VIRGINIA POWER
SURRY POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

NUMBER	PROCEDURE TITLE	REVISION
EPIP-1.01	EMERGENCY MANAGER CONTROLLING PROCEDURE (With 1 Attachment)	16 PAGE 1 of 8

PURPOSE

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

USER

Shift Supervisor or Station Emergency Manager

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.

REVISION RECORD

REV. 10	PAGE(S):	1, 6; Att. 1, pgs. 6, 7, 8 and 9	DATE: 02-02-84
REV. 11	PAGE(S):	1 of 8 and 5 of 8	DATE: 03-01-84
REV. 12	PAGE(S):	1, 2, 3, 4, 5, 6 and 7 of 7	DATE: 05-21-85
REV. 13	PAGE(S):	Entire Procedure and Attachment 1	DATE: 05-27-86
REV. 14	PAGE(S):	Att. 1, pgs 2,10,11,22 thru 25, 27 & 28	DATE: 06-25-86
REV. 15	PAGE(S):	1,4;Att. 1, pgs 2 thru 24,26,28 thru 41	DATE: 07-24-86
REV. 16	PAGE(S):	Entire Procedure and Attachment 1	DATE: SEP 29 1986

APPROVAL RECOMMENDED	SNSOC REVIEW	DATE
John B. Costello	W L Mills	9/29/86
QC REVIEW	**STATION MANAGER APPROVAL**	**DATE**
W. N. Grady	R F Saunders	9-29-86

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
1.	INITIAL ASSESSMENT:	
	a) Perform initial assessment from EAL tables	
	b) IF EAL exceeded, initiate EPIP-1.01:	b) Return to procedure in effect
	1) BY: _____	
	DATE: _____	
	TIME: _____	
	NOTE: Continue through this and all further instructions unless otherwise directed to hold.	
2.	IDENTIFY EVENT:	
	a) Event-TRANSPORT OF CONTAMINATED INJURED PERSONNEL	a) GO TO Step 2.b
	1) Initiate EPIP-5.01, Transport of Contaminated Injured Personnel	
	2) Verify initiation of EPIP-4.20, H.P. Actions for Transport of Injured Contaminated Personnel	
	3) Continue this instruction	
	[Step 2 continued on next page]	

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
2.	IDENTIFY EVENT: [continued]	
	b) Event-Any of the following; * Radiation Release * Fuel Handling Incident * Secondary Release * S/G Tube Rupture * LOCA	b) GO TO Step 3
	1) Request Health Physics initiate EPIP-4.01, Radiological Assessment Director Controlling Procedure, and continue this instruction	

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

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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 SPDS is potentially unreliable in the event of an earthquake. Therefore, the SPDS should be evaluated for reliability of accident assessment should this situation occur.

3. ASSESSMENT AND CLASSIFICATION:

a) Use the SPDS to obtain indications of emergency conditions listed in the EAL Table, as necessary.

a) GO TO Step 3.b.

b) Use EPIP 1.01, Attachment 1, Emergency Action Level Table Index to determine event category

AND

GO TO proper EAL tab

c) Evaluate event to determine classification,

AND

GO TO Step 4 of this procedure

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
4.	NOTIFICATION AND VERIFICATION:	
	a) LEOF - NOT ACTIVATED	a) Announce transfer of command from TSC to LEOF and proceed to step 4.b.
	b) TSC - NOT ACTIVATED	b) GO TO Step 6.
	c) Notify SRO-On-Call or Superintendent of Operations	c) Notify Station Manager or Asst. Station Manager.
	d) Verify emergency classification	
	e) If required by ALERT, SITE AREA, or GENERAL emergency, request initiation of the Operations Department, Directive for augmenting staff resources during Emergency Plan activation.	
	NOTE: Return to Step 2 of this instruction as necessary to consider additional events and reclassification.	
5.	VERIFY EALS EXCEEDED:	
	a) Assure EALs - EXCEEDED	a) DO NOT declare an emergency classification, AND GO TO Step 7.
	b) IF required, assign appropriate individual as Emergency Communicator	
	[Step 5 continued on next page]	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
5.	VERIFY EALS EXCEEDED: [continued]	
	c) IF required, direct senior HP personnel on site to initiate EPIP-4.01, Radiological Assessment Director Controlling Procedure	
6.	DETERMINE EPIPS:	
	a) Event classification - NOTIFICATION OF UNUSUAL EVENT	a) GO TO Step 6.b.
	1) GO TO EPIP-1.02, Response to Notification of Unusual Event	
	b) Event classification - ALERT	b) GO TO Step 6.c.
	1) GO TO EPIP-1.03, Response to Alert	
	c) Event classification - SITE AREA EMERGENCY	c) GO TO Step 6.d.
	1) GO TO EPIP-1.04, Response to Site Area Emergency	
	d) Event classification - GENERAL EMERGENCY	
	1) GO TO EPIP-1.05, Response to General Emergency	
7.	SECURE FROM EVENT:	
	a) Notify involved station personnel that emergency condition does not exist	
	b) GO TO Step 11.	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
8.	TERMINATION NOTIFICATIONS:	
	a) Initiate termination notification to state and local governments IAW EPIP-2.01, Notification of State and Local Governments	
	b) Initiate termination notification to NRC IAW EPIP-2.02, Notification of NRC	
9.	REPORTING:	
	a) Verify required reports and notifications IAW EPIP-2.03, Reports to Offsite Agencies	
10.	RECOVERY ACTIONS:	
	a) Notify involved station personnel of emergency termination	
	b) Initiate recovery actions IAW established station procedures and capabilities	b) GO TO EPIP-6.01, Reentry/ Recovery Guidelines
	c) IF required, deactivate station emergency response facilities and personnel	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

11. TERMINATE EPIP-1.01:

a) COMPLETED BY: _____

DATE: _____

TIME: _____

b) Forward completed EPIP-1.01, forms and other applicable records to Secretary SNSOC

END

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE	16
ATTACHMENT 1	INDEX	PAGE 1 of 41

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CAUTION: Declaration of the highest emergency class for which an EAL is exceeded shall be made.

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NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB A) SAFETY, SHUTDOWN, OR ASSESSMENT SYSTEM EVENT	16
ATTACHMENT 1		PAGE 2 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Non-spurious ECCS initiation ABOVE CSD CONDITION	Non-spurious ECCS initiation as validated by Emergency Procedures	NOTIFICATION OF UNUSUAL EVENT
2.	Mode reduction required by Tech. Spec. Limiting Condition for Operation POWER & HSB	Intentional reduction in Power, Load or Temperature because the unit has entered an Action Statement or will exceed a Limiting Condition for Operation. NOTE: In the event that other plant conditions require a shutdown, NOTIFICATION OF UNUSUAL EVENT must still be declared on the basis that a shutdown would have been required by the Tech Spec.	NOTIFICATION OF UNUSUAL EVENT
3.	Loss of Function needed for unit HSD condition ABOVE CSD CONDITION	Total loss of: a) Charging/SI System OR b) Main feedwater AND Auxiliary Feedwater Systems	SITE AREA EMERGENCY

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
4.	Loss of function needed for unit CSD condition CSD	Loss of heat removal capability due to total loss of any of the following systems: a) Service Water OR b) Component Cooling OR c) Residual Heat Removal	ALERT
5.	Failure of a safety or relief valve to close after pressure reduction ALL CONDITIONS	Condition a) or b) exists: a) Pressurizer safety or PORV flow as indicated by accoustical or temperature monitoring equipment AND RCS subcooling - LESS THAN 30°F b) Excessive flow through Steam Generator Safety, PORV, or Decay Heat Release valve indicated by RCS cooldown rate > 50°F per hour	NOTIFICATION OF UNUSUAL EVENT

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
6.	Failure of the Reactor to trip (ATWT) POWER & HSB	Condition a) and b) exists with c) a) RX trip setpoint and coincidences - EXCEEDED AND b) Manual Rx trip - INITIATED AND c) Rx power indication-NOT DECREASING	SITE AREA EMERGENCY
7.	Trip following ATWT that takes the Rx Subcritical POWER & HSB	a) ATWT - Manual Reactor Trip following failure of Auto Trip Circuit AND b) Reactor power - DECREASING	ALERT
8.	Indications or alarms on process or effluent parameters required for incident assessment NOT available ABOVE CSD CONDITION	Intentional reduction in Power, Load or Temperature because the unit has entered an Action Statement or will exceed a Limiting Condition for Operation. NOTE: In the event that other plant conditions require a shutdown, NOTIFICATION OF UNUSUAL EVENT must still be declared on the basis that a shutdown would have been required by the Tech Spec.	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB A) SAFETY, SHUTDOWN, OR ASSESSMENT SYSTEM EVENT	16
ATTACHMENT 1		PAGE 5 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
9.	Failure of meteorological instrumentation required to perform offsite dose calculations. ALL CONDITIONS	Loss of all onsite and offsite meterological monitoring capability	NOTIFICATION OF UNUSUAL EVENT
10.	Loss of plant communications capability ALL CONDITIONS	Complete failure of: a) Station Gai-Tronics system AND b) Station UHF radio system	NOTIFICATION OF UNUSUAL EVENT
11.	All main board annunciator alarms and unit computer lost for more than 15 minutes during a unit transient POWER & HSB	a) Complete loss of all annunciator alarms on panels "A" to "K" AND b) Loss of unit computer for GREATER THAN 15 minutes AND c) Unit operational transient - IN PROGRESS	SITE AREA EMERGENCY
12.	All main board annunciator alarms and unit computer lost POWER & HSB	a) Simultaneous loss of all annunciator alarms on panels "A" to "K" AND b) Loss of unit computer	ALERT

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
13.	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
14.	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
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB B) REACTOR COOLANT SYSTEM EVENT	16
ATTACHMENT 1		PAGE 7 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Tech. Spec. Safety Limits for RCS exceeded POWER & HSB	Verification of any Tech. Spec. Safety limit for RCS	NOTIFICATION OF UNUSUAL EVENT
2.	RCS leak rate exceeds makeup capacity ABOVE CSD CONDITION	EP-2.00, Loss of Reactor or Secondary Coolant - IMPLEMENTED AND Pressurizer level cannot be maintained with two (2) Charging/SI Pumps in operation	SITE AREA EMERGENCY
3.	RCS leak rate exceeds 50 gpm ABOVE CSD CONDITION	Intentional reduction in Power, Load or Temperature because the unit has entered an Action Statement or will exceed a Limiting Condition for Operation. NOTE: In the event that other plant conditions require a shutdown, NOTIFICATION OF UNUSUAL EVENT must still be declared on the basis that a shutdown would have been required by the Tech Spec. a) Actions required IAW AP-16, Excessive Primary Plant Leakage AND b) RCS inventory balance indicates leakage - GREATER THAN 50 gpm	ALERT

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
4.	RCS leak rate requiring plant shutdown IAW T.S. 3.1.C POWER & HSB	Intentional reduction in Power, Load or Temperature because the unit has entered an Action Statement or will exceed a Limiting Condition for Operation. NOTE: In the event that other plant conditions require a shutdown, NOTIFICATION OF UNUSUAL EVENT must still be declared on the basis that a shutdown would have been required by the Tech Spec. a) Unidentified RCS leakage - GREATER THAN 1 gpm OR b) Indentified leakage - GREATER THAN 10 gpm OR c) Non-isolatable fault of RCS pressure boundary	NOTIFICATION OF UNUSUAL EVENT

NUMBER EPIP-1.01	ATTACHMENT TITLE	REVISION 16
ATTACHMENT 1	EMERGENCY ACTION LEVEL TABLE (TAB B) REACTOR COOLANT SYSTEM EVENT	PAGE 9 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
5.	RCP locked rotor leading to fuel damage POWER	a) Flow in one or more RC loops - LESS THAN 90% AND b) RCP trip caused by Phase Overcurrent Relay - ACTUATION AND c) High Range Letdown Radiation Monitor (RM-CH-118, -218) indication increases to - GREATER THAN 5×10^5 cpm	ALERT
6.	Gross Primary to Secondary leakage with loss of offsite power ABOVE CSD CONDITION	EP-4.00, Steam Generator Tube Rupture - IMPLEMENTED AND Loss of offsite power indicated by zero volts for 4160V Buses D, E & F	SITE AREA EMERGENCY

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
7.	Excessive Primary to Secondary leakage with loss of offsite power ABOVE CSD CONDITION	Intentional reduction in Power, Load or Temperature because the unit has entered an Action Statement or will exceed a Limiting Condition for Operation. a) Primary to Secondary leakage - GREATER THAN 1 gpm OR GREATER THAN 500 gal. per day per generator AND b) zero volts for 4160V busses D, E & F.	ALERT
8.	Gross Primary to Secondary leakage ABOVE CSD CONDITION	EP-4.00, Steam Generator Tube Rupture - IMPLEMENTED	ALERT

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
9.	Primary to Secondary leakage - GREATER THAN 1 gpm ABOVE CSD CONDITION	Intentional reduction in Power, Load or Temperature because the unit has entered an Action Statement or will exceed a Limiting Condition for Operation. NOTE: In the event that other plant conditions require a shutdown, NOTIFICATION OF UNUSUAL EVENT must still be declared on the basis that a shutdown would have been required by the Tech Spec. a) Primary to Secondary leakage - GREATER THAN 1 gpm OR GREATER THAN 500 gal. per day per generator.	NOTIFICATION OF UNUSUAL EVENT

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
10.	Loss of 2 of 3 fission product barriers with potential loss of 3rd barrier ALL CONDITIONS	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: 1) RCS specific activity - GREATER THAN OR EQUAL TO 300 µCi/gram dose equivalent I-131. 2) 5 or more core exit thermocouples reading - GREATER THAN 1200°F b) Loss of RCS integrity as indicated by any of the following: 1) PORV failed open 2) Loss of Reactor Coolant 3) Outside Containment High Range Gamma Radiation Monitor (RM-RMS-161, -261) reading - GREATER THAN $2x10^{1}$ mR/hr c) Loss of containment integrity as indicated by any of the following: 1) Containment pressure - GREATER THAN 60 psia AND NOT DECREASING 2) OP-1E, Containment Integrity Checklist.	GENERAL EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB B) REACTOR COOLANT SYSTEM EVENT	16
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	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
11.	Fuel failure with steam generator tube rupture ALL CONDITIONS	Any two of a), b) or c) exists and the third is imminent a) Fuel clad integrity failure as indicated by any of the following: 1) RCS specific activity - GREATER THAN 300 µCi/gram dose equivalent I-131 2) 5 or more core exit thermocouples indicate - GREATER THAN 1200 °F b) S/G tube rupture as indicated by both of the following: 1) RCS Low Pressure SI - INITIATED 2) EP-4.00, Steam Generator Tube Rupture, - IMPLEMENTED c) Loss of Secondary integrity as indicated by: 1) Steam discharge to atmosphere 2) Faulted steam generator as indicated by EP-2.00, Loss of Reactor or Secondary Coolant	GENERAL EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB C) FUEL FAILURE OR FUEL HANDLING ACCIDENT	16
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	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Core damage with possible loss of coolable geometry ABOVE CSD CONDITION	Condition a) exists with b) a) Fuel clad failure as indicated by any of the following: 1) RCS Specific activity - GREATER THAN 60 µCi/gram dose equivalent I-131 2) High Range Letdown Radiation Monitor (RM-CH-118, -218) indication - GREATER THAN $1x10^6$ cpm AND b) Loss of cooling as indicated by any of the following: 1) 5 confirmed core exit thermocouples - GREATER THAN 1200°F 2) Core ΔT - ZERO 3) Core ΔT - RAPIDLY INCREASING	SITE AREA EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB C) FUEL FAILURE OR FUEL HANDLING ACCIDENT	16
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	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
2.	Severe Fuel Clad Damage ABOVE CSD CONDITION	a) RCS specific activity - GREATER THAN 300 μCi/gram dose equivalent I-131 OR High Range Letdown Radiation Monitor (RM-CH-118, -218) indication increases GREATER THAN $5x10^5$ cpm within 30 minutes AND remains for at least 15 minutes	ALERT
3.	Fuel clad damage indication ABOVE CSD CONDITION	Intentional reduction in Power, Load or Temperature because the unit has entered an Action Statement or will exceed a Limiting Condition for Operation. NOTE: In the event that other plant conditions require a shutdown, NOTIFICATION OF UNUSUAL EVENT must still be declared on the basis that a shutdown would have been required by the Tech Spec. OR a) High Range Letdown Radiation Monitor indication increases - GREATER THAN 10^5 cpm within 30 minutes AND remains for at least 15 minutes.	NOTIFICATION OF UNUSUAL EVENT

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
4.	Probable large radioactivity release initiated by LOCA with ECSS failure leading to core degradation ABOVE CSD CONDITION	a) EP-2.00, Loss of Reactor or Secondary Coolant, - IMPLEMENTED, AND RCS specific activity - GREATER THAN 300 µCi/gram dose equivalent I-131 AND b) High or Low Head ECCS flow - NOT being delivered to the core	GENERAL EMERGENCY
5.	Probable large radioactivity release initiated by loss of heat sink leading to core degradation ABOVE CSD CONDITION	a) Loss of Main FW system and Condensate System AND b) Loss of Auxiliary FW System AND c) RHR System - NOT OPERABLE	GENERAL EMERGENCY
6.	Probable large radioactivity release initiated by failure of protection system to bring Rx subcritical and causing core degradation ABOVE CSD CONDITION	a) Rx nuclear power after a trip remains - GREATER THAN 5% AND b) RCS pressure - GREATER THAN 2485 psig AND NOT decreasing OR Containment pressure and temperature are RAPIDLY INCREASING	GENERAL EMERGENCY

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
7.	Probable large radioactivity release initiated by loss of AC and all feedwater ABOVE CSD CONDITION	a) ECA-1.00, Loss of All AC Power - IMPLEMENTED AND b) Turbine Driven Auxiliary Feedwater Pump NOT OPERABLE AND c) Restoration of a) or b) above not likely within 2 hours	GENERAL EMERGENCY
8.	Probable large radioactivity release initiated by LOCA with loss of ECCS and containment cooling ABOVE CSD CONDITION	a) EP-2.00, Loss of Reactor or Secondary Coolant - IMPLEMENTED AND b) High OR Low Head ECCS flow NOT being delivered to the core AND c) Containment RS sump temperature-GREATER THAN 190°F AND NOT DECREASING OR Containment Spray and Recirculation Spray Systems- NOT OPERABLE	GENERAL EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB C) FUEL FAILURE OR FUEL HANDLING ACCIDENT	16
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	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
9.	Major fuel damage accident with radioactivity release to containment or fuel buildings ALL CONDITIONS	a) Water level in Rx vessel during refueling - BELOW TOP OF CORE OR Water level in Spent Fuel Pit verified - BELOW TOP OF SPENT FUEL AND b) Verified damage to irradiated fuel resulting in readings on Ventilation Vent Gasecus Monitor - GREATER THAN $1x10^6$ cpm	SITE AREA EMERGENCY
10.	Fuel damage accident with release of radioactivity to containment or fuel buildings ALL CONDITIONS	a) Verified accident involving damage to irradiated fuel AND b) Health Physics confirms fission product release from fuel OR c) Readings on the Ventilation Vent Gaseous Monitor (RM-VG-110) - GREATER THAN $1x10^6$ cpm	ALERT
11.	Spent Fuel Storage Facility accident with release of radioactivity ALL CONDITIONS	a) Verified loss of all cask/fuel containment barriers AND b) Health Physics confirms fission product release	ALERT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB C) FUEL FAILURE OR FUEL HANDLING ACCIDENT	16
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	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
12.	Spent Fuel Storage Facility accident ALL CONDITIONS	a) Verified SSSC seal leakage OR b) Spent Fuel Storage Cask dropped or mishandled	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB D) CONTAINMENT EVENT	16
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	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Extremely high Containment radiation, pressure and temperature ABOVE CSD CONDITION	a) Outside Containment High Range Radiation Monitor (RM-RMS-161, -261) - GREATER THAN 5×10^{2} mR/hr AND b) Containment pressure - GREATER THAN 45 psia AND is NOT decreasing OR Containment temperature - GREATER THAN 280°F	GENERAL EMERGENCY
2.	High Containment radiation, pressure, and temperature ABOVE CSD CONDITION	a) Outside Containment High Range Radiation Monitor (RM-RMS-161, -261) - GREATER THAN 2×10^{1} mR/hr AND b) Containment pressure - GREATER THAN 23 psia and is NOT decreasing OR Containment temperature - GREATER THAN 200°F	SITE AREA EMERGENCY

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
3.	High Containment radiation, pressure and temperature ABOVE CSD CONDITION	a) Outside Containment High Range Radiation Monitor (RM-RMS-161, -261) - GREATER THAN 10^1 mR/hr AND b) Containment pressure - GREATER THAN 17.7 psia OR Containment temperature - GREATER THAN 150 °F	ALERT
4.	Loss of Containment integrity ABOVE CSD CONDITION	Intentional reduction in Power, Load or Temperature because the unit has entered an Action Statement or will exceed a Limiting Condition for Operations. NOTE: In the event that other plant conditions require a shutdown, NOTIFICATION OF UNUSUAL EVENT must still be declared on the basis that a shutdown would have been required by the Tech Spec. a) Loss of Containment integrity as indicated by OP-1E, Containment Integrity Checklist.	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB E) RADIOACTIVITY EVENT	16
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	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Projected or actual site boundary doses exceed 2 Rem W.B. or 12 Rem thyroid exposure ALL CONDITIONS	a) Confirmed actual or projected site boundary doses - GREATER THAN 2.0 Rem Whole Body OR 12.0 Rem Thyroid exposure as determined from EPIP-4.01.	GENERAL EMERGENCY
2.	Projected or actual site boundary doses of 0.5 Rem to 2 Rem W.B. or 1 Rem to 12 Rem thyroid exposure ALL CONDITIONS	a) Confirmed actual or projected site boundary doses - GREATER THAN 0.5 Rem Whole Body or 1.0 Rem Thyroid exposure as determined from EPIP-4.01.	SITE AREA EMERGENCY

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB E) RADIOACTIVITY EVENT	16
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	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
3.	High radiation or airborne contamination levels indicate a severe degradation in control of radioactive material ALL CONDITIONS	Valid unexpected readings on any of the following monitors have increased by a factor of 1000 a) Control Room Area Monitor (RM-RMS-157) b) Auxiliary Building Control Area Monitor (RM-RMS-154) c) Auxiliary Building Drumming Area Monitor (RM-RMS-155) d) Decontamination Building Area Monitor (RM-RMS-151) e) Fuel Pit Bridge Area Monitor (RM-RMS-153) f) New Fuel Storage Area Monitor (RM-RMS-152) g) Laboratory Area Monitor (RM-RMS-158) h) Sample Room Area Monitor (RM-RMS-156)	ALERT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB E) RADIOACTIVITY EVENT	16
ATTACHMENT 1		PAGE 24 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
4.	Effluent Release GREATER THAN 10 TIMES T.S. instantaneous allowable limits ALL CONDITIONS	a) Ventilation Vent Gaseous Monitor (RM-VG-110 or RM-VG-131) - GREATER THAN 1000% T.S. value as determined from Attachment 1, AP-5.20 OR b) Process Vent Gaseous Monitor (RM-GW-102 or RM-GW-130) - GREATER THAN 1000% T.S. value as determined from Attachment 1, AP-5.01 OR c) Air Ejector Monitor (RM-SV-111, -211) - GREATER THAN 1×10^{6} cpm AND Air ejector exhaust - NOT diverted to containment. OR d) Discharge Tunnel Monitor (RM-SW-120, -220) - GREATER THAN 1.3×10^{5} cpm OR e) Sampling and Analysis Team confirms effluent release GREATER THAN 1000% T.S. value as determined from EPIP-4.01.	ALERT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB E) RADIOACTIVITY EVENT	16
ATTACHMENT 1		PAGE 25 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
5.	Effluent release GREATER THAN T.S. allowable Limit ALL CONDITIONS	a) Ventilation Vent Gaseous Monitor (RM-VG-110 or RM-VG-131) - GREATER THAN 100% T.S. value as detemined from Attachment 1, AP-5.20 OR b) Process Vent Gaseous Monitor (RM-GW-102 or RM-GW-130) - GREATER THAN 100% T.S. value as determined from Attachment 1, AP-5.01 OR c) Air Ejector Monitor (RM-SV-111, -211) - GREATER THAN 1.99×10^5 cpm AND Air Ejector Exhaust - NOT diverted to containment. OR d) Discharge Canal Monitor (RM-SW-120, -220) - GREATER THAN 1.3×10^4 cpm e) Sampling and Analysis Team confirms effluent release GREATER THAN 100% T.S. value as determined from EPIP-4.01.	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB F) CONTAMINATED PERSONNEL	16
ATTACHMENT 1		PAGE 26 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Transportation of contaminated injured individual to off-site facility ALL CONDITIONS	Contaminated injured individual enroute to off-site facility for treatment	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB G) LOSS OF SECONDARY COOLANT	16
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	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Major Secondary line break with Primary to Secondary leakage GREATER THAN 50 gpm and fuel damage indicated ABOVE CSD CONDITION	a) Faulted steam generator indicated by EP-2.x Loss of Reactor or Secondary Coolant AND b) RCS specific activity - GREATER THAN 300 µCi/gram OR Letdown High Range Radiation Monitor (RM-CH-118$_5$, -218) - GREATER THAN 10^5 cpm AND c) Condenser Air Ejector Radiation Monitor (RM-SV-111, -211) - GREATER THAN 10^6 cpm OR Steam Generator Blowdown Radiation Monitor (RM-SS-112, -113, -212, -213) - GREATER THAN 10^6 cpm OR MS Line High Range Radiation Monitor (RM-RI-MS-124, -125, -126, -224, -225, -226) - GREATER THAN 2.55×10^{-1} mR/hr	SITE AREA EMERGENCY

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
2.	Major Secondary line break with Primary to Secondary leakage greater than 10 GPM ABOVE CSD CONDITION	a) Faulted steam generator as indicated by EP-2.00, Loss of Reactor or Secondary Coolant AND b) Condenser Air Ejector Radiation Monitor (RM-SV-111, -211) - GREATER THAN 1×10^6 cpm OR Steam Generator Blowdown Radiation Monitor (RM-SS-112, -113, -212, -213) - GREATER THAN 10^5 cpm	ALERT
3.	Major Secondary line break ABOVE CSD CONDITION	Faulted steam generator as indicated by EP-2.00, Loss of Reactor or Secondary Coolant	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB H) ELECTRICAL FAILURE	16
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	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Loss of off-site power or on-site AC power capability ALL CONDITIONS	a) Unit Main Generator AND both Emergency Diesel Generators out of service OR b) Loss of all 34.5KV Reserve Station Service Buses	NOTIFICATION OF UNUSUAL EVENT
2.	Loss of off-site and on-site AC power for more than 15 minutes ALL CONDITIONS	The following conditions exist for a period - GREATER THAN 15 minutes a) Ammeters for 4160V Reserve Station Service Buses D,E, & F all - ZERO AMPS AND b) Ammeters for 4160V Station Service Buses A,B & C all ZERO AMPS AND c) Ammeters for 4160V Emergency Buses H & J both - ZERO AMPS	SITE AREA EMERGENCY

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
3.	Loss of all off-site and on-site AC power ALL CONDITIONS	a) Ammeters for 4160V Reserve Station Service Buses D, E,& F all - ZERO AMPS AND b) Ammeters for 4160V Station Service Buses A, B,& C all - ZERO AMPS AND c) Ammeters for 4160V Emergency Buses H and J both - ZERO AMPS	ALERT
4.	Loss of all on-site DC power for-GREATER THAN 15 minutes ALL CONDITIONS	The following conditions exist for a period - GREATER THAN 15 minutes a) All Station Battery voltmeters - ZERO VOLTS AND b) No light indication available to Reserve Station Service Breakers 15D1, 15E1 and 15F1	SITE AREA EMERGENCY
5.	Loss of all on-site DC power ALL CONDITIONS	a) All Station Battery voltmeters - ZERO VOLTS AND b) No light indication available to Reserve Station Service Breakers 15D1, 15E1 and 15F1	ALERT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB 1) FIRE	16
ATTACHMENT 1		PAGE 31 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Fire resulting in degradation of safety systems ABOVE CSD CONDITION	a) Fire within the Station which causes major degradation of a safety system function required for protection of the public AND b) Affected systems are caused NOT to be operable as defined by T.S.1.0.D and 3.02	SITE AREA EMERGENCY
2.	Fire potentially affecting station safety systems ABOVE CSD CONDITION	Fire within the Station which has potential for causing a safety system NOT to be operable as defined by T.S.1.0.D and 3.0.2	ALERT
3.	Fire lasting-GREATER THAN 10 minutes ALL CONDITIONS	Fire within the Station which is not under control within 10 minutes after fire fighting efforts begin	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB J) SECURITY EVENT	16
ATTACHMENT 1		PAGE 32 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Loss of Station physical control ALL CONDITIONS	a) Shift Supervisor has been informed that the security force has been neutralized by attack, resulting in loss of physical control of station OR b) Shift Supervisor has been informed of intrusion into one or more Vital Areas which are occupied or controlled by an aggressor	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 ALL CONDITIONS	Supervisor Security Shift has notified the Shift Supervisor of a confirmed unneutralized intrusion into the Protected Area	ALERT
4.	Bomb potentially affecting station safety systems ALL CONDITIONS	Shift Supervisor notification of a verified bomb discovered on OR near a safety related system	ALERT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB J) SECURITY EVENT	16
ATTACHMENT 1		PAGE 33 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
5.	Security threat, unauthorized attempted entry, or attempted sabotage ALL CONDITIONS	Supervisor Security Shift has initiated SPIP-29, Response to Security Contingency Events	NOTIFICATION OF UNUSUAL EVENT
6.	Bomb threat or discovery ALL CONDITIONS	a) Shift Supervisor notification of a bonafide bomb threat OR b) Shift Supervisor notification of bomb discovery within the Protected Area	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB K) HAZARD TO STATION OPERATION	16
ATTACHMENT 1		PAGE 34 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
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	a) Aircraft crash within the Protected Area OR b) Aircraft crash in Station Switchyard	ALERT
3.	Aircraft crash or unusual aircraft activity ALL CONDITIONS	a) Confirmed notification of aircraft crash within the site boundary OR b) 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

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
5.	Explosion damage to facility ALL CONDITIONS	Unplanned explosion resulting in damage to plant structure or equipment	ALERT
6.	Onsite explosion ALL CONDITIONS	Confirmed report of unplanned explosion onsite	NOTIFICATION OF UNUSUAL EVENT
7.	Entry of toxic or flammable gases into plant vital areas ABOVE CSD CONDITION	a) Uncontrolled release of toxic OR flammable agents into Vital Areas AND b) Evacuation of Vital Area required OR Loss of a safety system function required for protection of the public	SITE AREA EMERGENCY
8.	Entry of toxic or flammable gases or liquids into plant facility ALL CONDITIONS	Uncontrolled release of toxic OR flammable agent which cause: a) Evacuation of personnel from plant areas AND b) Safety related equipment to be rendered inoperable	ALERT

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
9.	On or nearsite release of toxic or flammable liquids or gases ALL CONDITIONS	Unplanned release of toxic OR flammable agents which may affect safety of station personnel OR equipment	NOTIFICATION OF UNUSUAL EVENT
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 without casing penetration POWER AND STARTUP	Failure of Turbine/Generator rotating component resulting in unit trip	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB L) NATURAL EVENTS	16
ATTACHMENT 1		PAGE 37 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Earthquake greater than DBE levels ABOVE CSD CONDITION	a) Earthquake which activates the Event Alarm on the Strong Motion Accelerograph AND b) AP-37, Seismic Event, calculations indicate horizontal motion of 0.15g OR GREATER OR Safety related systems are significantly degraded by earthquake	SITE AREA EMERGENCY
2.	Earthquake greater than OBE levels ALL CONDITIONS	a) Confirmed earthquake which activates Event Alarm on the Strong Motion Accelerograph AND b) AP-37, Seismic Event, calculations indicate horizontal motion of 0.07g OR GREATER OR Safety related equipment is rendered inoperable by earthquake	ALERT
3.	Earthquake detected ALL CONDITIONS	Confirmed earthquake which activates the Event Alarm on the Strong Motion Accelerograph	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB L) NATURAL EVENTS	16
ATTACHMENT 1		PAGE 38 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
4.	Tornado striking facility ALL CONDITIONS	Tornado visually detected striking within the Protected Area or Switchyard	ALERT
5.	Tornado onsite ALL CONDITIONS	Tornado visually detected onsite	NOTIFICATION OF UNUSUAL EVENT
6.	Severe winds ABOVE CSD CONDITION	Sustained severe winds in excess of 100 mph caused by Hurricane, Tornado or other severe weather condition	SITE AREA EMERGENCY
7.	Extreme winds ABOVE CSD CONDITION	Sustained extreme winds between 80 and 100 mph Hurricane or other severe weather conditions	ALERT
8.	High winds ALL CONDITIONS	Sustained wind speed onsite measured or projected to be between 73 and 80 mph OR System Operator notification of hurricane watch for Surry County	NOTIFICATION OF UNUSUAL EVENT

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
9.	Flood or low water level above design levels ALL CONDITIONS	Flood in the James River - GREATER THAN +27 feet MSL OR Water level in the James River - LESS THAN -9 feet MSL as indicated by loss of Emergency SW Pump suction	SITE AREA EMERGENCY
10.	Flood or low water level near design levels ALL CONDITIONS	Flood in the James River - GREATER THAN +21 but LESS THAN +27 feet MSL OR Water level in the Surry Power Station Intake Canal - LESS THAN 18 feet AND DECREASING	ALERT
11.	Flood or low water level ALL CONDITIONS	Flood in the James River - GREATER THAN +12 but LESS THAN +21 feet MSL OR Water level in the Surry Power Station Intake Canal - LESS THAN 18 feet AND NOT INCREASING	NOTIFICATION OF UNUSUAL EVENT

NUMBER	ATTACHMENT TITLE	REVISION
EPIP-1.01	EMERGENCY ACTION LEVEL TABLE (TAB M) MISCELLANEOUS ABNORMAL EVENTS	16
ATTACHMENT 1		PAGE 40 of 41

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
1.	Any major internal or external events which singlely or in combination cause massive damage to station facilities ALL CONDITIONS	Shift Supervisor/Station Emergency Manager judgement	GENERAL EMERGENCY
2.	Station conditions which warrant activation of emergency facilities monitoring teams and precautionary Protection Action Recommendations ALL CONDITIONS	Shift Supervisor/Station Emergency Manager judgement	SITE AREA EMERGENCY
3.	Station conditions which warrant precautionary Protection Action Recommendations ALL CONDITIONS	Shift Supervisor/Station Emergency Manager judgement	ALERT

	CONDITION/APPLICABILITY	INDICATION	CLASSIFICATION
4.	Station conditions which warrant increased awareness of state and/ or local authorities ALL CONDITIONS	Shift supervisor judgement that any of the following exist: a) Intentional reduction in Power, Load or Temperature because the unit has entered an Action Statement or will exceed a Limiting Condition for Operation. NOTE: In the event that other plant conditions require a shutdown, NOTIFICATION OF UNUSUAL EVENT must still be declared on the basis that a shutdown would have been required by the Tech Spec. OR b) Unit shutdown is other than a controlled shutdown OR c) Unit is in an uncontrolled condition during operation OR d) A condition exists that has the potential for escalation and, therefore, warrants notification.	NOTIFICATION OF UNUSUAL EVENT