:	EPIP-3.02	EMERGENCY MAINTENANCE DIRECTOR GUIDELINE	20
r	ATTACHMENT		PAGE
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	a) b) 2. Dire 3. Dire GUII 4. Per 5. Ass 6. Ensi	fy organization: Maintenance Support Team: • Team Leader • Mechanical Department Representative • Electrical Department Representative • Planning Representative • I&C Representative OSC personnel ect activities of Maintenance Support Team and Damage Cont Monitor task status and location of teams Continually reassess priority assignments with SEM ect damage control activities using EPIP-5.08. DAMAGE CONT DELINE. Hodically update SEM on damage control activities. Hist in procedure development as necessary ure arrangements are made for relief of: Maintenance Support Team DSC personnel	

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-H	EPIP-3.0	GUIDELINE FOR EMERGENCY COMMUNICATORS	20
	ATTACHME		PAGE
	10		1 of 1
	1.	<u>NRC Communicator</u> Assume NRC notification responsibility from onshift NRC Com	mmunicator.
	NOTE	Continue notifications IAW EPIP-2.02, NOTIFICATION OF NRC. obtain plant parameter data.	Use the PCS to
	<u>NUIL</u> :	Follow-up reports of emergency conditions should be provid local governments approximately every 60 minutes or when t in emergency conditions, unless otherwise agreed upon by t A termination notification must always be transmitted foll	here are changes he State.
	2	of the event. <u>State and Local Communicator/LEOF Phonetalker</u>	
\mathbf{c}		 Assume State and local notification responsibility from and Local Communicator. Continue notifications IAW EPI NOTIFICATION OF STATE AND LOCAL GOVERNMENTS, until the assumes this function. 	P-2.01,
		• <u>IF</u> either of the following emergency messages transmitt EPIP-2.01 Attachment 2, Notification of State and Local EPIP-2.01 Attachment 3, Report of Radiological Condition	Governments
		<u>THEN</u> ask Administrative Services support to telecopy me LEOF and CERC (or CERC/CEOF only if CEOF activated).	
		 Assure Plant Status forms (EPIP-3.02 Attachment 14, Pla telecopied to LEOF and CERC (or CERC/CEOF only if CEOF if PCS is inoperable or if directed by SEM. 	
		Attachment 14 may be filled-out in any of the following	g ways:
		Recorded in Control Room and sent to TSC (e.g., via	facsimile).
		Recorded in TSC by the Plant Status Communicator/Com Phonetalker.	ntrol Room
		Copied from the Plant Status Boards maintained by the Communicator/Control Room Phonetalker.	he Plant Status
\bigcirc	3.	<u>Plant Status Communicator/Control Room Phonetalker</u> Assure Plant Status Boards are maintained, if required.	

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EPIP-3.02	SHIFT ROTATION SCHEDULE	20
ATTACHMENT		PAGE
12		1 of 1

<u>NOTE:</u> The TSC shift relief complement is normally the full staff organization (positions listed below). The Station Emergency Manager has the authority to modify this organization.

	FIRST SHIFT	SECOND SHIFT
EMERGENCY RESPONSE POSITION		·
	NAME	- NAME
Station Emergency Manager (401)		
Emergency Procedures Coordinator (437)		
Emergency Operations Director (401)		
NRC ENS Emergency Communicator (405)		
TSC-to-LEOF Communicator (406)		
Plant Status Communicator (From Operations)		
Emergency Technical Director (402)		
Technical Support Team Leader (453)	····	
Electrical Engineer (409)		
Mechanical Engineer (408)	<u></u>	
Reactor Engineer (407)		
Operational Advisor (467)		
Emergency Maintenance Director (403)		
Maintenance Support Team Leader (454)		
Mechanical Department Representative (455)		
Electrical Department Representative (458)		
Planning Representative (456)		
I & C Representative (459)		
Radiological Assessment Director (404)		
Dose Assessment Team Leader (412)		
Dose Assessment Team Member (411 Or 438)		
Emergency Administrative Director (413)		
Administrative Support Team Leader (460)		
Administrative Support Team Clerk (463)		
Administrative Support Team Clerk (463)		
Administrative Support Team Clerk (463)	· · · · · · · · · · · · · · · · · · ·	
Technical Support Center Logkeeper (461)		

NUMBER	ATTACHMENT TITLE	REVISIO
PIP-3.02	DATA SHEET FOR INJURED PERSONS	20
 TACHMENT		PAGE
13		1 of 1
NAME OF	INJURED PERSON:	
EMPLOYER	<pre></pre>	
DATE/TIM	1E OF INJURY:	
DESCRIPT	TION OF EVENT:	
SUMMARY	OF INJURIES:	
	·	
EXPOSUR	E/CONTAMINATION INFORMATION:	
<u> </u>		
TRANSPO	RT INFORMATION:	
a. Trai	nsported to:	
b. Mod	e of transport:	
c. Tim	e departed station:	
d. Exp	ected time of arrival at medical facility:	
REMARKS		
1		

NUMBER	ATTA	CHMENT TITLE	REVISION
EPIP-3.02	PLAN	IT STATUS	20
ATTACHMENT			PAGE
14			1 of 1
		Τ	
		MwE REACTOR PO	WER%
PRIMARY SY REACTOR LOOP ' PRESSI	COOLANT SYSTEM (T=TEMPERA A" DELTA T%; LOOP REPSIG; PRESSUR	TURE) - HOTTEST TH°F; HOT "B" DELTA T%; LOOP "C" D IZER LEVEL%	TEST TC° ELTA T
REACTOR A:	COOLANT PUMP <u>A R OOC</u> ; B:	<u>A R 00C; C: A</u>	<u>R 00C</u>
CORE PAI CORE I MARGII SOURCI INTERN	AMETERS XIT THERMOCOUPLE ° TO SATURATION: Ch A RANGE COUNTS: N 31 EDIATE RANGE AMPS: N 35 RVLIS	F (Average of highest 5) °F; Ch B : N 32 : N 36 : DYNAMIC%; FULL	°F %
CONTAINN TEMPEI CONTA	IENT ATURE°F; PRESS NMENT ISOLATION PHASE: <u>A</u>	UREPSIA; SUMP LEVEL B HYDROGEN	FT
SECONDARY STEAM GI WIDE	SYSTEM NERATOR LEVEL RANGE: A%; B (0 - 100%) (0 RANGE: A%; B = 75%) (0 - 100%) (0	$\frac{1}{100\%}$; C $\frac{1}{(0 - 100\%)}$	
:	BA: <u>A R 00C</u> ; 3B: <u>A</u>	EDWATER FLOWGPM; CN-TK-1/2 <u>ROOC</u> ; FW-P-2: <u>AROC</u>	<u>)C</u>
ENGINEERE HHSI A: LHSI A: QS A:	D SAFEGUARDS: RWST <u>A R OOC</u> ; B: <u>A R OOC</u> ; <u>A R OOC</u> ; B: <u>A R OOC</u> <u>A R OOC</u> ; B: <u>A R OOC</u> <u>A R OOC</u> ; B: <u>A R OOC</u>	GPM C: <u>A R OOC</u> ; OSRS A: <u>A R OOC</u> ISRS A: <u>A R OOC</u> RS-P-3A: <u>A R OOC</u> RS-TK-1:	2: B: <u>A R 00</u> 2: B: <u>A R 00</u> 2: B: <u>A R 00</u>
ELECIKI	AL DISTRIBUTION REFNCY BUS (SUPPLY)		
	H: RSS, DIESEL, DEAD, BA		-
	H: OPERATING, AVAILABLE,	ÓÓC J: OPERATING, AVAII	ABLE, OOC
RESERVE	STATION SERVICE A: <u>HOT/DEAD</u> B: <u>HO</u>	<u>T/DEAD</u> C: <u>HOT/DEAD</u>	
RADIATION PRO	MONITORS CESS VENT:	.:VENT A:;VENT	3:
MAI	N STEAM A:	;B:;C:;	
ОТН	ER (Specify):		
ОТН	ER (Specify):		
REMARKS:_			
	; TIME:		

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----₩IRGINIA POWER NORTH ANNA POWER STATION EMERGENCY PLAN IMPLEMENTING PROCEDURE

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NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.10	DETERMINATION OF X/Q	11
	(With 6 Attachments)	PAGE
		1 of 6
PURPOSE		
To provi determin	de instructions for collection of meteorological data a ation of the atmospheric diffusion factor (X/Q).	Ind
	LEVEL 2 DISTRIBUT This Document Should B And Annotated For A Contro As Required to Perform	iled Source
ENTRY CONDITIO	YS	
Any one	of the following:	
1. Activ PROCE	ation by EPIP-4.01, RADIOLOGICAL ASSESSMENT DIRECTOR CO DURE.	NTROLLING
2. Activ	ation by EPIP-4.03, DOSE ASSESSMENT TEAM CONTROLLING PR	OCEDURE.
3. Activ	ation by another EPIP.	

Approvals on File

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Effective Date _8/28/02

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DETER ACTION/EXPECTED RESPONS INITIATE PROCEDURE: • By: Date: Time: E: • Meteorological data ca Display or the ERDS RA • Meteorological data sh order of availability: primary tower upper le	an be obtaine AD / MET Grou hould be used : primary tow	X/Q RESPONSE NOT OBT/ ed from PCS via the WE up Display. d according to the fol- ver lower, back-up tow	ATHER Group lowing
ACTION/EXPECTED RESPONS	E an be obtaine AD / MET Grou hould be used : primary tow	RESPONSE NOT OBTA	PAGE 2 of 6 AINED ATHER Group lowing
ACTION/EXPECTED RESPONS	an be obtaine AD / MET Grou hould be used : primary tow	ed from PCS via the WE up Display. 1 according to the fol ver lower, back-up tow	2 of 6 AINED ATHER Group lowing
ACTION/EXPECTED RESPONS	an be obtaine AD / MET Grou hould be used : primary tow	ed from PCS via the WE up Display. 1 according to the fol ver lower, back-up tow	AINED ATHER Group
<pre>INITIATE PROCEDURE: • By: Date: Time: : • Meteorological data ca Display or the ERDS Ra • Meteorological data sh order of availability: primary tower upper la</pre>	an be obtaine AD / MET Grou hould be used : primary tow	ed from PCS via the WE up Display. 1 according to the fol ver lower, back-up tow	ATHER Group lowing
 By: Date: Time: Time: Meteorological data can be a series of availability: primary tower upper less than a series of a series	AD / MET Grou hould be used : primary tow	up Display. 1 according to the folver lower, back-up tow	lowing
 By: Date: Time: Time: Meteorological data can be a series of availability: primary tower upper less than a series of a series	AD / MET Grou hould be used : primary tow	up Display. 1 according to the folver lower, back-up tow	lowing
<pre>Date: Time: E: • Meteorological data ca Display or the ERDS RA • Meteorological data sh order of availability: primary tower upper le</pre>	AD / MET Grou hould be used : primary tow	up Display. 1 according to the folver lower, back-up tow	lowing
 Meteorological data can be a be	AD / MET Grou hould be used : primary tow	up Display. 1 according to the folver lower, back-up tow	lowing
 Display or the ERDS RA Meteorological data slorder of availability: primary tower upper le 	AD / MET Grou hould be used : primary tow	up Display. 1 according to the folver lower, back-up tow	lowing
CHECK METEOROLOGICAL DATA AVAILABLE FROM PCS:			<u>THEN</u> GO TO
• Wind Speed:			
• Delta T:			
DETERMINE STABILITY CLASS			
AND			
RECORD RESULT:			
$\frac{\text{DELTA T} (°F)}{\leq -1.31}$ -1.30 to -1.18 -1.17 to -1.04 -1.03 to -0.35 -0.34 to +1.04 +1.05 to +2.77 > +2.77	≥ 22.5 22.4 to 17. 17.4 to 12. 12.4 to 7.5 7.4 to 3.8	5 B 5 C 5 D 8 E	ASS
	AVAILABLE FROM PCS: • Wind Speed: • Delta T: • Sigma Theta (if delta T ravailable): DETERMINE STABILITY CLASS <u>AND</u> RECORD RESULT: $\frac{DELTA T (°F)}{\leq -1.31}$ -1.30 to -1.18 -1.17 to -1.04 -1.03 to -0.35 -0.34 to +1.04 +1.05 to +2.77	AVAILABLE FROM PCS: • Wind Speed:	AVAILABLE FROM PCS: Step 5. Wind Speed:

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NUMBER	PROCEDURE TIT		REVISION
EPIP-4.10		DETERMINATION OF X/Q	
			PAGE 3 of 6
STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTA	
4	GO TO STEP 6		
5	CHECK METEOROLOGICAL DATA AVAILABLE FROM RAD/RAC/EMERGENCY COMMUNICATOR: • Wind Speed:	<u>IF</u> meteorological data available from any ons <u>THEN</u> determine regiona meteorological data us Attachment 1.	site source,
	• Stability Class:		
6	DETERMINE CENTERLINE X/Q AT PREDETERMINED DISTANCE:		
	a) Check if X/Q is desired for site boundary or for a distance that is a 0.25 mile increment from the site		
	b) Determine distance (miles) for which X/Q is to be calculated		
	Record distance: Miles		
	c) Determine X/Q from Attachment 2		
	<pre>d) Calculate actual X/Q using current wind speed:</pre>		
	X/Q from Attachment 2 Actual $X/Q = $	£7	
	Wind Speed (mph)		
	e) GO TO Step 8		

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	NUMBER	PROCEDURE TITLE	REVISION
۲	EPIP-4.10	DETERMINATION OF X/Q	11
			PAGE
\smile		- ⁻	4 of 6
1	STEP	ACTION/EXPECTED RESPONSE RESPONSE NOT OBTA	INED
	DIS a) b) c) d)	TERMINE CENTERLINE X/Q AT ANY STANCE: Determine distance required for X/Q (miles) Record distance: Miles Convert miles to meters: Miles x 1609 = Meters Convert wind speed (mph) to meters per second: Wind Speed (mph) x 0.447 = Wind Speed (m/sec) Use the distance downwind and Stability Class to determine dispersion coefficients: • Horizontal coefficient (σ_y). use Attachment 3 Record σ_y : • Vertical coefficient (σ_z). use Attachment 4 Record σ_z : Calculate X/Q: X/Q = [(3.14(σ_z) (σ_y))+ 758] X [wind speed m/sec]	
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NUMBER	PROCEDURE TI	TLE	REVISION
EPIP-4.10	DETERMINATION	DF X/Q	11
			PAGE
	· · · · · · · · · · · · · · · · · · ·		5 of 6
- STEP -	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTA	
	HECK WHETHER DETERMINATION OF	<u>IF</u> off-centerline X/Q <u>NOT</u> required, <u>THEN</u> GO	
a) Use distance downwind and Stability Class to determine off-centerline (Off-CL) σy from Attachment 5		
	Record σy (Off-CL):		
b) Determine distance y, perpendicular to centerline, for which X/Q is to be calculated:		
	1) Refer to Attachment 6		
	2) Record distance y: Miles		
	3) Convert y to Meters:		
	Miles x 1609 = Meters		
	4) Calculate y ² = Meters ²		
c) Solve for x, where x equals: σy(Off-CL)(y ²) =		
d) Calculate e ^x =		
e) Record X/Q centerline (from Step 6 or 7):		
	X/Q _{C1} =		
f) Determine off-centerline X/Q using the following equation:		
	X/Q _{off} -CL = =		
	e×		

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NUMBER	PROCEDURE TI	TLE	REVISI	
EPIP-4.10	DETERMINATION	OF X/Q	11	
			PAGE	
	·		6 of 6	
	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED		
9 TE	RMINATE EPIP-4.10:			
	Give completed EPIP-4.10, forms, and other applicable records to the Radiological Assessment Director/Radiological Assessment Coordinator			
• (Completed By:			
1	Date:			
	Time:			
	- END -			

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.10	ESTIMATION OF STABILITY CLASS	11
ATTACHMENT		PAGE
1	· · · · · · · · · · · · · · · · · · ·	1 of 5
<u>STEP</u>	ACTION/EXPECTED RESPONSE RESPONSE NOT OBTAINE	<u>D</u>
<u>NOTE</u> : •	Degrees Centigrade (°C) equals 0.56 times the difference bet degrees Fahrenheit (°F) and thirty-two: $°C = 0.56(°F - 32)$.	ween
•	Telephone numbers listed below are for calls made from the N dialing area.	orth Anna
1.	Call the Dominion Weather Center, <u>IF NOT</u> available, 9-1-804-273-3025, and ask Step 4 of Attachme for regional meteorological data:	<u>THEN</u> GO TO nt 1.
	• Wind Speed:	
	• Wind Direction (from):	
	• Stability Class:	
	• Temperature:	
2.	Give regional meteorological data to RAD/RAC and State/Local Communicator	
3.	RETURN TO EPIP-4.10, Step 6	
4.	Call National Weather Service (NWS), 9–1–800–737–8624, and ask for regional meteorological data:	
	• Wind Speed:	
	• Wind Direction (from):	
	• Temperature:	
	• Time of sunrise:, sunset:	
	 Sky Conditions (e.g., clear, partly cloudy, etc.): 	
1		

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	<u>-</u>			
NUMBER		ATTACHMENT TIT	LE	REVISION
EPIP-4.10	ES	TIMATION OF STABILI	TY CLASS	11
ATTACHMENT	_			PAGE
1	· .	·		2 of 5
			······	
<u>STEP</u>	ACTION/EXPECTED_RES	PONSE	. <u>RESPONSE_NOT_OBTAINE</u>	<u>.D</u>
5.	Determine time of d	lay:		
		our after sunrise to our before sunset		
	• NIGHTTIME: One ho to one	our before sunset hour after sunrise	1	
6.	Determine Stability DAYTIME conditions:		<u>IF</u> NIGHTTIME conditi GO TO Step 9 of Atta	
	a. Determine Insola Number (ICN) fro			
	1. Determine nea vertical axis on horizontal	and hour of day		
	2. Read ICN from	n matrix		
	b. Adjust ICN accor	ding to sky conditi	ons	
	AND			
	Determine Net Ra	diation Indes (NRI)	:	
	• CLEAR or SUNNY ICN = NRI	: No adjustment nee	ded.	
	ICN - 1 = NRI <u>IF</u> NRI < 1 aft	UDY: Decrease ICN b er adjustment, <u>THEN</u>	-	
		lower limit for par y to moderately clo		
		UDS, OVERCAST, FOG ICN and NRI = 0	or	
	c. Determine wind s	peed		
	d. Determine Stabil Table 2:	ity Class using		
	• Plot wind spee	d vs NRI		

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NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.10	ESTIMATION OF STABILITY CLASS	11
ATTACHMENT		PAGE
1	_	3 of 5
		-
<u>STEP</u>	ACTION/EXPECTED_RESPONSE RESPONSE_NOT_OBTAINE	<u>.D</u>
	Give meteorological data	
	to RAD/RAC and State/Local Communicator	
8.	RETURN TO EPIP-4.10, Step 6	
9.	Determine Stability Class for	
	NIGHTTIME conditions:	
	a. Determine sky condition and	
	Net Radiation Index (NRI):	
	• CLEAR:	
	NRI = -2	
	• PARTLY TO MODERATELY CLOUDY:	
	NRI = -1	
	CONTINUOUS CLOUDS, OVERCAST,	
	FOG or PRECIPITATION (Rain, Snow, Drizzle):	
	NRI = 0	
	b. Determine wind speed	
	c. Determine Stability Class using	
	Table 2:	
	 Plot wind speed vs NRI 	
10.	Give meteorological data	
	to RAD/RAC and State/Local Communicator	
11.	RETURN TO EPIP-4.10, Step 6	

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NUMBER		ATTA	CHMENT TITLE	E	REVISION
EPIP-4.10 ATTACHMENT 1		ESTIMATION	OF STABILIT	Y CLASS	11 PAGE 4 of 5
	<pre>* = Daytime * * 1 * * 1 * * 1 * * 1 * * 1 * * 1 * 1</pre>	conditions do 1 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3	not apply. 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
11 NOV 21 NOV 01 DEC 11 DEC 21 DEC	* 1 1 * 1 1 * * 1 * * 1 * * 1 * * 1 * * 1	2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2	3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 1 * 2 2 1 * 2 2 1 *	* * * * * * * * * * * *
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NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.10	ESTIMATION OF STABILITY CLASS	11
ATTACHMENT		PAGE
1.	. •	5 of 5

TABLE 2 - STABILITY CLASS

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NOTE: Wind speed should be rounded to the nearest whole number.

WIND SPEED (mph)		NET	NET RADIATION INDEX (NRI)				
	4	3	2	1	0	-1	-2
0,1	A	A	В	С	D	F	G
2,3	A	В	В	С	D	F	G
4, 5, 6	A	В	С	D	D	Ε	F
7	В	В	С	D	D	Ε	F
8	В	В	С	D	D	D	Е
9,10	В	C	С	D	D	D	Ε
11 , 12	С	С	D	Ď	D	D	Е
13 . 14	С	C	D	D	D	D	D
≥ 15	С	D	D	D	D	D	D

D - Neutral conditions

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A - Extremely unstable conditions
 B - Moderately unstable conditions
 C - Slightly unstable conditions
 C - Slightly unstable conditions
 C - Slightly unstable conditions
 E - Slightly stable conditions
 C - Extremely stable conditions

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NUMBER		ATTACHMENT TITLE						
EPIP-4.10 ATTACHMENT	-	X/Q (SEC/M ³) WIND SPEED = 1 MILE PER HOUR						
2								
		··					1 of 2	
<u>DISTANCE</u> (MILES)	A	В	С	D	E	F	G	
Site Boundary	1.84 E-6	1.65 E-5	5.98 E-5	1.77 E-4	3.46 E-4	7.26 E-4	1.40 E-3	
1.00	1.25 E-6	1.10 E-5	4.50 E-5	1.40 E-4	2.80 E-4	5.90 E-4	1.20 E-3	
1.25	1.00 E-6	6.30 E-6	3.10 E-5	9.80 E-5	2.00 E-4	4.50 E-4	9.80 E-4	
1.50	8.50 E-7	3.90 E-6	2.20 E-5	7.40 E-5	1.60 E-4	3.50 E-4	8.00 E-4	
1.75	7.40 E-7	2.60 E-6	1.70 E-5	5.90 E-5	1.30 E-4	2.80 E-4	6.80 E-4	
2.00	6.60 E-7	1.80 E-6	1.40 E-5	4.80 E-5	1.00 E-4	2.40 E-4	5.80 E-4	
2.25	5.90 E-7	1.30 E-6	1.10 E-5	4.00 E-5	8.80 E-5	2.00 E-4	5.00 E-4	
2.50	5.40 E-7	9.90 E-7	9.30 E-6	3.40 E-5	7.60 E-5	1.80 E-4	4.40 E-4	
2.75	4.90 E-7	7.60 E-7	7.90 E-6	2.90 E-5	6.60 E-5	1.50 E-4	3.90 E-4	
3.00	4.60 E-7	5.90 E-7	6.90 E-6	2.60 E-5	5.90 E-5	1.40 E-4	3.50 E-4	
3.25	4.20 E-7	5.60 E-7	6.00 E-6	2.30 E-5	5.30 E-5	1.20 E-4	3.20 E-4	
3.50	4.00 E-7	5.30 E-7	5.30 E-6	2.00 E-5	4.80 E-5	1.10 E-4	2.90 E-4	
3.75	3.70 E-7	4.90 E-7	4.70 E-6	1.80 E-5	4.30 E-5	1.00 E-4	2.70 E-4	
4.00	3.50 E-7	4.70 E-7	4.20 E-6	1.70 E-5	4.00 E-5	9.30 E-5	2.50 E-4	
4.25	3.30 E-7	4.40 E-7	3.80 E-6	1.50 E-5	3.70 E-5	8.60 E-5	2.30 E-4	
4.50	3.20 E-7	4.20 E-7	3.50 E-6	1.40 E-5	3.40 E-5	8.00 E-5	2.10 E-4	
4.75	3.00 E-7	4.00 E-7	3.20 E-6	1.30 E-5	3.20 E-5	7.40 E-5	2.00 E-4	
5.00	2.90 E-7	3.80 E-7	2.90 E-6	1.20 E-5	2.90 E-5	7.00 E-5	1.90 E-4	
5.25	2.80 E-7	3.60 E-7	2.70 E-6	1.10 E-5	2.80 E-5	6.50 E-5	1.70 E-4	
5.50	2.60 E-7	3.50 E-7	2.50 E-6	1.00 E-5	2.60 E-5	6.10 E-5	1.60 E-4	
5.75	2.50 E-7	3.40 E-7	2.30 E-6	9.80 E-6	2.40 E-5	5.80 E-5	1.60 E-4	

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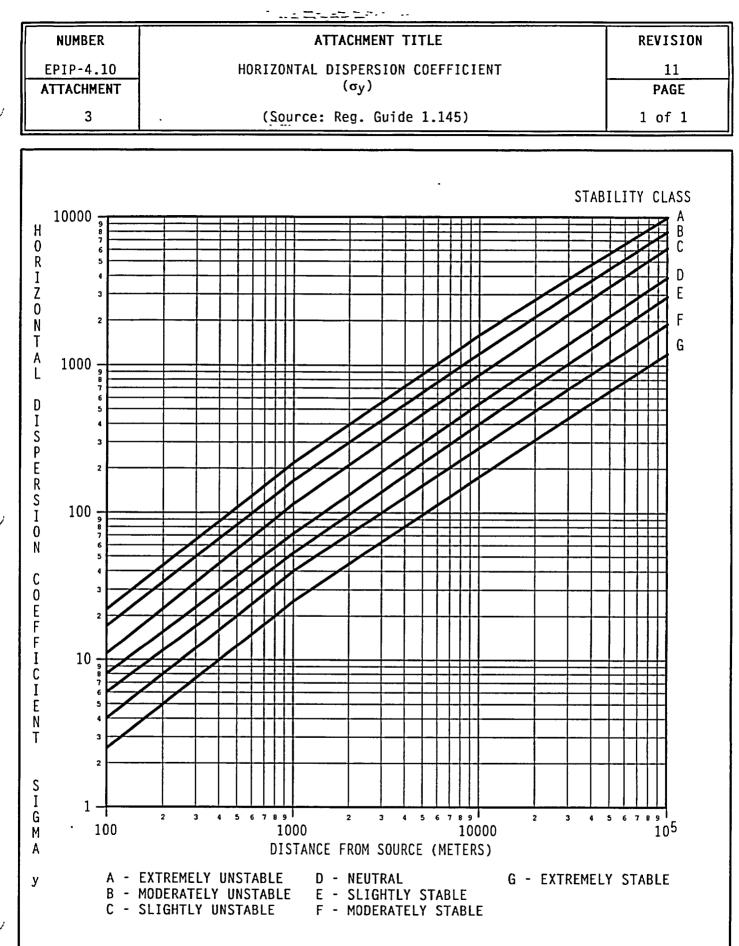
·····		·	<u>. I </u>	•-				
NUMBER			ATTACHMEN	T TITLE			REVISION	
EPIP-4.10	_	X/Q (SEC/M ³) WIND SPEED = 1 MILE PER HOUR						
ATTACHMENT		*1	ND SFLLD	L MILL FLK	nook		PAGE	
2		· · · · ·	<u></u>				2 of 2	
<u>DISTANCE</u> (MILES)		В	С		F	F	0	
6.00	A			D	E	F	G	
	2.40 E-7		2.10 E-6		2.30 E-5		1.50 E-4	
6.25	2.40 E-7		2.00 E-6		2.20 E-5	5.20 E-5	1.40 E-4	
6.50	2.30 E-7	3.00 E-7	1.90 E-6	8.10 E-6	2.10 E-5	5.00 E-5	1.30 E-4	
6.75	2.20 E-7	2.90 E-7	1.80 E-6	7.70 E-6	2.00 E-5	4.70 E-5	1.30 E-4	
7.00	2.10 E-7	2.80 E-7	1.70 E-6	7.30 E-6	1.90 E-5	4.50 E-5	1.20 E-4	
7.25	2.10 E-7	2.70 E-7	1.60 E-6	6.90 E-6	1.80 E-5	4.30 E-5	1.20 E-4	
7.50	2.00 E-7	2.60 E-7	1.50 E-6	6.60 E-6	1.70 E-5	4.10 E-5	1.10 E-4	
7.75	1.90 E-7	2.60 E-7	1.40 E-6	6.30 E-6	1.70 E-5	4.00 E-5	1.10 E-4	
8.00	1.90 E-7	2.50 E-7	1.30 E-6	6.01 E-6	1.60 E-5	3.80 E-5	1.00 E-4	
8.25	1.80 E-7	2.40 E-7	1.30 E-6	5.80 E-6	1.50 E-5	3.70 E-5	1.00 E-4	
8.50	1.80 E-7	2.40 E-7	1.20 E-6	5.50 E-6	1.50 E-5	3.50 E-5	9.60 E-5	
8.75	1.70 E-7	2.30 E-7	1.10 E-6	5.30 E-6	1.40 E-5	3.40 E-5	9.30 E-5	
9.00	1.70 E-7	2.20 E-7	1.10 E-6	5.10 E-6	1.40 E-5	3.30 E-5	9.00 E-5	
9.25	1.70 E-7	2.20 E-7	1.00 E-6	4.90 E-6	1.30 E-5	3.20 E-5	8.70 E-5	
9.50	1.60 E-7	2.10 E-7	1.00 E-6	4.70 E-6	1.30 E-5	3.10 E-5	8.40 E-5	
9.75	1.60 E-7	2.10 E-7	9.60 E-7	4.50 E-6				
10.00		2.00 E-7		4.40 E-6				
			J.LU L /	7.7V L U	1.LV L J	2.JU L-J	7.30 L-3	

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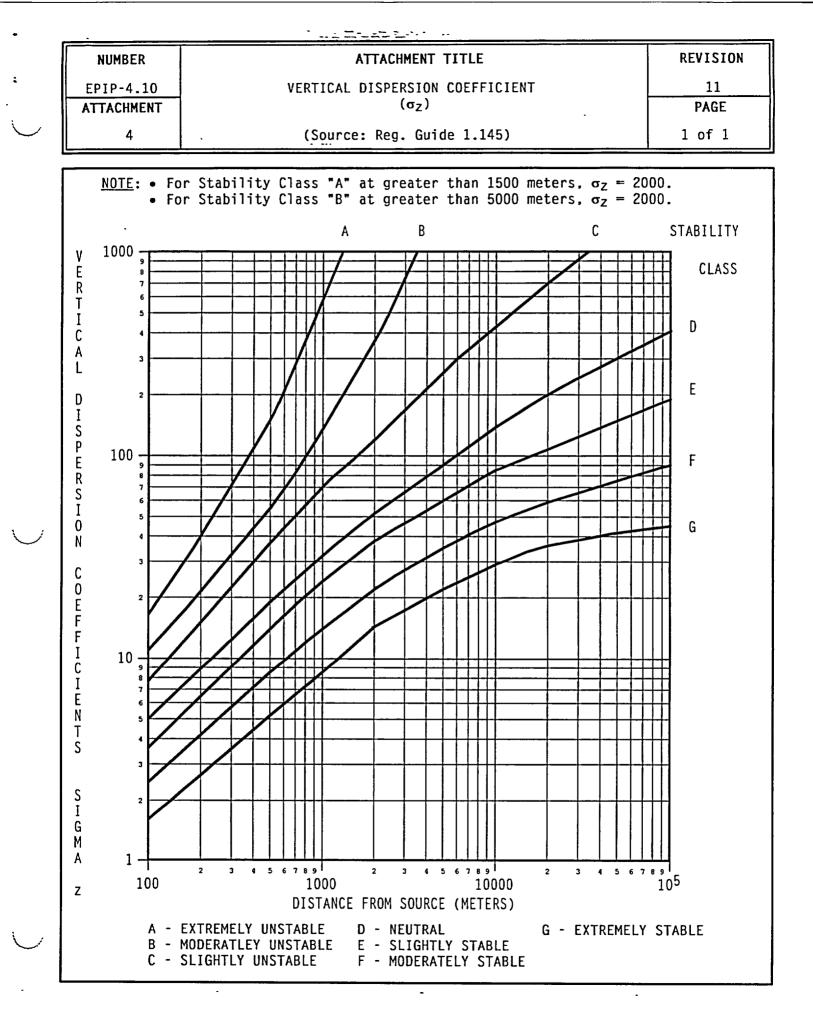
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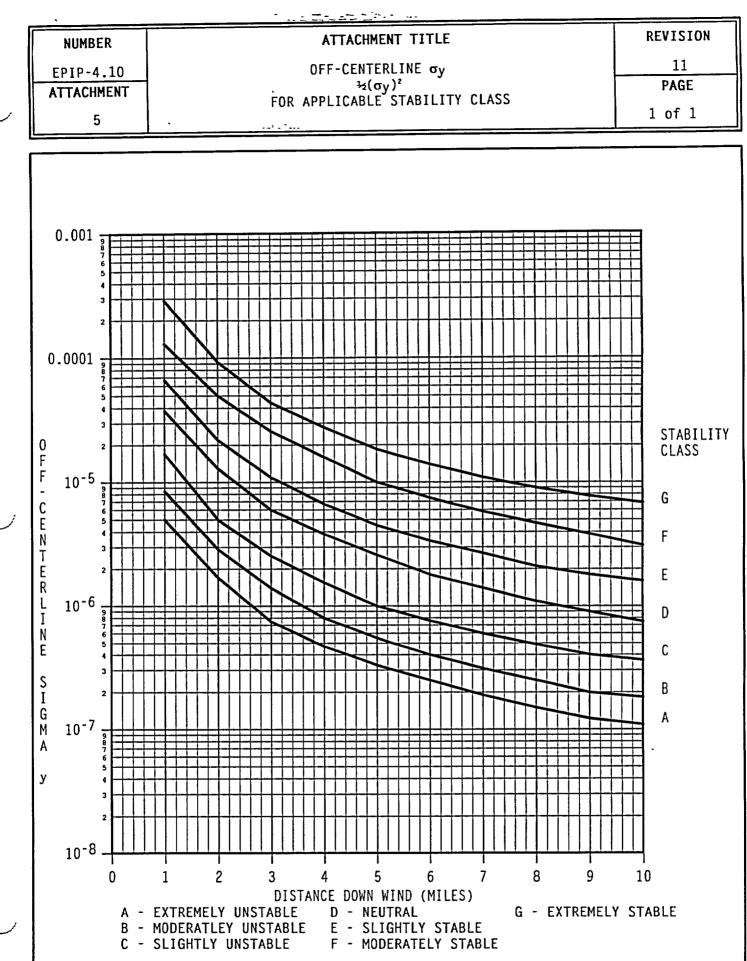
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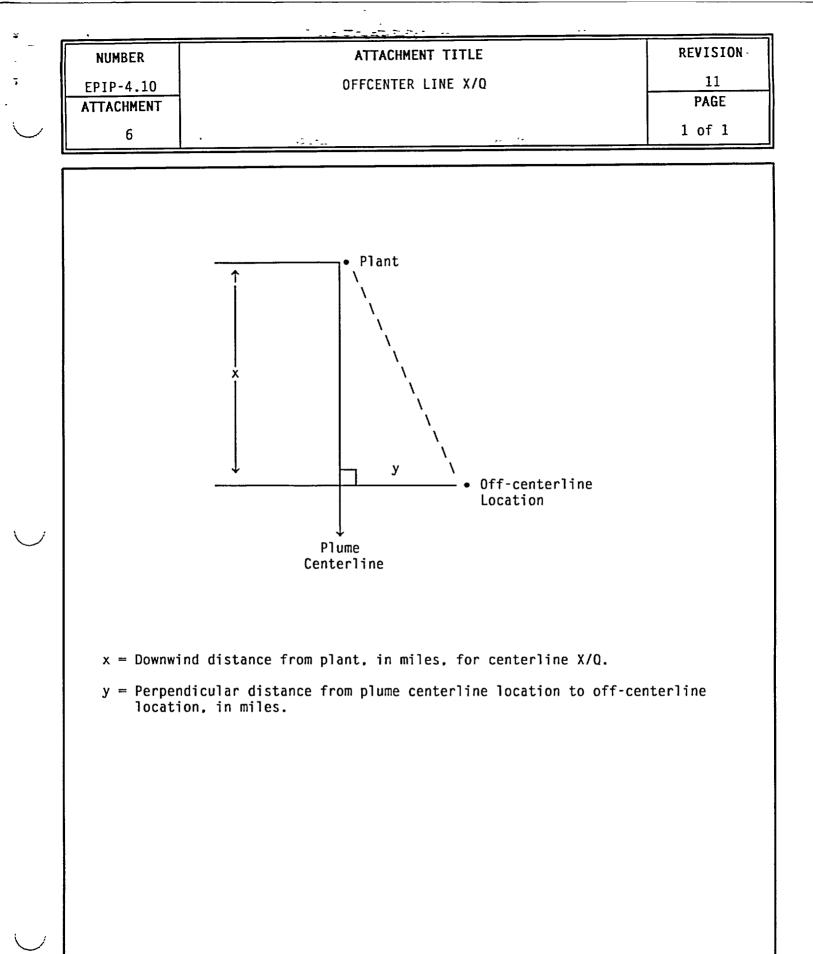


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