

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

July 28, 2000

United States Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D. C. 20555-0001

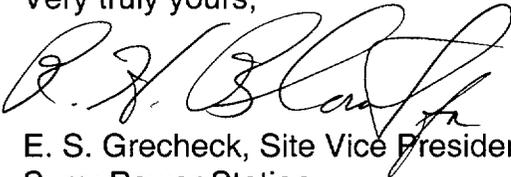
Serial No. 00-383  
SS&L/BAG R0  
Docket No. 50-280  
50-281  
License No. DPR-32  
DPR-37

Gentlemen:

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**SURRY POWER STATION UNITS 1 AND 2**  
**REVISIONS TO EMERGENCY PLAN IMPLEMENTING PROCEDURE**

Pursuant to 10 CFR 50.54(q), enclosed are revisions to a Surry Power Station Emergency Plan Implementing Procedure. The revisions do not implement actions which 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 the enclosed tabulation of changes.

Very truly yours,



E. S. Grecheck, Site Vice President  
Surry Power Station

Enclosure

Commitments contained in this letter: None.

cc: U. S. Nuclear Regulatory Commission (2 copies)  
Region II  
Atlanta Federal Center  
61 Forsyth Street S.W., Suite 23 T85  
Atlanta, Georgia 30303-8931

Mr. R. A. Musser  
NRC Senior Resident Inspector  
Surry Power Station

Aφ45

Serial No. 00-383  
Surry EPIP Revisions

**VIRGINIA ELECTRIC AND POWER COMPANY  
REVISION TO SURRY POWER STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE**

Enclosed are revisions to a Surry Power Station Emergency Plan Implementing Procedure. Please take the following actions in order to keep your manual updated with the most recent revisions.

<b>REMOVE AND DESTROY:</b>	<b>EFFECTIVE DATE:</b>	<b>INSERT:</b>	<b>EFFECTIVE DATE:</b>
EPIP-1.01, Rev. 40	11/04/99	EPIP-1.01, Rev. 41	07/14/00

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

This document should be verified and annotated to a controlled source as required to perform work.  
**EMERGENCY PLAN IMPLEMENTING PROCEDURE**

<b>NUMBER</b> EPIP-1.01	<b>PROCEDURE TITLE</b> EMERGENCY MANAGER CONTROLLING PROCEDURE  (With 2 Attachments)	<b>REVISION</b> 41
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**PURPOSE**

To initially assess a potential emergency condition and initiate corrective actions.

**ENTRY CONDITIONS**

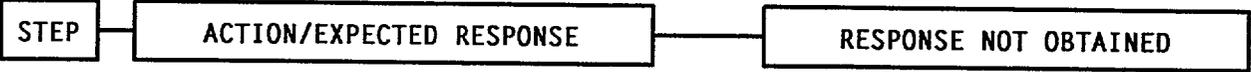
Any one of the following:

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 7/14/00

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**CAUTION:** Declaration of the highest emergency class for which an Emergency Action Level is exceeded shall be made.

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**NOTE:** The ERFCS is potentially unreliable in the event of an earthquake. Therefore, ERFCS parameters should be evaluated for accuracy should an earthquake occur.

1 MAKE INITIAL ASSESSMENT:

- a) Determine event category using Attachment 1, Emergency Action Level Table Index
- b) Review EAL Tab associated with event category
- c) Use Control Room monitors, ERFCS, and outside reports to get indications of emergency conditions listed in the EAL Table
- d) Verify EAL - EXCEEDED
- d) IF EAL NOT exceeded, THEN RETURN TO procedure in effect.
- e) Record procedure initiation:
  - By: \_\_\_\_\_
  - Date: \_\_\_\_\_
  - Time: \_\_\_\_\_
- f) Initiate a chronological log of events
- g) Declare position of Station Emergency Manager

<b>NUMBER</b> EPIP-1.01	<b>PROCEDURE TITLE</b> EMERGENCY MANAGER CONTROLLING PROCEDURE	<b>REVISION</b> 41 <hr/> <b>PAGE</b> 3 of 7
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**NOTE:** Assembly, accountability and/or initiation of facility staffing may not be desired during certain situations (e.g., security event, severe weather, anticipated grid disturbance) or may have already been completed. These activities should be implemented as quickly as achievable given the specific situation.

\_\_\_\_\_ 2 CHECK - CONDITIONS ALLOW FOR NORMAL IMPLEMENTATION OF EMERGENCY RESPONSE ACTIONS

IF deviation from normal emergency response actions warranted, THEN do the following:

- a) Refer to Attachment 2, Considerations for Operations Response Under Abnormal Conditions.
- b) Consider applicability of 50.54(x).
- c) IF classification/assembly announcement deferred, THEN GO TO Step 4.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
3	NOTIFY PLANT STAFF OF ALERT OR HIGHER CLASSIFICATION:	
	a) Check classification - Alert OR HIGHER	a) GO TO Step 4.
	b) Check if emergency assembly and accountability - PREVIOUSLY CONDUCTED	b) Do the following: <ol style="list-style-type: none"> <li>1) Sound emergency alarm and make announcement on station Gai-Tronics system as follows:               <p>“(Emergency classification) has been declared due to _____”.</p> <p>“All emergency response personnel report to your assigned stations. All other personnel report to your Emergency Assembly Area”.</p> </li> <li>2) Repeat RNO Step 3.b.1.</li> <li>3) GO TO Step 4.</li> </ol>
	c) Sound emergency alarm and make announcement on station Gai-Tronics system as follows:	
	“(Emergency classification) has been declared due to _____”	
	d) Repeat Step 3.c	

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**CAUTION:** All further instructions should be continued through unless otherwise directed to hold.

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4 INITIATE SUPPORTING PROCEDURES:

a) Direct Emergency Communicators to initiate the following:

- 1) EPIP-2.01, NOTIFICATION OF STATE AND LOCAL GOVERNMENTS
- 2) EPIP-2.02, NOTIFICATION OF NRC

b) Check if classification announcement made using Gai-Tronics system

b) Notify the following to initiate controlling procedures:

- HP Shift Supervisor:  
EPIP-4.01, RADIOLOGICAL ASSESSMENT DIRECTOR CONTROLLING PROCEDURE
- Security Shift Supervisor:  
EPIP-5.09, SECURITY TEAM LEADER CONTROLLING PROCEDURE

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
_____ 5	CHECK TSC - ACTIVATED	<p><u>IF</u> TSC <u>NOT</u> activated, <u>THEN</u> do the following:</p> <ul style="list-style-type: none"> <li>a) Have STA report to the Control Room.</li> <li>b) Notify Operations Manager-On-Call (OMOC) or Superintendent Operations.</li> <li>c) Evaluate initiation of Operations Department directive for augmenting staff resources during Emergency Plan activation.</li> <li>d) Evaluate having Radiological Assessment Director report to the Control Room.</li> </ul>
_____ 6	<p>INITIATE EPIP FOR EMERGENCY CLASSIFICATION IN EFFECT:</p> <ul style="list-style-type: none"> <li>• <b>Notification of Unusual Event</b> - EPIP-1.02, RESPONSE TO NOTIFICATION OF UNUSUAL EVENT</li> <li>• <b>Alert</b> - EPIP-1.03, RESPONSE TO ALERT</li> <li>• <b>Site Area Emergency</b> - EPIP-1.04, RESPONSE TO SITE AREA EMERGENCY</li> <li>• <b>General Emergency</b> - EPIP-1.05, RESPONSE TO GENERAL EMERGENCY</li> </ul>	

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\_\_\_\_\_ 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 THE FOLLOWING:

- Emergency termination
- Facility de-activation
- Selective release of personnel
- Completion and collection of procedures
- Recovery

\_\_\_\_\_ 9 TERMINATE EPIP-1.01:

- Give completed EIPs, forms and other applicable records to the Emergency Procedures Coordinator in the TSC

- Give to STA

AND

Notify Records Management that used EIPs require replacement.

• Completed By: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

-END-

NUMBER	ATTACHMENT TITLE	REVISION
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ATTACHMENT	INDEX	PAGE
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CAUTION: • 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.

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<u>IF EVENT CATEGORY IS:</u>	<u>GO TO TAB</u>
1. Safety, Shutdown, or Assessment System Event.....	A
2. Reactor Coolant System Event.....	B
3. Fuel Failure or Fuel Handling Accident.....	C
4. Containment Event.....	D
5. Radioactivity Event.....	E
6. DELETED	
7. Loss of Secondary Coolant.....	G
8. Electrical Failure.....	H
9. Fire.....	I
10. Security Event.....	J
11. Hazard to Station Operation.....	K
12. Natural Events.....	L
13. Miscellaneous Abnormal Events.....	M

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ATTACHMENT 1		PAGE 2 of 37

<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>1. Inability to reach required unit operating condition within T.S. time limits</p> <p>ABOVE CSD CONDITION</p>	<p>Intentional reduction in power, load, or temperature IAW T.S. Action Statement - HAS COMMENCED</p> <p><u>AND</u></p> <p>T.S. Action Statement time limit for condition change - CANNOT BE MET</p>	<p>NOTIFICATION OF UNUSUAL EVENT</p>
<p>2. Loss of Function needed for unit HSD condition</p> <p>ABOVE CSD CONDITION</p>	<p>a) Inability to attain the minimum required heat sink as indicated by loss of the following:</p> <ul style="list-style-type: none"> <li>• Main Feedwater System</li> </ul> <p><u>AND</u></p> <ul style="list-style-type: none"> <li>• Auxiliary Feedwater</li> </ul> <p><u>AND</u></p> <ul style="list-style-type: none"> <li>• Auxiliary Feedwater Crosstie</li> </ul> <p><u>OR</u></p> <p>b) Loss of High Head flowpath as indicated by loss of the following:</p> <ul style="list-style-type: none"> <li>• Normal Charging System</li> </ul> <p><u>AND</u></p> <ul style="list-style-type: none"> <li>• High Head SI System</li> </ul>	<p>SITE AREA EMERGENCY</p>

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB A) SYSTEM SHUTDOWN, OR ASSESSMENT SYSTEM EVENT	41
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>3. Loss of cooling function needed for Cold Shutdown and Refueling Condition</p> <p>CSD &amp; RSD</p>	<ul style="list-style-type: none"> <li>• Secondary System cooling capability - UNAVAILABLE</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Loss of any of the following systems: <ul style="list-style-type: none"> <li>• Service Water</li> <li>• Component Cooling</li> <li>• Residual Heat Removal</li> </ul> </li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• RCS temperature GREATER THAN 140° F</li> </ul>	ALERT
<p>4. Failure of a safety or relief valve to close after pressure reduction</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>• <u>RCS</u> <ul style="list-style-type: none"> <li>• RCS pressure - LESS THAN 2000 psig</li> </ul> </li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Overpressure Mitigation System - ENABLED</p> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Any indication after lift or actuation that Pressurizer Safety or PORV - REMAINS OPEN</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Flow - NON-ISOLABLE</li> <li>• <u>MAIN STEAM</u> <p>Excessive flow through Steam Generator Safety or PORV as indicated by rapid RCS cooldown rate - GREATER THAN 50° F per hour</p> </li> </ul>	NOTIFICATION OF UNUSUAL EVENT

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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>5. Failure of the reactor to trip (ATWT)</p> <p>POWER OPS &amp; HSD</p>	<ul style="list-style-type: none"> <li>• Reactor trip setpoint and coincidences - EXCEEDED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Automatic reactor trip from RPS - FAILED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Manual reactor trip from Control Room - FAILED</li> </ul>	<p>SITE AREA EMERGENCY</p>
<p>6. Trip following ATWT that takes the reactor subcritical</p> <p>POWER OPS &amp; HSD</p>	<ul style="list-style-type: none"> <li>• Reactor trip setpoint and coincidences - EXCEEDED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Automatic reactor trip from RPS - FAILED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Manual reactor trip - REQUIRED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Manual reactor trip from Control Room - SUCCESSFUL</li> </ul>	<p>ALERT</p>

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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>7. Loss of plant communications capability</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>• Station PBX phone system - FAILED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Station Gai-Tronics system - FAILED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Station UHF radio system - FAILED</li> </ul>	<p>NOTIFICATION OF UNUSUAL EVENT</p>
<p>8. Inability to monitor a significant transient in progress</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Most (&gt;75%) or all visual annunciator alarms on panels "A" to "K" - NOT AVAILABLE</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• All computer monitoring capability (e.g., plant computer, ERFCs) - NOT AVAILABLE</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Significant transient - IN PROGRESS (e.g., reactor trip, SI, turbine runback &gt;25% thermal reactor power, thermal power oscillations &gt;10%)</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Inability to directly monitor any one of the following using Control Room indications: <ul style="list-style-type: none"> <li>• Subcriticality</li> <li>• Core Cooling</li> <li>• Heat Sink</li> <li>• Vessel Integrity</li> <li>• Containment Integrity</li> </ul> </li> </ul>	<p>SITE AREA EMERGENCY</p>

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB A)	41
ATTACHMENT	SYSTEM SHUTDOWN, OR ASSESSMENT SYSTEM EVENT	PAGE
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
9. Unplanned loss of safety system annunciators with compensatory indicators unavailable or a transient in progress  ABOVE CSD CONDITION	<ul style="list-style-type: none"> <li>• Unplanned loss of most (&gt;75%) or all visual annunciator alarms on panels "A" to "K" for GREATER THAN 15 minutes</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• All computer monitoring capability (e.g., plant computer, ERFCS) - NOT AVAILABLE</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Significant transient - INITIATED OR IN PROGRESS (e.g., reactor trip, SI, turbine runback &gt;25% thermal reactor power, thermal power oscillations &gt;10%)</p>	ALERT
10. Unplanned loss of most or all safety system annunciators for greater than 15 minutes  ABOVE CSD CONDITION	Unplanned loss of most (>75%) or all visual annunciator alarms on panels "A" to "K" for GREATER THAN 15 minutes	NOTIFICATION OF UNUSUAL EVENT
11. Evacuation of Main Control Room with control NOT established within 15 minutes  ALL CONDITIONS	Evacuation of the Control Room with stable shutdown control NOT established within 15 minutes	SITE AREA EMERGENCY
12. Evacuation of Main Control Room required  ALL CONDITIONS	Evacuation of the Control Room with stable shutdown control established within 15 minutes	ALERT

NUMBER	ATTACHMENT TITLE	REVISION
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>1. RCS leak rate exceeds makeup capacity</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Primary system Leak (LOCA) - IN PROGRESS</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Safety Injection - REQUIRED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• RCS subcooling based on Core Exit Thermocouples - LESS THAN 30° F</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>RCS inventory cannot be maintained based on pressurizer level or RVLIS indication</p>	<p>SITE AREA EMERGENCY</p>
<p>2. RCS leak rate limit - EXCEEDED</p> <p>ABOVE CSD, CONDITION</p>	<ul style="list-style-type: none"> <li>• Primary system leak determined to be - GREATER THAN 50 gpm</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Pressurizer level can be - RESTORED AND MAINTAINED</li> </ul>	<p>ALERT</p>
<p>3. Leak rate requiring plant shutdown IAW T.S.</p> <p>ABOVE CSD CONDITION</p>	<p>Intentional reduction in power, load, or temperature IAW T.S. 3.1.C leakage limit Action Statement - HAS COMMENCED</p>	<p>NOTIFICATION OF UNUSUAL EVENT</p>

<b>NUMBER</b>	<b>ATTACHMENT TITLE</b> EMERGENCY ACTION LEVEL TABLE (TAB B) REACTOR COOLANT SYSTEM EVENT	<b>REVISION</b>
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>4. Steam generator tube rupture with loss of offsite power</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Steam generator tube rupture - IN PROGRESS</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Offsite power to unit specific Transfer Buses (Unit 1: D &amp; F; Unit 2: E &amp; F) - NOT AVAILABLE</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Atmospheric steam release from ruptured Steam Generator - OCCURRING OR REQUIRED</li> </ul>	SITE AREA EMERGENCY
<p>5. Excessive Primary to Secondary leakage with loss of offsite power</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Intentional reduction in power, load, or temperature IAW T.S. 3.1.C.6 leakage limit Action Statement - HAS COMMENCED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Offsite power to unit specific Transfer Buses (Unit 1: D &amp; F; Unit 2: E &amp; F) - NOT AVAILABLE</li> </ul>	ALERT
<p>6. Gross Primary to Secondary leakage</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Steam Generator tube rupture - IN PROGRESS</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Safety Injection - REQUIRED</li> </ul>	ALERT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB B)	41
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>7. Loss of 2 of 3 fission product barriers with potential loss of 3rd barrier</p> <p>ALL CONDITIONS</p>	<p>Any two of a), b) or c) exist and the third is imminent:</p> <p>a) Fuel clad integrity failure as indicated by any of the following:</p> <ul style="list-style-type: none"> <li>• RCS specific activity - GREATER THAN OR EQUAL TO 300 <math>\mu\text{Ci/gm}</math> dose equivalent I-131</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>5 or more core exit thermocouples - GREATER THAN 1200° F</p> <p style="text-align: center;"><u>OR</u></p> <p>CHRRMS (Inside) Containment High Range Radiation Monitor:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> <p>RM-RMS-127 or -227, RM-RMS-128 or -228: GREATER THAN 2 x 10<sup>3</sup> R/hr</p> </div> <p style="text-align: center;"><u>OR</u></p> <p>Outside Containment High Range Radiation Monitor:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> <p>RM-RMS-161 or -261, GREATER THAN 6.3 x 10<sup>2</sup> mR/hr</p> </div> <p>b) Loss of RCS integrity as indicated by any of the following:</p> <ul style="list-style-type: none"> <li>• PORV failed open</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Loss of reactor coolant</p> <p>c) Loss of containment integrity as indicated by any of the following:</p> <ul style="list-style-type: none"> <li>• Containment pressure GREATER THAN 60 psia and NOT decreasing</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Release path to environment - EXISTS</p>	<p>GENERAL EMERGENCY</p>

NUMBER	ATTACHMENT TITLE	REVISION
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
8. Fuel failure with steam generator tube rupture  ALL CONDITIONS	<p>Any two of a), b) or c) exists and the third is imminent:</p> <p>a) Fuel clad integrity failure as indicated by any of the following:</p> <ul style="list-style-type: none"> <li>• RCS specific activity GREATER THAN OR EQUAL TO 300 <math>\mu</math>Ci/gm dose equivalent I-131</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>5 or more core exit thermocouples - GREATER THAN 1200° F</p> <p style="text-align: center;"><u>OR</u></p> <p>High Range Letdown Radiation Monitor:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>1-CH-RM-118, 2-CH-RM-218: GREATER THAN <math>7.0 \times 10^6</math> cpm</p> </div> <p>b) S/G tube rupture as indicated by both of the following:</p> <ul style="list-style-type: none"> <li>• Safety Injection - REQUIRED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Steam generator tube rupture - IN PROGRESS</li> </ul> <p>c) Loss of Secondary integrity associated with ruptured S/G pathway as indicated by:</p> <ul style="list-style-type: none"> <li>• Steam discharge to atmosphere</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Loss of secondary coolant outside containment - IN PROGRESS</p>	GENERAL EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>1. Core damage with possible loss of coolable geometry</p> <p>ABOVE CSD CONDITION</p>	<p>a) Fuel clad failure as indicated by any of the following:</p> <ul style="list-style-type: none"> <li>• RCS Specific activity GREATER THAN 60 <math>\mu\text{Ci/gm}</math> dose equivalent I-131</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>High Range Letdown Radiation Monitor:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>1-CH-RM-118, 2-CH-RM-218: GREATER THAN <math>1.4 \times 10^6</math> cpm</p> </div> <p style="text-align: center;"><u>AND</u></p> <p>b) Loss of cooling as indicated by any of the following:</p> <ul style="list-style-type: none"> <li>• 5 confirmed core exit thermocouples - GREATER THAN 1200° F</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Core delta T - ZERO</p> <p style="text-align: center;"><u>OR</u></p> <p>Core delta T - RAPIDLY DIVERGING</p>	<p>SITE AREA EMERGENCY</p>

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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>2. Severe Fuel Clad Damage</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• RCS specific activity GREATER THAN 300 <math>\mu\text{Ci/gm}</math> dose equivalent I-131</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>High Range Letdown Radiation Monitor:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>Either of the following indications occur within 30 minutes and remain for at least 15 minutes:</p> <p>1-CH-RM-118, 2-CH-RM-218: GREATER THAN <math>5.8 \times 10^4</math> cpm</p> </div>	<p>ALERT</p>
<p>3. Fuel clad damage indication</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Intentional reduction in power, load, or temperature IAW T.S. 3.1.D reactor coolant activity limit Action Statement - HAS COMMENCED</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>High Range Letdown Radiation Monitor:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>Either of the following indications occur within 30 minutes and remain for at least 15 minutes:</p> <p>1-CH-RM-118, 2-CH-RM-218: GREATER THAN <math>5.8 \times 10^3</math> cpm</p> </div>	<p>NOTIFICATION OF UNUSUAL EVENT</p>

NUMBER	ATTACHMENT TITLE	REVISION
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>4. Probable large radioactivity release initiated by LOCA with ECCS failure leading to core degradation</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Loss of reactor or secondary coolant - IN PROGRESS</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• RCS specific activity - GREATER THAN 300 <math>\mu\text{Ci/gm}</math> dose equivalent I-131</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>CHRRMS (Inside) Containment High Range Radiation Monitor:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> <p>RM-RMS-127 or -227, RM-RMS-128 or -228: GREATER THAN <math>2 \times 10^3</math> R/hr</p> </div> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• High or Low Head ECCS flow - NOT being delivered to the core (if expected by plant conditions)</li> </ul>	<p>GENERAL EMERGENCY</p>
<p>5. Probable large radioactivity release initiated by loss of heat sink leading to core degradation</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Loss of Main Feedwater System and Condensate System</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Loss of Auxiliary Feedwater System</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• RHR System - NOT OPERABLE</li> </ul>	<p>GENERAL EMERGENCY</p>

NUMBER	ATTACHMENT TITLE	REVISION
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>6. Probable large radioactivity release initiated by failure of protection system to bring reactor subcritical and causing core degradation</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Reactor nuclear power after trip remains - GREATER THAN 5%</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• RCS pressure GREATER THAN 2485 psig and NOT decreasing</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p style="text-align: center;">Containment pressure and temperature - RAPIDLY INCREASING</p>	<p>GENERAL EMERGENCY</p>
<p>7. Probable large radioactivity release initiated by loss of AC and all feedwater</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Loss of all onsite and offsite AC power</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Turbine Driven Auxiliary Feedwater Pump - NOT OPERABLE</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Restoration of either of the above NOT LIKELY within 2 hours</li> </ul>	<p>GENERAL EMERGENCY</p>

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB C)	41
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>8. Probable large radioactivity release initiated by LOCA with loss of ECCS and containment cooling</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Loss of reactor or secondary coolant - IN PROGRESS</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• High or Low Head ECCS flow NOT being delivered to the core (if expected by plant conditions)</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Containment RS sump temperature - GREATER THAN 190° F and NOT decreasing</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>All Containment Spray and Recirculation Spray Systems - NOT OPERABLE</p>	<p>GENERAL EMERGENCY</p>
<p>9. Major fuel damage accident with radioactive release to containment or fuel buildings</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>• Water level in reactor vessel during refueling - BELOW TOP OF CORE</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Water level in Spent Fuel Pit verified - BELOW TOP OF SPENT FUEL</p> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Verified damage to irradiated fuel resulting in readings on Ventilation Vent Kaman Monitor:</li> </ul> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>RM-VG-131 GREATER THAN <math>4.2 \times 10^7</math> <math>\mu\text{Ci}/\text{sec}</math></p> </div>	<p>SITE AREA EMERGENCY</p>

NUMBER	ATTACHMENT TITLE	REVISION
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>10. Fuel damage accident with release of radioactivity to containment or fuel buildings</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>• Verified accident involving damage to irradiated fuel</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• HP confirms fission product release from fuel</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Readings on Ventilation Vent Kaman Monitor:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>RM-VG-131 GREATER THAN <math>2.8 \times 10^5 \mu\text{Ci/sec}</math></p> </div>	<p>ALERT</p>
<p>11. Loss of cask/fuel containment barriers or accidental criticality</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>• Verified loss of all cask/fuel containment barriers</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• HP confirms fission product release</li> </ul>	<p>ALERT</p>
<p>12. Spent Fuel Storage Facility accident</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>• Verified Spent Fuel Storage Cask seal leakage</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Spent Fuel Storage Cask dropped or mishandled</p>	<p>NOTIFICATION OF UNUSUAL EVENT</p>

NUMBER	ATTACHMENT TITLE	REVISION
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<p>1. <u>CONDITION/APPLICABILITY</u> Extremely high Containment radiation, pressure and temperature  ABOVE CSD CONDITION</p>	<p><u>INDICATION</u> • Outside Containment High Range Radiation Monitor:</p>	<p><u>CLASSIFICATION</u> GENERAL EMERGENCY</p>
	<div style="border: 1px solid black; padding: 5px;"> RM-RMS-161 or -261, GREATER THAN <math>3.0 \times 10^3</math> mR/hr </div>	
	<p style="text-align: center;"><u>OR</u></p>	
	<p>CHRRMS (Inside) Containment High Range Radiation Monitor:</p>	
	<div style="border: 1px solid black; padding: 5px;"> RM-RMS-127 or -227, RM-RMS-128 or -228: GREATER THAN <math>9 \times 10^3</math> R/hr </div>	
	<p style="text-align: center;"><u>AND</u></p>	
	<p>• Containment pressure - GREATER THAN 45 psia and is NOT DECREASING</p>	
	<p style="text-align: center;"><u>OR</u></p>	
	<p>Containment temperature - GREATER THAN 280° F</p>	
<hr/> <p>2. High Containment radiation, pressure and temperature  ABOVE CSD CONDITION</p>	<p>• Outside Containment High Range Radiation Monitor:</p>	<p>SITE AREA EMERGENCY</p>
	<div style="border: 1px solid black; padding: 5px;"> RM-RMS-161 or -261, GREATER THAN <math>6.3 \times 10^2</math> mR/hr </div>	
	<p style="text-align: center;"><u>OR</u></p>	
	<p>CHRRMS (Inside) Containment High Range Radiation Monitor:</p>	
	<div style="border: 1px solid black; padding: 5px;"> RM-RMS-127 or -227, RM-RMS-128 or -228: GREATER THAN <math>2 \times 10^3</math> R/hr </div>	
	<p style="text-align: center;"><u>AND</u></p>	
	<p>• Containment pressure - GREATER THAN 23 psia and NOT decreasing</p>	
	<p style="text-align: center;"><u>OR</u></p>	
	<p>Containment temperature - GREATER THAN 200° F</p>	

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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
3. High Containment radiation, pressure and temperature  ABOVE CSD CONDITION	<ul style="list-style-type: none"> <li>Outside Containment High Range Radiation Monitor:  <div data-bbox="787 483 1166 577" style="border: 1px solid black; padding: 2px; display: inline-block;">               RM-RMS-161 or -261                GREATER THAN 24 mR/hr             </div> </li> </ul> <p style="text-align: center;"><u>OR</u></p> CHRMMMS (Inside) Containment High Range Radiation Monitor: <div data-bbox="787 766 1177 892" style="border: 1px solid black; padding: 2px; display: inline-block;">             RM-RMS-127 or -227,              RM-RMS-128 or -228:              GREATER THAN 1.54 R/hr           </div> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>Containment pressure -              GREATER THAN 17.7 psia</li> </ul> <p style="text-align: center;"><u>OR</u></p> Containment temperature - GREATER THAN 150° F	ALERT

<b>NUMBER</b>	<b>ATTACHMENT TITLE</b> EMERGENCY ACTION LEVEL TABLE (TAB E) RADIOACTIVITY EVENT	<b>REVISION</b>
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>1. Release imminent or in progress and site boundary doses projected to exceed 1.0 Rem TEDE or 5.0 Rem Thyroid CDE</p> <p>ALL CONDITIONS</p>	<p>HP assessment indicates actual or projected doses at or beyond Site Boundary - GREATER THAN 1.0 Rem TEDE or 5.0 Rem Thyroid CDE</p>	<p>GENERAL EMERGENCY</p>
<p>2. Release imminent or in progress and site boundary doses projected to exceed 100 mrem TEDE or 500 mrem Thyroid CDE</p> <p>ALL CONDITIONS</p>	<p>HP assessment indicates actual or projected doses at or beyond Site Boundary - GREATER THAN 100 mrem TEDE or 500 mrem Thyroid CDE</p>	<p>SITE AREA EMERGENCY</p>

<b>NUMBER</b>	<b>ATTACHMENT TITLE</b> EMERGENCY ACTION LEVEL TABLE (TAB E) RADIOACTIVITY EVENT	<b>REVISION</b>
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>3. High radiation or airborne contamination levels indicate a severe degradation in control of radioactive material</p> <p>ALL CONDITIONS</p>	<p>a) Valid unexpected readings on any of the following monitors have increased by a factor of 1000:</p> <ul style="list-style-type: none"> <li>• Control Room Area <span style="float: right; border: 1px solid black; padding: 2px;">RM-RMS-157</span></li> <li>• Auxiliary Building Control Area <span style="float: right; border: 1px solid black; padding: 2px;">RM-RMS-154</span></li> <li>• Auxiliary Building Drumming Area <span style="float: right; border: 1px solid black; padding: 2px;">RM-RMS-155</span></li> <li>• Decontamination Building Area <span style="float: right; border: 1px solid black; padding: 2px;">RM-RMS-151</span></li> <li>• Fuel Pit Bridge Area <span style="float: right; border: 1px solid black; padding: 2px;">RM-RMS-153</span></li> <li>• New Fuel Storage Area <span style="float: right; border: 1px solid black; padding: 2px;">RM-RMS-152</span></li> <li>• Laboratory Area <span style="float: right; border: 1px solid black; padding: 2px;">RM-RMS-158</span></li> <li>• Sample Room Area <span style="float: right; border: 1px solid black; padding: 2px;">RM-RMS-156</span></li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>b) Surry Radwaste Facility reports valid unexpected readings on any of the following monitors have increased by a factor of 1000:</p> <ul style="list-style-type: none"> <li>• Control Room <span style="float: right; border: 1px solid black; padding: 2px;">RRM-121</span></li> <li>• Chemistry Laboratory <span style="float: right; border: 1px solid black; padding: 2px;">RRM-122</span></li> <li>• Local Control Panel <span style="float: right; border: 1px solid black; padding: 2px;">RRM-129</span></li> <li>• Bitumen Control Room <span style="float: right; border: 1px solid black; padding: 2px;">RRM-130</span></li> </ul>	<p>ALERT</p>

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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>4. Effluent release GREATER THAN 10 times ODCM allowable limit</p> <p>ALL CONDITIONS</p>	<p>a) Any of the following monitors indicate valid readings above specified value for GREATER THAN 15 minutes:</p> <ul style="list-style-type: none"> <li>• Vent Vent Kaman</li> </ul> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>RM-VG-131 GREATER THAN 2.84 x 10<sup>5</sup> µCi/sec</p> </div> <ul style="list-style-type: none"> <li>• Process Vent Kaman</li> </ul> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>RM-GW-130 GREATER THAN 4.59 x 10<sup>7</sup> µCi/sec</p> </div> <ul style="list-style-type: none"> <li>• Discharge Tunnel</li> </ul> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>RM-SW-120 or -220 GREATER THAN 3.3 x 10<sup>5</sup> cpm</p> </div> <p style="text-align: center;"><u>OR</u></p> <p>b) HP assessment (sample results or dose projections) indicates GREATER THAN 10 times ODCM allowable limit</p> <p style="text-align: center;"><u>OR</u></p> <p>c) Surry Radwaste Facility Monitor GREATER THAN 10 times ODCM allowable limit as determined by HP:</p> <ul style="list-style-type: none"> <li>• RRM-101: Ventilation Stack Noble Gas monitor</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>RRM-131: Liquid Effluent Monitor</p>	<p>ALERT</p>

<b>NUMBER</b> EPIP-1.01	<b>ATTACHMENT TITLE</b> EMERGENCY ACTION LEVEL TABLE (TAB E) RADIOACTIVITY EVENT	<b>REVISION</b> 41
<b>ATTACHMENT</b> 1		<b>PAGE</b> 22 of 37

<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>5. Effluent release  GREATER THAN ODCM  allowable limit</p> <p>ALL CONDITIONS</p>	<p>a) Any of the following  monitors indicate valid  readings above specified  value for GREATER THAN  one hour:</p> <ul style="list-style-type: none"> <li>• Vent Vent Kaman <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> RM-VG-131 GREATER THAN  <math>2.84 \times 10^4 \mu\text{Ci/sec}</math> </div> </li> <li>• Process Vent Kaman <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> RM-GW-130 GREATER THAN  <math>4.59 \times 10^6 \mu\text{Ci/sec}</math> </div> </li> <li>• Discharge Tunnel <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> RM-SW-120 or -220  GREATER THAN  <math>3.3 \times 10^4 \text{ cpm}</math> </div> </li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>b) HP assessment (sample results  or dose projections) indicate  GREATER THAN 100% ODCM allowable  limit</p> <p style="text-align: center;"><u>OR</u></p> <p>c) Surry Radwaste Facility Monitor  GREATER THAN 100% ODCM allowable  limit as determined by HP:</p> <ul style="list-style-type: none"> <li>• RRM-101: Ventilation Stack Noble  Gas monitor</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>RRM-131: Liquid Effluent Monitor</p>	<p>NOTIFICATION OF  UNUSUAL EVENT</p>

NUMBER	ATTACHMENT TITLE	REVISION
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
1. Major Secondary line break with Primary to Secondary leakage GREATER THAN 50 gpm and fuel damage indicated  ABOVE CSD CONDITION	<ul style="list-style-type: none"> <li data-bbox="730 405 1266 483">• Uncontrolled loss of secondary coolant - IN PROGRESS   <div style="text-align: center;"><u>AND</u></div> <ul style="list-style-type: none"> <li data-bbox="730 546 1266 619">• RCS specific activity &gt; 300 <math>\mu\text{Ci/gm}</math> D.E. I-131   <div style="text-align: center;"><u>OR</u></div>           High Range Letdown Radiation Monitor on affected pathway  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">             1-CH-RM-118,              2-CH-RM-218:              &gt; 7.0 x 10<sup>6</sup> cpm           </div> </li> </ul> </li> <li data-bbox="730 903 1266 997">• Condenser Air Ejector Radiation Monitor on affected pathway   <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">             1-SV-RM-111,              2-SV-RM-211:              &gt; 1 x 10<sup>7</sup> cpm           </div> <div style="text-align: center;"><u>OR</u></div>           Vent Vent Kaman Monitor  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">             RM-VG-131 &gt; 1.1 x 10<sup>7</sup> <math>\mu\text{Ci/sec}</math> </div> <div style="text-align: center;"><u>OR</u></div>           Steam Generator Blowdown Radiation Monitor on affected pathway  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">             1-SS-RM-112 or -113,              2-SS-RM-212 or -213;              GREATER THAN 1 x 10<sup>7</sup> cpm           </div> <div style="text-align: center;"><u>OR</u></div>           Main Steam Line High Range Radiation Monitor on affected pathway  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">             RM-RI-MS-124 or -224              RM-RI-MS-125 or -225              RM-RI-MS-126 or -226              GREATER THAN 1.94 mR/hr           </div> </li> </ul>	SITE AREA EMERGENCY

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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
2. Major Secondary line break with Primary to Secondary leakage GREATER THAN 10 gpm  ABOVE CSD CONDITION	a) Uncontrolled loss of secondary coolant - IN PROGRESS  <u>AND</u> b) Condenser Air Ejector Monitor <div data-bbox="803 640 1226 766" style="border: 1px solid black; padding: 5px; margin: 5px 0;">             1-SV-RM-111,              2-SV-RM-211:              GREATER THAN <math>1 \times 10^7</math> cpm           </div> <u>OR</u> Vent Vent Kaman Monitor <div data-bbox="803 913 1193 1018" style="border: 1px solid black; padding: 5px; margin: 5px 0;">             RM-VG-131 GREATER THAN  <math>2.84 \times 10^5</math> <math>\mu</math>Ci/sec           </div> <u>OR</u> Steam Generator Blowdown Radiation Monitor on affected pathway <div data-bbox="803 1197 1226 1323" style="border: 1px solid black; padding: 5px; margin: 5px 0;">             1-SS-RM-112 or -113,              2-SS-RM-212 or -213:              GREATER THAN <math>1 \times 10^7</math> cpm           </div>	ALERT
3. Major Secondary line break  ABOVE CSD CONDITION	Uncontrolled loss of secondary coolant - IN PROGRESS	NOTIFICATION OF UNUSUAL EVENT

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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
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CAUTION: EAL A.2 is duplicated below for cross-reference/comparison to EAL H.1:

<p>Loss of Function needed for unit HSD condition</p> <p>ABOVE CSD CONDITION</p>	<p>a) Inability to attain the minimum required heat sink as indicated by loss of the following:</p> <ul style="list-style-type: none"> <li>• Main Feedwater System</li> <li style="text-align: center;"><u>AND</u></li> <li>• Auxiliary Feedwater</li> <li style="text-align: center;"><u>AND</u></li> <li>• Auxiliary Feedwater Crosstie</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>b) Loss of High Head flowpath as indicated by loss of the following:</p> <ul style="list-style-type: none"> <li>• Normal Charging System</li> <li style="text-align: center;"><u>AND</u></li> <li>• High Head SI System</li> </ul>	<p>SITE AREA EMERGENCY</p>
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<p>1. Loss of offsite and onsite AC power for more than 15 minutes</p> <p>ALL CONDITIONS</p>	<p>The following conditions exist for GREATER THAN 15 minutes:</p> <ul style="list-style-type: none"> <li>• Offsite power to unit specific Transfer Buses (Unit 1: D &amp; F; Unit 2: E &amp; F) - NOT AVAILABLE</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Station Service Buses A, B, &amp; C - DE-ENERGIZED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Emergency Buses H &amp; J - DE-ENERGIZED</li> </ul>	<p>SITE AREA EMERGENCY</p>
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p><u>CAUTION:</u> EAL A.2 is duplicated below for cross-reference/comparison to EAL H.2:</p>		
<p>Loss of Function needed for unit HSD condition ABOVE CSD CONDITION</p>	<p>a) Inability to attain the minimum required heat sink as indicated by loss of the following:</p> <ul style="list-style-type: none"> <li>• Main Feedwater System</li> <li style="text-align: center;"><u>AND</u></li> <li>• Auxiliary Feedwater</li> <li style="text-align: center;"><u>AND</u></li> <li>• Auxiliary Feedwater Crosstie</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>b) Loss of High Head flowpath as indicated by loss of the following:</p> <ul style="list-style-type: none"> <li>• Normal Charging System</li> <li style="text-align: center;"><u>AND</u></li> <li>• High Head SI System</li> </ul>	<p>SITE AREA EMERGENCY</p>
<p>2. Loss of all offsite and onsite AC power ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>• Offsite power to unit specific Transfer Buses (Unit 1: D &amp; F; Unit 2: E &amp; F) - NOT AVAILABLE</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Station Service Buses A, B, &amp; C - DE-ENERGIZED</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Emergency Buses H &amp; J - DE-ENERGIZED</li> </ul>	<p>ALERT</p>

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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>3. Loss of offsite power or onsite AC power capability</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>• Offsite power to unit specific Transfer Buses (Unit 1: D &amp; F; Unit 2: E &amp; F) - NOT AVAILABLE</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Unit Main Generator and both Emergency Diesel Generators - OUT OF SERVICE</p>	<p>NOTIFICATION OF UNUSUAL EVENT</p>
<p>4. Loss of all onsite DC power for GREATER THAN 15 minutes</p> <p>ALL CONDITIONS</p>	<p>The following conditions exist for GREATER THAN 15 minutes:</p> <ul style="list-style-type: none"> <li>• All Station Battery voltmeters - ZERO (0) VOLTS</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• No light indication available to Reserve Station Service Breakers 15D1, 15E1 and 15F1</li> </ul>	<p>SITE AREA EMERGENCY</p>
<p>5. Loss of all onsite DC power</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>• All Station Battery voltmeters - ZERO (0) VOLTS</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• No light indication available to Reserve Station Service Breakers 15D1, 15E1, and 15F1</li> </ul>	<p>ALERT</p>

NUMBER	ATTACHMENT TITLE	REVISION
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ATTACHMENT	FIRE	PAGE
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>1. Fire resulting in degradation of safety systems</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Fire which causes major degradation of a safety system function required for protection of the public</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Affected systems are caused NOT to be operable as defined by T.S. 1.0.D and T.S. 3.0.2</li> </ul>	<p>SITE AREA EMERGENCY</p>
<p>2. Fire potentially affecting station safety systems</p> <p>ABOVE CSD CONDITION</p>	<p>Fire which has potential for causing a safety system NOT to be operable as defined by T.S. 1.0.D and and T.S. 3.0.2</p>	<p>ALERT</p>
<p>3. Fire lasting GREATER THAN 10 minutes</p> <p>ALL CONDITIONS</p>	<p>Fire in the Protected Area or Switchyard which is not under control within 10 minutes after Fire Brigade - DISPATCHED</p>	<p>NOTIFICATION OF UNUSUAL EVENT</p>

<b>NUMBER</b>	<b>ATTACHMENT TITLE</b> EMERGENCY ACTION LEVEL TABLE (TAB J) SECURITY EVENT	<b>REVISION</b>
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
1. Loss of Station physical control  ALL CONDITIONS	<ul style="list-style-type: none"> <li>Shift Supervisor has been informed that the Security force has been neutralized by attack, resulting in loss of physical control of station</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Shift Supervisor has been informed of intrusion into one or more Vital Areas which are occupied or controlled by an aggressor</p>	GENERAL EMERGENCY
2. Imminent loss of physical Station control  ALL CONDITIONS	Supervisor Security Shift has notified the Shift Supervisor of imminent intrusion into a Vital Area	SITE AREA EMERGENCY
3. Ongoing Security compromise or bomb potentially affecting station safety systems  ALL CONDITIONS	<p>Supervisor Security Shift has notified the Shift Supervisor of a confirmed un-neutralized intrusion into the Protected Area</p> <p style="text-align: center;"><u>OR</u></p> <p>Shift Supervisor notified of a verified bomb discovered on or near a safety related system</p>	ALERT
4. Security threat, unauthorized attempted entry, or attempted sabotage  ALL CONDITIONS	Supervisor Security Shift has recommended that the Operations Shift Supervisor declare a Notification of Unusual Event IAW applicable Security Contingency Plan Implementing Procedures	NOTIFICATION OF UNUSUAL EVENT

<b>NUMBER</b>	<b>ATTACHMENT TITLE</b> EMERGENCY ACTION LEVEL TABLE (TAB K) HAZARD TO STATION OPERATION	<b>REVISION</b>
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
1. Aircraft damage to vital plant systems  ABOVE CSD CONDITION	Aircraft crash adversely affects vital structures by impact or fire	SITE AREA EMERGENCY
2. Aircraft crash on the facility  ALL CONDITIONS	• Aircraft crash within the Protected Area or Switchyard	ALERT
3. Aircraft crash or unusual aircraft activity  ALL CONDITIONS	• Confirmed notification of aircraft crash within the site boundary  <u>OR</u>  Unusual aircraft activity in the vicinity of the site as determined by the Shift Supervisor or Supervisor Security Shift	NOTIFICATION OF UNUSUAL EVENT
4. Severe explosive damage  ABOVE CSD CONDITION	Explosion which results in severe degradation of any systems required for safe shutdown	SITE AREA EMERGENCY
5. Explosion damage to facility  ALL CONDITIONS	Unplanned explosion resulting in damage to plant structure or equipment that affects plant operations	ALERT
6. Onsite explosion  ALL CONDITIONS	Confirmed report of unplanned explosion within Protected Area or Switchyard	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
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ATTACHMENT	HAZARD TO STATION OPERATION	PAGE
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>7. Entry of toxic or flammable gases or liquids into plant vital areas other than the Control Room</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Uncontrolled release of toxic or flammable agents into Vital Areas</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Evacuation of Vital Area other than Control Room - REQUIRED</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Loss of a safety system function required for protection of the public</p>	<p>SITE AREA EMERGENCY</p>
<p>8. Entry of toxic or flammable gases or liquids into plant facility</p> <p>ALL CONDITIONS</p>	<p>Uncontrolled release of toxic or flammable agent which causes:</p> <ul style="list-style-type: none"> <li>• Evacuation of personnel from plant areas</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Safety related equipment to be rendered inoperable</li> </ul>	<p>ALERT</p>
<p>9. Onsite or nearsite release of toxic or flammable liquids or gases</p> <p>ALL CONDITIONS</p>	<p>Unplanned release of toxic or flammable agents which may affect safety of station personnel or equipment</p>	<p>NOTIFICATION OF UNUSUAL EVENT</p>

<b>NUMBER</b>	<b>ATTACHMENT TITLE</b> EMERGENCY ACTION LEVEL TABLE (TAB K) HAZARD TO STATION OPERATION	<b>REVISION</b>
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
10. Severe missile damage to safety systems  ABOVE CSD CONDITION	Missile impact causing severe degradation of safety systems required for unit shutdown	SITE AREA EMERGENCY
11. Missile damage to safety related equipment or structures  ABOVE CSD CONDITION	Notification of missile impact causing damage to safety related equipment or structures	ALERT
12. Turbine failure with penetration  POWER	Failure of turbine/generator rotating equipment resulting in casing penetration	ALERT
13. Turbine rotating component failure with no casing penetration  POWER & STARTUP	Failure of turbine/generator rotating component resulting in unit trip	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>1. Earthquake GREATER THAN DBE levels</p> <p>ABOVE CSD CONDITION</p>	<ul style="list-style-type: none"> <li>• Earthquake which activates the Event Alarm on the Strong Motion Accelerograph</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Safety related systems are significantly degraded by earthquake</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>AP-37.00, SEISMIC EVENT, calculations indicate horizontal motion of 0.15g or GREATER</p>	<p>SITE AREA EMERGENCY</p>
<p>2. Earthquake GREATER THAN OBE levels</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>• Confirmed earthquake which activates Event Alarm on the Strong Motion Accelerograph</li> </ul> <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> <li>• Safety related equipment is rendered inoperable by earthquake</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>AP-37.00, SEISMIC EVENT, calculations indicate horizontal motion of 0.07g or GREATER</p>	<p>ALERT</p>
<p>3. Earthquake detected</p> <p>ALL CONDITIONS</p>	<p>Confirmed earthquake which activates the Event Alarm on the Strong Motion Accelerograph</p>	<p>NOTIFICATION OF UNUSUAL EVENT</p>

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<u>CONDITIONS/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
4. Tornado striking facility  ALL CONDITIONS	Tornado visually detected striking structures within the Protected Area or Switchyard	ALERT
5. Tornado within Protected Area or Switchyard  ALL CONDITIONS	Tornado visually detected within Protected Area or Switchyard	NOTIFICATION OF UNUSUAL EVENT
6. Sustained winds in excess of design levels experienced or projected  ABOVE CSD CONDITION	Sustained winds 150 mph OR GREATER experienced or projected	SITE AREA EMERGENCY
7. Hurricane winds near design basis level experienced or projected  ALL CONDITIONS	Hurricane winds 120 mph OR GREATER experienced or projected	ALERT
8. Hurricane force winds projected onsite within 12 hours  ALL CONDITIONS	<ul style="list-style-type: none"> <li>• "Inland High Wind Warning for Hurricane Force Winds" in effect for Surry County</li> </ul> <p style="text-align: center;"><u>OR</u></p> Sustained hurricane force winds (GREATER THAN 73 mph) projected onsite within 12 hours	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>9. Flood or low water level above design levels</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>Flood in the James River - GREATER THAN +27 feet MSL (station operating level)</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Water level in the James River - LESS THAN -9 feet MSL as indicated by loss of Emergency SW Pump suction</p>	<p>SITE AREA EMERGENCY</p>
<p>10. Flood or low water level near design levels</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>Flood in the James River - GREATER THAN +21 feet MSL (Emergency Service Water Pump House entrance is at +21 1/6 feet) but LESS THAN +27 feet MSL (Site Area Emergency criteria)</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Water level in Surry Power Station Intake Canal - LESS THAN +23 1/2 feet and decreasing</p>	<p>ALERT</p>
<p>11. Flood or low water level</p> <p>ALL CONDITIONS</p>	<ul style="list-style-type: none"> <li>Flood in the James River - GREATER THAN +12 feet MSL (CW pump motors and entrance to the CW pump pits are at +12 1/2 feet MSL) but LESS THAN +21 feet MSL (Alert criteria)</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Water level in Surry Power Station Intake Canal (CW-LI-101, -201) - LESS THAN +23 1/2 feet and NOT increasing</p>	<p>NOTIFICATION OF UNUSUAL EVENT</p>

<b>NUMBER</b>	<b>ATTACHMENT TITLE</b> EMERGENCY ACTION LEVEL TABLE (TAB M) MISCELLANEOUS ABNORMAL EVENTS	<b>REVISION</b>
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>1. Any major internal or external event which singly or in combination cause massive damage to station facilities or may warrant evacuation of the public</p> <p>ALL CONDITIONS</p>	<p>Shift Supervisor/ Station Emergency Manager judgement</p>	<p>GENERAL EMERGENCY</p>
<p>2. Station conditions which may warrant notification of the public near the site</p> <p>ALL CONDITIONS</p>	<p>Shift Supervisor/ Station Emergency Manager judgement</p>	<p>SITE AREA EMERGENCY</p>
<p>3. Station conditions which have the potential to degrade or are actually degrading the level of safety of the station</p> <p>ALL CONDITIONS</p>	<p>Shift Supervisor/ Station Emergency Manager judgement</p>	<p>ALERT</p>

NUMBER	ATTACHMENT TITLE	REVISION
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<u>CONDITION/APPLICABILITY</u>	<u>INDICATION</u>	<u>CLASSIFICATION</u>
<p>4. Station conditions which warrant increased awareness of state and/or local authorities</p> <p>ALL CONDITIONS</p>	<p>Shift supervisor judgment that any of the following exist:</p> <ul style="list-style-type: none"> <li>• Unit shutdown is other than a controlled shutdown</li> </ul> <p style="text-align: center;"><u>OR</u></p> <p>Unit is in an uncontrolled condition during operation</p> <p style="text-align: center;"><u>OR</u></p> <p>A condition exists which has the potential for escalation and, therefore, warrants notification</p>	<p>NOTIFICATION OF UNUSUAL EVENT</p>

NUMBER	ATTACHMENT TITLE	REVISION
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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:

IF 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, THEN consider postponing or suspending emergency response actions until threat has been resolved.

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

IF assembling personnel for accountability or activating emergency response facilities could endanger plant personnel, THEN 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.)

IF notifying augmentation could create a safety hazard for personnel coming to the station, THEN 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):

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

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

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

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