VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 23261

October 2, 2001

U.S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555 Serial No. 01-562

NAPS/JHL

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 REVISION TO EMERGENCY PLAN IMPLEMENTING PROCEDURE

Pursuant to 10 CFR 50.54(q), enclosed are recent revisions to a 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

2045

ATTACHMENT 1 TABULATION OF CHANGES

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

Enclosed is a recent revision to a 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-1.01, Rev. 33	10/06/00	EPIP-1.01, Rev. 34	09/13/01
EPIP-1.06, Rev. 03	10/06/00	EPIP-1.06, Rev. 04	09/05/01
EPIP-2.01, Rev. 22	02/15/01	EPIP-1.01, Rev. 24	09/26/01
EPIP-4.08, Rev. 12	07/21/95	EPIP-1.01, Rev. 13	09/13/01
EPIP-4.09, Rev. 11	07/21/95	EPIP-1.01, Rev. 12	09/13/01
EPIP-4.26, Rev. 10	11/13/96	EPIP-1.01, Rev. 11	09/13/01

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

Note: EPIP-2.01 Rev. 23 had an effective date of September 5, 2001, and was subsequently revised on September 20, 2001 in Rev. 24, with an effective date of September 26, 2001. Rather than issue Rev. 23 knowing Rev. 24 was imminent, only Rev. 24 is being issued.

DATE: 2001-09-26

PAGE: 1

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

DOCUMENT NUMBER	REV	APPROVAL **DATE**	EFFECT** **DATE**	DOCUMENT TITLE
EPIP-1.01	034	07/26/01	09/13/01	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	024	09/24/01	09/26/01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS
EPIP-2.02	014	01/04/99	01/29/99	NOTIFICATION OF NRC
EPIP-2.04	003	08/07/92	08/07/92	TRANSMITTAL OF PLANT, RADIOLOGICAL AND EMERGENCY STATUS
EPIP-3.02	018	12/17/97	01/07/98	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	016	05/12/99	05/17/99	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	013	07/26/01	09/13/01	INITIAL OFFSITE RELEASE ASSESSMENT
EPIP-4.09	012	07/26/01	09/13/01	SOURCE TERM ASSESSMENT
EPIP-4.10	010	04/23/98	04/28/98	DETERMINATION OF X/Q

DATE: 2001-09-26

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

DOCUMENT NUMBER	REV	APPROVAL **DATE**	EFFECT** **DATE**	DOCUMENT TITLE
EPIP-4.13	009	09/29/00	10/06/00	OFFSITE RELEASE ASSESSMENT WITH ENVIRONMENTAL DATA
EPIP-4.14	007	12/20/93	01/01/94	INPLANT MONITORING
EPIP-4.15	011	02/18/00	02/28/00	ONSITE MONITORING
EPIP-4.16	014	02/18/00	02/28/00	OFFSITE MONITORING
EPIP-4.17	014	08/12/98	08/14/98	MONITORING OF EMERGENCY RESPONSE FACILITIES
EPIP-4.18	011	08/12/98	08/14/98	MONITORING OF LEOF
EPIP-4.21	800	12/20/93	01/01/94	EVACUATION AND REMOTE ASSEMBLY AREA MONITORING
EPIP-4.22	013	04/02/93	04/02/93	POST ACCIDENT SAMPLING OF CONTAINMENT AIR
EPIP-4.23	013	03/13/96	03/18/96	POST ACCIDENT SAMPLING OF REACTOR COOLANT
EPIP-4.24	010	07/20/99	07/22/99	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	004	01/04/99	01/08/99	USE OF MIDAS CLASS A MODEL
EPIP-4.31	003	06/20/94	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	008	07/20/99	07/22/99	ACCESS CONTROL
EPIP-5.05	013	06/25/96	07/02/96	SITE EVACUATION
EPIP-5.07	011	07/25/00	08/02/00	ADMINISTRATION OF RADIOPROTECTIVE DRUGS
EPIP-5.08	007	11/28/00	11/30/00	DAMAGE CONTROL GUIDELINE

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

DOCUMENT NUMBER	REV	APPROVAL **DATE**	EFFECT** **DATE**	DOCUMENT TITLE
EPIP-5.09	003	03/26/99	03/31/99	SECURITY TEAM LEADER CONTROLLING PROCEDURE
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-1.01	EMERGENCY MANAGER CONTROLLING PROCEDURE	34
	(With 4 Attachments)	PAGE
	(W. Cir. 1 Moddenmenter)	1 of 7

PURPOSE

To assess potential emergency conditions and initiate corrective actions.

LEVEL 2 DISTRIBUTION

The Add Accorded to A Controlled Source

Add Accorded to Perform Work

ENTRY CONDITIONS

Any of the following:

- 1. Another station procedure directs initiation of this procedure.
- 2. A potential emergency condition is reported to the Shift Supervisor.

Approvals on File

Effective Date $\frac{9/13/0}{1}$

NUMBER	PROCEDURE TITLE	REVISION
EPIP-1.01	EMERGENCY MANAGER CONTROLLING PROCEDURE	34
		PAGE
		2 of 7

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
* * * * *	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * *
<u>CAUTION</u> :	Declaration of the highest emergency Action Level is exceeded shall be ma	
* * * * 1	* * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * *
<u>NOTE</u> :	The ERFCS is potentially unreliable Therefore, ERFCS parameters should be this situation occur.	
1 E\	VALUATE EMERGENCY ACTION LEVELS:	
a :) Determine event category using Attachment 1. EMERGENCY ACTION	

b) Review EAL Tab associated with event category

LEVEL TABLE INDEX

- c) Use Control Room monitors, ERFCS, and outside reports to get indications of emergency conditions listed in the EAL Table
- d) Verify EAL CURRENTLY EXCEEDED
- d) <u>IF</u> basis for EAL no longer exists when discovered <u>AND</u> no other reasons exist for an emergency declaration, <u>THEN</u> do the following:
 - RETURN TO procedure in effect.
 - GO TO VPAP-2802, NOTIFICATIONS AND REPORTS, to make one-hour, non-emergency reports for classification without declaration.

 $\underline{\text{IF}}$ EAL was $\underline{\text{NOT}}$ exceeded, $\underline{\text{THEN}}$ RETURN TO procedure in effect.

(STEP 1 CONTINUED ON NEXT PAGE)

REVISION PROCEDURE TITLE NUMBER EMERGENCY MANAGER CONTROLLING PROCEDURE 34 EPIP-1.01 PAGE 3 of 7

STEP		ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED]_
1	E۷	ALUATE EMERGENCY ACTION LEVELS: (Con	tinued)	
	e)	Record procedure initiation:		
		• By: Date: Time:		
	f)	Initiate a chronological log of events		•
	g)	Declare position of Station Emergency Manager		
<u>NOT</u>	<u>E</u> :	Assembly, accountability and/or ini not be desired during certain situal severe weather, anticipated grid di been completed. These activities sas achievable given the specific si	tions (e.g., security event, sturbance) or may have already hould be implemented as quickly	
2	NO	ECK – CONDITIONS ALLOW FOR RMAL IMPLEMENTATION OF EMERGENCY SPONSE ACTIONS	<u>IF</u> deviation from normal emergresponse actions warranted, <u>TF</u> do the following:	
			a) Refer to Attachment 4.	

- су
- Considerations for Operations Response Under Abnormal Conditions.
- b) Consider applicability of 50.54(x).
- c) <u>IF</u> classification/assembly announcement deferred, THEN GO TO Step 4.

NUMBER	PROCEDURE TITLE	REVISION
EPIP-1.01	EMERGENCY MANAGER CONTROLLING PROCEDURE	34
		PAGE
		4 of 7

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 3 NOTIFY PLANT STAFF OF ALERT OR HIGHER CLASSIFICATION:
 - a) Check classification ALERT OR HIGHER
 - b) Check if emergency assembly and accountability - PREVIOUSLY CONDUCTED
- a) GO TO Step 4.
- b) Do the following:
 - 1) Have Control Room sound EMERGENCY alarm and make announcement on station Gai-Tronics system as follows:
 - "(Emergency classification)
 has been declared as the
 result of

(event)

- "All Emergency Response personnel report to your assigned stations"
- "All contractor personnel not responding to the emergency and all visitors report to the Security Building"
- "All other personnel report to your Emergency Assembly Areas"
- 2) Repeat RNO Step 3.b.1.
- 3) GO TO Step 4.
- c) Have Control Room sound EMERGENCY alarm and make announcement on station Gai-Tronics system as follows:
 - "(Emergency classification) has been declared as the result of

(event)

d) Repeat Step 3.c

NUMBERPROCEDURE TITLEREVISIONEPIP-1.01EMERGENCY MANAGER CONTROLLING PROCEDURE34PAGE5 of 7

STEP	ACTION/EXPECTED RESPONSE		RESPONSE NOT OBTAINED
* * * * *	* * * * * * * * * * * * * *	* * * ;	* * * * * * * * * * * * * * *
<u>CAUTION</u> :	Continue through this and all directed to hold.	furthe	r instructions unless otherwise
* * * * *	* * * * * * * * * * * * * *	* * * :	* * * * * * * * * * * * * *
4 IN	ITIATE SUPPORTING PROCEDURES:		
al	Direct Emergency Communicator	ς	

- to initiate the following procedures:
 - 1) EPIP-2.01, NOTIFICATION OF STATE AND LOCAL GOVERNMENTS
 - 2) EPIP-2.02, NOTIFICATION OF NRC
- b) Direct HP to initiate EPIP-4.01, RADIOLOGICAL ASSESSMENT DIRECTOR CONTROLLING PROCEDURE
- c) Establish communications with Security Team Leader:
 - 1) Provide Security with current emergency classification
 - 2) Notify Security which Operations Shift is designated for coverage
 - 3) Direct Security to initiate EPIP-5.09, SECURITY TEAM LEADER CONTROLLING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-1.01	EMERGENCY MANAGER CONTROLLING PROCEDURE	34
		PAGE
		6 of 7

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
5	CHECK TSC - ACTIVATED	<u>IF</u> TSC <u>NOT</u> activated, <u>THEN</u> do the following:
		a) Have STA report to the Control Room.
		b) Notify Superintendent

c) Consider having Radiological Assessment Director report to the Control Room.

Operations or Operations

Manager On Call.

- d) <u>WHEN</u> relief SEM arrives, <u>THEN</u> perform turnover using EPIP-1.01, Attachment 3, Turnover Checklist.
- _____6 IMPLEMENT EPIP FOR EMERGENCY CLASSIFICATION IN EFFECT:
 - Notification of Unusual Event -GO TO EPIP-1.02, RESPONSE TO NOTIFICATION OF UNUSUAL EVENT
 - Alert -GO TO EPIP-1.03, RESPONSE TO ALERT
 - Site Area Emergency -GO TO EPIP-1.04, RESPONSE TO SITE AREA EMERGENCY
 - General Emergency -GO TO EPIP-1.05, RESPONSE TO GENERAL EMERGENCY

NUMBER EPIP-1.01

REVISION PROCEDURE TITLE EMERGENCY MANAGER CONTROLLING PROCEDURE 34 PAGE

7 of 7

STEP	ACTION/EXPECTED RESPONSE		RESPONSE	NOT OBTAINED	
7	NOTIFY OFFSITE AUTHORITIES OF EMERGENCY TERMINATION:	·			
	 a) State and local governments (made by LEOF or CEOF when activated) 				
	b) NRC				
8	NOTIFY STATION PERSONNEL ABOUT TFOLLOWING:	HE			
	• Emergency termination				
	• Facility de-activation				
	• Selective release of personnel				
	• Completion and collection of procedures				
	• Recovery				
9	TERMINATE EPIP-1.01:				
	 Give completed EPIPs, forms an other applicable records to Nuclear Emergency Preparedness (TSC Emergency Procedures Coordinator if TSC activated) 				
	• Completed By:				
	Date:				
	Time:				
	- F	END -			

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	INDEX	PAGE
1		1 of 43

************************* <u>CAUTION</u>: • Declaration of the highest emergency class for which an EAL is exceeded shall be made. • Emergency Action Levels shall be conservatively classified based on actual or anticipated plant conditions. ************************* Design Change Package 99-006, Replacement of Ventilation Radiation NOTE: Monitors (NAPS Units 1 & 2), replaces KAMAN process and vent stack particulate, iodine and gaseous radiation monitors with a radiation monitor system manufactured by MGP Instruments (MGPI). Affected EALs are: B-4, B-7, C-7, C-9, E-3, E-5, G-1 and G-2. Both KAMAN and MGPI indications are provided for classification depending upon which system is in service. During the interim period when neither system is in service, indications are provided for classification based on HP monitoring and assessments. **EVENT CATEGORY:** TAB Safety, Shutdown, or Assessment System Event......A 1. Reactor Coolant System Event.....B 2. 3. 4. Radioactivity Event.....E 5. 6. **DELETED** Loss of Secondary Coolant......G 7. 8. Electrical Failure.....H 9. Fire.....I Security Event......J 10. Hazard to Station Operation.....K 11. Natural Events.....L 12.

Miscellaneous Abnormal Events......M

13.

ATTACHMENT TITLE **REVISION NUMBER EPIP-1.01** EMERGENCY ACTION LEVEL TABLE 34 (TAB A) PAGE **ATTACHMENT** SAFETY, SHUTDOWN, OR ASSESSMENT SYSTEM EVENT 1 2 of 43

CONDITION/APPLICABILITY

INDICATION

CLASSIFICATION

EAL C.2 is duplicated below for cross-reference/comparison to EAL A.1: CAUTION:

C.2. Probable large Loss of Main Feedwater GENERAL

radioactivity System, Condensate System and Auxiliary Feedwater release initiated by loss of heat System

sink leading to core degradation

MODES 1. 2. 3 & 4

Loss of function Total loss of the needed for unit HSD

MODES 1, 2, 3 & 4

condition

Charging/SI System

OR

Total loss of the Main Feedwater and Auxiliary Feedwater systems

2. Failure of the Reactor Protection System to initiate and complete a required trip while at power

MODES 1 & 2

Reactor trip setpoint and coincidences - EXCEEDED

AND

Automatic trip from RPS -FAILED

AND

Manual trip from Control Room - FAILED

SITE AREA **EMERGENCY**

EMERGENCY

SITE AREA **EMERGENCY**

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB A) SAFETY, SHUTDOWN, OR ASSESSMENT SYSTEM EVENT	PAGE
1	STOTELL EVENT	3 of 43

Inability to monitor a significant transient in progress

MODES 1, 2, 3 & 4

INDICATION

Most (>75%) or all annunciator alarms on panels "A" to "K" - NOT AVAILABLE

AND

All computer monitoring capability (e.g., plant computer, ERFCS) - NOT AVAILABLE

AND

Significant transient - IN PRÖGRESS (e.g., reactor trip, SI actuation, turbine runback >25% thermal reactor power, thermal power oscillations >10%)

AND

- Inability to directly monitor any one of the following using Control Room indications:
 - Subcriticality
 - Core Cooling Heat Sink

 - Vessel Integrity
 - Containment Integrity

Evacuation of Main Control Room with control not established within 15 minutes

ALL MODES

Evacuation of the Control Room with local shutdown control not established within 15 minutes

SITE AREA **EMERGENCY**

CLASSIFICATION

SITE AREA

EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB A) SAFETY, SHUTDOWN, OR ASSESSMENT	PAGE
1	SYSTEM EVENT	4 of 43

CONDITION/	APPLICAB	ILITY

5. Total loss of function needed for unit CSD condition

MODES 5 & 6

INDICATION

 Secondary system cooling capability - UNAVAILABLE

AND

- Loss of any of the following systems:
 - Service Water
 - Component Cooling
 - RHR

AND

 RCS temperature GREATER THAN 140 °F

6. Failure of the Reactor Protection System to complete a trip which takes the Reactor Subcritical

MODES 1 & 2

Reactor trip setpoint and coincidences - EXCEEDED

<u>and</u>

 Automatic trip from RPS -FAILED

<u>AND</u>

• Manual trip - REQUIRED

<u>and</u>

• Manual trip from Control Room - SUCCESSFUL

<u>CLASSIFICATION</u>

ALERT

ALERT

1	NUMBER		ATTACHMENT TITLE	REVISION
	EPIP-1.01	l EM	ERGENCY ACTION LEVEL TABLE	34
	ATTACHMENT	1	(TAB A) ETY, SHUTDOWN, OR ASSESSMENT	PAGE
	1	SAF	SYSTEM EVENT	5 5 40
Į				
	7. Unpl safe annu comp indi unav tran prog	anned loss of ety system unciators with pensatory cators vailable or a usient in gress	INDICATION • Unplanned loss of most (>75%) or all annunciator alarms on panels "A" to "K" for GREATER THAN 15 minutes AND • All computer monitoring capability (e.g., plant computer, ERFCS) - NOT AVAILABLE OR Significant transient - INITIATED OR IN PROGRESS (e.g., reactor trip, SI, turbine runback > 25% thermal reactor power, thermal power oscillations > 10%)	CLASSIFICATION ALERT
	Cont requ	cuation of Main crol Room uired MODES	Evacuation of the Control Room with shutdown control established within 15 minutes	ALERT
	requ tech spec	pility to reach wired mode within nical cification limits	 Intentional reduction in power, load or temperature IAW T.S. Action Statement - HAS COMMENCED AND T.S. Action Statement time limit for mode change - CANNOT BE MET 	NOTIFICATION OF UNUSUAL EVENT
1				

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB A) SAFETY, SHUTDOWN, OR ASSESSMENT	PAGE
1	SYSTEM EVENT	6 of 43

10. Failure of a safety or relief valve to close after pressure reduction, which may affect the health and safety of the public

MODES 1, 2, 3, 4 & 5

INDICATION

- RCS
 - RCS pressure LESS THAN 2000 psig

<u>0R</u>

NDT Protection System - IN SERVICE

<u>and</u>

 Any indication after lift or actuation that Pressurizer Safety or PORV - REMAINS OPEN

AND

- Flow UNISOLABLE
- Main Steam
 - Excessive Steam Generator Safety, PORV or Decay Heat Release flow as indicated by rapid RCS cooldown rate

<u>AND</u>

- Main Steam pressure greater than 100 psi below setpoint of affected valve
- 11. Unplanned loss of most or all safety system annunciators for greater than 15 minutes

MODES 1, 2, 3 & 4

Unplanned loss of most (>75%) or all annunciators on panels "A" to "K" for GREATER THAN 15 minutes

NOTIFICATION OF UNUSUAL EVENT

CLASSIFICATION

NOTIFICATION

OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB A) SAFETY, SHUTDOWN, OR ASSESSMENT	PAGE
1	SYSTEM EVENT	7 of 43

12. Loss of communications capability

ALL MODES

INDICATION

 Station PBX phone system -FAILED

<u>AND</u>

Station Gai-tronics system - FAILED

AND

 Station UHF radio system -FAILED

CLASSIFICATION

NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB B) REACTOR COOLANT SYSTEM EVENT	PAGE
1	REACTUR COULANT SYSTEM EVENT	8 of 43

 Loss of 2 of 3 fission product barriers with potential loss of 3rd barrier

ALL MODES

INDICATION

Any two of a), b) or c) exist and the third is imminent:

- a) Fuel clad integrity failure as indicated by any of the following:
 - RCS specific activity greater than or equal to 300.0 μCi/gram dose equivalent I-131

0R

5 or more core exit thermocouples greater than 1200 °F

0R

Containment High Range Radiation Monitor

RM-RMS-165, -166 or RM-RMS-265, -266 GREATER THAN 1.88x10² R/hr

- b) Loss of RCS integrity as indicated by any of the following:
 - RCS pressure greater than 2735 psig

<u>0R</u>

Loss of Reactor Coolant in progress

- c) Loss of containment integrity as indicated by any of the following:
 - Containment pressure greater than 60 psia and not decreasing

<u>0R</u>

Release path to environment -EXISTS

CLASSIFICATION

GENERAL EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB B) REACTOR COOLANT SYSTEM EVENT	PAGE
1		9 of 43

CONDITION/APPLICABILITY INDICATION

CLASSIFICATION

2. Fuel failure with steam generator tube rupture

ALL MODES

Any two of a), b) or c) exist and the third is imminent:

GENERAL EMERGENCY

- a) Fuel clad integrity failure as indicated by any of the following:
 - RCS specific activity greater than 300 μCi/gram dose equivalent I-131

<u>0R</u>

5 or more core exit thermocouples GREATER THAN 1200 $^{\circ}\text{F}$

OR

High Range Letdown radiation monitor

1-CH-RI-128 or 2-CH-RI-228 GREATER THAN 5.9 x 10^4 mR/hr

- b) Steam Generator tube rupture as indicated by both of the following:
 - SI coincidence SATISFIED

<u>AND</u>

- Steam Generator tube rupture -IN PROGRESS
- c) Loss of secondary integrity associated with ruptured steam generator pathway as indicated by any of the following:
 - Steam Generator PORV OPEN

<u>0R</u>

Main Steam Code Safety Valve - OPEN

0R

Loss of secondary coolant outside containment – IN PROGRESS

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB B) REACTOR COOLANT SYSTEM EVENT	PAGE
1		10 of 43

3. RCS leak rate limit - EXCEEDED

MODES 1, 2, 3, & 4

INDICATION

 Loss of Reactor Coolant in progress and inventory balance indicates leakage GREATER THAN 300 gpm

<u>AND</u>

 Pressurizer level cannot be maintained with two (2) or more Charging/SI pumps in operation

CLASSIFICATION

SITE AREA EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB B) REACTOR COOLANT SYSTEM EVENT	PAGE
1	NEMOTOR GOODMAN STOTEM EVENT	11_of_43

4. Gross primary to secondary leakage with loss of offsite power

MODES 1, 2, 3, & 4

INDICATION

 Steam Generator Tube Rupture - IN PROGRESS

AND

Safety Injection - REQUIRED

<u>AND</u>

Vent Vent A Kaman Monitor

RM-VG-179 GREATER THAN 1.3 x 10^8 $\mu\text{Ci/sec}$

<u>0R</u>

HP determines Site Boundary DDE GREATER THAN 50 mrem/hr

0R

Vent Vent A MGPI Monitor

RM-VG-179 GREATER THAN 1.25 x 10⁸ μCi/sec

<u>0R</u>

Steam Generator Blowdown monitor on affected pathway

RM-SS-122, -222 RM-SS-123, -223 RM-SS-124, -224 GREATER THAN 1x106 cpm

AND

 A subsequent loss of offsite power indicated by zero volts on voltmeters for 4160V buses D, E, & F

CLASSIFICATION

SITE AREA EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB B) REACTOR COOLANT SYSTEM EVENT	PAGE
1	KENOTOK GOGENIT STOTELT EVENT	12 of 43

<u>CON</u>	DITION/APPLICABILITY	INI	DICATION	<u>CLASSIFICATION</u>
5.	RCS leak rate limit - EXCEEDED	•	Pressurizer level cannot be maintained greater than 20%	ALERT
	MODES 1, 2, 3, & 4	with one (1) Charging/SI pump in operation		
			<u>AND</u>	
		•	RCS inventory balance indicates leakage - greater than 50 gpm	

 Gross primary to secondary leakage
 MODES 1, 2, 3, & 4 Steam Generator Tube Rupture - ALERT IN PROGRESS

AND

Safety Injection - REQUIRED

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB B) REACTOR COOLANT SYSTEM EVENT	PAGE
1		13 of 43

7. Excessive primary to secondary leakage with loss of offsite power

MODES 1, 2, 3, & 4

INDICATION

 Intentional reduction in power, load or temperature because the unit has entered an Action Statement or will exceed an LCO

AND

Vent Vent A Kaman Monitor

RM-VG-179 GREATER THAN 1.83 x 106 μCi/sec

0R

HP assessment of sample results indicates GREATER THAN 10 times ODCM allowable limit (Alert per EAL E-3)

0R

Vent Vent A MGPI Monitor

RM-VG-179 GREATER THAN $1.73 \times 10^6 \mu \text{Ci/sec}$

<u>0R</u>

Steam Generator Blowdown monitor on affected pathway

RM-SS-122, -222 RM-SS-123, -223 RM-SS-124, -224 GREATER THAN 1x10⁵ cpm

<u>AND</u>

 A subsequent loss of offsite power indicated by zero volts on voltmeters for 4160V buses D, E, & F CLASSIFICATION

ALERT

NUMBER	ATTACHMENT TITLE		REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE		34
ATTACHMENT	(TAB B) REACTOR COOLANT SYSTEM EVENT		PAGE
1	, and the second	0.0101	14 of 43
<u>CONDITI</u>	ON/APPLICABILITY	INDICATION	CLASSIFICATION
8. RCS leak rate requiring plant shutdown IAW T.S. 3.4.6.2 or 3.4.6.3		 Intentional reduction in power, load or temperature because the unit has entered an action statement or will exceed an LCO 	NOTIFICATION OF UNUSUAL EVENT
MUD	ES 1, 2, 3, & 4	AND	
		 Unidentified RCS leakage - greater than 1 gpm 	
		<u>OR</u>	
		Identified leakage - greater than 10 gpm	
		<u>OR</u>	
		Controlled leakage to RCP Seals - greater than 30 gpm total	
		<u>OR</u>	
		Any pressure boundary leakage – EXISTS	
lea tha	mary to Secondary kage – greater n 1 gpm ES 1, 2, 3, & 4	 Intentional reduction in power, load or temperature because the unit has entered an action statement or will exceed an LCO 	NOTIFICATION OF UNUSUAL EVENT
		AND	
		 Primary to Secondary leakage greater than 1 gpm 	
		<u>0R</u>	

N-16 monitor indicates primary to secondary leakage greater than T. S. allowable limits

NUMBER **REVISION** ATTACHMENT TITLE EPIP-1.01 EMERGENCY ACTION LEVEL TABLE 34 (TAB C) **ATTACHMENT** PAGE FUEL FAILURE OR FUEL HANDLING ACCIDENT 1 15 of 43

CONDITION/APPLICABILITY

Probable large radioactivity release initiated by LOCA with ECCS failure leading to core degradation

ALL MODES

INDICATION

Loss of reactor coolant in progress

AND

RCS specific activity greater than 300 μCi/gram dose equivalent I-131

0R

Containment High Range Radiation Monitor

RM-RMS-165, -166 or RM-RMS-265, -266 GREATER THAN 1.88x10² R/hr

AND

High or low head ECCS flow not being delivered to the core (if expected by plant conditions)

CAUTION: EAL A.1 is duplicated below for cross-reference/comparison to EAL C.2:

Loss of function needed for unit A.1. HSD condition

MODES 1. 2. 3 & 4

Total loss of the Charging/SI System

0R

Total loss of the Main Feedwater and Auxiliary Feedwater systems

Probable large radioactivity 2. release initiated by loss of heat sink leading to core degradation

MODES 1, 2, 3 & 4

Loss of Main Feedwater System, Condensate System and Auxiliary Feedwater System

GENERAL **EMERGENCY**

SITE AREA

EMERGENCY

CLASSIFICATION

GENERAL

EMERGENCY

NUMBER ATTACHMENT TITLE REVISION EPIP-1.01 EMERGENCY ACTION LEVEL TABLE 34 (TAB C) PAGE **ATTACHMENT** FUEL FAILURE OR FUEL HANDLING ACCIDENT 1 16 of 43 CONDITION/APPLICABILITY **INDICATION** CLASSIFICATION Probable large radioactivity **GENERAL** Rx nuclear power after a trip - greater than 5% **EMERGENCY** release initiated by failure of AND protection system to RCS pressure greater than bring Rx subcritical or equal to 2485 psig and causing core degradation <u>0R</u> ALL MODES Containment pressure and temperature rapidly increasing Probable large radioactivity Loss of all onsite and **GENERAL EMERGENCY** offsite AC power release initiated by loss of AC power and **AND** all feedwater Turbine Driven Auxiliary ALL MODES Feedwater Pump not operable

AND

2 hours

Restoration of either of the above not likely within

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB C) FUEL FAILURE OR FUEL HANDLING ACCIDENT	PAGE
		17 of 43

5. Probable large radioactivity release initiated by LOCA with loss of ECCS and containment cooling

ALL MODES

INDICATION

 Loss of reactor coolant in progress

AND

 High or low head ECCS flow not being delivered to the core (if expected by plant conditions)

<u>and</u>

 Containment RS sump temperature greater than 190°F and NOT decreasing

<u>0R</u>

All Quench Spray and Recirculation Spray systems - NOT OPERABLE

CLASSIFICATION

GENERAL EMERGENCY
 NUMBER
 ATTACHMENT TITLE
 REVISION

 EPIP-1.01
 EMERGENCY ACTION LEVEL TABLE
 34

 ATTACHMENT
 (TAB C)
 PAGE

 1
 FUEL FAILURE OR FUEL HANDLING ACCIDENT
 18 of 43

CONDITION/APPLICABILITY

6. Core damage with possible loss of coolable geometry

MODES 1, 2, 3, & 4

INDICATION

- a) Fuel clad failure as indicated by any of the following:
 - RCS Specific activity greater than 60 μCi/gram dose equivalent I-131

<u>0R</u>

High Range Letdown radiation monitor

1-CH-RI-128 or 2-CH-RI-228 GREATER THAN 1.2x10⁴ mR/hr

AND

- b) Loss of cooling as indicated by any of the following:
 - 5 confirmed core exit thermocouples greater than 1200 °F

0R

Core delta T - zero

<u>0R</u>

Core delta T - rapidly diverging

CLASSIFICATION

SITE AREA EMERGENCY

 NUMBER
 ATTACHMENT TITLE
 REVISION

 EPIP-1.01
 EMERGENCY ACTION LEVEL TABLE (TAB C) (TAB C)
 94

 ATTACHMENT
 FUEL FAILURE OR FUEL HANDLING ACCIDENT
 PAGE

 1
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CONDITION/APPLICABILITY

7. Major fuel damage accident with radioactivity release to containment or fuel buildings

ALL MODES

INDICATION

 Water level in Rx vessel during refueling below the top of core

0R

Water level in spent fuel pool below top of spent fuel

AND

 Verified damage to irradiated fuel resulting in readings on Vent Vent "B" Kaman monitor

> RM-VG-180 GREATER THAN 2.74 x 10⁸ μCi/sec

<u>0R</u>

HP determines Site Boundary DDE GREATER THAN 50 mrem/hr

0R

Verified damage to irradiated fuel resulting in readings on Vent Vent "B" MGPI monitor

RM-VG-180 GREATER THAN 2.69 x $10^8~\mu\text{Ci/sec}$

8. Severe Fuel Clad Damage

MODES 1, 2, 3, & 4

 High Range Letdown radiation monitor

> 1-CH-RI-128 or 2-CH-RI-228 Increases to GREATER THAN Hi Hi Alarm setpoint within 30 minutes and remains for at least 15 minutes

CLASSIFICATION

SITE AREA EMERGENCY

ALERT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB C) FUEL FAILURE OR FUEL HANDLING ACCIDENT	PAGE
1	TOLE TAILORE ON TOLE TAINDELTA HOUSE	20 of 43

 Fuel damage accident with release of radioactivity to containment or fuel buildings

ALL MODES

INDICATION

CLASSIFICATION

ALERT

 Verified accident involving damage to irradiated fuel

AND

 Health Physics confirms fission product release from fuel

OR.

Vent Vent "B" Kaman monitor

RM-VG-180 GREATER THAN 1.83 x 106 μCi/sec

0R

HP assessment of sample results indicates GREATER THAN 10 times ODCM allowable limit (Alert per EAL E-3)

0R

Vent Vent "B" MGPI monitor

RM-VG-180 GREATER THAN 1.99 x $10^6~\mu\text{Ci/sec}$

10. Potential for fuel damage to occur during refueling

MODE 6

Continuing uncontrolled decrease of water level in Reactor Refueling Cavity or Spent Fuel Pool

ALERT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB C) FUEL FAILURE OR FUEL HANDLING ACCIDENT	PAGE
1		21 of 43

11. Fuel clad damage indication

MODES 1, 2, 3, & 4

INDICATION

Intentional reduction in power, load or temperature IAW reactor coolant activity T.S. Action Statement - HAS COMMENCED

<u>0R</u>

High Range Letdown radiation monitor

1-CH-RI-128 or 2-CH-RI-228 Increases to GREATER THAN Hi Alarm setpoint within 30 minutes and remains for at least 15 minutes CLASSIFICATION

NOTIFICATION OF UNUSUAL EVENT

12. Independent Spent Fuel Storage Installation (ISFSI) event

ALL MODES

Verified Sealed Surface Storage Cask (SSSC) seal leakage

<u>0R</u>

Sealed Surface Storage Cask (SSSC) dropped or mishandled NOTIFICATION OF UNUSUAL EVENT
 NUMBER
 ATTACHMENT TITLE
 REVISION

 EPIP-1.01
 EMERGENCY ACTION LEVEL TABLE
 34

 ATTACHMENT
 (TAB D)
 PAGE

 1
 CONTAINMENT EVENT
 22 of 43

CONDITION/APPLICABILITY

1. Extremely high containment radiation, pressure and temperature

MODES 1, 2, 3, & 4

INDICATION

 Containment High Range radiation monitor

> RM-RMS-165, -166 or RM-RMS-265, -266 GREATER THAN 3.76 x 10² R/hr

AND

 Containment pressure greater than 45 psia and not decreasing

0R

Containment temperature greater than 280°F

 High-high containment radiation, pressure, and temperature

MODES 1, 2, 3, & 4

 Containment High Range radiation monitor

> RM-RMS-165, -166 or RM-RMS-265, -266 GREATER THAN 1.88 x 10² R/hr

AND

 Containment pressure greater than 27.75 psia and not decreasing

<u>0R</u>

Containment temperature - greater than 200 °F

CLASSIFICATION

GENERAL EMERGENCY

SITE AREA

EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB D) CONTAINMENT EVENT	PAGE
1	CONTAINFILM LYLM	23 of 43

3. High Containment radiation, pressure and temperature

MODES 1, 2, 3, & 4

INDICATION

 Containment High Range radiation monitor

> RM-RMS-165, -166 or RM-RMS-265, -266 GREATER THAN 81.5 R/hr

<u>AND</u>

 Containment pressure greater than 17 psia

<u>0R</u>

Containment temperature – greater than $150^{\circ}\mathrm{F}$

CLASSIFICATION

ALERT

NUMBER ATTACHMENT TITLE REVISION EPIP-1.01 EMERGENCY ACTION LEVEL TABLE 34 ATTACHMENT (TAB E) PAGE 1 RADIOACTIVITY EVENT 24 of 43

CONDITION/APP	LICABILITY
---------------	------------

<u>INDICATION</u>

CLASSIFICATION

1. Release imminent or in progress and site boundary doses projected to exceed 1.0 Rem TEDE or 5.0 Rem Thyroid CDE

HP assessment indicates actual or projected doses at or beyond site boundary greater than 1.0 Rem TEDE or 5.0 Rem Thyroid CDE GENERAL EMERGENCY

ALL MODES

2. Release imminent or in progress and site boundary doses projected to exceed 0.1 Rem TEDE or 0.5 Rem Thyroid CDE

ALL MODES

HP assessment indicates actual or projected dose at or beyond Site Boundary exceeds 0.1 Rem TEDE or 0.5 Rem Thyroid CDE SITE AREA EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB E) RADIOACTIVITY EVENT	PAGE
1	MADIONO I TITTI LI LINI	25 of 43

 Effluent release greater than 10 times ODCM allowable limit

ALL MODES

INDICATION

CLASSIFICATION

ALERT

- a) Any of the following monitors indicate valid readings above the specified values for greater than 15 minutes
- Clarifier Effluent

RM-LW-111 GREATER THAN 4.8×10^5 cpm

• Discharge Canal

RM-SW-130 or -230 GREATER THAN 5 \times 10⁴ cpm

• Vent Vent A Kaman

RM-VG-179 GREATER THAN 1.83 x $10^6 \mu \text{Ci/sec}$

Vent Vent A MGPI

RM-VG-179 GREATER THAN 1.73 x $10^6 \mu \text{Ci/sec}$

• Vent Vent B Kaman

RM-VG-180 GREATER THAN 1.83 x $10^6 \mu \text{Ci/sec}$

• Vent Vent B MGPI

RM-VG-180 GREATER THAN 1.99 x 106 μCi/sec

Process Vent Kaman

RM-GW-178 GREATER THAN 2.0 x $10^7 \mu \text{Ci/sec}$

Process Vent MGPI

RM-GW-178 GREATER THAN 1.35 x $10^7 \mu \text{Ci/sec}$

<u>0R</u>

b) HP assessment (sample results or dose projections) indicate greater than 10 times ODCM allowable limit

NUMBER ATTACHMENT TITLE REVISION EPIP-1.01 EMERGENCY ACTION LEVEL TABLE 34 ATTACHMENT (TAB E) PAGE 1 RADIOACTIVITY EVENT 26 of 43

CONDITION/APPLICABILITY

4. High radiation or airborne contamination levels indicate a severe degradation in control of radioactive material

ALL MODES

INDICATION

Valid readings on any of the following monitors have increased by a factor of 1000 and remain for at least 15 minutes:

 Ventilation Vent Multisample gaseous or particulate monitor

RM-VG-106 or -105

Control Room Area

RMS-157

• Aux. Bldg. Control Area

RMS-154

Decon. Bldg. Area

RMS-151

Fuel Pool Bridge Area

RMS-153

New fuel storage Area

RMS-152

Laboratory Area

RMS-158

Sample Room Area

RMS-156

CLASSIFICATION

ALERT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB E)	PAGE
1	RADIOACTIVITY EVENT	27 of 43

5. Effluent release greater than ODCM allowable limit

ALL MODES

INDICATION

a) Any of the following monitors indicate valid readings above the specified value for more than 1 hour: CLASSIFICATION

NOTIFICATION OF UNUSUAL EVENT

• Clarifier Effluent

RM-LW-111 GREATER THAN 4.8 \times 10⁴ cpm

• Discharge Canal

RM-SW-130 or -230 GREATER THAN 5 x 10^3 cpm

• Vent Vent A Kaman

RM-VG-179 GREATER THAN 1.83 x $10^5 \mu \text{Ci/sec}$

Vent Vent A MGPI

RM-VG-179 GREATER THAN 1.73 x $10^5~\mu\text{Ci/sec}$

• Vent Vent B Kaman

RM-VG-180 GREATER THAN 1.83 x 105 μCi/sec

Vent Vent B MGPI

RM-VG-180 GREATER THAN 1.99 x 105 μCi/sec

Process Vent Kaman

RM-GW-178 GREATER THAN 2.0 x 106 μCi/sec

Process Vent MGPI

RM-GW-178 GREATER THAN 1.35 x 10^6 μ Ci/sec

<u>0R</u>

b) HP assessment (sample results or dose projections) indicates greater than ODCM allowable limit

NUMBER EPIP-1.01

ATTACHMENT TITLE

EMERGENCY ACTION LEVEL TABLE (TAB G)
LOSS OF SECONDARY COOLANT

REVISION

34

PAGE

28 of 43

1

ATTACHMENT

CONDITION/APPLICABILITY INDICATION

CLASSIFICATION

1. Major secondary line break with significant primary to secondary leakage and fuel damage indicated

Conditions a) and b) exist with c):

SITE AREA EMERGENCY

a) Uncontrolled loss of secondary coolant - IN PROGRESS

AND

MODES 1, 2, 3, & 4

b) RCS specific activity exceeds limits of T.S. Figure 3.4-1 (See Attachment 2)

<u>0R</u>

High Range Letdown radiation monitor

1-CH-RI-128 or 2-CH-RI-228 GREATER THAN Hi Alarm setpoint

<u>AND</u>

c) Vent Vent A Kaman Monitor

RM-VG-179 GREATER THAN $6.45 \times 10^7 \mu \text{Ci/sec}$

<u>0R</u>

HP determines Site Boundary DDE GREATER THAN 50 mrem/hr

0R

Vent Vent A MGPI Monitor

RM-VG-179 GREATER THAN 6.21 x $10^7 \mu \text{Ci/sec}$

0R

Affected pathway Steam Generator Blowdown monitor

RM-SS-122, -123, -124, -222, -223, -224 GREATER THAN 1 x 10^6 cpm

<u>0</u>R

Affected pathway Main Steam Line High Range monitor

RM-MS-170, -171, -172, -270, -271, -272 GREATER THAN 12.2 mR/hr
 NUMBER
 ATTACHMENT TITLE
 REVISION

 EPIP-1.01
 EMERGENCY ACTION LEVEL TABLE
 34

 ATTACHMENT
 (TAB G)
 PAGE

 1
 LOSS OF SECONDARY COOLANT
 29 of 43

CONDITION/APPLICABILITY

 Major secondary line break with significant primary to secondary leakage

MODES 1, 2, 3, & 4

INDICATION

 Uncontrolled loss of secondary coolant - IN PROGRESS

AND

Vent Vent A Kaman Monitor

RM-VG-179 GREATER THAN 1.83 x 106 μCi/sec

0R

HP assessment of sample results indicates GREATER THAN 10 times ODCM allowable limit (Alert per EAL E-3)

0R

Vent Vent A MGPI Monitor

RM-VG-179 GREATER THAN $1.76 \times 10^6 \ \mu \text{Ci/sec}$

0R

Steam Generator Blowdown monitor on affected pathway

RM-SS-122, -123, -124 RM-SS-222, -223, -224 GREATER THAN 1x10⁵ cpm

0R

Main Steam Line High Range monitor on affected pathway

RM-MS-170, -171, -172 RM-MS-270, -271, -272 GREATER THAN 0.14 mR/hr

Major secondary line break

MODES 1, 2, 3, & 4

Uncontrolled loss of secondary coolant – IN PROGRESS

NOTIFICATION OF UNUSUAL EVENT

CLASSIFICATION

ALERT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB H) ELECTRICAL FAILURE	PAGE
1		30 of 43

 Loss of offsite and onsite AC power for more than 15 minutes

ALL MODES

The following conditions exist for greater than 15 minutes:

 Ammeters for 4160V Reserve Station Service Buses D, E, & F all indicate - zero (0) amps

<u>AND</u>

 Ammeters for 4160V Station Service Buses A, B, & C all indicate - zero (0) amps

<u>AND</u>

 Ammeters for 4160V Emergency Buses H & J both indicate - zero (0) amps

2. Loss of all onsite DC power for greater than 15 minutes

ALL MODES

The following conditions exist for greater than 15 minutes:

 All station battery voltmeters indicate zero (0) volts

AND

 No light indication available to Reserve Station Service breakers 15D1, 15E1 and 15F1 SITE AREA EMERGENCY

SITE AREA EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB H) ELECTRICAL FAILURE	PAGE
1	ELECTRICAL TAILORE	31 of 43

INDICATION

CLASSIFICATION

EAL A.1 is duplicated below for cross-reference/comparison to EAL H.3: CAUTION:

A.1. Loss of function needed for unit

HSD condition

MODES 1, 2, 3 & 4

Total loss of the Charging/SI System **EMERGENCY**

ALERT

<u>0</u>R

Total loss of the Main Feedwater and Auxiliary Feedwater Systems

Loss of all offsite and onsite AC power

ALL MODES

Ammeters for 4160V Reserve Station Service Buses D, E, & F all indicate - zero (0) amps

AND

Ammeters for 4160V Station Service Buses A, B, & C all indicate - zero (0) amps

AND

- Ammeters for 4160V Emergency Buses H and J both indicate - zero (0) amps
- Loss of all onsite DC power

ALL MODES

All station battery voltmeters indicate - zero (0) volts

ALERT

AND

No light indication available to Reserve Station Service Breakers 15D1, 15E1 and 15F1

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB H) ELECTRICAL FAILURE	PAGE
1	ELECTRICAL TATEORE	32 of 43

5. Loss of offsite power or onsite AC power capability

ALL MODES

INDICATION

 Unit main generator and both emergency diesel generators out of service

0R

Loss of all 34.5 KV reserve station service buses

CLASSIFICATION

NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01 ATTACHMENT	EMERGENCY ACTION LEVEL TABLE (TAB I) FIRE	34 PAGE
1		33 of 43

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
	 Fire resulting in degradation of safety systems MODES 1, 2, 3, & 4 	 Fire which causes major degradation of a safety system function required for protection of the public 	SITE AREA EMERGENCY
		AND	
		 Affected systems are caused to be <u>NOT</u> operable as defined by Tech. Specs. 	
-	2. Fire potentially affecting station safety systems MODES 1, 2, 3, & 4	Fire which has potential for causing a safety system not to be operable as defined by Tech. Specs.	ALERT
-	3. Fire lasting greater than 10 minutes in Protected Area or Service Water Pump/Valve House	Fire within the Protected Area or Service Water Pump/Valve House which is not under control within 10 minutes after Fire Brigade – DISPATCHED	NOTIFICATION OF UNUSUAL EVENT

ALL MODES

NUMBER ATTACHMENT TITLE REVISION EPIP-1.01 EMERGENCY ACTION LEVEL TABLE 34 ATTACHMENT (TAB J) SECURITY EVENT PAGE 1 34 of 43

DITION/APPLICABILITY	<u>INDICATION</u>	CLASSIFICATION	
Loss of physical Station control ALL MODES	 Shift Supervisor has been informed that the security force has been neutralized by attack, resulting in loss of physical control of station 	GENERAL EMERGENCY	
	<u>0R</u>		
	Shift Supervisor has been informed of intrusion into one or more Vital Areas which are occupied or controlled by an aggressor		
Imminent loss of physical Station control	Security Shift Supervisor has notified the Operations Shift Supervisor of imminent intrusion into a Vital Area	SITE AREA EMERGENCY	
Ongoing Security compromise ALL MODES	Security Shift Supervisor has notified the Operations Shift Supervisor of a confirmed unneutralized intrusion into the Protected Area	ALERT	
Security threat, unauthorized attempted entry, or attempted sabotage ALL MODES	Security Shift Supervisor has recommended that the Operations Shift Supervisor declare a Notification of Unusual Event IAW applicable Security Contingency Plan Implementing Procedures	NOTIFICATION OF UNUSUAL EVENT	
	Loss of physical Station control ALL MODES Imminent loss of physical Station control ALL MODES Ongoing Security compromise ALL MODES Security threat, unauthorized attempted entry, or attempted sabotage	Loss of physical Station control ALL MODES ALL MODES ALL MODES Brift Supervisor has been neutralized by attack, resulting in loss of physical control of station OR Shift Supervisor has been informed of intrusion into one or more Vital Areas which are occupied or controlled by an aggressor Imminent loss of physical Station control ALL MODES Security Shift Supervisor has notified the Operations Shift Supervisor of imminent intrusion into a Vital Area Security Shift Supervisor has notified the Operations Shift Supervisor of a confirmed unneutralized intrusion into the Protected Area Security threat, unauthorized attempted entry, or attempted sabotage ALL MODES Security Shift Supervisor has recommended that the Operations Shift Supervisor declare a Notification of Unusual Event IAW applicable Security Contingency Plan Implementing	

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB K) HAZARD TO STATION OPERATION	PAGE
1		35 of 43

		DITION/APPLICABILITY Aircraft damage to vital plant systems MODES 1, 2, 3, & 4	INDICATION Aircraft crash which affects vital structures by impact or fire	CLASSIFICATION SITE AREA EMERGENCY
-	2.	Severe explosive damage MODES 1, 2, 3, & 4	Explosion which results in severe degradation of any of the following systems required for safe shutdown:	SITE AREA EMERGENCY
			• CVCS System	
			<u>OR</u>	
			ECCS System	
			<u>0R</u>	
			Main/Auxiliary Feedwater System	
-	3.	Entry of toxic or flammable gases into plant vital areas other than the Control Room	 Uncontrolled release of toxic or flammable agents greater than life threatening or explosive limits in Vital Areas 	SITE AREA EMERGENCY
		MODES 1, 2, 3, & 4	AND	
			 Evacuation of Vital Area other than Control Room - REQUIRED 	
			<u>OR</u>	
			Significant degradation of plant safety systems resulting in loss of a safety system function required for protection of the public	

NUMBER ATTACHMENT TITLE REVISION EPIP-1.01 EMERGENCY ACTION LEVEL TABLE 34 ATTACHMENT (TAB K) PAGE 1 HAZARD TO STATION OPERATION 36 of 43

	DITION/APPLICABILITY	INDICATION Missile impact causing severe	CLASSIFICATION SITE AREA
4.	Severe missile damage to safety systems	Missile impact causing severe degradation of safety systems required for unit shutdown	EMERGENCY
	MODES 1, 2, 3, & 4		
5.	Aircraft crash on the facility	Aircraft crash within the Protected Area	ALERT
	ALL MODES	or Switchyard	
6.	Explosion damage to facility	Unplanned explosion resulting in damage to plant structure or	ALERT
	ALL MODES	equipment that affects plant operations	
7.	Entry of toxic or flammable gases or liquids into plant facility	Notification of uncontrolled release of toxic or flammable agent which causes:	ALERT
	ALL MODES	 Evacuation of personnel from plant areas 	
		AND	
		 Safety related equipment is rendered inoperable 	
8.	Turbine failure or missile impact	Failure of turbine/generator rotating equipment resulting in	ALERT
		casing penetration	

NUMBER	₹		ATTACHMENT TITLE		REVISION
EPIP-1. ATTACHMI			MERGENCY ACTION LEVEL TABLE (TAB K) HAZARD TO STATION OPERATION	:	34 PAGE 37 of 43
COM	DITIO	AN /ADDITION TO	INDICATION	CLAC	SIFICATION
		N/APPLICABILITY sile damage to	<pre>INDICATION Notification of missile impact</pre>		
3.	safe equi	ety related pment or ictures	causing damage to safety related equipment or structures	ALLI	. 1
	MODE	S 1, 2, 3, & 4		•	
10.	unus	raft crash or ual aircraft vity	 Confirmed notification of aircraft crash within the site boundary 	NOTI OF U EVEN	FICATION NUSUAL T
	ALL	MODES	<u>0R</u>		
			Unusual aircraft activity in the vicinity of the site as determined by the Operations Shift Supervisor or the Security Shift Supervisor		

Confirmed report of train derailment within Protected

Confirmed report of unplanned

explosion within Protected

Notification of unplanned

of station personnel or equipment

release of toxic or flammable

agents which may affect safety

Area

Area

11. Train derailment

12. Explosion within

Protected Area

13. Onsite or nearsite release of toxic or

flammable liquids or

ALL MODES

ALL MODES

gases

ALL MODES

Area

within Protected

NOTIFICATION

NOTIFICATION OF UNUSUAL EVENT

NOTIFICATION

OF UNUSUAL

EVENT

OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB K) HAZARD TO STATION OPERATION	PAGE
1		38 of 43

14. Turbine rotating component failure with no casing penetration

MODES 1 & 2

INDICATION

Failure of turbine/generator rotating equipment resulting in immediate unit shutdown

CLASSIFICATION

NOTIFICATION OF UNUSUAL EVENT

l World			•			
EPIP-1	.01	EMER	RGENC	Y ACTION LEVEL TABLE		34
ATTACHM	1ENT		ħI A	(TAB L) TURAL EVENTS		PAGE
1			IVA	TORAL EVENTS		20 -5 42
<u> </u>						39 of 43
<u>CO</u> :	<u>NDITIC</u>)N/APPLICABILITY	IND	<u>ICATION</u>	CLAS	SIFICATION
1.	thar leve		•	Confirmed earthquake which activates the Event Alarm on the Strong Motion Accelerograph		AREA RGENCY
	ALL	MODES		AND		
			•	Alarms on the Peak Shock Annunciator indicate a horizontal motion of greater than or equal to 0.12 g or a vertical motion of greater than or equal to 0.08g		
2.	exce leve	tained winds in ess of design els experienced projected	0R	tained winds 150 mph GREATER experienced projected		E AREA RGENCY
	MODE	ES 1, 2, 3, & 4				
3.	leve	od or low water el above design els ES 1, 2, 3, & 4	Eit a)	ther condition a) or b) exists Flood in the Lake Anna Reservoir with indicated level - greater than 264 feet MSL		E AREA RGENCY
				<u>OR</u>		
			b)	Low water level in the Lake Anna Reservoir with indicated level – less than 244 feet MSL		
				<u>AND</u>		
				Inability to satisfy action requirements of T.S. 3.7.5.1 for Ultimate Heat Sink		

ATTACHMENT TITLE

NUMBER

REVISION

NUMBER ATTACHMENT TITLE REVISION EPIP-1.01 EMERGENCY ACTION LEVEL TABLE 34 ATTACHMENT (TAB L) PAGE 1 NATURAL EVENTS 40 of 43

<u>CON</u>	DITION/APPLICABILITY	INDICATION	<u>CLASSIFICATION</u>
4.	Earthquake greater than or equal to OBE levels ALL MODES	 Confirmed earthquake which activates Event Alarm on the Strong Motion Accelerograph AND 	ALERT
		 Alarms on the Peak Shock Annunciator indicate a horizontal motion of greater than or equal to 0.06 g or a vertical motion of greater than or equal to 0.04g 	
5.	Tornado striking facility ALL MODES	Tornado visually detected striking structures within the Protected Area or Switchyard	ALERT
6.	Hurricane winds near design basis level experienced or projected ALL MODES	Hurricane winds 120 mph OR GREATER experienced or projected	ALERT
7.	Flood or low water level near design levels ALL MODES	 Flood in the Lake Anna Reservoir with indicated level - greater than 263 feet MSL OR Low water level in the Lake Anna Reservoir with indicated level - less than 244 feet MSL 	ALERT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01 ATTACHMENT	EMERGENCY ACTION LEVEL TABLE (TAB L)	34 PAG E
1	NATÚRAL EVENTS	41 of 43

	<u>CON</u> 8.	DITION/APPLICABILITY Earthquake detected ALL MODES	Con	ICATION firmed earthquake which ivates the Event Alarm on Strong Motion Accelerograph	CLASSIFICATION NOTIFICATION OF UNUSUAL EVENT
-	9.	Tornado within Protected Area or Switchyard ALL MODES	wit	nado visually detected hin Protected Area or tchyard	NOTIFICATION OF UNUSUAL EVENT
-	10.	Hurricane force winds projected onsite within 12 hours ALL MODES	•	Confirmation by Virginia Power Weather Center that hurricane force winds (greater than 73 mph) projected onsite within 12 hours	NOTIFICATION OF UNUSUAL EVENT
•	11.	50 year flood or low water level ALL MODES	•	Flood in the Lake Anna Reservoir with indicated level - greater than 254 feet MSL OR Low water level in the Lake Anna Reservoir with indicated level less than 246 feet MSL	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01 ATTACHMENT	EMERGENCY ACTION LEVEL TABLE (TAB M) MISCELLANEOUS ABNORMAL EVENTS	34 PAGE
1		42 of 43

CON	DITION/APPLICABILITY	INDICATION	<u>CLASSIFICATIO</u>
1.	Any major internal or external events which singly or in combination cause massive damage to station facilities or may warrant evacuation of the public	Shift Supervisor/Station Emergency Manager judgement	GENERAL EMERGENCY
	ALL MODES		
2.	Station conditions which may warrant notification of the public near the site	Shift Supervisor/Station Emergency Manager judgement	SITE AREA EMERGENCY
	ALL MODES		
3.	Station conditions which have the potential to degrade or are actually degrading the level of safety of the station	Shift Supervisor/Station Emergency Manager judgement	ALERT
	ALL MODES		

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	34
ATTACHMENT	(TAB M) MISCELLANEOUS ABNORMAL EVENTS	PAGE
1		43 of 43

4. Station conditions which warrant increased awareness of state and/or local authorities

ALL MODES

INDICATION

Shift Supervisor judgement that any of the following exist:

CLASSIFICATION

NOTIFICATION OF UNUSUAL EVENT

 Unit shutdown is other than a controlled shutdown

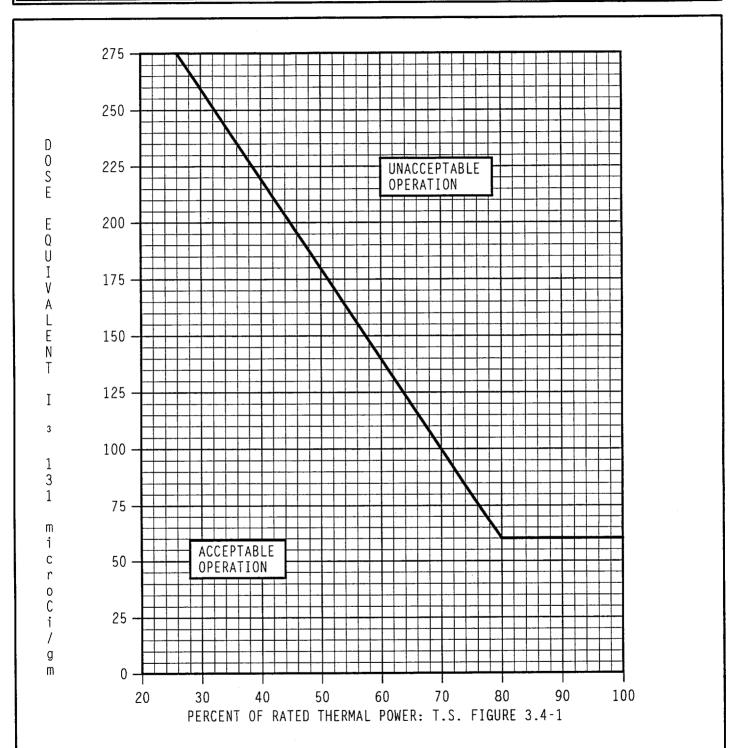
0R

Unit is in an uncontrolled condition during operation

<u>0R</u>

A condition exists which has the potential for escalation and therefore warrants notification

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	TECH SPEC FIGURE 3.4-1	34
ATTACHMENT		PAGE
2		1 of 1



DOSE EQUIVALENT I-131 PRIMARY COOLANT SPECIFIC ACTIVITY LIMIT Versus Percent of RATED THERMAL POWER with the Primary Coolant Specific Activity > 1.0 $\mu\text{Ci/gm}$ Dose Equivalent I-131

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	TURNOVER CHECKLIST	34
ATTACHMENT		PAGE
3		1 of 1

Condu follo compl	wing	turnover between the onshift and relief SEM in accordance with the checklist. Use placekeeping aid at left of item, "", to track n.
	1.	Determine the status of primary responder notification.
	2.	Determine the status of "Report of Emergency to State and Local Governments," EPIP-2.01, Attachment 2. Get completed copies if available.
	3.	Determine status of the "Report of Radiological Conditions to the State," EPIP-2.01, Attachment 3. Get completed copy if available.
	4.	Determine status of Emergency Notification System (ENS) communications and completion status of NRC Event Notification Worksheet (EPIP-2.02 Attachment 1).
	5.	Review classification and initial PAR status.
	6.	Review present plant conditions and status. Get copy of Critical Safety Functions form.
	7.	Review status of station firewatches and re-establish if conditions allow.
	8.	Determine readiness of TSC for activation.
	9.	After all information is obtained, transfer location to TSC. (Consider direct transfer of State & local notifications to LEOF/CEOF.)
	10.	Call the Control Room and assess any changes that may have occurred during transition to the TSC.
	11.	When sufficient personnel are available, the relief SEM is to assume the following responsibilities from the onshift Station Emergency Manager: a. Reclassification. b. Protective Action Recommendations until LEOF activated. c. Notifications (i.e., state, local, & NRC). Upon LEOF activation, transfer notification responsibilities except for the NRC ENS. d. Site evacuation authorization. e. Emergency exposure authorization. f. Command/control of onsite response.
	12.	Formally relieve the Interim SEM and assume control in the TSC. Announce name and facility activation status to facility.

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	CONSIDERATIONS FOR OPERATIONS RESPONSE	34
ATTACHMENT	UNDER ABNORMAL CONDITIONS	PAGE
4		1 of 1

This attachment provides procedural guidance for controlling selected emergency response actions when their implementation would have adverse results.

Station Emergency Manager (SEM) approval is required before any required action is postponed, suspended or modified. The guidance below is not all-inclusive.

SECURITY EVENT RESPONSE:

<u>IF</u> implementation of emergency response facility activation or assembly of personnel for accountability could compromise Security Plan response strategies or create a personnel safety hazard due to movement of personnel, <u>THEN</u> consider postponing or suspending emergency response actions until threat has been resolved.

UNANTICIPATED HAZARDOUS CONDITIONS EXIST (e.g., tornado or toxic release):

<u>IF</u> assembling personnel for accountability or activating emergency response facilities could endanger plant personnel, <u>THEN</u> consider postponing emergency assembly. (Consider implementing alternative notification methods on an ad hoc basis, e.g., selectively notify personnel in unaffected areas or defer notifications until hazardous conditions are resolved.)

<u>IF</u> notifying augmentation could create a safety hazard for personnel coming to the station, <u>THEN</u> consider postponing augmentation notification. (Consider implementing alternative notification methods on an ad hoc basis, e.g., selectively notify personnel reporting to unaffected areas or defer notifications until the hazardous condition is resolved.)

ANTICIPATED SITUATION (e.g., forecasted severe weather or grid disturbance):

<u>IF</u> all or part of the ERO has been staged in anticipation of a predicted event, <u>THEN</u> notify Security to omit performance of augmentation notification (as described in EPIP-3.05, AUGMENTATION OF EMERGENCY RESPONSE ORGANIZATION).

 $\overline{\text{IF}}$ adequate controls have been established to continually account for personnel staged in anticipation of a predicted event, $\overline{\text{THEN}}$ notify Security to omit performance of initial accountability (as described in EPIP-5.03, PERSONNEL ACCOUNTABILITY).

<u>IF</u> a decision has been made to staff the Central EOF in lieu of the LEOF, <u>THEN</u> notify Security that performance of EPIP-3.04, ACTIVATION OF LOCAL EMERGENCY OPERATIONS FACILITY, is not required.

<u>IF</u> environmental conditions are hazardous, <u>THEN</u> consult with Security Team Leader about suspending procedural requirements for staging road blocks (IAW EPIP-5.04, ACCESS CONTROL).

VIRGINIA POWER NORTH ANNA POWER STATION EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER EPIP-1.06	PROCEDURE TITLE PROTECTIVE ACTION RECOMMENDATIONS	REVISION 4
EP1P-1.00	(With 3 Attachments)	PAGE 1 of 3

PURPOSE

Give guidance to the Station Emergency Manager or Recovery Manager regarding determination of Protective Action Recommendations.

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. Activation by EPIP-1.05, RESPONSE TO GENERAL EMERGENCY.
- 2. Activation by CPIP-1.0, CORPORATE RESPONSE MANAGER ACTIVATION.
- 3. Activation by CPIP-6.0, LEOF RECOVERY MANAGER GUIDANCE.
- 4. As directed by the Station Emergency Manager or Recovery Manager.

Approvals on File

Effective Date 9/5/6/

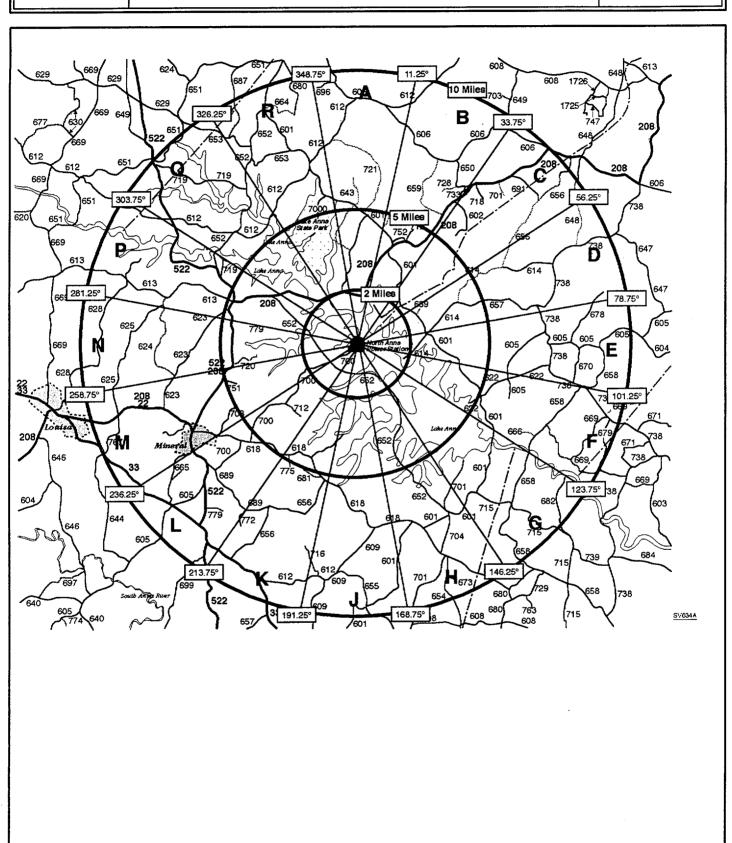
NUMBER PROCEDURE TITLE REVISION EPIP-1.06 PROTECTIVE ACTION RECOMMENDATIONS 4 PAGE 2 of 3

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
1	INITIATE PROCEDURE:	
	• By:	
	Date:	
	Time:	
<u>NOT</u>	<u>E</u> : The initial notification of General Protective Action Recommendation (PA within 15 minutes following declarat	R) must be made to the State
2	USE ATTACHMENT 2, PROTECTIVE ACTION RECOMMENDATION MATRIX, TO DETERMINE INITIAL PAR	
3	COMPLETE ATTACHMENT 3, PROTECTIVE ACTION RECOMMENDATION FORM:	
	a) Fill in Item 1 (Meteorological Data)	
	b) Mark appropriate PAR box of Item 2	
	c) Sign and date form	
4	DIRECT EMERGENCY COMMUNICATORS TO NOTIFY OFFSITE AUTHORITIES OF PAR:	
	 State Emergency Operations Center notified IAW EPIP-2.01, NOTIFICATION OF STATE AND LOCAL GOVERNMENTS 	
	 NRC notified IAW EPIP-2.02, NOTIFICATION OF NRC (notifications made from Control Room or TSC, when activated) 	

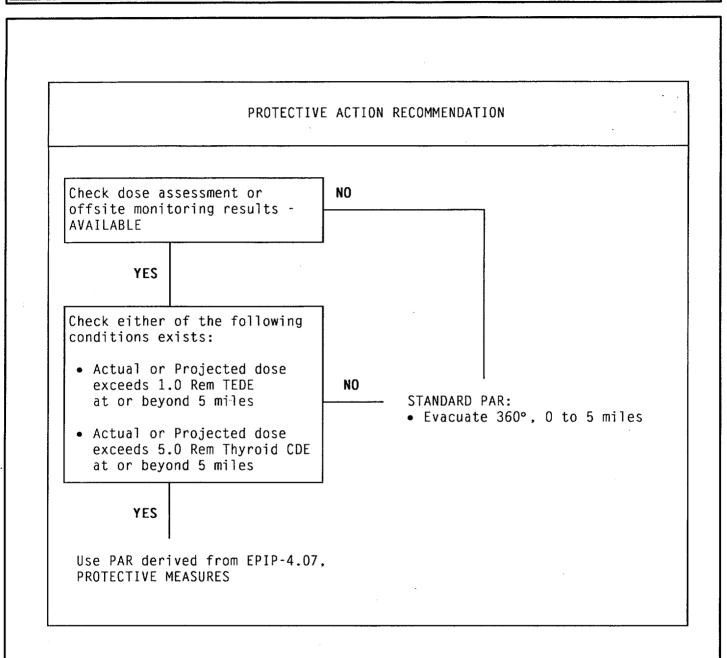
NUMBER	PROCEDURE TITLE	REVISION
EPIP-1.06	PROTECTIVE ACTION RECOMMENDATIONS	4
		PAGE
	·	3 of 3

STEP	Щ	ACTION/EXPECTED RESPONSE		RESPONSE NOT OBTAINED
	5	HAVE RADIOLOGICAL ASSESSMENT DIRECTOR (RAD) IMPLEMENT EPIP-4.07, PROTECTIVE MEASURES [RADIOLOGICAL ASSESSMENT COORDINATOR (RAC) IF IN LEOF]		
	6	CHECK IF RADIOLOGICAL-BASED PAR RECOMMENDS PROTECTIVE ACTIONS IN ANY NEW AREA(s)		<u>IF</u> PAR in effect - UNCHANGED, <u>THEN</u> GO TO Step 8.
	7	RETURN TO STEP 3		
	8	CHECK EMERGENCY - TERMINATED		<u>IF</u> RAD/RAC recommends a PAR change, <u>THEN</u> RETURN TO Step 6.
	9	TERMINATE EPIP-1.06:		
		 Give completed EPIP-1.06, forms and other applicable records to TSC Emergency Procedures Coordinator or LEOF Services Coordinator 		
		• Completed by:	_	
		Date:		
		Time:		
		-EN	ID -	

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.06	SECTOR MAP	4
ATTACHMENT		PAGE
1		1 of 1



NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.06	PROTECTIVE ACTION RECOMMENDATION MATRIX	4
ATTACHMENT	(NAPS)	PAGE
2	2 (NAPS)	



NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.06	PROTECTIVE ACTION RECOMMENDATION FORM	4
ATTACHMENT		PAGE
3		1 of 1

- NOTE: Downwind sectors—(primary plus 2 buffer sectors) may be determined from the State/Local Emergency Communicator, facility maps, or Attachment 1, Sector Map.
 - Wind direction is always given as the compass point the wind blows from, which is opposite from the primary downwind sector. Example: Wind direction from East North East (ENE) means Sector M is primary.
 - Recommendations for sheltering may be made at the discretion of the Station Emergency Manager / Recovery Manager.

1.	METE	OROLO:	GICAL DATA:
	WIND	SPEE	D: mph
	DOWN	WIND:	SECTORS:
2.	PROTI	ECTIV	E ACTION RECOMMENDATION:
	[]	STANI	DARD PAR:
		Evacı	uate 360° from <u>O</u> to <u>5</u> miles.
	[]	EXPA	NDED PAR:
		[]	Evacuate 360° from $\underline{0}$ to $\underline{5}$ miles.
		[]	Evacuate 360° from <u>5</u> to <u> </u>
		[]	Evacuate sectors from to miles.
		[]	Shelter 360° from to miles.
		[]	Shelter sectors from to miles.
		[]	Shelter unaffected sectors from to miles.
APPF	R OV ED	BY:	Station Emergency Manager or Date / Time Recovery Manager

VIRGINIA POWER NORTH ANNA POWER STATION EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	BER PROCEDURE TITLE			
EPIP-2.01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS			
	(With 3 Attachments)	PAGE		
	(wron a moodenmenos)	1 of 17		

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 9/26/200/

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:

- 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

<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.

NUMBER EPIP-2.01

PROCEDURE TITLE

NOTIFICATION OF STATE AND LOCAL GOVERNMENTS

REVISION

24

PAGE
2 of 17

_	STEP	\dashv	ACTION/EXPECTED RESPONSE		RESPONSE NOT OBTAINED
i		1	INITIATE PROCEDURE: • By: Date:	_	
	·		Time:	_	
		2	CHECK FIRST REPORT OF EMERGENCY FOR EVENT - REQUIRED		<pre>IF procedure previously initiated, THEN continue from step in effect identified during relief/turnover.</pre>
	<u>N</u>	<u>10T</u>	E: • The initial notification of completed within 15 minutes		ergency classification must be laring the emergency class.
					may be excluded from the first tion (including termination).
•			 Attachment 1, Instructions State and Local Governments 		pleting Report of Emergency to e referenced as needed.
		3	RECORD INFORMATION ON ATTACHMENT (REPORT OF EMERGENCY TO STATE AND LOCAL GOVERNMENTS)	2	
		4	CHECK EMERGENCY - REMAINS IN EFF		<u>IF</u> emergency terminated before message sent, <u>THEN</u> do the following:
					a) Record reason event terminated in Item 3.
					b) Record "State EOC-only portion of message not applicable" on bottom of Attachment 2 Page 2.
		5	HAVE SEM/RM APPROVE REPORT (initial at top of Attachment 2)		

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:

- 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, THEN RETURN TO Step 15 to prepare new radiological status message.

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

1F 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.

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS	24
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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

6 RECORD TIME NOTIFICATION STARTED

NOTE: • Multiple items excluded from a message may be read as a single statement, e.g., "Items 4 through 8 excluded from this message."

- Outbound calls through the PBX system are made by dialing 8-1-(area code)-###-####. Direct outbound calls may be made using unrestricted telephones by dialing 9-1-(area code)-###-#### (area code not required for direct outbound calls within local calling area). No prefix is required when using a commercial telephone.
- 7 SEND REPORT OF EMERGENCY TO STATE AND LOCAL GOVERNMENTS:
 - a) Check Instaphone CLEAR OF CONFLICTING MESSAGE TRAFFIC
- a) <u>IF</u> Instaphone <u>NOT</u> available, <u>THEN</u> do the following:
 - 1) Call State EOC on DEM ARD (Alternate: (804) 674-2400).
 - 2) Notify State EOC Duty Officer of need to transmit message.
 - 3) <u>WHEN</u> Instaphone available for message transmittal, <u>THEN</u> GO TO Step 7.b.
- b) Use Instaphone to contact State and local Emergency Operations Centers (EOCs)
- c) Perform initial roll-call (check boxes as EOC(s) answer or circle if no response)
- d) 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)

b) <u>IF</u> Instaphone <u>NOT</u> operable, <u>THEN</u> GO TO Step 11.

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:

- 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), THEN 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.

NOTE: 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

1f 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.

NUMBER	PROCEDURE TITLE	REVISION
EPIP-2.01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS	24
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		4 of 17

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 7 SEND REPORT OF EMERGENCY TO STATE AND LOCAL GOVERNMENTS: (Continued)
 - f) Repeat any items upon request
 - g) Record date and time transmittal of Items 1 through 9 completed
 - h) Check message reports emergencyREMAINS IN EFFECT
- h) <u>IF</u> State EOC acknowledged message, <u>THEN</u> GO TO Step 9.

 $\underline{\text{IF}}$ State EOC did $\underline{\text{NOT}}$ acknowledge message, $\underline{\text{THEN}}$ do the following:

1) Use DEM ARD phone to contact State EOC (Alternate: (804) 674-2400 (ask for Duty Officer)).

<u>IF</u> all means of communications with State EOC are inoperable, <u>THEN</u> do the following:

- a) Notify SEM/RM.
- b) GO TO Step 9.
- 2) Read Items 1 through 9.
- 3) GO TO Step 9.

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:

- 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

 $\overline{\text{WHEN}}$ scheduled Report of Emergency to State and Local Governments - DUE, $\overline{\text{THEN}}$ RETURN TO Step 3 to prepare new emergency message.

NOTE: 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

WHEN updated Radiological Status report provided by radiological assessment organization. THEN 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.

PROCEDURE TITLE REVISION NUMBER EPIP-2.01 NOTIFICATION OF STATE AND LOCAL GOVERNMENTS 24 PAGE 5 of 17

STEP ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 7 SEND REPORT OF EMERGENCY TO STATE AND LOCAL GOVERNMENTS: (Continued)
 - i) Use DEM ARD phone to contact State EOC (Alternate: (804) 674-2400 (ask for Duty Officer))
- i) IF all means of communications with State EOC are inoperable, THEN do the following:
 - 1) Use Instaphone to transmit Item 10 to local EOCs.
 - 2) Record the following on second page of Attachment 2:
 - "Transmitted Item 10 to local EOCs."
 - Date and time transmitted to each local EOC.
 - 3) GO TO Step 9.
- j) Check State EOC acknowledged
 j) Read Items 1 through 9. message
- 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 name
- RECORD DATE AND TIME TRANSMITTAL OF ITEMS TO STATE EOC COMPLETE

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), $\underline{\text{THEN}}$ 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), THEN 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

 ${\underline{\sf WHEN}}$ scheduled Report of Emergency to State and Local Governments - DUE, ${\underline{\sf THEN}}$ 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 OBTAINED

9 VERIFY ALL LOCAL EOCS ANSWERED ACKNOWLEDGEMENT ROLL CALL

IF any EOC(s) did NOT answer
acknowledgement roll-call, THEN do
the following:

- a) Use telephone to call EOC(s) that did not answer.
- b) Refer to the table below for order of priority and list of local EOC phone numbers:

Louisa:	(540)	967-1234	(local)
Spotsylvania:	(540)	582-7115	
Caroline:	(804)	633-5555	
Orange:	(540)	672-1234	
Hanover:	(804)	537-6140	

c) <u>IF</u> State EOC notified, <u>THEN</u> read Items 1 through 9.

 $\overline{\text{IF}}$ NO communications with State EOC, $\overline{\text{THEN}}$ read Items 1 through 10.

- d) Record the following on Attachment 2:
 - Method of contact.
 - Reason Instaphone failed (if known).
 - Date and time of contact.

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), $\underline{\text{THEN}}$ 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

 ${\underline{\sf WHEN}}$ scheduled Report of Emergency to State and Local Governments - DUE, ${\underline{\sf THEN}}$ RETURN TO Step 3 to prepare new emergency message.

NOTE: 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.

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

1F 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
	1		

RESPONSE NOT OBTAINED

<u>NOTE</u>: Other personnel may assist by making notifications simultaneously using other telephones.

- _ 11 SEND ATTACHMENT 2 USING ALTERNATIVE MEANS:
 - a) Call State EOC:
 - 1) Use DEM ARD (Alternate: (804) 674-2400, ask for EOC Duty Officer)
 - 2) Read entire Attachment 2
 - 3) Record date/time transmittal to State EOC complete
 - b) Call each local EOC and read Items 1 through 9:

Louisa:	(540)	967-1234	(local)
Spotsylvania:	(540)	582-7115	
Caroline:	(804)	633-5555	
Orange:	(540)	672-1234	
Hanover:	(804)	537-6140	

- c) Record date/time transmittal of Items 1 through 9 complete
- ____ 12 NOTIFY SEM/RM TRANSMITTAL WAS SENT
- ____ 13 KEEP ATTACHMENT 2 WITH THIS PROCEDURE

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), $\underline{\text{THEN}}$ 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.

NOTE: 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

WHEN updated Radiological Status report provided by radiological assessment organization, THEN 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

14 CHECK IF ITEM 11 ON REPORT OF EMERGENCY TO STATE AND LOCAL GOVERNMENTS INDICATES REPORT OF RADIOLOGICAL CONDITIONS - REQUIRED GO TO Step 17.

- **NOTE:** The initial Report of Radiological Conditions must be transmitted to the State EOC (or State representatives in the LEOF/CEOF) as soon as possible following the release of radioactive material.
 - Follow-up reports should be issued approximately every 60 minutes or when there are changes in radiological conditions. Time should be measured from time of delivery, time facsimile sent, or time verbal transmittal completed.
- 15 GET REPORT OF RADIOLOGICAL CONDITIONS FOR THE STATE:
 - a) Check if either of the following Radiological Status reports available:
 - MIDAS Radiological Status report

0 R

- EPIP-4.03. DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE. Attachment 1, Radiological Status
- b) Get Radiological Status report from radiological assessment organization
- c) Check report COMPLETE

- a) Do the following:
 - 1) Determine from radiological assessment organization when report will be available.
 - 2) Notify SEM/RM about delay.
 - 3) WHEN Radiological Status report becomes available, THEN continue in this procedure.
- c) IF blank items remain on Radiological Status report, THEN return report to radiological assessment organization for completion.

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. \underline{IF} 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), \underline{THEN} 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.

NOTE: 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.

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

- ___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 Virginia Power/North Anna Emergency Communicator
 - c) Check Report of Radiological Conditions to the State - SENT VIA FACSIMILE MACHINE
 - 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
- c) <u>IF</u> Radiological Status report communicated verbally or delivered, <u>THEN</u> GO TO Step 16.g.
- e) <u>IF</u> receipt of message <u>NOT</u> verified. <u>THEN</u> do the following:
 - 1) Call State EOC on DEM ARD (Alternate: (804) 674-2400).
 - 2) 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 SENT
- h) Keep Attachment 3 with this procedure

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

 ${\underline{\sf WHEN}}$ scheduled Report of Emergency to State and Local Governments - DUE, ${\underline{\sf THEN}}$ 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 OBTAINED

NOTE: Follow-up reports of emergency conditions must be provided to State and local governments approximately every 60 minutes (from previous message notification start time) or when there are changes in emergency conditions, unless otherwise agreed upon with the State.

- ___ 17 CHECK ANY OF THE FOLLOWING MESSAGE UPDATE CONDITIONS EXISTS:
 - Status of any of the following Report of Emergency items CHANGED:
 - Emergency class (including event termination)
 - Offsite Assistance Required
 - Site Evacuation
 - Prognosis Worsening
 - Radioactive Release
 - Protective Action Recommendation

0R

 Updated Radiological Status report provided by radiological assessment organization

<u>0R</u>

- Follow-up report due IAW schedule established with State EOC Duty Officer
- _ 18 RETURN TO APPLICABLE STEP AS INDICATED BELOW:

<u>WHEN</u> Report of Emergency message update conditions satisfied, <u>THEN</u> RETURN TO Step 3.

<u>WHEN</u> Report of Radiological Conditions message update conditions satisfied, <u>THEN</u> RETURN TO Step 15.

<u>IF</u> termination message has been sent, <u>THEN</u> GO TO Step 27.

Report of Emergency to State and Local Governments	RETURN TO Step 3
Report of Radiological Conditions to the State	RETURN TO Step 15

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), $\underline{\text{THEN}}$ 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

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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- NOTE: Data may be obtained from meteorological panel charts (via TSC staff communicating with Control Room when ERFCS not available) or ERFCS (group reviews or EMCOMM, activated by typing EMCOMM and pressing the gray button labeled LAST).
 - Both the ERFCS EMCOMM feature and ERFCS Group Review #39. COMERDS-1, Common ERDS Points, contain meteorological information averaged over the previous 15 minutes.
- 19 CHECK ON-SITE METEOROLOGICAL INFORMATION - AVAILABLE

IF on-site data NOT available. THEN do the following:

- a) Get regional information from one of the following:
 - Company Weather Center: (804) 273-3025.
 - National Weather Service (NWS): (800) 737-8624.
 - Have HP initiate EPIP-4.10, DETERMINATION OF X/Q.
- b) Give meteorological information to requestor.
- c) RETURN TO procedure step in effect.

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.
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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:
 - Update current message to include changed condition(s).
 - RETURN TO Step 3 to prepare new emergency message.

2. REPORT OF EMERGENCY UPDATE CRITERIA

 ${\hbox{\tt WHEN}}$ scheduled Report of Emergency to State and Local Governments - DUE, ${\hbox{\tt THEN}}$ 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

1f 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

- 20 GET ON-SITE METEOROLOGICAL INFORMATION AS REQUESTED:
 - a) Refer to specified step(s) to acquire requested information:

Temperature	Step 21
Wind Speed	Step 22
Wind Direction	Step 23
Affected Sectors	Steps 23 and 24
Stability Class	Step 25

- b) Give meteorological information to requestor
- c) RETURN TO procedure step in effect
- __21 GET TEMPERATURE FROM MAIN TOWER TEMPERATURE INDICATOR

NOTE: Primary source of wind speed is the Main Tower Level indicator. Alternates sources are (1) Backup Tower, and (2) Main Tower Upper Level.

___ 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), $\underline{\text{THEN}}$ 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.

NOTE: 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 OBTAINED

- NOTE: An approximate average wind direction for previous 15 minutes should be determined.
 - Primary source of wind direction is the Main Tower Lower indicator. Alternates sources are (1) Backup Tower, and (2) Main Tower Upper Level.
 - Wind direction is always given as the compass point the wind blows from. Example: Wind direction is from East North East (ENE).

_ 23 GET WIND DIRECTION IN TERMS OF COMPASS POINT WIND BLOWING FROM:

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

1. REPORT OF EMERGENCY CONDITION CHANGE CRITERIA

 ${\hbox{WHEN}}$ emergency conditions change (e.g., classification, event termination, offsite assistance, site evacuation, worsening prognosis, release of radioactive material, Protective Action Recommendation), ${\hbox{THEN}}$ 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.
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- b. $\underline{\text{IF}}$ new/revised message can be prepared without delaying timely transmittal of an initial message reporting an emergency class, $\underline{\text{THEN}}$ 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

 $\overline{\text{WHEN}}$ scheduled Report of Emergency to State and Local Governments - DUE, $\overline{\text{THEN}}$ 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 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

<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.
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 - Update current message to include changed condition(s).
 - RETURN TO Step 3 to prepare new emergency message.

2. REPORT OF EMERGENCY UPDATE CRITERIA

 ${\hbox{\tt WHEN}}$ scheduled Report of Emergency to State and Local Governments - DUE, ${\hbox{\tt THEN}}$ 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 RI

RESPONSE NOT OBTAINED

<u>NOTE</u>: • 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 TOWE	R DEL	TA T	BACKUP TOW	ER SIG	MA THETA
DELTA T (°F)	STAB	ILITY CLASS	SIGMA THETA (°)	STAB	ILITY CLASS
≤ -1.31	==	Α	≥ 22.5	=	A
-1.30 to -1.18	=	В	22.4 to 17.5	=	В
-1.17 to -1.04	=	С	17.4 to 12.5	=	С
-1.03 to -0.35	=	D	12.4 to 7.5	=	D
-0.34 to +1.04	=	Е	7.4 to 3.8	=	E
+1.05 to +2.77	=	F	3.7 to 2.1	=	F
> +2.77	***	G	< 2.1	=	G

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), $\underline{\text{THEN}}$ 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.

NOTE: 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

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

4. METEOROLOGICAL INFORMATION REQUEST CRITERIA

1F 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: Responsibilities may be transferred to relief within a facility or to another facility, e.g., Control Room to TSC, Control Room to LEOF or CEOF, or TSC to LEOF or CEOF.

- - 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
 - f) Have relief/turnover recorded in event log
 - g) Check INTERFACILITY TURNOVER
 HAS BEEN COMPLETED
- g) RETURN TO step in effect prior to relief.

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), $\underline{\text{THEN}}$ do one of the following:

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 - 1) Complete transmittal of current message.
 - 2) RETURN TO Step 3 to prepare new emergency message.
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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

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

5. SHIFT RELIEF OR INTERFACILITY TURNOVER CRITERIA

NUMBER EPIP-2.01

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NOTIFICATION OF STATE AND LOCAL GOVERNMENTS

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STEP	Н	ACTION/EXPECTED	RESPONSE
	•		

RESPONSE NOT OBTAINED

___ 27 TERMINATE 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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EPIP-2.01	INSTRUCTIONS FOR COMPLETING REPORT OF EMERGENCY TO	24
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Form Field	Instructions for	Preparing	Form:

Approval (SEM or RM)

Leave blank. (The Station Emergency Manager (SEM) or Recovery Manager (RM) signs/initials this space after message is drafted.)

Message

Record sequential message number on pages 1 and 2.

A single numbering sequence is used for Reports of Emergency to State and Local Governments (Attachment 2) from the initial classification until the Emergency Plan is exited. The numbering sequence for Reports of Radiological Conditions to the State (Attachment 3) is separate.

Notification Start Time

Leave blank. (Enter notification start time when beginning transmittal of the approved message.)

Location

Check off facility from which notification will be made.

Roll Call

Leave blank. (Check off recipients of the emergency message when they answer the roll call.)

NOTE: • Information to complete Items 1-2 and 4-7 obtained from SEM/RM.

- Items 4, 5, 6, 7 and/or 8 are optional for a message reporting initial entry into the Emergency Plan or an emergency class change, including emergency termination and may be checked 'Excluded from this message.'
- Inclusion of optional items, e.g., Item 6, Evacuation of onsite personnel, should be considered when it can result in avoiding an immediate follow-up message.

Item 1 Emergency Class.

 $\overline{\text{IF}}$ message initial or follow-up report, $\overline{\text{THEN}}$ do the following:

- a. Check block for highest applicable emergency class.
- b. Enter time (0001-2400) and date of declaration.

<u>IF</u> initial message is also a termination report, <u>THEN</u> record time of termination Item 3.

IF message emergency termination report, THEN do the following:

- a. Check Emergency Terminated block.
- b. Complete Items 2, 3 and 9.

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-2.01	INSTRUCTIONS FOR COMPLETING REPORT OF EMERGENCY TO	24
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Item 2 Release of radioactive material.

The SEM/RM determines whether a release of radioactive material is occurring, has occurred, has occurred and has been terminated, or is projected to occur based on plant indications and/or consultation with the RAD/RAC. For the purposes of emergency messages, release refers to a radiological release attributable to the emergency event.

Item 3 Remarks / Description of event.

Write Remarks / Description of event in plain language. Avoid technical jargon, abbreviations and acronyms.

Explain any change in the prognosis of situation (Item 7) reported in the previous message.

 $\overline{\text{IF}}$ Item 2 indicated a radiological release is occurring or has occurred, $\overline{\text{THEN}}$ remarks should be entered placing the release in context, e.g., release is estimated to be confined to the site, release estimated to be within normal plant limits, site boundary dose rates are below offsite protective action levels.

Avoid repeating Remarks / Description of event from the previous message.

The description should describe current conditions at the time the report approved by the SEM/RM.

Item 4 Assistance requested.

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

This item documents requests that have been made for on-site assistance from off-site organizations such as from fire departments, rescue squads or law enforcement agencies, including local law enforcement. Virginia State Police, Federal Bureau of Investigation, etc.). This item is NOT for requesting assistance. A check block for other off-site organizations and space to record a description of the off-site organization is provided, e.g., U.S. Department of Energy.

Continue to record requests for assistance until the request has been canceled or off-site assistance has been released. For an ambulance, continue to record request for assistance until the ambulance has been released from the hospital.

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EPIP-2.01	INSTRUCTIONS FOR COMPLETING REPORT OF EMERGENCY TO	24
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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.

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Form Field <u>Instructions for Preparing Form</u>:

NOTE: 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:

- ERFCS EMCOMM feature (15-minute average) (activated by typing EMCOMM and pressing the gray button labeled LAST)
- ERFCS Group Review #39, COMERDS-1, Common ERDS Points (15-minute average)
- Control Room meteorological panel charts (approximate average for previous 15 minutes) (communicate with Control Room staff when ERFCS not available in other facilities)

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

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Form Field <u>Instructions for Preparing Form</u>:

Item 8 [continued]

Meteorological data.

Multiple indications of wind direction and wind speed are available. The priority for using these indications is:

- 1 Main Tower Lower Level
- 2 Backup Tower
- 3 Main Tower Upper Level

Check [] Based on offsite regional data when onsite measurements are NOT available. Regional wind speed and wind direction data may be obtained from the following in the order indicated:

- 1 Company Weather Center, (804) 273-3025
- 2 National Weather Service (NWS), (800) 737-8624

Use the following table to convert indicated degree reading to compass point wind blowing from.

DEGREES			COMI	PASS POINT
12-34 35-56 57-79 80-101 102-124 125-146 147-169 170-191 192-214 215-236 237-259 260-281 282-304 305-326	or or or or or or	485-506 507-529	N NNE ENE E SE SSE SSW WSW WNW	(NORTHEAST) (EAST NORTHEAST) (EAST) (EAST SOUTHEAST) (SOUTH SOUTHEAST) (SOUTH SOUTHEAST) (SOUTH) (SOUTH SOUTHWEST) (SOUTHWEST) (WEST SOUTHWEST) (WEST NORTHWEST) (NORTHWEST)
327 - 349			NNW	(NORTH NORTHWEST)

Record wind direction in compass point wind is blowing from.

Record wind speed.

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EPIP-2.01	INSTRUCTIONS FOR COMPLETING REPORT OF EMERGENCY TO	24
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Form Field	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.
	$\underline{\text{IF}}$ Item 1 indicates the emergency class is a Notification of Unusual Event, Alert or Site Area Emergency, $\underline{\text{THEN}}$ check [] None.
	$\overline{\text{IF}}$ Item 1 indicates the emergency class is a General Emergency, $\overline{\text{THEN}}$ copy recommended offsite protective action from EPIP-1.06, PROTECTIVE ACTION RECOMMENDATION, Attachment 3, in Item 10.
Item 11	Report of Radiological Conditions.
	$\overline{\text{IF}}$ Item 2 indicates a release of radioactive material has NOT occurred and is NOT projected, $\overline{\text{THEN}}$ check [] We will not issue a Report of Radiological Conditions.
	$\underline{\it IF}$ a Report of Radiological Conditions is required $\underline{\it AND}$ 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
	$\underline{\text{THEN}}$ check [] We will provide the Report of Radiological Conditions to the State representatives in the LEOF (CEOF).
	\underline{IF} a Report of Radiological Conditions is required \underline{AND} has to be transmitted to the State EOC, \underline{THEN} 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	24
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Form Field	Instructions for Preparing Form:
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 Close-Out	Leave blank. (Check off facility from which notification was made and enter date/time after transmitting Items 10-12.)

NUMBER

EPIP-2.01 ATTACHMENT

ATTACHMENT TITLE

REPORT OF EMERGENCY TO STATE AND LOCAL GOVERNMENTS

REVISION

24

PAGE

2

1 of 2

APPROVAL: (SEM or RM):; MESSAGE #; TIME NOTIFICATION STARTED: This is North Anna Power Station [] Control Room [] TSC [] LEOF [] CEOF. Standby for a roll-call followed by					
	ency message. Use a Report of Emergency form to copy th				
	party answers)	_			and check boxe
		• :			•
	[] Louisa County [] State EOC	[] Orange	County		
	[] Spotsylvania County [] Hanover County	[] Caroli	ne County		
The emerg	ency message is as follows: (READ SLOWLY)				
Item 1:	Emergency Class:				
	[] Notification of Unusual Event [] Site Area Emer	gency	Declared a	nt	on
	[] Alert [] General Emerge	•		(24-hr time	
	[] Emergency Terminated				
Item 2:	Release of radioactive material:	٠.			
	[] Has NOT occurred and is NOT projected [] Is	presently	y occurring		
	[] Has occurred and is now terminated [] Is	projected	d to occur		
Item 3.	Pemarks / Description of event.				
Item 3:	Remarks / Description of event:	· · · · · · · · · · · · · · · · · · ·			
Item 3:	Remarks / Description of event:				
Item 3:	Remarks / Description of event:				
	Remarks / Description of event:				termination).
NOTE:		ng any emo	ergency clas	s (including	
NOTE:	Items 4 - 8 may be excluded from initial message reporti	ng any emo	ergency clas		
NOTE:	Items 4 - 8 may be excluded from initial message reporti Assistance requested: [] None	ng any emo	ergency clas	s (including	
NOTE:	Items 4 - 8 may be excluded from initial message reporti	ng any emo	ergency clas	s (including	
NOTE:	Items 4 - 8 may be excluded from initial message reporti Assistance requested: [] None (#) Fire Units from	ng any emo	ergency clas	s (including	
NOTE:	Items 4 - 8 may be excluded from initial message reporti Assistance requested: [] None (#) Fire Units from (#) Police Units from	ng any emo	ergency clas	s (including	
NOTE: Item 4:	Items 4 - 8 may be excluded from initial message report! Assistance requested: [] None (#) Fire Units from (#) Police Units from (#) Rescue Units from	ng any em	ergency clas	s (including	•
NOTE: Item 4:	Items 4 - 8 may be excluded from initial message reporti Assistance requested: [] None	ng any em	ergency clas	s (including this message	•
NOTE: Item 4:	Items 4 - 8 may be excluded from initial message reporti Assistance requested: [] None	ng any em	ergency clas	s (including this message	•
NOTE: Item 4:	Items 4 - 8 may be excluded from initial message report! Assistance requested: [] None	ng any em	ergency clas	s (including this message	•
NOTE: Item 4:	Items 4 - 8 may be excluded from initial message report! Assistance requested: [] None	ng any em	ergency clas	s (including this message	•
NOTE: Item 4:	Items 4 - 8 may be excluded from initial message reporti Assistance requested: [] None	ng any em	ergency clas	this message	
NOTE: Item 4: Item 5:	Items 4 - 8 may be excluded from initial message reporti Assistance requested: [] None	ng any em	ergency clas	s (including this message	
NOTE: Item 4: Item 5:	Items 4 - 8 may be excluded from initial message reporti Assistance requested: [] None	ng any em	ergency clas	this message	
NOTE: Item 4: Item 5:	Items 4 - 8 may be excluded from initial message reporti Assistance requested: [] None	ng any em [] Ex	ergency clas	this message	

(ATTACHMENT 2 CONTINUED ON NEXT PAGE)

NUMBER

EPIP-2.01
ATTACHMENT

2

ATTACHMENT TITLE

REPORT OF EMERGENCY TO STATE AND LOCAL GOVERNMENTS

REVISION

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Item 7:	Prognosis of situa	ation.	[] Evaluded Coop 11.5
	[] Improving	[] Stable	[] Excluded from this message
	[] Worsening	[] Other	
Item 8:	Meteorological dat		[] Excluded from this message
			d on offsite regional data:
	[] Wind direction	is from the:	[] Wind speed is mph
	[] Not available		
Item 9:	This is (name)		/Emergency Communicator.
	Please acknowledge	receipt of this massace	/Emergency Communicator. e. (Conduct roll-call and check boxes)
	. reade acknowledge	receipt of this message	e. (Conduct roll-call and check boxes)
	[] Louisa County	[] State EOC	[] Orange County
	[] Spotsylvania Cou	unty [] Hanover Count	ty [] Caroline County
This is I	North Anna Power Stati	ion [] Control Room []	TSC [] LEOF [] CEOF out at on
			(24-hr time) (date)
NOTE:	transmitted, the foll	lowing information is fo	tted when the message reports emergency termination. When or state use only. Transmit to State EOC using the DEM ARD. TSC [] LEOF [] CEOF continuing the emergency message
his is h	transmitted, the foll	lowing information is fo	or state use only. Transmit to State EOC using the DEM ARD. TSC [] LEOF [] CEOF continuing the emergency message.
his is h	transmitted, the foll	iowing information is fo	or state use only. Transmit to State EOC using the DEM ARD. TSC [] LEOF [] CEOF continuing the emergency message.
his is h	North Anna Power Stati Recommended offsite [] None	iowing information is fo	or state use only. Transmit to State EOC using the DEM ARD. TSC [] LEOF [] CEOF continuing the emergency message.
his is A	North Anna Power Stati Recommended offsite [] None	iowing information is fo	or state use only. Transmit to State EOC using the DEM ARD. TSC [] LEOF [] CEOF continuing the emergency message.
his is A	North Anna Power Stati Recommended offsite [] None [] Standard: Evacu [] Expanded:	iowing information is folion [] Control Room [] e protective actions are that the state of the s	es to <u>5</u> miles.
his is A	North Anna Power Stati Recommended offsite [] None [] Standard: Evacu [] Expanded: [] Evacuate 360°	iowing information is fo ion [] Control Room [] protective actions are sate 360° from 0 mile from 0 miles to 5	es to miles.
his is A	Recommended offsite [] None [] Standard: Evacu [] Expanded: [] Evacuate 360° [] Evacuate 360°	iowing information is form [] Control Room [] e protective actions are nate 360° from 0 miles to 9 from 0 miles to 9 from 5 miles to 9	es to miles. Transmit to State EOC using the DEM ARD. TSC [] LEOF [] CEOF continuing the emergency message.
	Rorth Anna Power Stati Recommended offsite [] None [] Standard: Evacu [] Expanded: [] Evacuate 360° [] Evacuate 360° [] Evacuate sectors	iowing information is form [] Control Room [] e protective actions are nate 360° from 0 miles to 9 from 0 miles to 9 from 5 miles to 9	es to miles. from miles to miles.
his is A	Recommended offsite [] None [] Standard: Evacu [] Expanded: [] Evacuate 360° [] Evacuate section [] Shelter sector	from _0 miles to	es to _5_ miles. from miles to miles. from miles to miles. from miles to miles.
his is A	Recommended offsite [] None [] Standard: Evacu [] Expanded: [] Evacuate 360° [] Evacuate section [] Shelter sector	from _ O _ miles to from _ S _ miles to from _ S _ miles to from _ miles to from _ miles to	es to _5_ miles. from miles to miles. from miles to miles. from miles to miles.
his is A	Recommended offsite [] None [] Standard: Evacu [] Expanded: [] Evacuate 360° [] Evacuate 360° [] Evacuate section [] Shelter section [] Shelter unaffe	fromOmiles to fromOmiles to fromOmiles to fromOmiles to fromOmiles to from miles to from miles to from from from from from	es to miles. from miles to miles.
his is N	Recommended offsite [] None [] Standard: Evacu [] Expanded: [] Evacuate 360° [] Evacuate 360° [] Evacuate sector [] Shelter sector [] Shelter unaffe [] We will transmit	iowing information is form [] Control Room [] e protective actions are reported actions.	es to miles. from miles to miles. from miles to miles. miles to miles. from miles to miles. miles to miles. from miles to miles. miles to miles.
his is M	Recommended offsite Recommended offsite None Standard: Evacu Expanded: Evacuate 360° Evacuate 360° Evacuate 360° Evacuate secto Shelter 360° Expanded: Shelter secto Shelter unaffe	iowing information is form [] Control Room [] e protective actions are reported actions.	es to miles. from miles to miles. al Conditions to the State EOC. cal Conditions to the State representatives in the LEGE (CEO
his is M	Rorth Anna Power Stati Recommended offsite [] None [] Standard: Evacu [] Expanded: [] Evacuate 360° [] Evacuate sect: [] Shelter secto: [] Shelter unaffe [] We will transmit [] We will not issue	iowing information is form [] Control Room [] e protective actions are protective actions	es to miles. from miles to miles. al Conditions to the State EOC. cal Conditions to the State representatives in the LEGE (CEO

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ATTACHMENT	REPORT OF RADIOLOGICAL CONDITIONS TO THE STATE	PAGE
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PART I. <u>Instructions for North Anna Emergency Communicator</u> :
1. 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 VDES <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 AND 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.
\underline{IF} report will be sent by facsimile, \underline{THEN} ask facsimile machine operator to transmit this message \underline{IF} transmittal of report by facsimile \underline{NOT} achieveable, \underline{THEN} do the following:
a. Notify State EOC using DEM ARD or call (804) 674-2400 b. Identify yourself and your location
c. Ask LOC 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:/_/
PART II. <u>Instructions for Facsimile Machine Operator</u> :
1. Record Facsimile Operator's name : Date/Time Sent:/ :
2. Iransmit this message to State EOC facsimile machine (804) 674-2419. 11 facsimile transmission NOT successful. THEN RETURN message to Emergency Communicator.
3. Return original report to State and Local Emergency Communicator.
PART III. Instructions for State EOC Duty Officer:
1. Notify North Anna Emergency Communicator report received. Date/Time Verified: // : (Use DEM ARD or see PART I, Item 2 above for call-back number). Receipt Verificati
2. Forward message to EOC Operations Officer for distribution to State Radiological Health Programs and Information & Planning representatives.

VIRGINIA POWER NORTH ANNA POWER STATION EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.08	INITIAL OFFSITE RELEASE ASSESSMENT	13
	(With 6 Attachments)	PAGE
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PURPOSE

Use backup (manual) dose assessment calculations to assess consequences of actual or potential offsite releases.

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. Entry from EPIP-4.01, RADIOLOGICAL ASSESSMENT DIRECTOR CONTROLLING PROCEDURE.
- 2. Entry from EPIP-4.03, DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE.
- 3. Direction by the Station Emergency Manager.
- 4. Direction by the Radiological Assessment Director or Radiological Assessment Coordinator.

Approvals on File

Effective Date 9/13/0/

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.08	INITIAL OFFSITE RELEASE ASSESSMENT	13
		PAGE
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STEP	ACTION/EXPECTED RESPONSE RESPONSE NOT OBTAINED
. 1	INITIATE PROCEDURE:
±	INITIAL FROCEDURE.
•	• By:
	Date:
	Time:
NOTE:	 No release is assumed from the air ejector if it is diverted to containment.
	 No release is assumed from the AFWPT pathway if the AFWPT is isolated.
	 Results of dose rate calculations are additive if release is through independent pathways.
	• Results of releases from the same pathway are not additive.
	DETERMINE SITE BOUNDARY DOSE RATES IF release is through the Main (mrem/hr) FOR VENTILATION RELEASE: Steam System, THEN GO TO Step 3.
ā	a) Ask SEM to have an individual <u>OR</u>
	observe monitor in alarm and report increase or decrease in <u>IF</u> release is from containment readings leakage, <u>THEN</u> GO TO Step 4.
	, danage, <u></u> do 10 300p 1.

NUMBER	PROCEDURE TITLE	REVISION
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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

2 DETERMINE SITE BOUNDARY DOSE RATES
 (mrem/hr) FOR VENTILATION RELEASE: (Continued)

CAUTION:

During implementation of Design Change 99-006, Ventilation Radiation Monitoring System Replacement, the user needs to identify whether Kaman or MGPI monitor is being used (for GW-178, VG-179 and VG-180).

NOTE: MGPI Normal Range Noble Gas monitors: 178-1, 179-1 and 180-1. MGPI High Range Noble Gas monitors: 178-2, 179-2 and 180-2.

b) Get number of monitor in alarm
 (or monitor of interest):

Release Path	Normal Range	Kaman (MGPI)	High Range (NRC)
Process Vent	GW-102	GW-178-1, -2	RM-GW-173
Vent Vent A	VG-104	VG-179-1, -2	RM-VG-174
Vent Vent B	VG-113	VG-180-1, -2	RM-VG-175
Air Ejector	SV-121, 221		

c) Circle appropriate monitor number on Attachment 1

NUMBER	PROCEDURE TITLE	REVISION
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		PAGE
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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 2 DETERMINE SITE BOUNDARY DOSE RATES
 (mrem/hr) FOR VENTILATION RELEASE: (Continued)
 - d) Get monitor readings, above background, and flow rates for pathway of interest

AND

Record data on Attachment 1

- d) <u>IF</u> flow rates <u>NOT</u> available, <u>THEN</u> use default flow rates:
 - VVA 142,000 cfm
 - VVB 100,000 cfm
 - PV 310 cfm
 - CAE 25 cfm
- NOTE: Main Tower Delta T is the preferred source of stability class. Sigma Theta (Backup Tower) is the secondary source.
 - Primary source of wind speed is the Main Tower Lower Level indicator. Alternates sources are (1) Backup Tower, and (2) Main Tower Upper Level.
- e) Get Stability Class and Wind Speed (from Emergency Communicator, ERFCS, RAD or RAC):
 - Stability Class: ____
 - Wind Speed:
- f) Get X/Q and conversion factors from Attachment 4:
 - Site Boundary X/Q for Stability Class in effect
 - Monitor Conversion Factor (MCF) based on accident type
 - TEDE DCF
 - THY DCF

(STEP 2 CONTINUED ON NEXT PAGE)

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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 2 DETERMINE SITE BOUNDARY DOSE RATES (mrem/hr) FOR VENTILATION RELEASE: (Continued)
 - g) Record X/Q, wind speed and conversion factors on Attachment 1
 - h) Determine Site Boundary TEDE and THY CDE, mrem/hr, using Attachment 1
 - i) Record results of Attachment 1 on to Attachment 5
- _ 3 DETERMINE SITE BOUNDARY DOSE RATES (mrem/hr) FOR MAIN STEAM RELEASE:
 - a) Check if actual or potential a) IF NO release through Main release pathway exists through Main Steam Safety Valves or Auxiliary Feedwater Pump Turbine Exhaust (AFWPT)
 - b) Determine number of monitor in alarm:
- Steam System, THEN GO TO Step 4.

Valves)

<u>Unit 1 Main</u>	<u>Steam</u>	<u>Unit</u>	2 Main	Steam
RM-RMS-170	(A Safety V	/alves) RM-	RMS-270	(A Safety
RM-RMS-171	(B Safety V	/alves) RM-	RMS-271	(B Safety

Valves) RM-RMS-172 (C Safety Valves) RM-RMS-272 (C Safety Valves)

Unit 1 AFWPT Unit 2 AFWPT RM-MS-176 RM-MS-276

(STEP 3 CONTINUED ON NEXT PAGE)

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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 3 DETERMINE SITE BOUNDARY DOSE RATES
 (mrem/hr) FOR MAIN STEAM RELEASE: (Continued)
 - c) Get reading of monitor in alarm

AND

Record reading on Attachment 2

- NOTE: Main Tower Delta T is the preferred source of stability class. Sigma Theta (Backup Tower) is the secondary source.
 - Primary source of wind speed is the Main Tower Lower Level indicator. Alternates sources are (1) Backup Tower, and (2) Main Tower Upper Level.
- d) Get Stability Class and Wind Speed:
 - Stability Class: _____
 - Wind Speed: _____
- e) Get X/Q and conversion factors from Attachment 4:
 - Site Boundary X/Q for Stability Class in effect
 - Monitor Conversion Factor (MCF) based on accident type
 - TEDE DCF
 - THY DCF
- f) Record X/Q, wind speed and conversion factors on Attachment 2

(STEP 3 CONTINUED ON NEXT PAGE)

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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 3 DETERMINE SITE BOUNDARY DOSE RATES (mrem/hr) FOR MAIN STEAM RELEASE: (Continued)
 - g) Ask Operations for the number g) IF none, THEN project release of Main Steam Safety Valves that have lifted or may potentially lift
 - using only <u>ONE</u> valve.

AND

Record on Attachment 2

- h) Check status of AFWPT isolation (from RAD or RAC)
- i) Calculate Site Boundary TEDE and THY CDE dose rates using Attachment 2
- j) Record results of Attachment 2 on to Attachment 5
- DETERMINE SITE BOUNDARY DOSE RATES IF containment leakage not (mrem/hr) FROM CONTAINMENT LEAKAGE: involved, THEN GO TO Step 5.

(STEP 4 CONTINUED ON NEXT PAGE)

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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 4 DETERMINE SITE BOUNDARY DOSE RATES (mrem/hr) FROM CONTAINMENT LEAKAGE: (Continued)
 - a) GET CHRRMS reading, R/hr

AND

Record reading on Attachment 3:

<u>Unit 1</u> RMS-165 RMS-166	Unit 2
RMS-165	RMS - 265
RMS-166	RMS-266

- NOTE: Main Tower Delta T is the preferred source of stability class. Sigma Theta (Backup Tower) is the secondary source.
 - Primary source of wind speed is the Main Tower Lower Level indicator. Alternates sources are (1) Backup Tower, and (2) Main Tower Upper Level.
- b) Get Stability Class and Wind Speed:
 - Stability Class: _____
 - Wind Speed: _____
- c) Get X/Q and conversion factors from Attachment 4:
 - Site Boundary X/Q for Stability Class in effect
 - Monitor Conversion Factor (MCF) based on accident type
 - TEDE DCF
 - THY DCF
- d) Record X/Q, wind speed and conversion factors on Attachment 3 (STEP 4 CONTINUED ON NEXT PAGE)

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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 4 DETERMINE SITE BOUNDARY DOSE RATES (mrem/hr) FROM CONTAINMENT LEAKAGE: (Continued)
 - e) Calculate Site Boundary TEDE and THY CDE dose rates using Attachment 3
 - f) Record results of Attachment 3 on to Attachment 5
- 5 DETERMINE DOSE RATES, mrem/hr, AT 2, 5 AND 10 MILES:
 - a) Use Attachment 5
 - b) Add results of appropriate release pathways:
 - Vents Attachment 1
 - Main Steam Attachment 2
 - Containment Attachment 3
 - c) Determine Stability Class Correction Factor (top of Attachment 5) for distance of interest
 - d) Use Attachment 5 to do calculations for TEDE and THY CDE, mrem/hr, at 2, 5 and 10 miles
 - e) Report results to RAD or RAC

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
6	COMPARE SITE BOUNDARY DOSE TO EMERGENCY CLASSIFICATION CRITERIA:	
	a) Determine Site Boundary dose rate (sum of all pathways) from Attachment 5:	
	• TEDE:mrem/hr	
	• THY CDE:mrem/hr	
	b) Determine release duration:hours	b) Use default of 2 hours if duration is unknown.
	c) Calculate total dose:	
	TEDE:mrem/hr xh	ours =mrem, TEDE
	THY CDE:mrem/hr x	hours =mrem, THY CDE
	d) Compare total dose to emergency classification criteria:	
	Site Boundary Dose:	Emergency Classification:
	≥ 1000 mrem TEDE or ≥ 5000 mrem Thyroid CDE	General Emergency
	≥ 100 mrem TEDE or ≥ 500 mrem Thyroid CDE	Site Area Emergency
7	CHECK IF RESULTS INDICATE A SITE AREA OR GENERAL EMERGENCY EXISTS	GO TO Step 9.

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STEP		ACTION/EXPECTED RESPONSE RESPONSE NOT OBTA	AINED	
	L	THE OF THE PROPERTY OF THE PRO	THEB]
8	INI	ITIATE PROTECTIVE MEASURES:		
	a)	Use EPIP-4.07, PROTECTIVE MEASURES, to determine if any onsite or offsite protective measures are required		
	b)	Give the following information to the RAD/RAC:		
		• Emergency Classification		
		• Calculation results		
		 Protective actions required by EPIP-4.07, PROTECTIVE MEASURES 		
	c)	GO TO Step 12		
9	CHE REL	ECK IF EMERGENCY INVOLVES LIQUID GO TO Note prior to St LEASE	ep 11.	

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RESPONSE NOT OBTAINED

 10	DETERMINE	PERCENT	TECHNICAL	

STEP

a) Get highest liquid effluent pathway monitor reading:

ACTION/EXPECTED RESPONSE

• LW-111: _____ cpm

SPECIFICATION FOR LIQUID RELEASE:

- SW-130: _____ cpm
- SW-230: _____ cpm
- b) Determine number of operating Circ. Water Pumps: _____
- c) Calculate % Tech. Specs.:

SW-130 or 230:

2.0E-2 = % Tech. Specs.cpm Х $2.0E-2 = _____%$ Х

- d) Compare % Tech. Spec. with emergency classification criteria:
 - ≥ 1000% ALERT
 - ≥ 100% NOUE
 - < 100% Within Limits
- e) Notify SEM (through RAD or RAC) of event classification based on % Tech. Spec. for liquid release

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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

CAUTION: During implementation of Design Change 99-006, Ventilation Radiation Monitoring System Replacement, the user needs to identify whether Kaman or MGPI monitor is being used (for GW-178, VG-179 and VG-180).

- NOTE: Evaluation of percent technical specifications makes conservative assumptions about flow rate, isotopic mixture and detector response. Further analysis (following completion of this procedure) will be necessary to quantify release.
 - Kaman (MGPI) monitors (μ Ci/sec and μ Ci/cc) should be used as the primary indicator for Vent Vent and Process Vent releases. Westinghouse and NRC monitors may be used as backup.
- 11 DETERMINE % TECH. SPEC. FOR GASEOUS RELEASE:
 - a) Determine monitor in alarm
 - b) Circle appropriate monitor number on Attachment 6
 - c) Ask SEM to position an individual to observe monitor in alarm and report increase or decrease in readings
 - d) Get the highest reading, above background, of monitor in alarm
 - e) Record monitor reading on Attachment 6

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STEP ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 11 DETERMINE % TECH. SPEC. FOR GASEOUS RELEASE: (Continued)
 - f) Determine flow rate (cfm)

AND

Record flow rate on Attachment 6

- f) Use the following default flow rates:
 - VVA 142,000 cfm
 - VVB 100,000 cfm
 - PV 310 cfm
 - CAE 25 cfm
- g) Calculate % Tech. Spec. using Attachment 6
- h) Calculate total % Tech. Spec. for all pathways involved (Add the % Tech. Spec. for each monitor/emission channel)
- i) Compare % Tech. Spec. with emergency classification criteria:
 - ≥ 1000% ALERT
 - ≥ 100% NOUE
 - < 100% Within Limits
- j) Notify SEM (through RAD or RAC) of event classification based on % Tech. Spec. for gaseous release

NUMBER	PROCEDURE TITLE	REVISION
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RESPONSE NOT OBTAINED

STEP	ACTION/EXPECTED RESPONSE
12	TERMINATE EPIP-4.08: • Give completed EPIP-4.08, forms,
	and other applicable records to the Radiological Assessment Director
	• Completed by:
	Date:
	Time:
	-END-

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.08	VENT RELEASE SITE BOUNDARY DOSE RATE	13
ATTACHMENT		PAGE
1		1 of 3

NOTE: ◆	MGPI No Range N	rma obl	al Range e Gas r	e l	Noble Gar nitors:	s m	nonitors '8-2, 17	: 9 - 2	2	78–1, 179–1 and 180–1 and 180–2.		MGPI High
•	Monitor Attachm			on	Factors	(M	ICF) and	S.	it	e Boundary X/Q are pr	ovi	ded on
•	VG-174, Range M	V0 oni	i-175 ar tors a	nd re	GW-173 offscal	sho e o	ould onl or inope	y h rah	oe ol	used when KAMAN (MGP e.	I)	or Normal
Date:	;	Τi	me:							,		
VENT VEI	NT A:											
VG-104:	(CPM	х	CFM	Х	MCF	х	X/Q)	/	WINDSPEED	=	Value
	(х		х		х		_)	/		=	
VG-179:	(μCi/sec	х	1.0E-3	х	MCF	х	X/Q)	/	WINDSPEED	==	Value
(-1,-2)	(х	1.0E-3	х		х		_)	/		= .	
VG-179:	(μCi/cc	х	CFM	х	4.72E-1	х	MCF		х	X/Q) / WINDSPEED	=	Value
(-1,-2)	(x		х	4.72E-1	х			х) /	_ =	
VG-174:	(mr/hr	х	CFM	х	MCF	х	X/Q)	/	WINDSPEED	=	Value
	(х		х		х		_)	/		=	
Record h	nighest V	ent	: Vent A	٠,	value fro	om	above o	n F	a	ge 3 of Attachment 1.		
VENT VEN	NT B:											
VG-113:	(CPM	х	CFM	х	MCF	х	X/Q)	/	WINDSPEED	=	Value
	(x		х		x		_)	/		= .	
VG-180:	(μCi/sec	х	1.0E-3	х	MCF	х	X/Q)		/	WINDSPEED	==	Value
(-1,-2)	(х	1.0E-3	х		х		_)	/		= .	
	(μCi/cc	х	CFM	х	4.72E-1	х	MCF		х	X/Q) / WINDSPEED	=	Value
(-1,-2)	(х		Х	4.72E-1	х			х) /	. = .	
VG-175:	(mr/hr	х	CFM	х	MCF	х	X/Q)	/	WINDSPEED	=	Value
	(х		х		х	•	_)	/		= ,	

Record highest Vent Vent B value from above on Page 3 of Attachment 1.

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NOTE: • MGPI Normal Range Noble Gas monitors: 178-1, 179-1 and 180-1. MGPI High Range Noble Gas monitors: 178-2, 179-2 and 180-2.

- Monitor Conversion Factors (MCF) and Site Boundary X/Q are provided on Attachment 4.
- VG-174, VG-175 and GW-173 should only be used when KAMAN (MGPI) or Normal Range Monitors are offscale or inoperable.

PROCESS VENT:

GW-102:	(CPM	Х	CFM	Х	MCF	Х	X/Q)	/	WINDSP	EED	=	Value
	(х	·	х		Х		_)	/			==	
GW-178: (-1,-2)	(μCi/sec	х	1.0E-3	х	MCF	х	X/Q)	/	WINDSP	EED	=	Value
(1, 2)	(х	1.0E-3	Х		х		_)	/			= ,	
1-1 -21												WINDSPEED =	
(1, 2)	(х		х	4.72E-1	х			х		_) /	=	
GW-173:	(mr/hr	х	CFM	х	MCF	Х	X/Q)	/	WINDSP	EED	=	Value
	(Х		Х		Х		_)	/			=	

Record highest Process Vent value from above on Page 3 of Attachment 1.

AIR EJECTOR:

TOTAL OF AIR EJECTORS =

Record sum of Air Ejector values on Page 3 of Attachment 1.

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1	Parand	tho	following	monitor	values	in	left-hand	column	οf	table	he1	OW-
1.	Record	une	TOTIOWING	mon Lor	values	111	Tert-nanu	COTUMN	Uí	Lable	ne i	UW:

- Highest Vent Vent A value from Attachment 1 Page 1 Highest Vent Vent B value from Attachment 1 Page 1 Highest Process Vent value from Attachment 1 Page 2

- Sum of Air Ejector values from Attachment 1 Page 2
- Record TEDE and THY CDE Dose Conversion Factors (DCFs) from Attachment 4 in middle and right-hand columns in table below. __ 2.
- Multiply monitor values in left-hand column by TEDE DCF and THY CDE DCF atop middle and right-hand columns in table below. Record result(s) in intersecting space.
- Add resulting values in middle and right-hand columns to calculate Total Vent Release (TEDE and THY CDE).

	TEDE DCF from Attachment 4	THY CDE DCF from Attachment 4
HIGHEST VENT VENT A VALUE		
HIGHEST VENT VENT B VALUE		
HIGHEST PROCESS VENT VALUE		
SUM OF AIR EJECTOR VALUES		
SUM OF VENT VENT, PROCESS VENT AND AIR EJECTORS	TEDE mrem/hr	THY CDE mrem/hr

Completed by:		
Date/Time:	/	

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.08	MAIN STEAM RELEASE - SITE BOUNDARY DOSE RATE	13
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Date:;	Time	e:								
UNIT 1 MAIN STEA	<u>M</u> :									
(mr/hr	X i	# Valves	x	MCF	х	X/Q) /	WINDS	PEED =	Value
MS-170:(x		x	· · · · · · · · · · · · · · · · · · ·	_ x _		_) /		=	
MS-171:(x _		x		_ x _		_) /		=	
MS-172:(x _		x		_ x _		_) /	<u></u>	=	
				Т	OTAL	OF UNI	IT 1 M	MAIN ST	TEAM =	
UNIT 1 ACUST										
UNIT 1 AFWPT:										
(mr/hr										
MS-176:(х _		x		_) /		=	·		_
				11-1						
	10.2-1-1 -									
UNIT 2 MAIN STEA	<u> </u>									
JNIT 2 MAIN STEA (mr/hr		∳ Valves	x	MC F	X	X/Q) /	WINDSF	PEED =	Value
(mr/hr	 x #									
(mr/hr MS-270:(× #		x		_ × _		_) /		= _	
(mr/hr MS-270:(MS-271:(× # ×		x		_ × _		_) /		= - = -	
(mr/hr MS-270:(MS-271:(× # ×		x		_ × _ _ × _		_) /		= _ = _	
(mr/hr MS-270:(MS-271:(× # ×		x		_ × _ _ × _		_) /		= _ = _	
(mr/hr MS-270:(MS-271:(MS-272:(× # ×		x		_ × _ _ × _		_) /		= _ = _	
MS-270:(x # x x x		×	Т	_ × _ _ × _ _ × _ OTAL	OF UNI) /) /) /	AIN ST	= _ = _ = _ EAM =	

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_ 1.	Record the following monitor	or values in left-hand	column of table below:					
	 Total Main Steam value for affected unit AFWPT value for affected unit 							
2.	 Record TEDE and THY CDE Dose Conversion Factors (DCFs) from Attachment 4 in middle and right-hand columns in table below. 							
3.								
4.	Add resulting values in mid Main Steam Release (TEDE an	ddle and right-hand co nd THY CDE) (sum of Ma	lumns to calculate Total in Steam and AFWPT).					
		TEDE DCF from Attachment 4	THY CDE DCF from Attachment 4					
ТОТА	L OF MAIN STEAM VALUES							
AFWP'	T VALUE							
	JM OF AFFECTED UNIT(s) AIN STEAM AND AFWPT	TEDE mrem/hr	THY CDE mrem/hr					
Complet	ced by:							

Date/Time: _____/

NUMBER	ATTACHMENT TITLE	REVISION
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NOTE: • Monitor Conversion Factor Conversion Factors (TEDE provided on Attachment 4	DCF) and Thyroid CDE	
 The CHRRMS Monitor Converge rate of 0.1% per day. 	rsion Factor is calcula	ated for design leak
Date:; Time:		
CONTAINMENT: (R/hr x MCF x) RMS-165 RMS-166	X/Q) / WINDSPEED =	Value
RMS-265 RMS-266: (x x	=	
	se Conversion Factors of the conversion of the columns in table below. TER columns in table below	(DCFs) from Attachment 4 DE DCF and THY CDE DCF N. Record result(s) in
	TEDE DCF from Attachment 4	THY CDE DCF from Attachment 4
CONTAINMENT VALUE	TEDE mrem/hr	THY CDE mrem/hr
Completed by:/		

NUMBER EPIP-4.08 ATTACHMENT TITLE MONITOR CONVERSION FACTORS, SITE BOUNDARY X/Q VALUES, TEDE FACTORS, AND THYROID CDE FACTORS

REVISION 13

PAGE

1 of 2

 $\underline{\text{NOTE}}\colon$ Kaman and MGPI Monitor Conversion Factors are provided for use during implementation of Design Change 99-006, Ventilation Radiation Monitoring System Replacement.

MONITOR CONVERSION FACTORS (MCF) for Vent Release (Attachment 1):

MONITOR	MSLB	SGTR	FHA	WGDT	VCT	LOCA MELT	LOCA GAP	LOCA PC	NORMAL
VG-104	9.7E-8	7.0E-8							4.7E-8
VG-174	2.4E+1	1.8E+1							1.1E+1
VG-179-1 (KAMAN)	9.7E-1	9.6E-1							9.5E-1
VG-179-1 (MGPI)	8.8E-1	8.6E-1							8.1E-1
VG-179-2 (KAMAN)	8.3E-1	7.4E-1							5.9E-1
VG-179-2 (MGPI)	1.0E+0	1.0E+0							1.1E+0
VG-113			1.4E-8			4.0E-8	4.3E-8	1.9E-8	1.4E-8
VG-175			5.9E+1			1.8E+0	1.7E+0	4.1E+0	5.8E+1
VG-180-1 (KAMAN)			9.8E-1			1.7E+0		1.2E+0	9.8E-1
VG-180-1 (MGPI)			9.2E-1			7.9E-1	8.2E-1	8.5E-1	9.2E-1
VG-180-2 (KAMAN)			1.0E+0			1.8E-1		3.6E-1	1.0E+0
VG-180-2 (MGPI)			1.0E+0			7.3E+0	6.8E+0	1.5E+0	1.0E+0
GW-102				6.1E-8	1.1E-7				2.3E-7
GW-173				5.0E+1	2.3E+1				2.7E+1
GW-178-1 (KAMAN)				9.1E-1	9.8E-1				1.0E+0
GW-178-1 (MGPI)				7.7E-1	9.0E-1				9.3E-1
GW-178-2 (KAMAN)				1.1E+0	8.1E-1				8.9E-1
GW-178-2 (MGPI)				1.1E+0	1.0E+0				1.1E+0
SV-121,-221	3.1E-4	2.2E-4							1.4E-4

(CONTINUED ON NEXT PAGE)

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SITE BOUNDARY X/Q VALUES,
TEDE FACTORS, AND THYROID CDE FACTORS1342 of 2

MONITOR CONVERSION FACTORS (MCF) for Main Steam Release (Attachment 2):

MONITOR	MSLB	SGTR	LKD. ROTOR	NORMAL
MS-1(2)70 MS-1(2)71 MS-1(2)72	5.3E+3	6.9E+3	3.9E+2	5.7E+3
MS-176	1.9E+3	4.2E+3	4.3E+2	3.5E+3
MS-276	2.6E+3	5.7E+3	5.6E+2	4.6E+3

MONITOR CONVERSION FACTORS (MCF) for Containment Release (Attachment 3):

MONITOR	LOCA MELT	LOCA GAP	LOCA PC	NORMAL
RMS-1(2)65 RMS-1(2)66	6.6E-2	6.3E-2	1.0E-1	1.7E-1

X/Q, SITE BOUNDARY:

STABILITY CLASS

А	В	С	D	Е	F	G
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

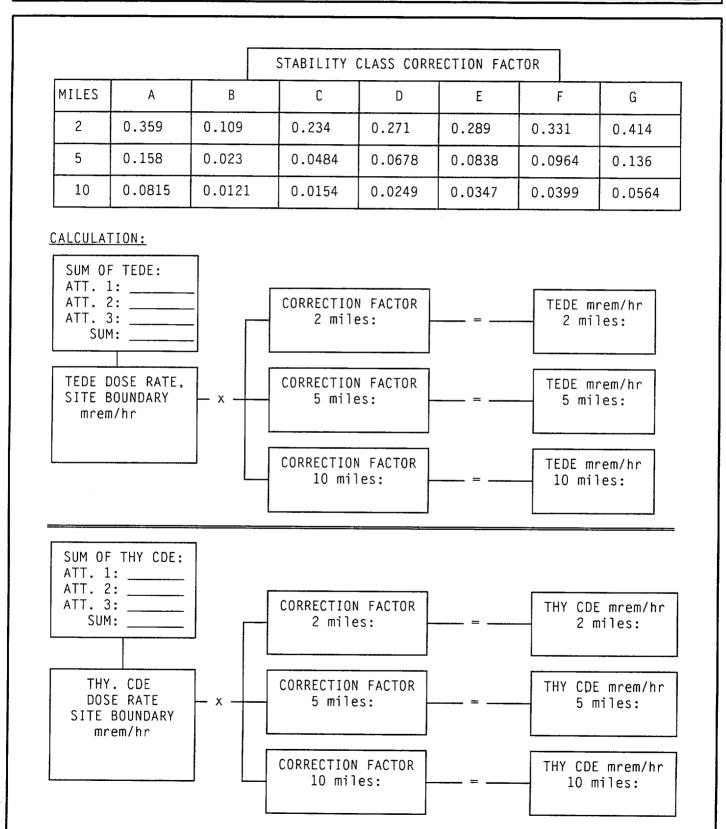
TEDE DOSE CONVERSION FACTORS (TEDE DCF):

MSLB	SGTR	FHA	WGDT	VCT	LOCA MELT	LOCA GAP	LOCA PC	LKD. ROTOR
6.1E+3	1.8E+2	3.2E+1	2.0E+1	3.3E+1	1.7E+3	4.7E+2	2.9E+2	7.2E+3

THYROID CDE DOSE CONVERSION FACTORS (THY DCF):

	MSLB	SGTR	FHA	WGDT	LOCA MELT	LOCA GAP	LOCA PC	LKD. ROTOR
UNFILTERED	2.6E+4	1.5E+1	7.1E-1	2.5E-5	1.6E+4	4.3E+2	2.4E+2	3.7E+4
FILTERED	7.1E+1	1.5E-1	7.1E-2	2.5E-6	1.6E+3	4.3E+1	2.4E+1	

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NOTE: •	Percent TS	shoul	d be calcu	late	ed for all	affe	cted rele	ease	pathwa	nys.
					onitors: 1 : 178-2, 1				180-1.	MGPI
Date: VENT_VENT	; Tir	ne:							% TECH	I. SPEC
	CPM	_ x _ x	CFM	X	CF 2.35 E-7	=	% TS		Highe	est % T
VG-179-1:	μCi/sec	_ X _ X	CF 5.46 E-4			=	% TS			
VG-179-1:	μCi/cc	_ x _ x	CFM	х	CF 2.58 E-1	=	% TS			
VENT VENT		:				····			7	
VG-113:	CPM	_ X _ X	CFM	X X	CF 9.54 E-9	=	% TS		Highe	st % T
VG-180-1:	μCi/sec	х _ х	CF 5.46 E-4				% TS			The same of the sa
VG-180-1:	μCi/cc	_ x _ x	CFM	х	CF 2.58 E-1	=	% TS			
PROCESS VE			CEM		C.F.		w TC]	
GW-102:		_ X _ X		X X	CF 3.03 E-8	= .	% 15		Highe	st % T
GW-178-1:	μCi/sec	х . х	CF 5.06 E-5				% TS			
GW-178-1:	μCi/cc	. x	C FM	х	CF 2.39 E-2	· = = .	% TS			
AIR EJECTO	R MONITORS	_		· ·						
SV-121:	CPM	х . х	CFM	X X	CF 6.4 E-4			= _	% TS	
SV-221:	СРМ	х . х	CFM	x x	CF 6.4 E-4			= _	% TS	
Completed Date/Ti		3,37%	1	4.,4	TOTAL %	TEC	H. SPECS.	: _		

VIRGINIA POWER NORTH ANNA POWER STATION EMERGENCY PLAN IMPLEMENTING PROCEDURE

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PURPOSE

Provide guidance and data to Dose Assessment Team to more accurately predict offsite releases.

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. Entry from EPIP-4.01, RADIOLOGICAL ASSESSMENT DIRECTOR CONTROLLING PROCEDURE.
- 2. Entry from EPIP-4.03, DOSE ASSESSMENT TEAM CONTROLLING PROCEDURE.

Approvals on File

Effective Date <u>9/13/01</u>

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STEP	ACTION/EXPECTED RESPONSE RESPONSE NOT OBTAINED
1	INITIATE PROCEDURE:
	• By:
	Date:
	Time:
<u>NOT</u>	<u>E</u> : • Source term is expressed in Ci/sec.
	 Source term calculations derived from monitor readings should be used only for initial assessment and to establish trends. Sampling should also be performed to more accurately determine the source term.
	 Source term derived from Containment High Range Monitors or Containment sampling is used for analysis following a LOCA.
2	DETERMINE METHOD FOR SOURCE TERM CALCULATION:
	• Station Monitors - GO TO Step 3
	• Sample Effluent - GO TO Step 4
	• Sample of Station Inventory - GO TO Step 7
	 Containment High Range Monitor (Inner Crane Wall) - GO TO Step 8

• Sample of Containment Air - GO TO Step 9

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STEP ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

<u>CAUTION</u>: During implementation of Design Change 99-006, Ventilation Radiation Monitoring System Replacement, the user needs to identify whether Kaman or MGPI monitor is being used (for GW-178, VG-179 and VG-180).

NOTE: • MGPI Normal Range Noble Gas monitors: 178-1, 179-1 and 180-1. MGPI High Range Noble Gas monitors: 178-2, 179-2 and 180-2.

- Should Vent Vent or Process Vent Normal Range monitors be inoperable or offscale, assessments should continue using High Range and/or Kaman (MGPI) monitors.
- The Condenser Air Ejector may be diverted to containment.
- _ 3 DETERMINE SOURCE TERM FROM STATION MONITORS:
 - a) Get monitor readings and effluent flow rates (cfm) for release pathways of concern:
 - Vent Vent A: VG-104, VG-179, VG-174
 - Vent Vent B: VG-113, VG-180, VG-175
 - Process Vent: GW-102, GW-178, GW-173
 - Condenser Air Ejector: SV-121, SV-221
 - Main Steam: MS-170, MS-171, MS-172, MS-270, MS-271, MS-272
 - AFWPT: MS-176, MS-276

(STEP 3 CONTINUED ON NEXT PAGE)

a) <u>IF</u> monitor readings <u>NOT</u> available, <u>THEN</u> GO TO Step 4.

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STEP ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 3 DETERMINE SOURCE TERM FROM STATION MONITORS: (Continued)
 - b) Record the following information on Attachment 1:
 - Date
 - Time
 - Flow rate (when applicable) and monitor reading for pathway(s) of concern:

Normal Range: cpm (use NET cpm: Gross - Background) Kaman (MGPI): μ Ci/sec or μ Ci/cc High Range: mR/hr

- c) Determine accident type
- d) Determine status of effluent charcoal filtration
- e) Determine Monitor Conversion Factors (MCF) and Iodine Conversion Factors (Iodine CF) using Attachment 2
- f) Record conversion factors on Attachment 1
- g) Use Attachment 1 to calculate Iodine and Noble Gas release rates, Ci/sec
- h) Add Ci/sec for all pathways of concern

AND

Record results at end of Attachment 1

i) Give results to RAD or RAC

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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- NOTE: In the event that a release involves multiple pathways, Step 4 should be repeated for each pathway. Results of each analysis are then added to determine the total source term.
 - The Condenser Air Ejector may be diverted to containment. eliminating need to assess source term.
- DETERMINE SOURCE TERM FROM EFFLUENT SAMPLE:
 - a) Ask Radiation Protection Supervisor to initiate EPIP-4.24, GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY, for sample of appropriate pathway:
 - Vent Vent A
 - Vent Vent B
 - Process Vent
 - Condenser Air Ejector
 - b) Get monitor reading:
 - Maximum: • Reading at time of

sample:_____

- c) Have Count Room analyze sample:
 - · Request initiation of EPIP-4.26, HIGH LEVEL ACTIVITY SAMPLE ANALYSIS, for high activity samples

a) IF source term determination from effluent sample NOT required, THEN GO TO Step 7.

(STEP 4 CONTINUED ON NEXT PAGE)

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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- 4 DETERMINE SOURCE TERM FROM EFFLUENT SAMPLE: (Continued)
 - d) Record nuclide activity on Attachment 3, left column

AND

Add results to determine Noble Gas and Iodine gross activity, $\mu\text{Ci/ml}$

- e) Check if this is an initial source term assessment
- f) Check if sample taken at maximum monitor reading
- e) GO TO Step 4.g.
- f) <u>IF</u> sample <u>NOT</u> taken at maximum monitor reading, <u>THEN</u> do the following:
 - 1) Determine corrected $\mu\text{Ci/cc}$ for gross Noble Gas and for Iodine:

MAX READING x μCi = CORRECTED

READING AT cc

TIME OF SAMPLE

- 2) Record results on Attachment 4.
- 3) GO TO Step 4.h.
- g) Get Noble Gas activity from Attachment 3 and record activity on to Attachment 4
- h) Get effluent flow rate (cfm)
- i) Record cfm on Attachment 4
- j) Record Iodine activity on to Attachment 4

(STEP 4 CONTINUED ON NEXT PAGE)

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- 4 DETERMINE SOURCE TERM FROM EFFLUENT SAMPLE: (Continued)
 - k) Use Attachment 4 to calculate Noble Gas and Iodine source term (Ci/sec)
 - Add Ci/sec for applicable pathways at end of Attachment 4
- 5 DETERMINE DDE, TEDE AND THYROID CDE DOSE CONVERSION FACTORS BASED ON SAMPLE RESULTS:
 - a) Use Attachment 3 that was previously filled out for gross activity determination
- a) Do Steps 4.a through 4.d

<u>AND</u>

GO TO Step 5.b.

- b) Do calculations on Attachment 3 to determine the following conversion factors:
 - DDE
 - TEDE
 - THY CDE
- c) Determine TEDE/DDE ratio:

TEDE = _____Ratio TEDE/DDE

DDE

d) Give source term results, Ci/sec, and TEDE/DDE ratio to RAD or RAC

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STEP -

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- ____ 6 DETERMINE SITE BOUNDARY DOSE RATES BASED ON EFFLUENT SAMPLE RESULTS:
 - a) Ask RAD or RAC if Site Boundary dose rate calculation based on effluent sample - DESIRED
- a) GO TO Step 7.
- b) Record TEDE and THY CDE DCFs from bottom of Attachment 3 on to Attachment 5:
 - Record on calculation line for each affected pathway
- c) Get effluent flow rate (cfm) for each affected pathway
- d) Record CFM on Attachment 5
- NOTE: Main Tower Delta T is the preferred source of stability class. Sigma Theta (Backup Tower) is the secondary source.
 - Primary source of wind speed is the Main Tower Lower Level indicator. Alternates sources are (1) Backup Tower, and (2) Main Tower Upper Level.
- e) Determine Stability Class and wind speed:
 - Ask RAD or RAC
- f) Use Attachment 5 Site Boundary X/Q value for appropriate Stability Class and divide by wind speed
- g) Record corrected X/Q value on calculation line for each affected pathway
- h) Do calculations to determine Site Boundary TEDE and THY CDE dose rate, mrem/hr
- i) Give results to RAD or RAC

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STEP ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- _ 7 DETERMINE SOURCE TERM FROM STATION INVENTORY:
 - a) Check if release originated from a gas storage tank (ie. Waste Gas Decay Tank, Volume Control Tank, etc.)
- a) GO TO Step 8.

- b) Have tank sampled
- c) Ask Dose Assessment Team Leader to get information on volume of release from Emergency Technical Director
- d) Get sample activity results, $\mu\text{Ci/ml}$, for total of Noble Gas and Iodine:
 - Use Count Room results or completed Attachment 3
- e) Record the following on Attachment 4:
 - Noble Gas activity
 - Iodine activity
 - Volume of release, ml
 - Duration of release, sec
- f) Use Attachment 4, Station Inventory section, to determine Noble Gas and Iodine release rate, Ci/sec
- g) Give results to RAD or RAC

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STEP	ACTION/EXPECTED RESPONSE RESPONSE NOT OBTAINED
8	DETERMINE SOURCE TERM FROM CONTAINMENT HIGH RANGE MONITOR (INNER CRANE WALL):
	a) Check if LOCA conditions exist a) GO TO Step 10.
	b) Get dose rate (R/hr) from Containment High Range Monitor (Inner Crane Wall) of affected unit:
	• RMS-165 (-265):
	• RMS-166 (-266):
	c) Determine length of time (hours) since unit shutdown
	d) Use Attachment 6 to estimate Curies Noble Gas (Ci NG) and Curies Iodine (Halogens) available for release
	e) Calculate release rate:
	Ci Noble Gas x 4.35E-8 =Ci/Sec Noble Gas
	Ci Iodine x 4.35E-8 =Ci/sec Iodine
	f) Give results to RAD or RAC

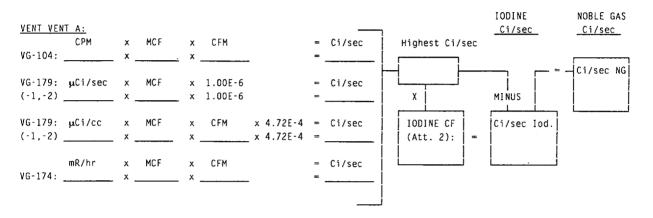
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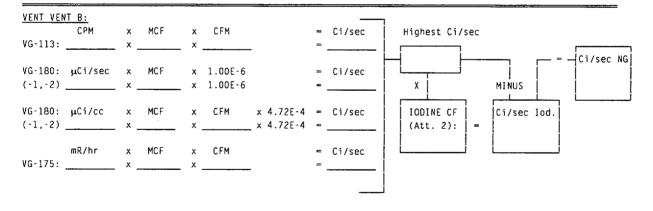
ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED	
DETERMINE SOURCE TERM FROM CONTAINMENT AIR SAMPLE:		
a) Check if LOCA conditions exist	a) GO TO Step 10.	
b) Ask RPS to activate EPIP-4.22, POST ACCIDENT SAMPLING OF CONTAINMENT AIR		
c) Record sample results (nuclide concentration) on Attachment 3, left column		
d) Determine gross activity, $\mu\text{Ci/ml}$, for Noble Gas and Iodine		
e) Calculate release rates:		
μ Ci/ml x 2.25E+3 x 1.0E-6 = Ci/Sec		
f) Record results:Ci/sec Noble GasCi/sec Iodine		
g) Give results to RAD or RAC		
TERMINATE EPIP-4.09:		
 Give completed EPIP-4.09, forms, and other applicable records to the Radiological Assessment Director 		
• Completed by:		
Date:		
Time:		
-END-		
	DETERMINE SOURCE TERM FROM CONTAINMENT AIR SAMPLE: a) Check if LOCA conditions exist b) Ask RPS to activate EPIP-4.22, POST ACCIDENT SAMPLING OF CONTAINMENT AIR c) Record sample results (nuclide concentration) on Attachment 3, left column d) Determine gross activity, µCi/ml, for Noble Gas and Iodine e) Calculate release rates: µCi/ml x 2.25E+3 x 1.0E-6 = Ci/Sec f) Record results: Ci/sec Noble Gas Ci/sec Iodine g) Give results to RAD or RAC TERMINATE EPIP-4.09: • Give completed EPIP-4.09, forms, and other applicable records to the Radiological Assessment Director • Completed by: Date: Time: Time:	DETERMINE SOURCE TERM FROM CONTAINMENT AIR SAMPLE: a) Check if LOCA conditions exist a) GO TO Step 10. b) Ask RPS to activate EPIP-4.22, POST ACCIDENT SAMPLING OF CONTAINMENT AIR c) Record sample results (nuclide concentration) on Attachment 3, left column d) Determine gross activity, µCi/ml, for Noble Gas and Iodine e) Calculate release rates: µCi/ml x 2.25E+3 x 1.0E-6 = Ci/Sec f) Record results:

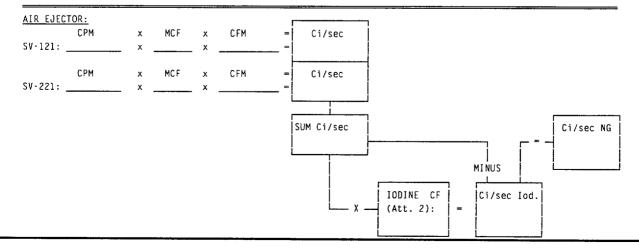
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- $\underline{\text{NOTE}}\colon \bullet \quad \text{Monitor Conversion Factors (MCF)}$ and Iodine Conversion Factors (Iodine CF) are provided on Attachment 2.
 - MGPI Normal Range Noble Gas monitors: 178-1, 179-1 and 180-1. MGPI High Range Noble Gas monitors: 178-2, 179-2 and 180-2.

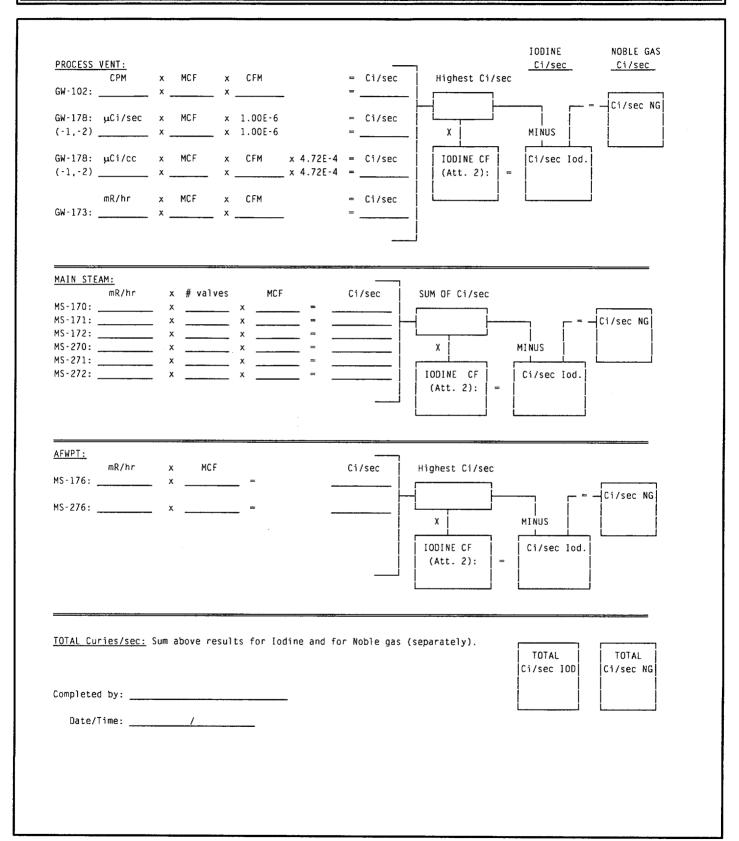
Date:_____; Time:____







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EPIP-4.09	MONITOR CONVERSION FACTORS	12
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NOTE: Kaman and MGPI Monitor Conversion Factors are provided for use during implementation of Design Change 99-006, Ventilation Radiation Monitoring System Replacement.

MONITOR CONVERSION FACTORS (MCF) for Vent Vent A:

MONITOR	MSLB	SGTR	NORMAL
VG-104	9.7E-11	7.0E-11	4.7E-11
VG-174	2.4E-2	1.8E-2	1.1E-2
VG-179-1 (KAMAN)	9.7E-4	9.6E-4	9.5E-4
VG-179-1 (MGPI)	8.8E-4	8.6E-4	8.1E-4
VG-179-2 (KAMAN)	8.3E-4	7.4E-4	5.9E-4
VG-179-2 (MGPI)	1.0E-3	1.0E-3	1.1E-3

MONITOR CONVERSION FACTORS (MCF) for Vent Vent B:

MONITOR	FHA	LOCA MELT	LOCA GAP	LOCA PC	NORMAL
VG-113	1.4E-11	4.0E-11	4.3E-11	1.9E-11	1.4E-11
VG-175	5.9E-2	1.8E-3	1.7E-3	4.1E-3	5.8E-2
VG-180-1 (KAMAN)	9.8E-4	1.7E-3		1.2E-3	9.8E-4
VG-180-1 (MGPI)	9.2E-4	7.9E-4	8.2E-4	8.5E-4	9.2E-4
VG-180-2 (KAMAN)	1.0E-3	1.8E-4		3.6E-4	1.0E-3
VG-180-2 (MGPI)	1.0E-3	7.3E-3	6.8E-3	1.5E-3	1.0E-3

MONITOR CONVERSION FACTORS (MCF) for Air Ejector:

MONITOR	MSLB	SGTR	NORMAL
SV-121,-221	3.1E-7	2.2E-7	1.4E-7

(CONTINUED ON NEXT PAGE)

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MONITOR CONVERSION FACTORS (MCF) for Process Vent:

MONITOR	WGDT	VCT	NORMAL
GW-102	6.1E-11	1.1E-10	2.3E-10
GW-173	5.0E-2	2.3E-2	2.7E-2
GW-178-1 (KAMAN)	9.1E-4	9.8E-4	1.0E-3
GW-178-1 (MGPI)	7.7E-4	9.0E-4	9.3E-4
GW-178-2 (KAMAN)	1.1E-3	8.1E-4	8.9E-4
GW-178-2 (MGPI)	1.1E-3	1.0E-3	1.1E-3

MONITOR CONVERSION FACTOR (MCF) for Main Steam:

MONITOR	MSLB	SGTR	LKD. ROTOR	NORMAL
MS-1(2)70 MS-1(2)71 MS-1(2)72	5.3E+0	6.9E+0	3.9E-1	5.7E+0

MONITOR CONVERSION FACTORS (MCF) for AFWPT:

MONITOR	LOCA MELT	LOCA GAP	LOCA PC	NORMAL
MS-176	1.9E+0	4.2E+0	4.3E-1	3.5E+0
MS-276	2.6E+0	5.7E+0	5.6E-1	4.6E+0

IODINE CONVERSION FACTORS (ICF):

	MSLB	SGTR	FHA	WGDT	LOCA MELT	LOCA GAP	LOCA PC	LKD. ROTOR
UNFILTERED	2.0E-1	5.1E-3	2.4E-3	1.8E-5	5.4E-1	8.8E-2	6.2E-2	2.6E-1
FILTERED	5.4E-4	5.2E-5	2.4E-4	1.8E-6	5.4E-2	8.8E-3	6.2E-3	

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NUCLIDE	ACTIV. μCi/ml	EPA DDE	SAMPLE DDE	EPA TEDE	SAMPLE TEDE	EPA THY CDE	SAMPLE THY CDE
Kr-85 Kr-85M Kr-87 Kr-88 Kr-89 Xe-131M Xe-133 Xe-133 Xe-135 Xe-135 Xe-137 Xe-138 TOTAL NOI	BLE /ml:	x 1.3 = x 93 = x 510 = x 1300 = x 1200 = x 4.9 = x 17 = x 140 = x 250 = x 110 = x 710 =	CONTINUE	x 1 = x 1 =		DCF	
I - 129))))) X	x 4.8 = x 220 = x 1400 = x 350 = x 1600 =		x 43750 = x 241 = x 3.5 = x 43 = x 1.9 =	=	x 33 = x 24.5 = x 1.6 = x 14.6 = x 0.43 =	
TOTAL IOU µCi/ml:	DINE,	DD	DE DCF:	TE	DE DCF:	THY.	CDE DCF:

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MONITOR	(+ / 7		CEM				Ci	/sec
MONITOR VV A:	<u>μCi/ml</u> N.G.	X	<u>C FM</u> C FM	X X	4.72E-4 4.72E-4	=	NOBLE GAS	<u>IODINE</u>
	IOD.	X X X	CFM	– × × ×	4.72E-4 4.72E-4 4.72E-4	=		
VV B:	N.G.	×	CFM	_ x _ x	4.72E-4 4.72E-4	=	,	
	IOD.	X X	CFM	_ x _ x	4.72E-4 4.72E-4	=		
<u>PV:</u>	N.G.	X X	CFM	_ x _ x	4.72E-4 4.72E-4	=		
	IOD.	x x	CFM	_ x _ x	4.72E-4 4.72E-4	=		
AIR EJEC	TOR #1: N.G.	x x	CFM	_ x _ x	4.72E-4 4.72E-4	=		
	IOD.	x x	CFM	_ x _ x	4.72E-4 4.72E-4	=		
AIR EJEC	TOR #2: N.G.	x x	CFM	_ X _ X	4.72E-4 4.72E-4	=		
	IOD.	X X	CFM		4.72E-4 4.72E-4	=		
STATION	INVENTORY N.G.	Χ			x 1.0E-6 x 1.0E-6			
					x 1.0E-6 x 1.0E-6			
					S	UM Ci/sec:	<u>NG</u>	
[d by: Date: Time:							

NUMBER	ATTACHMENT TITLE	REVISION
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worksheet.

NOTE: TEDE and Thyroid CDE factors from Attachment 3 are to be applied to this X/Q. SITE BOUNDARY: STABILITY CLASS F C В D G 1.84E-6 Windspeed Windspee TEDE DOF X/Q TEDE THY, CDE WINDSPEED MONITOR THY CDE DCF CFM mrem/hr mrem/hr VV A: CFM x 4.72E-1 x X/Q/WINDSPEED _ x 4.72E-1 x _____ THY CDE CFM x 4.72E-1 x X/Q/WINDSPEED __ x 4.72E-1 x _____ x 4.72E-1 x X/Q/WINDSPEED x 4.72E-1 x _____ TEDE VV B: x x CFM THY CDE x 4.72E-1 x X/Q/WINDSPEED ___ x 4.72E-1 x _____ PV: CFM x 4.72E-1 x X/Q/WINDSPEED x 4.72E-1 x CFM THY CDE x 4.72E-1 x X/Q/WINDSPEED X _ x 4.72E-1 x _____ AIR EJECTOR #1: TEDE CFM x 4.72E-1 x X/Q/WINDSPEED _ x 4.72E-1 x _____ x CFM x 4.72E-1 x X/Q/WINDSPEED _____ x 4.72E-1 x _____ AIR EJECTOR #2: x 4.72E-1 x X/Q/WINDSPEED TEDE x CFM _ x 4.72E-1 x _____ x 4.72E-1 x X/Q/WINDSPEED x 4.72E-1 x _____ x CFM THY CDE STATION INVENTORY: x VOLUME (mls) x 1.0E-3 / SECONDS x X/Q/WINDSP. ____ x 1.0E-3 / ____ x ____ THY CDE x VOLUME (mls) x 1.0E-3 / SECONDS x X/Q/WINDSP. __ x ____ x 1.0E-3 / ___ x ____ = Completed by: SUM mrem/hr: TEDE THY CDE Date/Time: _____/

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NOTE: ●

No letdown or sprays are assumed available. Containment Air concentration (μ Ci/cc) = Ci Cont. Air x 1.92E-5. RCS concentration (μ Ci/cc) = Ci Cont. Air x 3.765E-3. Data is given for 0, 1, 2 and 4 hours after LOCA occurs.

HOURS AFTER LOCA	CHRRMS R/hr	EVENT DESCRIPTION	Ci N.G. Cont. Air	Ci IODINE (HALOGEN) Cont. Air	RCS D.E. I-131 μCi/ml
0	1.5E+6	100% NG, 50% HAL Released to Cont. Air	8.2E+8 Ci	4.4E+8 Ci	1.99E+5 μCi/ml
	1.5E+5	10% NG, 5% HAL Released to Cont. Air	8.2E+7 Ci	4.4E+7 Ci	1.99E+4 μCi/ml
	1.5E+4	1% NG, .5% HAL Released to Cont. Air	8.2E+6 Ci	4.4E+6 Ci	1.99E+3 μCi/ml
	1.9E+3 100% GAP Released to Cont. Air		1.74E+6 Ci	1.59E+6 Ci	2.76E+3 μCi/ml
	1.9E+2	10% GAP Released to Cont. Air	1.74E+5 Ci	1.59E+5 Ci	2.76E+2 μCi/ml
	1.9E+1	1% GAP Released to Cont. Air	1.74E+4 Ci	1.59E+4 Ci	2.76E+1 μCi/ml
	9.0	1% Failed Fuel Primary Gas Release	6.12E+4 Ci	2.00E+3 Ci	2.40E+0 μCi/ml

HOURS AFTER LOCA	CHRRMS R/hr	EVENT DESCRIPTION	Ci N.G. Cont. Air	Ci IODINE (HALOGEN) Cont. Air
1	5.5E+5	100% NG, 50% HAL Released to Cont. Air	3.57E+8 Ci	2.72E+8 Ci
	5.5E+4	10% NG, 5% HAL Released to Cont. Air	3.57E+7 Ci	2.72E+7 Ci
	5.5E+3	1% NG, .5% HAL Released to Cont. Air	3.57E+6 Ci	2.72E+6 Ci
	1.75E+3	100% GAP Released to Cont. Air	1.69E+6 Ci	1.45E+6 Ci
	1.75E+2	10% GAP Released to Cont. Air	1.69E+5 Ci	1.45E+5 Ci-•
1.75E+1		1% GAP Released to Cont. Air	1.69E+4 Ci	1.45E+4 Ci
	8.0	1% Failed Fuel Primary Gas Release	6.01E+4 Ci	1.84E+3 Ci

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ATTACHMENT	CHRRMS - EVENT - AVAILABLE CURIES	PAGE
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NOTE: ●

No Letdown or Sprays are assumed available. Containment Air concentration (μ Ci/cc) = Ci Cont. Air x 1.92E-5. RCS concentration (μ Ci/cc) = Ci Cont. Air x 3.765E-3. Data is given for 0, 1, 2 and 4 hours after LOCA occurs.

HOURS AFTER LOCA	CHRRMS R/hr	EVENT DESCRIPTION	Ci N.G. Cont. Air	Ci IODINE (HALOGEN) Cont. Air
2	4.0E+5	100% NG, 50% HAL Released to Cont. Air	3.14E+8 Ci	2.26E+8 Ci
	4.0E+4	10% NG, 5% HAL Released to Cont. Air	3.14E+7 Ci	2.26E+7 Ci
	4.0E+3	1% NG, .5% HAL Released to Cont. Air	3.14E+6 Ci	2.26E+6 Ci
	1.5E+3	100% GAP Released to Cont. Air	1.65E+6 Ci	1.37E+6 Ci
	1.5E+2	10% GAP Released to Cont. Air	1.65E+5 Ci	1.37E+5 Ci
	1.5E+1	1% GAP Released to Cont. Air	1.65E+4 Ci	1.37E+4 Ci
	7.5	1% Failed Fuel Primary Gas Release	6.00E+4 Ci	1.73E+3 Ci

HOURS AFTER LOCA	CHRRMS R/hr	EVENT DESCRIPTION	Ci N.G. Cont. Air	Ci IODINE (HALOGEN) Cont. Air
4	2.75E+5	100% NG, 50% HAL Released to Cont. Air	2.70E+8 Ci	1.78E+8 Ci
	2.75E+4	10% NG, 5% HAL Released to Cont. Air	2.70E+7 Ci	1.78E+7 Ci
	2.75E+3	1% NG, .5% HAL Released to Cont. Air	2.70E+6 Ci	1.78E+6 Ci
	1.2E+3	100% GAP Released to Cont. Air	1.59E+6 Ci	1.25E+6 Ci
	1.2E+2	10% GAP Released to Cont. Air	1.59E+5 Ci	1.25E+5 Ci-•
	1.2E+1	1% GAP Released to Cont. Air	1.59E+4 Ci	1.25E+4 Ci
	7	1% Failed Fuel Primary Gas Release	5.85E+4 Ci	1.56E+3 Ci

VIRGINIA POWER NORTH ANNA POWER STATION EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-4.26	HIGH LEVEL ACTIVITY SAMPLE ANALYSIS	11
	(With 2 Attachments)	PAGE
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PURPOSE

To provide guidance for analyzing high activity samples during an emergency.

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. Activation by EPIP-4.22, POST ACCIDENT SAMPLING OF CONTAINMENT AIR.
- 2. Activation by EPIP-4.23, POST ACCIDENT SAMPLING OF REACTOR COOLANT.
- 3. Activation by another EPIP.
- 4. Detector dead time exceeds 10%.
- 5. Sample activity greater than 10 mrem/hr.

Approvals on File

Effective Date 9/13/01

NUMBER PROCEDURE TITLE REVISION

EPIP-4.26 HIGH LEVEL ACTIVITY SAMPLE ANALYSIS

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!		7 /		
	STEP	H	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
		_ 1	INITIATE PROCEDURE: • By: Date: Time:	
		_ 2	VERIFY HP COUNT ROOM AREA RADIATION LEVELS PERMIT SAMPLE ANALYSIS	<u>IF</u> use of alternate analysis facility required, <u>THEN</u> establish alternate analysis facility in Admin Annex HP Lab.
				$\overline{\text{IF}}$ alternate facility $\overline{\text{NOT}}$ available, $\overline{\text{THEN}}$ do the following:
				 a) Ask RPS for assistance in preparation for sample shipment offsite.
				b) GO TO Step 13.
		<u>NOT</u>	noble gases or volatiles, as w	g may yield significant quantities of well as fission products, in the othing and respiratory protection is ration.
		_ 3	ACTIVATE RWP FOR POST-ACCIDENT SAMPLE OF REACTOR COOLANT OR CONTAINMENT AIR	<u>IF NOT</u> analyzing a post-accident reactor coolant or containment air sample, <u>THEN</u> ask RPS to assess need for RWP.

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STEP ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

_ 4 DETERMINE RESPONSE ACTIONS BASED ON SAMPLE ACTIVITY LEVEL:

IF the following condition exists:	THEN do the following:
Sample activity GREATER THAN 1000 mR/hr	GO TO Step 6.
Sample activity GREATER THAN 10 mR/hr (but LESS THAN 1000 mR/hr)	a. Take sample to Hot Lab or HRSS hood. b. GO TO Step 5.
Sample activity yields GREATER THAN 10% detector dead time	a. Take sample to Hot Lab or HRSS hood. b. GO TO Step 5.
Sample activity LESS THAN 10 mR/hr	a. Take sample to Count Room. b. GO TO Step 11.

_ 5 DETERMINE FOLLOW-UP ACTIONS:

- Dilute sample: GO TO Step 6
- Allow sample to decay: GO TO Step 9
- Reduce sample volume: GO TO Step 10
- Analyze sample in elevated position: GO TO Step 12

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EPIP-4.26	HIGH LEVEL ACTIVITY SAMPLE ANALYSIS	11
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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- _ 6 VERIFY LIQUID OR GAS SAMPLE TO BE DILUTED:
 - a) Use a Fume Hood when doing dilutions in Hot Lab or HRSS hood
 - b) Verify LIQIUD sample to be diluted
 - c) Verify liquid sample from source other than Sentry System

- <u>IF</u> diluting radioiodine or particulate air sample, or if sample dilution is <u>NOT</u> acceptable, <u>THEN</u> GO TO Step 9.
- b) <u>IF</u> diluting GASEOUS sample, <u>THEN</u> do the following:
 - 1) Perform a 1:100 dilution (0.01 times original volume).
 - 2) GO TO Step 11.
- c) <u>IF</u> sample activity of liquid sample from Sentry System LESS THAN 1000 mR/hr, <u>THEN</u> GO TO Step 6.d.

<u>IF</u> sample activity of liquid sample from Sentry System GREATER THAN 1000 mR/hr, <u>THEN</u> GO TO Step 7.

- d) Do LIQUID sample dilution:
 - 1) Determine appropriate dilution ratio, e.g., 1:10 dilution (0.1 times original volume), 1:1000 dilution (0.001 times original volume)
 - 2) Perform dilution
 - 3) Check sample activity WITHIN LIMITS
 - 4) GO TO Step 11

3) <u>IF</u> sample activity still too high, <u>THEN</u> do additional dilution(s) to yield an acceptable activity level.

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EPIP-4.26	HIGH LEVEL ACTIVITY SAMPLE ANALYSIS	11
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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTA	INED
7	GET THE FOLLOWING EQUIPMENT: • Operable Fume Hood • 1,000 ml volumetric flasks partially filled with demineralized water (≈ 800 ml) • Dilutor Assembly		
	 Lead bricks (as needed) Phillips-head screwdriver Adjustable wrench Vent tube with attached needle One squeeze bottle of dilution water 		
	 Grease pencil Three tape strips (≈ 4" each) Sample containers 		
8	INITIATE ATTACHMENT 2, DILUTE SAMPLE USING SENTRY SYSTEM		
q	CHECK TIME AVAILABLE TO ALLOW	IE air camplo. TUEN do	+ h o

- _ 9 CHECK TIME AVAILABLE TO ALLOW SAMPLE DECAY PRIOR TO ANALYSIS:
 - a) Isolate sample to prevent personnel exposure
 - b) Keep sample for later analysis
 - c) GO TO Step 11

 \underline{IF} air sample, \underline{THEN} do the following:

- 1) Separate particulate and silver zeolite cartridges.
- 2) Count particulate and silver zeolite cartridge separately.
- 3) GO TO Step 12.

<u>IF</u> sample volume to be reduced, <u>THEN</u> GO TO Step 10.

 $\underline{\text{IF}}$ sample to be analyzed, $\underline{\text{THEN}}$ GO TO Step 11.

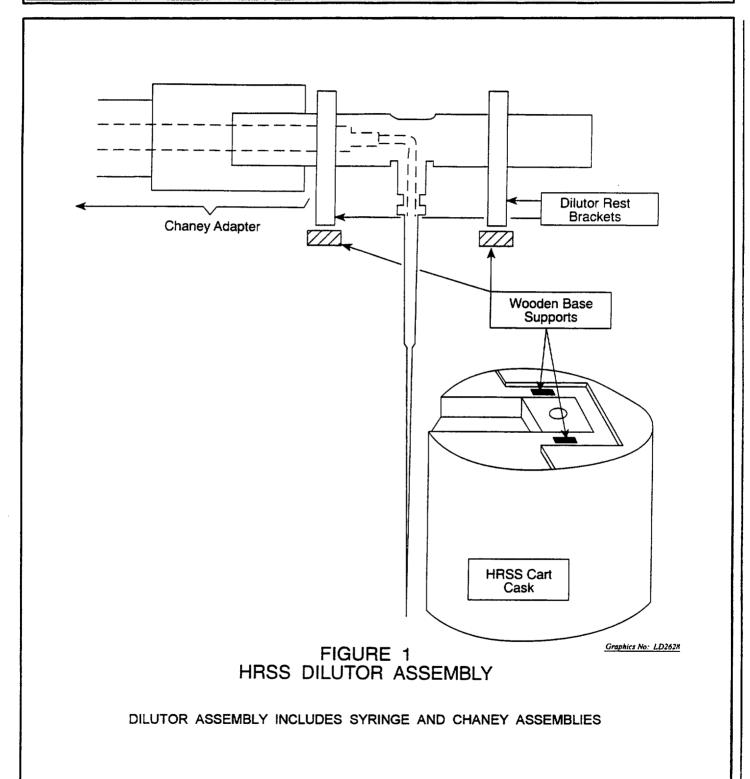
NUMBER PROCEDURE TITLE REVISION

EPIP-4.26 HIGH LEVEL ACTIVITY SAMPLE ANALYSIS

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
	<u> </u>	
10	REDUCE SAMPLE VOLUME:	
	a) Verify GAS sample	a) <u>IF</u> LIQUID sample, <u>THEN</u> do the following:
		 Put desired sample volume in suitable container with a calibrated geometry.
		Dilute sample (to appropriate mark) with water.
	b) Record volume of undiluted sample in the container	
11	VERIFY BOTH THE FOLLOWING CONDITIONS EXIST:	RETURN TO Step 5.
	 Verify sample dose rate reads LESS THAN 10 mR/hr 	
	Calibrated elevated geometry \underline{N} available for use	<u>0T</u>
12	TAKE SAMPLE TO COUNT ROOM FOR ANALYSIS IAW NORMAL HP PROCEDURE	S
13	TERMINATE EPIP-4.26:	
	 Give completed EPIP-4.26, form and other applicable records t the RPS 	
	• Completed by:	
	Date:	
	Time:	
	- E)	ND -

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.26	HRSS DILUTOR ASSEMBLY	11
ATTACHMENT	FIGURE 1	PAGE
1	FIGURE	1 of 4



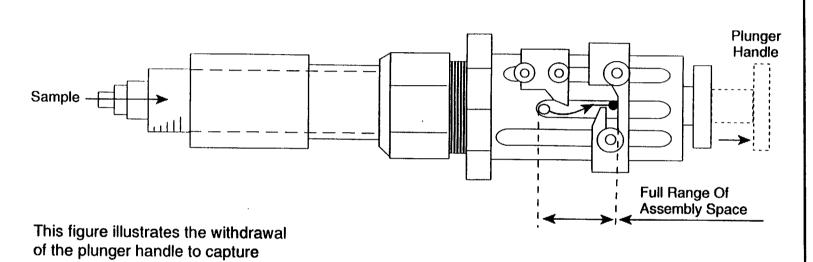


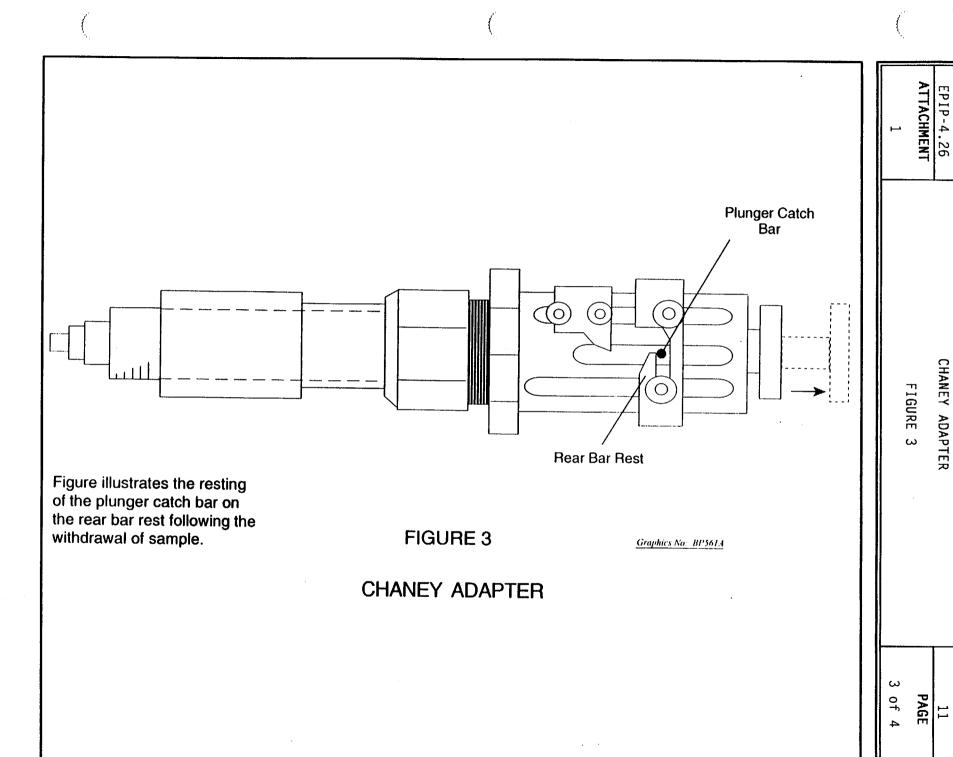
FIGURE 2

a > 2.0 ml sample.

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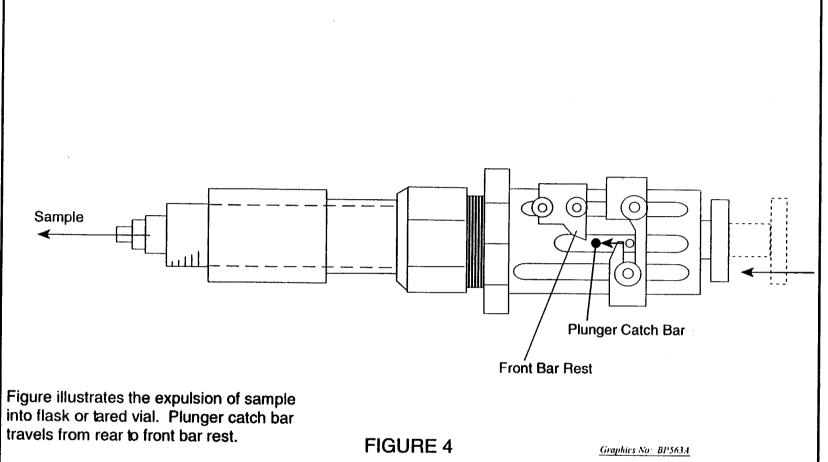
CHANEY ADAPTER

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PAGE	FIGURE 2	ATTACHMENT
<u></u>	CHANEY ADAPTER	EPIP-4.26
REVISION	ATTACHMENT TITLE	NUMBER



ATTACHMENT

REVISION



Graphics No: BP

CHANEY ADAPTER

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EPIP-4.26	DILUTE SAMPLE USING SENTRY SYSTEM	11
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- 1) Place 1000 ml volumetric flask in fume hood.
- 2) Position cask near the fume hood.
- 3) Remove auxiliary shield hold-down bolts, as needed.
- 4) Remove needle plug.
- 5) $\underline{\text{IF}}$ radiation levels increase when plug is removed, THEN use lead bricks to reduce streaming.
- 6) Place end of vent tube in strong vacuum area of hood and tape down to inside of the hood.
- 7) Carefully insert vent needle into guide and puncture septum to vent vial.
- 8) Remove needle and store in hood.
- 9) Place support blocks in appropriate locations so that dilutor rest brackets will sit squarely on them (see Attachment 1, Figure 1).
- 10) Ensure syringe plunger is in the fully expelled position.
- 11) Carefully insert needle of dilutor into guide and bring to rest on support blocks.
- 12) Slowly withdraw maximum amount of sample (greater than 2.0 mls) by withdrawing plunger handle full range of assembly space (see Attachment 1, Figure 2).
- 13) Bring the plunger catch bar to rest on the rear bar rest (see Attachment 1, Figure 3).
- 14) Carefully remove dilutor assembly from needle guide by pulling up in one straight motion.
- 15) Carefully insert needle into neck of volumetric flask.
- 16) Carefully touch tip of needle to wall of flask while slowly expelling contents of syringe and depress plunger handle only as far as front bar rest (see Attachment 1, Figure 4). This expells exactly 2.0 mls.
- 17) Add dilution water to volumetric flask to bring level up to 1000 mls.

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-4.26	DILUTE SAMPLE USING SENTRY SYSTEM	11
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- 18) Label 1 liter volumetric flask with date, time of sample, sample location, and one of the following:
 - 0.002 RCS for diluted HRSS

0R

- 2 mls for an undiluted sample.
- 19) Check 1 liter volumetric flask is LESS THAN 10 mR/hr, then GO TO Step 20 of this Attachment 2

0R

IF NOT LESS THAN 10 mR/hr, THEN GO TO EPIP-4.26, Step 5.

- 20) Get HP assistance and select a suitable sample container with a calibrated geometry.
- 21) Measure diluted sample from Step 18 above into selected sample container with the calibrated geometry.
- 22) Label container with date, sample time, sample location and actual mls of RCS in the sample geometry:

Actual = $\underline{\text{mls sample from Step 18}}$ x mls solution from Step 21 mls RCS 1000

- 23) Remove temporary shielding (if installed) and replace auxiliary shield on cask. Replace needle shield when time permits.
- 24) GO TO EPIP-4.26, Step 12.

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

DOCUMENT NUMBER	REV	APPROVAL **DATE**	EFFECT** **DATE**	DOCUMENT TITLE
EPIP-1.01	034	07/26/01	09/13/01	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	024	09/24/01	09/26/01	NOTIFICATION OF STATE AND LOCAL GOVERNMENTS
EPIP-2.02	014	01/04/99	01/29/99	NOTIFICATION OF NRC
EPIP-2.04	003	08/07/92	08/07/92	TRANSMITTAL OF PLANT, RADIOLOGICAL AND EMERGENCY STATUS
EPIP-3.02	018	12/17/97	01/07/98	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	016	05/12/99	05/17/99	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	013	07/26/01	09/13/01	INITIAL OFFSITE RELEASE ASSESSMENT
EPIP-4.09	012	07/26/01	09/13/01	SOURCE TERM ASSESSMENT
EPIP-4.10	010	04/23/98	04/28/98	DETERMINATION OF X/Q

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DOCUMENT NUMBER	REV	APPROVAL **DATE**	EFFECT** **DATE**	DOCUMENT TITLE
EPIP-4.13	009	09/29/00	10/06/00	OFFSITE RELEASE ASSESSMENT WITH ENVIRONMENTAL DATA
EPIP-4.14	007	12/20/93	01/01/94	INPLANT MONITORING
EPIP-4.15	011	02/18/00	02/28/00	ONSITE MONITORING
EPIP-4.16	014	02/18/00	02/28/00	OFFSITE MONITORING
EPIP-4.17	014	08/12/98	08/14/98	MONITORING OF EMERGENCY RESPONSE FACILITIES
EPIP-4.18	011	08/12/98	08/14/98	MONITORING OF LEOF
EPIP-4.21	008	12/20/93	01/01/94	EVACUATION AND REMOTE ASSEMBLY AREA MONITORING
EPIP-4.22	013	04/02/93	04/02/93	POST ACCIDENT SAMPLING OF CONTAINMENT AIR
EPIP-4.23	013	03/13/96	03/18/96	POST ACCIDENT SAMPLING OF REACTOR COOLANT
EPIP-4.24	010	07/20/99	07/22/99	GASEOUS EFFLUENT SAMPLING DURING AN EMERGENCY
EPIP-4.25	800	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	004	01/04/99	01/08/99	USE OF MIDAS CLASS A MODEL
EPIP-4.31	003	06/20/94	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	800	07/20/99	07/22/99	ACCESS CONTROL
EPIP-5.05	013	06/25/96	07/02/96	SITE EVACUATION
EPIP-5.07	011	07/25/00	08/02/00	ADMINISTRATION OF RADIOPROTECTIVE DRUGS
EPIP-5.08	007	11/28/00	11/30/00	DAMAGE CONTROL GUIDELINE

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EPIP-5.09	003	03/26/99	03/31/99	SECURITY TEAM LEADER CONTROLLING PROCEDURE
EPIP-6.01	007	05/12/99	05/17/99	RE-ENTRY/RECOVERY GUIDELINE