# Arkansas Nuclear One - Administrative Services Document Control Thursday, May 02, 2002

## **Document Update Notification**

COPYHOLDER NO:	103
TO:	NRC - WASHINGTON
ADDRESS:	OS-DOC CNTRL DESK MAIL STOP OP1- 17 WASHINGTON DC 20555-DC
DOCUMENT NO:	OP-1903.010
TITLE:	EMERGENCY ACTION LEVEL CLASSIFICATION
REVISION NO:	036-05-0
CHANGE NO:	PC-05
SUBJECT:	PERMANENT CHANGE (PC)
This transmittal must be	ked, please sign, date, and return within 5 days.  ANO-1 Docket 50-313  ANO-2 Docket 50-368
returned! SIG	Signature Date NATURE CONFIRMS UPDATE HAS BEEN MADE

**RETURN TO:** 

ATTN: DOCUMENT CONTROL ARKANSAS NUCLEAR ONE 1448 SR 333 RUSSELLVILLE, AR 72801



## ENTERGY OPERATIONS INCORPORATED ARKANSAS NUCLEAR ONE

TITLE: EMERGENCY CLASSIFICA		DOCUMENT NO. 1903.010	CHANGE NO. 036-05-0		
		WORK PLAN EXP. DATE N/A	TC EXP. DATE N/A		
SET # 103		SAFETY-RELATED	IPTE □YES ⊠NO		
		TEMP ALT ☐YES ☑NO			
When you see the	ese <u>TRAPS</u>	Get these <u>TOOLS</u>			
	Time Pressure	Effective Co	mmunication		
	Distraction/Interruption	Questioning	Attitude		
	Multiple Tasks	Placekeepin	g		
	Overconfidence	Self Check			
	Vague or Interpretive Guidance	Peer Check			
	First Shift/Last Shift	Knowledge			
	Peer Pressure	Procedures			
	Change/Off Normal	Job Briefing			
	Physical Environment	Coaching			
	Mental Stress (Home or Work)	Turnover			
VERIFIED BY	DATE		TIME		
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FORM TITLE:	ERIFICATION COVER SHEET	FORM NO 1000.00			

## ENTERGY OPERATIONS INCORPORATED ARKANSAS NUCLEAR ONE

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TITLE:EMERGENCY ACTION LEVEL CLASSIFICATION		DOCUMEN 1903.0		CHANGE NO. 036-05-0
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TYPE OF CHANGE:	□ тс		DELETION	
☐ NEW		. DATE:		
DOES THIS DOCUMENT:				
4 Cureredo or replace another procedure?			☐ YES 🗵	NO
(If YES, complete 1000.006B for deleted procedure.) (UCANU			☐ YES 🔯	] NO
(If YES, coordinate with Licensing before implementing.) (OCI	NA128509)(0CAN chment 15)	049803)	⊠ YES [	] NO
3. Require a 50.59 review per LI-101? (See also 1000.006, Attac (If 50.59 evaluation, OSRC review required.)	omnone to,		☐ YES 🗵	3 NO
4. Cause the MTCL to be untrue? (See Step 8.5 for details.) (If YES, complete 1000.009A) (1CAN108904, 0CAN099001, 0	0CNA128509, OC	:AN049803)		
5. Create an Intent Change? (If YES, Standard Approval Process required.)				3 NO
6 Implement or change IPTE requirements?			☐ YES [2	₫ NO
(If YES, complete 1000.143A. OSRC review required.) 7. Implement or change a Temporary Alteration?			☐ YES 💆	₫ NO
(If YES, then OSRC review required.)  Was the Master Electronic File used as the source document?			⊠ YES [	] NO
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PROCEDURE/WORK PLAN APPROV	VAL REQUES	)	1000.000	001-00-0

# ENTERGY OPERATIONS INCORPORATED ARKANSAS NUCLEAR ONE

TITLE:EMERGENCY CLASSIFICAT	ACTION LEVEL	DOCUMENT NO. 1903.010	CHANGE N	NO. 6-05-0
⊠PROCEDURE	□WORK PLAN, EXP. DATE		PAGE <u>1</u>	OF_1_
ELECTRONIC DOCUI	MENT			
TYPE OF CHANGE:  NEW REVISION	⊠ PC □ EZ	TC EXP. DATE:	DELETION	
AFFECTED SECTION: (Include step # if applicable)	DESCRIPTION OF CHANGE: (For each reason for the change.)	ch change made, include	e sufficient detail t	o describe
Attachment 3 EAL 2.1 page 26	Deleted "> Tech Specs Limits requiring	a plant S/D or C/D".		
Attachment 4 EAL 2.1 page 81	Deleted "> Tech Specs Limits requiring	g a plant S/D or C/D".		
	Reason: The proposed change involv Unit 1 and Unit 2 and replace it with th NUMARC 99-01, REV 4). The ANO E relation to the NUMARC EALs. There NUMARC EAL.	e approved NUMARC e	stive for the initiati	ng condition in
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#### PROCEDURE/WORK PLAN TITLE:

## **EMERGENCY ACTION LEVEL CLASSIFICATION**

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#### NOTE

This procedure contains Improved Technical Specifications (ITS) content in the following format:

[ITS Example Content ITS]

This content is not valid until after the implementation of Improved Technical Specifications.

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### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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#### 1.0 PURPOSE

This procedure establishes criteria for detection and classification of plant events into the four standard Emergency Classes.

#### 2.0 SCOPE

This procedure is applicable to Units 1 and 2 in all modes; it does not include specific plant casualty procedures or systems operations requirements, but rather provides administrative processes only.

#### 3.0 REFERENCES

3.1 REFERENCES USEL	IN PROCEDURE	PREPARATION:
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3.1.1 ANO Emergency Pl	Lan
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- 3.1.2 ANO'S EAL Bases Document
- 3.1.3 NUREG-0654/FEMA-REP-1, Rev. 1
- 3.1.4 10 CFR 50
- 3.1.5 NRC Branch Position on Acceptable Deviations to Appendix 1 to NUREG-0654/FEMA-REP-1, July 11, 1994

## 3.2 REFERENCES USED IN CONJUNCTION WITH THIS PROCEDURE:

- 3.2.1 1000.104, "Condition Reporting and Corrective Actions"
- 3.2.2 1903.011, "Emergency Response/Notifications"
- 3.2.3 1903.064, "Emergency Response Facility Control Room"
- 3.2.4 1903.065, "Emergency Response Facility Technical Support Center (TSC)"
- 3.2.5 1903.066, "Emergency Response Facility Operational Support Center (OSC)"
- 3.2.6 1903.067, "Emergency Response Facility Emergency Operations Facility (EOF)"
- 3.2.7 1203.025, "Natural Emergencies"
- 3.2.8 2203.008, "Natural Emergencies"
- 3.2.9 1202.XXX, "Emergency Operating Procedures"
- 3.2.10 2202.XXX, "Emergency Operating Procedures"
- 3.2.11 1404.016, "Post Earthquake Data acquisition and Measurement"
- 3.2.12 1904.002, "Offsite Dose Projections-RDACS Method"

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1903.010	1	MERGENCY ACTION LEVEL CLASSIFICATION	CHANGE:	036-05-0
	3.2.13	NRC Position Paper on "Timeliness of Clas Emergency Conditions" dated August 17, 19	sificatio 95	n of
	3.2.14	1607.001, "Reactor Coolant System Samplin	g"	
	3.2.15	2607.001, "Unit 2 Reactor Coolant System	Sampling"	
3.3	RELATED .	ano procedures:		
	3.3.1	1043.042, "Response to Security Contingen	cies"	
	3.3.2	1502.004, Attachment H		
	3.3.3	1903.023, "Personnel Emergency"		
	3.3.4	ANO Security Plan/Security Procedures		
	3.3.5	1015.007, "Fire Brigade Organization and	Responsi	oilities"
	3.3.6	1903.042, "Duties of the Emergency Medica	al Team"	
	3.3.7	1903.043, "Duties of the Emergency Radiat	ion Team	п
	3.3.8	1302.022, "Core Damage Assessment"		
3.4	REGULATO	DRY CORRESPONDENCE CONTAINING NRC COMMITMENT NTED IN THIS PROCEDURE ARE DENOTED IN LEFT H	'S WHICH A	ARE IN:
	3.4.1	0CAN068320 (P-10766) - Section 4.3		
	3.4.2	OCNA08005 (P-16725) - Allow for 1% fuel be determined by radiation dose readings and 4.16.1.B.2, Unit 1 EALs 1.2 and 1.3,	. Step 4.	16.1.A.2

#### 4.0 DEFINITIONS

- 4.1 Core Damage A failure of fuel cladding integrity to the extent that any of the following happen:
  - 4.1.1 Fission product activity in the coolant exceeds the limits in the technical specifications.
  - 4.1.2 Fuel is no longer in the original geometry.

and 1.3, Attachments 7 and 8.

- 4.1.3 A major portion of the core cannot be operated for its design cycle length.
- 4.2 Courtesy Call A notification to the Arkansas Department of Health and follow-up notification to the NRC for conditions/events other than those constituting an Emergency Class as listed in procedure 1903.11, "Emergency Response/Notifications", Section 6.3.

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4.3 Emergency Action Level - Alarms, instrument readings or visual sightings that have exceeded pre-determined limits which would categorize the situation into an initiating condition of one of the following four Emergency Classes:

Notification of Unusual Event Alert Site Area Emergency General Emergency

- Notification of Unusual Event Unusual events are in progress or have occurred which indicate a potential degradation of the level of safety of the plant. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs.
- Alert Events are in progress or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels.
- Site Area Emergency Events are in progress or have occurred which involve actual or likely major failures of plant functions needed for protection of the public. Any releases are not expected to exceed EPA Protective Action Guideline exposure levels except near the site boundary.
- General Emergency Events are in progress or have occurred which involve actual or imminent substantial core degradation or melting with the potential for loss of containment integrity. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels off site for more than the immediate site area.
- Emergency Direction and Control Overall direction of facility response which must include the non-delegable responsibilities for the decision to notify and to recommend protective actions to Arkansas Department of Health personnel and other authorities responsible for offsite emergency measures. With activation of the EOF, the EOF Director typically assumes the responsibility for Emergency Direction and Control. The management of on-site facility activities to mitigate accident consequences remains with the TSC Director in the Technical Support Center. The Shift Manager retains responsibility for the Control Room and plant systems operation.
  - Emergency Operations Facility (EOF) A nearsite emergency response facility located approximately 0.65 miles northeast of the reactor buildings (the ANO Training Center).
  - Emergency Planning Zone (EPZ) The EPZ considered by this procedure is the inhalation zone and is that area within approximately a 10 mile radius of ANO.

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4.7	composed of staff, the Composition to	the Initi SC staff, o provide	ganization (ERO) - The organiza al Response Staff (IRS), the EC and the Emergency Team members manpower and other resources r rm response to an emergency sit	or stair, s. It has necessary	the 150
4.8	dose to refe	erence man radioactiv r avoid th	Guideline (PAG) Exposure Level, or other defined individual, e material at which a specific at dose is recommended (i.e.,	protecti	ve action
4.9	0 65	of the res	area surrounding ANO within a actor buildings, but outside the e extent necessary by ANO during	= brocece	ca area
4.10	FISSION PRO	DUCT BARRI	ER FAILURE		
(	c] ga ft	ladding be ases that uel rod cl	ng Failure - Condition where the comes defective and cannot continuous accumulated between the function (commonly referred to as 1 - Greater than 1% fuel cladd cated by ANY of the following:  Nuclear Chemistry analysis of 400 uCi/gm specific I-131.	tain the liel pelle s the gap ing failu	t and the ). re as
{0CNA08005}		2.	Radiation levels that indicate failure per Unit 1 Fuel Claddi Radiation Plot (Att 7).	>1% fue ng Failur	l cladding e
		3.	Failed Fuel Iodine process morindicates > 8.2 x 10 <sup>5</sup> CPM.	nitor (RE	1237S)
		4.	Containment Radiation Levels of Area Emergency from Containment Plot (Attachment 5).	correspond nt Radiat:	l to a Site ion EAL
		5.	Engineering assessment of core >1% fuel cladding failure.	e damage :	indicates
		B. <u>Unit</u> indi	$\frac{2}{\text{cated}}$ - Greater than 1% fuel clade cated by $\underline{\text{ANY}}$ of the following:	lding fail	Lure as
		1.	Nuclear Chemistry analysis of 378 uCi/gm specific I-131.	RCS samp	le yields >
{0CNA08005}		2.	Radiation levels that indicate failure per Unit 2 Fuel Cladd	e >1% fue ing Failu	l cladding re

failure per Unit 2 Fuel Cladding Failure

Containment Radiation Levels correspond to a Site Area Emergency from Containment Radiation EAL Plot (Attachment 6).

Radiation Plot (Att 8).]

(4.10.1 cont.)

4. Engineering assessment of core damage indicates> 1% fuel cladding failure.

#### 4.10.2 RCS Boundary Failure

- A.  $\frac{\text{Unit 1}}{\text{capacity}}$  RCS leakage greater than normal makeup
- B.  $\frac{\text{Unit 2}}{\text{a single Charging Pump}}$  RCS leakage greater than 44 gpm (capacity of

#### 4.10.3 Containment Integrity Failure

- A. Abnormally high Containment High Range Radiation Monitor readings (RE-8060 or 8061 for Unit 1; 2RY-8925-1 or 2RY-8925-2 for Unit 2) and indications of radiological effluents outside of the Reactor Building that are not attributable to any other source.
- B. In the judgement of the SM/TSC Director/EOF Director, a breach of the Reactor Building exists. The variety of possible Reactor Building integrity failure scenarios precludes the development of an all inclusive list. In the absence of the conditions described in 4.10.3.A above, the SM/TSC Director/EOF Director must judge the potential for an offsite release to occur based on a current status of Reactor Building isolation systems and structural integrity.

## 4.10.4 Inability to Monitor a Fission Product Barrier

A. Following the failure of two fission product barriers, the inability to monitor the third barrier is to be regarded as equivalent to a failure of that barrier.

## 4.11 FISSION PRODUCT BARRIER CHALLENGE

- 4.11.1 Challenge to Fuel Cladding: any event or condition which in the judgement of the SM/TSC Director/EOF Director presents the potential for greater than 1% fuel cladding failure; for example:
  - A. RCS temperature and pressure indicates superheated conditions.
  - B. Indications of the core being uncovered.
  - C. Exceeding safety limits (e.g. DNBR or Local Power Distribution)
- 4.11.2 Challenge to RCS Boundary: any event or condition which, in the judgement of the SM/TSC Director/EOF Director could result in RCS leakage in excess of normal makeup capacity (i.e., 50 gpm for Unit 1 or 44 gpm for Unit 2); for example:
  - A. RCS pressure > 2450 psig and not decreasing.
  - B. Two out of three seal stages failed on any RCP (U-1).

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- (4.11.2 cont.)
- C. Three out of four seal stages failed on any RCP (U-2).
- D. Failure of any component resulting in RCS leakage greater than Tech. Spec. limits and approaching normal make up capacity; (50 gpm) for Unit 1 or (44 gpm) for Unit 2.
- 4.11.3 Challenge to Containment Building Integrity: any event or condition which in the judgement of the SM/TSC Director/EOF Director significantly increases the potential for failure of containment integrity; for example:
  - A. Containment pressure > Reactor Building spray actuation setpoint and increasing with no available RB spray or cooling.
  - B. Hydrogen concentrations in containment > 3.5%.
  - C. Occurrence of system or component failure which degrades the capability to maintain containment integrity as defined by Technical Specifications.
- FUEL OVERHEAT Condition in which fission products trapped within the fuel pellet are released at an accelerated rate due to increasing temperature. Fuel overheating temperatures typically range from 1600 °F to 3600 °F cladding temperature.
- 4.13 Initial Response Staff (IRS) The emergency organization composed of plant personnel which must be able to respond to the site in accordance with Table B-1 of the Emergency Plan.
- 4.14 Normal Makeup (MU) Capacity Normal MU capacity is defined as the maximum expected water addition to the RCS through the MU line with the letdown line isolated. This amount will vary with RC pressure.
- 4.15 Offsite Those areas not covered by Section 4.13.
- 4.16 Onsite The area within the Exclusion Area Boundary.
- 4.17 Operational Support Center (OSC) Emergency response center within the ANO Maintenance Facility where support is coordinated for the following functions:

Onsite Radiological Monitoring Maintenance Nuclear Chemistry Emergency Medical Support Fire Fighting Support

The OSC also serves as the briefing area for repair and damage control teams and is located in the Maintenance Facility.

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#### 4.18 PLANT TRANSIENT

- 4.18.1 Any unplanned reactor trip from criticality.
- 4.18.2 A planned reactor trip in which the expected post-trip response did not occur.
- 4.18.3 Any event resulting in an automatic ESAS (Unit 1) or ESF (Unit 2) actuation or any event requiring manual initiation of these systems where automatic initiation would likely have occurred.
- 4.18.4 Any turbine-generator power change in excess of 100 MWe in less than one (1) minute other than a momentary spike due to a grid disturbance or a manually initiated runback.
- 4.18.5 Any unplanned main turbine or main feedwater pump turbine trip which results in a significant plant transient (change in excess of 100 MWe).
- 4.19 <u>Protected Area</u>: The area encompassed by physical barriers (i.e., the security fence) and to which access is controlled.
- 4.20 Technical Support Center (TSC) The location within the ANO Administration Building equipped with instrumentation and communication systems and facilities useful in monitoring the course of an accident; this center is located in the 3rd Floor of the ANO Administration Building.

### 5.0 RESPONSIBILITY AND AUTHORITY

- 5.1 The responsibility for event classification is assigned to the individual with responsibility for Emergency Direction and Control (i.e., The Shift Manager, TSC Director, or EOF Director).
- The Control Room Supervisor (CRS) will assume Emergency Direction and Control responsibilities whenever the SM is not available to assume this responsibility (e.g. the SM becomes incapacitated and a replacement has not yet arrived).
- Any individual who observes an initiating condition which warrants an emergency class declaration, as described in Attachments 3 and 4, shall immediately notify the person with current responsibility for Emergency Direction and Control (i.e. SM/TSC Director/EOF Director).

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#### 6.0 INSTRUCTIONS

#### NOTE

On emergencies that effect both units such as earthquakes, tornado's, etc., the unit with the highest Emergency Action Level Classification should be the one that is declaring the emergency.

### 6.1 CLASSIFYING EMERGENCIES:

#### NOTE

NRC guidelines recommend that once indications are available to ANO staff that an EAL has been exceeded, a 15 minute goal is a reasonable period of time for assessing and classifying an emergency.

- 6.1.1 When indications of abnormal occurrences are received by the Control Room staff, the SM/TSC Director/EOF Director shall:
  - A. Verify the indications of the off-normal event or reported sighting.
  - B. Ensure that the immediate actions (e.g., use of Emergency and Abnormal Operating Procedures) are taken for the safe and proper operation of the plant.
  - C. Compare the abnormal conditions with those listed in the "Index Of Emergency Action Levels" (Blue Tabs - Unit 1; Green Tabs - Unit 2).
  - D. Turn to the appropriate tab which corresponds to the condition picked from the Index Of EALs.

#### NOTE

Unit 1 EALs - Blue Tabs Unit 2 EALs - Green Tabs

- E. Assess the information available from valid indications or reports, then:
  - Compare information to criteria given for EAL,
  - Review any Related EALs to determine if the abnormal conditions meet those criteria, and
  - 3. Declare the emergency classification that is indicated. If it appears that different classifications could be made for the current plant conditions, the highest classification indicated should be the one that is declared.

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#### NOTE

The emergency action levels described in this procedure are not intended to be used during maintenance and/or testing situations where abnormal temperature, pressure, equipment status, etc., is expected. In addition, each EAL contains information on the mode(s) of operation during which it is applicable.

- F. If the indications or reports do not match the given EALs, then refer to the Miscellaneous Tab and using appropriate judgement, determine if the plant status warrants an emergency declaration.
- Due to the speed in which events sometimes progress and the duty of the plant operators to take immediate corrective actions, an event may occur which was classifiable as an emergency, however, prior to offsite notifications the corrective actions taken may have removed the conditions that would have resulted in an emergency declaration. In this situation, it is not necessary to make an actual declaration of the emergency class, but an ENS notification to the NRC within one hour of the discovery of the undeclared event will provide an acceptable alternative. A courtesy call shall be made to ADH. Subsequent activation of response organization should be based upon the current plant conditions.
- 6.1.3 If no emergency declaration is required, then refer to procedure 1903.011, "Emergency Response/Notifications", Section 6.3 to determine if the event warrants a "For Information Only" notification to Entergy Management, NRC Resident Inspector and/or the Arkansas Department of Health.
- 6.1.4 Upon declaration of an emergency classification implement procedure, 1903.011, "Emergency Response Notifications", to ensure that immediate notification requirements are met and the proper Emergency Plan response is taken.
- 6.1.5 Upgrade the emergency classification if plant conditions degrade per steps 6.1.1.A through F.
- 6.1.6 Downgrade the emergency classification when plant conditions have improved and step 6.2 is applicable.

#### 6.2 DOWNGRADING THE EMERGENCY CLASSIFICATION:

- 6.2.1 Assess the current plant conditions, then perform the following:
  - A. Compare the abnormal conditions with those listed in the "Index Of Emergency Action Levels"
    (Blue Tabs Unit 1; Green Tabs Unit 2).
  - B. Turn to the appropriate tab which corresponds to the condition picked from the Index Of EALs.

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#### NOTE

Unit 1 EALs - Blue Tabs Unit 2 EALs - Green Tabs

- Assess the information available from valid indications or reports, compare it to the given EALs. Obtain concurrence from NRC and State officials that downgrading is appropriate (if their emergency response organizations have been activated as a result of this event). Downgrade to the emergency classification that is indicated.
- D. If the indications or reports do not match the given EALs, then refer to the Miscellaneous Tab and using appropriate judgement, determine if the plant status warrants downgrading the emergency classification.
- 6.2.2 Perform notifications to downgrade the emergency classification if appropriate per procedure 1903.011, "Emergency Response/Notifications".
- 6.2.3 If no emergency classification appears necessary, then terminate the emergency per step 6.3.
- 6.2.4 If the emergency classification is still required, repeat steps 6.2.1 through 6.2.3 whenever plant conditions again appear to have improved.

#### 6.3 TERMINATING THE EMERGENCY:

- 6.3.1 Compare the existing plant conditions with the following:
  - A. Plant conditions no longer meet the emergency action level criteria AND it appears unlikely that current conditions will degrade further requiring reinstitution of an emergency classification.
  - B. Non-routine releases of radioactive material to the environment are under control or terminated.
  - C. Any fire, flood, earthquake, or similar emergency condition is controlled or has ceased.
  - D. All specified corrective actions have occurred <u>OR</u> the plant has been placed in the appropriate operational mode.
  - E. All required notifications have been completed.
  - F. NRC and State officials are in agreement that termination or transition to the recovery phase is appropriate (if their emergency response organizations have been activated as a result of this event).
- 6.3.2 If the conditions of 6.3.1 A-F are met, terminate the emergency or proceed to the recovery phase.

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## 7.0 ATTACHMENTS AND FORMS

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7.1	Attachment 1 - Unit 1 Index of EALs
7.2	Attachment 2 - Unit 2 Index of EALs
7.3	Attachment 3 - Unit 1 Emergency Action Levels
7.4	Attachment 4 - Unit 2 Emergency Action Levels
7.5	Attachment 5 - Unit 1 Containment Radiation EAL Plot
7.6	Attachment 6 - Unit 2 Containment Radiation EAL Plot
7 7	Attachment 7 - Unit 1 Fuel Cladding Failure Radiation Plo

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ATTACHMENT 1 UNIT 1 INDEX OF EALS

#### NOTE

1.0	PRIMAR	Y SYSTEM EVENTS
	1.1	RCS Activity Indicates >0.1% Fuel Cladding FailureALERT RCS Activity Indicates > 1% Fuel Cladding FailureALERT
	1.2 1.3	Core Damage Indicated with an Inadequate Core Cooling
	1.4	Containment Radiation Reading which Indicates LOCA and 31%
	1.5	Containment Radiation Reading which Indicates LOCA and
	1.6 1.7	Core Melt
2.0	RCS_LE	EAKAGE
	2.1 2.2 2.3	RCS Leakage > T.S. Limits requiring a plant S/D or C/DNUE RCS Leakage > Normal Makeup Capacity (50 gpm)ALERT RCS Leakage > Normal Makeup Capacity (50 gpm) with >1.0% Fuel Cladding Failure Conditions
	2.4	RCS Leakage > HPI CapacitySAE
3.0	SECONI	DARY SYSTEM EVENTS
	3.1	Uncontrolled OTSG Depressurization Resulting in MSLI ActuationNUE
	3.2	OTSG Tube Leak > Tech Spec limits
	3.4	OTSG Tube Rupture with Primary to Secondary Leakage > Normal Makeup Capacity (50 gpm) with ongoing steam release or loss of offsite power
	3.5	OTSG Tube Leak >1 gpm with >1% Fuel Cladding Failure and on-going Steam ReleaseSAE
4.0	ELECT	RICAL POWER FAILURES
	4.1 4.2 4.3 4.4	Degraded Power

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#### NOTE

5.0	RADIOLO	GICAL EFFLUENTS
	5.1	Radiological Effluents > .05 mRem/hr TEDE or .15 mRem/hr Child Thyroid CDE at Site Boundary or Liquid Radiological
	5.2	Effluents exceed ODCM Limitations
	5.3	Radiological Effluents >50 mRem/hr TEDE or 150 mRem/hr
	5.4	Radiological Effluents >250 mRem/nr TEDE OF 500 mRem/nr
	5.5	Child Thyroid CDE at the Site Boundary High Radiation/Airborne LevelsALERT SAE
	5.6	Spent Fuel AccidentSAE
6.0	SAFETY	SYSTEM FUNCTION
	6.1	Deviation from T.S. action statements when required to shutdown or cooldown or deviations pursuant to  10CFR50.54(x)
	6.2 6.3	RPS Failure to Complete a Manual TripSAE
	6.4	
	6.5	Loss of Communications
	6.6	Loss of Control Room AnnunciatorsALERT
	6.7	Loss of Control Room Annunciators with Transient in
		Loss of Control Room Adminiciators with Time Time SAE Progress
	6.8	Gambard Boom Evacuation
	6.9	Control Room Evacuation and control of shutdown systems not established in 15 minutes
	6.10	The Pager Heat Pemoval Systems
	6.11	Degraded Hot Shutdown CapabilitySAE

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7.0	HAZARDS	TO STATION OPERATION
	7.1 7.2	Security Threat or Attempted Entry or Attempted Sabotage NUE Ongoing Security Threat within Protected Area Security
	7.3 7.4 7.5 7.6 7.7 7.8 7.9 7.10	Fence
8.0	NATURAL	
	8.1 8.2 8.3	Tornado, Flood, Loss of Dardanelle Reservoir, EarthquakeNUE Tornado, High Winds, Flood, Loss of Dardanelle Reservoir, Earthquake
9.0	MISCELL	ANEOUS EVENTS
	9.1 9.2 9.3	Plant Conditions Exist Which Require an Increased Awareness by Operations Staff and State and/or Local Authorities

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#### NOTE

1.0	PRIMARY	SYSTEM EVENTS
	1.1 1.2 1.3 1.4 1.5	RCS Activity Indicates >0.1% Fuel Cladding Failure
2.0	RCS LEA	AKAGE
	2.1 2.2 2.3	RCS Leakage > Tech Spec Limits requiring a Plant S/D orC/DNUERCS Leakage > 44 gpm
3.0	SECONDA	ARY SYSTEM EVENTS
	3.1 3.2 3.3 3.4	Uncontrolled S/G Depressurization Resulting in MSIS  Actuation
4.0	ELECTR.	ICAL POWER FAILURES
	4.1 4.2 4.3 4.4 4.5	Degraded Power

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#### NOTE

5.0	RADIOLOGICAL EFFLUENTS	
	5.1	Radiological Effluents > .05 mrem/hr TEDE or .15 Child Thyroid CDE at Site Boundary or Liquid Radiological NUE
	5.2	Effluents exceed ODCM Limitations
	5.3	Effluents exceed 10 times ODCM Limitations
	5.4	Radiological Effluents >250 mrem/hr TEDE or 500 mrem/hr
	5.5	Wish Radiation/Airhorne LevelsALBRI
	5.6	Spent Fuel AccidentSAE
6.0	SAFETY	SYSTEM FUNCTION
	6.1	Deviation from T.S. action statements when required to shutdown or cooldown or deviations pursuant to 10CFR50.54(X)
	6.2	ppc Failure to Complete an Automatic TripALERI
	6.3	ppc Failure to Complete a Manual TripSAE
	6.4	loss of Dose Assessment Capabilities
	6.5	Logg of CommunicationsNUE
	6.6	Control Room EvacuationALERT
	6.7	Control Room Evacuation and control of shutdown systems
		not established in 15 minutes
	6.8	Loss of Decay Heat Removal Systems
	6.9	Loss of Both S/Gs as a Heat Removal MethodSAE
	6.10	Loss of Control Room AnnunciatorsALERT
	6.11 、	Loss of Control Room Annunciators with a Transient in
		ProgressSAE

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7.0	HAZARDS	TO STATION OPERATION
	7.1	Security Threat or Attempted Entry or Attempted Sabotage NUE Ongoing Security Threat Within Protected Area Security Fence
	7.3	Ongoing Security Threat Within Plant BuildingsSAE
	7.4	Ongoing Security Threat Within CR or Vital AreaGE
	7.5 .	Fire or Explosion Onsite
	7.6	Fire or Explosion Onsite Affecting One Train of ESF
	7.7	Systems
	7.8	Aircraft Crash, Unusual Aircraft Activity, Train  Derailment, Turbine Failure, Toxic or Flammable GasNUE
	7.9	Aircraft Crash, Missiles, Toxic or Flammable Gas Affecting One Train of ESF Systems
	7.10	Aircraft Crash, Missiles, Toxic or Flammable Gas Affecting Both Trains of ESF SystemsSAE
8.0	NATURAL	EVENTS
	8.1 8.2	Tornado, Flood, Loss of Dardanelle Reservoir, Earthquake NUE Tornado, High Winds, Flood, Loss of Dardanelle Reservoir, EarthquakeALERT
	8.3	Earthquake
9.0	MISCELI	LANEOUS EVENTS
	9.1	Plant Conditions Exist Which Require an Increased Awareness by Operations Staff and State and/or Local AuthoritiesNUE
	9.2	Plant Conditions Exist that Warrant Activation of the TSCALERT
	9.3	Plant Conditions Exist that Warrant Activation of the
		Emergency Response FacilitySAE
	9.4	Plant Conditions Exist That Make Release of Large Amount of Radioactivity PossibleGE

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#### ATTACHMENT 3 UNIT 1 PRIMARY SYSTEM EVENTS

<u>1.1</u>

CONDIT	rion:	
RCS A	ctivit	ty indicates >0.1% fuel cladding failure
EMEDGI	ENCY C	LASSIFICATION:
		on of Unusual Event
	I	MODES All
CRITE		
1.		ter than 0.1% fuel cladding failure as indicated by $\overline{\text{EITHER}}$ of the owing:
	Α.	Nuclear Chemistry analysis of RCS sample yields >40.0
		μCi/gm specific I-131 $\underline{OR}$
	В.	Failed Fuel Iodine monitor (RE 1237S) indicates $>3.3 \times 10^5$ CPM

RELATED EALS:	TAB
RCS Activity indicates >1% fuel cladding failure High Radiation / Airborne Levels Initiation of Plant S/D or C/D due to T.S. L.C.O.	1 5 6

CONDITION:

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## ATTACHMENT 3 UNIT 1 PRIMARY SYSTEM EVENTS

1.2

RCS Activity indicates >1% fuel cladding failure				
CLASSIFICATION.				
EMERGENCY CLASSIFICATION:				
Alert	,			
MODESAll				

#### CRITERIA:

- 1. Greater than 1% fuel cladding failure is indicated by <u>Either</u> of the following:
  - A. Nuclear Chemistry analysis of RCS sample yields:
    - 1.  $>400 \mu \text{Ci/gm} \text{ specific I-131}$

OR

{OCNAO8005} 2. Radiation levels that indicate >1% fuel cladding failure per Unit 1 Fuel Cladding Failure Radiation Plot (Att 7)

OR

B. Failed Fuel Iodine monitor (RE 1237S) indicates  $>8.2 \times 10^5$  CPM.

RELATED EALS:	TAB
RCS Activity indicates >0.1% fuel cladding failure Containment Radiation indicates LOCA and >1% fuel cladding failure Loss of or Challenge to 3 Fission Product Barriers Core Damage indicated with an ICC Condition High Radiation/Airborne Levels Initiation of Plant S/D or C/D due to T.S. L.C.O.	1 1 1 1 5 6

## ATTACHMENT 3 UNIT 1 PRIMARY SYSTEM EVENTS

1.3

Core Damage Indicated with an Inadequate Core Cooling Condition			
EMERGENCY CLASSIFICATION:			
Site Area Emergency			
MODES All			

#### CRITERIA:

CONDITION:

 Inadequate core cooling capacity exists as evidenced by CETS indicating superheated conditions of Region 3 of Figure 4 of EOP 1202.013.

#### AND

- 2. Greater than 1% fuel cladding failure is indicated by  $\overline{\text{EITHER}}$  of the following:
  - A. Nuclear Chemistry analysis of RCS sample yields:
    - 1.  $>400 \mu \text{Ci/gm}$  specific I-131

OR

{OCNA08005} 2. Radiation levels that indicate >1% fuel cladding failure per Unit 1 Fuel Cladding Failure Radiation Plot (Att 7)

OR

B. Failed Fuel Iodine process monitor (RE 1237S) indicates  $>8.2 \times 10^5$  CPM.

DELAMED EXIC.	TAB
Containment Radiation High/Very High Core Melt Loss of or challenge to 3 Fission Product Barriers RCS Leakage	1 1 1 2

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#### ATTACHMENT 3 UNIT 1 PRIMARY SYSTEM EVENTS

CONDITION:
Containment Radiation reading which indicates LOCA and >1% fuel cladding failure
EMERGENCY CLASSIFICATION:
EMERCHICI CLUSS I I COMPANIE C
Site Area Emergency
MODES All
CRITERIA:
1. Containment Radiation Levels correspond to a Site Area Emergency as Determined from the Containment Radiation EAL Plot (Att 5)
AND
2. LOCA occurring within the containment building

RELATED EALS:	TAB
Containment Radiation indicates LOCA and > 50% fuel overheat	1
Loss of or Challenge to 3 Fission Product Barriers	1
Core Melt	1
Radiological Effluents	5

CONDITION:

Core Melt

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#### ATTACHMENT 3 UNIT 1 PRIMARY SYSTEM EVENTS

Containment Radiation readings which indicate LOCA and >50% fuel overhead	at
EMERGENCY CLASSIFICATION:	
General Emergency	
MODES All	
CRITERIA:	
Containment Radiation Levels correspond to a General Emergency as determined from the Containment Radiation EAL Plot (Att 5)	
AND	!
2. LOCA occurring within the Containment Building	
	TAB
RELATED EALS:  Loss of or Challenge to 3 Fission Product Barriers  Radiological Effluents	1 5

Radiological Effluents

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## ATTACHMENT 3 UNIT 1 PRIMARY SYSTEM EVENTS

CONDITION:		
Core Melt		
EMERGENCY CLASSIFICATION:		
General Emergency		
MODES All		
CRITERIA:		
1. CETs indicate superheat conditions of Region 4 of Figure 4 of EOP	1202.013.	
DELAMED PALC.	TAB	
RELATED EALS:	1	
Loss of or Challenge to 3 Fission Product Barriers Containment Radiation High/Very High	1 5	

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## ATTACHMENT 3 UNIT 1 PRIMARY SYSTEM EVENTS

1.7

CONDITION:

Los	ss of or	challenge to all 3 Fission Product Barriers	
		A COLUMN TON.	
EMER	GENCY CL	ASSIFICATION:	
Gen	eral Eme	rgency	
	MODES	All	
CRIT	ERIA:		
1.	Eithe	er of the following conditions exist:	
	A. B.	Fuel Cladding Failure (refer to section 4.10.1) Challenge to Fuel Cladding (refer to section 4.11.1)	
		AND	
2.	Eithe	er of the following conditions exist:	
	A. B.	RCS boundary failure (refer to section 4.10.2) Challenge to RCS boundary (refer to section 4.11.2)	
		AND	
3.	Eithe	er of the following conditions exist:	
	A. B.	Containment Integrity failure (refer to section 4.10.3) Challenge to Containment Integrity (refer to section 4.11.3)	
L			
REL.	ATED EAL	S:	TAB

Containment Radiation High/Very High

Core Melt

Natural Events

Radiological Effluents

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ATTACHMENT 3 UNIT 1 RCS LEAKAGE

CONDITION:		
RCS Leakage		
EMERGENCY CLASSIFICATION:		
Notification of Unusual Event		
MODES _ Above CSD		
CRITERIA:		
Unidentified or pressure boundary RCS leakage greater than 10 gpm	n.	
OR		
2. Identified RCS leakage greater than 25 gpm.		
RELATED EALS:	TAB	
KELATED EALS:		
RCS Leakage > Normal Makeup Capacity (50 gpm)	2	
Initiation of Plant S/D due to TS LCO		
OTCC Tube Leak		

CONDITION:

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ATTACHMENT 3 UNIT 1 RCS LEAKAGE

2.2

	RCS Leakage > Normal Makeup Capacity (50 gpm)
L	
Ē	EMERGENCY CLASSIFICATION:
	Alert
	MODESAbove CSD

#### CRITERIA:

- 1. An RCS leak necessitates EITHER of the following:
  - A. Need to open the BWST suction for the operating makeup pump due to a decreasing makeup tank level.

 $\underline{\mathsf{OR}}$ 

B. Full or partial HPI is needed to maintain the RCS Pressure or Pressurizer Level

RELATED EALS:	TAB
RCS Leakage > Normal Makeup Capacity with Fuel Cladding Failure Conditions RCS Leakage > HPI Capacity Containment Radiation High/Very High Core Damage Indicated with an ICC Condition Loss of or Challenge to 3 Fission Product Barriers Radiological Effluents Core Melt	2 2 1 1 1 5 1

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ATTACHMENT 3 UNIT 1 RCS LEAKAGE

2.3

CON	 m T	$\triangle$	

RCS Leakage > Normal Makeup Capacity (50 gpm) with >1.0% Fuel Cladding Failure Conditions

#### EMERGENCY CLASSIFICATION:

Site Area Emergency

MODES Above CSD

#### CRITERIA:

1. RCS Leakage > Normal Makeup Capacity (50 gpm) (EAL 2.2) with  $\geq 1.0\%$  Fuel Cladding Failure in the RCS (EAL 1.2)

#### NOTE

EAL 2.2 RCS Leakage > Normal Makeup Capacity (50 gpm)
EAL 1.2 RCS Activity Indicates >1% fuel cladding failure

RELATED EALS: TAB

Containment Radiation indicates LOCA and fuel failure
Core Damage Indicated with an ICC Condition
Loss of or Challenge to 3 Fission Product Barriers
Radiological Effluents
Core Melt

1	
1	
1	
5	
1	

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ATTACHMENT 3 UNIT 1 RCS LEAKAGE

2.4

RCS Leakage > HPI Capacity	
EMERGENCY CLASSIFICATION:	
Site Area Emergency	
MODESAbove CSD	

#### CRITERIA:

CONDITION:

- RCS Leakage > HPI Capacity as indicated by:
  - A. Full available HPI being injected into the core

#### AND

B. RCS Pressure/Pressurizer Level continues to decrease or RCS Subcooling margin remains inadequate with no indication of recovery.

RELATED EALS:	TAB
Containment Radiation High/Very High Core Damage Indicated with an ICC Condition Loss of or Challenge to 3 Fission Product Barriers Radiological Effluents Core Melt	1 1 1 5 1

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#### ATTACHMENT 3 UNIT 1 SECONDARY SYSTEM EVENTS

<u>3.1</u>

CONDITION:	
Uncontrolled OTSG Depressurization Resulting in MSLI Actuation	
EMERGENCY CLASSIFICATION:	
Notification of Unusual Event	
MODES Above CSD	
CRITERIA:	
1. Any manual or automatic actuation of MSLI due to uncontrolled OTS depressurization.	SG
RELATED EALS:	TAB
	3
OTSG Tube Leak Radiological Effluents	5
Kadiological Billaches	

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

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## ATTACHMENT 3 UNIT 1 SECONDARY SYSTEM EVENTS

3.2

OTSG Tube Leakage > Tech. Spec. Limit	s
EMERGENCY CLASSIFICATION:	
Notification of Unusual Event	
MODESAbove CSD	

#### CRITERIA:

- 1. RCS Leak rate of  $\geq$  150 gallons per day (.104 gpm), coincident with one or more of the following:
  - a) Main Steam line N-16 alarm(s)
  - b) Steam Line High Range RAD Monitors Increase (RI-2681 or 2682)
  - c) Condenser off gas process monitor count rate increase
  - d) Nuclear Chemistry sample indicating Primary-Secondary tube leak

RELATED EALS:	TAB
RELATED EALS:	_
OTSG Tube Leak	3 2
RCS Leakage	5
Radiological Effluents	

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## ATTACHMENT 3 UNIT 1 SECONDARY SYSTEM EVENTS

3.3

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CON	ווו	1		16	101	•
-con	עו	_	1.	Τ,	ンエィ	٠

OTSG Tube Leakage > 10 gpm concurrent with ongoing steam release or loss of offsite power.

EMERGENCY CLASSIFICATION:	
Alert	
MODESAbove CSD	

#### CRITERIA:

- 1. RCS Leakrate increase of >10 gpm, coincident with one of more of the following:
  - a. Main Steam line N-16 alarms(s)
  - b. Condenser Off Gas Process Monitor count rate increase
  - c. Steam Line High Range Rad Monitors increase (RI-2681 or RI-2682)
  - d. Nuclear Chemistry sample indicating primary-secondary tube leak

#### AND

- 2. ANY of the following occur:
  - A. Loss of offsite power
  - B. Steam release to the environment indicated by:
    - Main Steam Safety Valve(s) maintaining OTSG pressure
    - 2. Use of ADV(s) to control OTSG pressure
    - 3. P7A is in use and continued operation required to maintain OTSG levels
    - 4. Steam line break outside containment

RELATED EALS:	TAB
OTSG Tube Rupture >50 gpm with ongoing steam release OTSG Tube Leak with fuel cladding failure RCS Leakage Radiological Effluents High Radiation/Airborne Levels Electrical Power Failures Loss of or Challenge to 3 Fission Product Barriers	3 3 2 5 5 4

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#### ATTACHMENT 3 UNIT 1 SECONDARY SYSTEM EVENTS

3.4

CON	וחו	י קף	r O	N :

OTSG Tube Rupture with primary to secondary leakage >normal makeup capacity (50 gpm) with ongoing steam release or loss of offsite power.

#### EMERGENCY CLASSIFICATION:

Site Area Emergency

MODES Above CSD

#### CRITERIA:

- OTSG Tube Rupture as indicated by  $\underline{\mathtt{BOTH}}$  of the following:
  - RCS Leakage > Normal Makeup Capacity (50 gpm) Α.
  - Coincident with one or more of the following: В.
    - a) Main Steam line N-16 alarm(s)
    - b) Steam Line High Range RAD Monitors Increase (RI-2681 or 2682)
    - c) Condenser off gas process monitor count rate increase
    - d) Nuclear Chemistry sample indicating Primary-Secondary tube leak

#### AND

- ANY of the following occur:
  - Loss of offsite power Α.
  - Steam release to the environment indicated by:
    - Main Steam Safety Valve(s) maintaining OTSG pressure
    - Use of ADV(s) to control OTSG pressure 2.
    - P7A is in use and continued operation required to maintain OTSG 3. levels
    - Steam line break outside containment 4.

RELATED EALS:	TAB
RCS Leakage Radiological Effluents Loss of or Challenge to 3 Fission Product Barriers Electrical Power Failures	2 5 1 4

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#### ATTACHMENT 3 UNIT 1 SECONDARY SYSTEM EVENTS

3.5

COND	I	Т	I	ON	:
------	---	---	---	----	---

OTSG Tube Leak >1 gpm with >1% fuel cladding failure with ongoing steam release

#### EMERGENCY CLASSIFICATION:

Site Area Emergency

Above CSD MODES

#### CRITERIA:

#### Caution

As Primary-to-Secondary leakage approaches 50 gpm, consider transitioning to EAL 1.7.

- OTSG Leakrate increase of  $\geq 1$  gpm, coincident with one or more of the 1. following:
  - a) Main Steam line N-16 alarm(s)
  - b) Steam Line High Range RAD Monitors Increase (RI-2681 or 2682)
  - c) Condenser off gas process monitor count rate increase
  - d) Nuclear Chemistry sample indicating Primary-Secondary tube leak

#### AND

Greater than 1% fuel cladding failure indicated in the RCS (EAL 1.2) 2.

#### AND

- ANY of the following occur: 3.
  - Loss of offsite power
  - Steam release to the environment indicated by:
    - Main Steam Safety Valve(s) maintaining OTSG pressure
    - Use of ADV(s) to control OTSG pressure 2.
    - P7A is in use and continued operation required to maintain OTSG 3. levels
    - Steam line break outside containment

RELATED EALS:	TAB
RCS Leakage Radiological Effluents Loss of or Challenge to 3 Fission Product Barriers Electrical Power Failures	2 5 1 4

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# ATTACHMENT 3 UNIT 1 ELECTRICAL POWER FAILURES

<u>4.1</u>

CONDITION:	
Degraded Power	
EMERGENCY CLASSIFICATION:	
Notification of Unusual Event	
MODESAll	
CRITERIA:	
1. Only Diesel Generator (Station Blackout Diesel or Emergency Diese available to 4160V Buses (A3 and/or A4).	el) power is
AND	
2. No voltage indicated on 6.9 KV AND 4.16 KV nonvital buses (H1, H2 A1, and A2)	2,
	TAB
RELATED EALS:	
Blackout	4 3
OTSG Tube Leak	

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# ATTACHMENT 3 UNIT 1 ELECTRICAL POWER FAILURES

CONDITION:	
Station Blackout	
EMERGENCY CLASSIFICATION:	
Alert	
MODES All	
CRITERIA:	
1. All 4160V buses de-energized.	
RELATED EALS:	TAB
Blackout more than 15 minutes Loss of Control Room Annunciators	<u>4</u> 6
LOSS OF CONCLOT ROOM FIRMANDESSEE	

CONDITION:

Electrical Power Failures

Core Melt

Loss of Control Room Annunciators

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# ATTACHMENT 3 UNIT 1 ELECTRICAL POWER FAILURES

Blackout for more than 15 minutes.	
EMERGENCY CLASSIFICATION:	
Site Area Emergency	
MODES All	
CRITERIA:	
1. All 4160V buses de-energized for greater than 15 minutes.	
PRIATED FALS:	TAB

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#### ATTACHMENT 3 UNIT 1 ELECTRICAL POWER FAILURES

4.4

CONDITION:	
Loss of All Vital DC Power	
OF A COLUMN OF A COLUMN ON THE COLUMN OF THE	
EMERGENCY CLASSIFICATION:	
Alert	
MODES All	
CRITERIA:	
1. Loss of voltage on <u>ALL</u> of the following busses	
A. D01 and D02 B. RA1 and RA2	
C. D11 and D21	
RELATED EALS:	TAB
Loss of All Vital DC Power for more than 15 minutes	46

Loss of Control Room Annunciators

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# ATTACHMENT 3 UNIT 1 ELECTRICAL POWER FAILURES

4.5

CONDITION:

EMERGENCY CLASSIFICATION:  Site Area Emergency  MODES All  CRITERIA:  1. Loss of voltage on ALL of the following busses  A. D01 and D02  B. RA1 and RA2  C. D11 and D21  AND  2. DC power is not restored within 15 minutes  RELATED EALS:  TAB	Loss of All Vital DC Power for more than 15 minutes	
Site Area Emergency  MODES All  CRITERIA:  1. Loss of voltage on ALL of the following busses  A. D01 and D02  B. RA1 and RA2  C. D11 and D21  AND  2. DC power is not restored within 15 minutes  RELATED EALS:  TAB		
CRITERIA:  1. Loss of voltage on ALL of the following busses  A. D01 and D02 B. RA1 and RA2 C. D11 and D21  AND  2. DC power is not restored within 15 minutes  RELATED EALS:  TAB	EMERGENCY CLASSIFICATION:	
CRITERIA:  1. Loss of voltage on ALL of the following busses  A. D01 and D02  B. RA1 and RA2  C. D11 and D21  AND  2. DC power is not restored within 15 minutes  RELATED EALS:  TAB	Site Area Emergency	
1. Loss of voltage on ALL of the following busses  A. D01 and D02 B. RA1 and RA2 C. D11 and D21  AND  2. DC power is not restored within 15 minutes  TAB	MODES All	
1. Loss of voltage on ALL of the following busses  A. D01 and D02 B. RA1 and RA2 C. D11 and D21  AND  2. DC power is not restored within 15 minutes  TAB		
A. D01 and D02 B. RA1 and RA2 C. D11 and D21  AND  2. DC power is not restored within 15 minutes  RELATED EALS:  TAB	CRITERIA:	
A. D01 and D02 B. RA1 and RA2 C. D11 and D21  AND  2. DC power is not restored within 15 minutes  RELATED EALS:  TAB		
B. RA1 and RA2 C. D11 and D21  AND  2. DC power is not restored within 15 minutes  RELATED EALS:  TAB	1. Loss of voltage on <u>ALL</u> of the following busses	
B. RA1 and RA2 C. D11 and D21  AND  2. DC power is not restored within 15 minutes  RELATED EALS:  TAB	A. D01 and D02	
C. D11 and D21  AND  2. DC power is not restored within 15 minutes  RELATED EALS:  TAB	B. RA1 and RA2	
2. DC power is not restored within 15 minutes  RELATED EALS:  TAB	C. D11 and D21	
RELATED EALS:  TAB  4	AND	
RELATED EALS:	2. DC power is not restored within 15 minutes	
RELATED EALS:		
RELATED EALS:		
4	DRIAMED EALC.	TAB
les terinal Domon Pailures	RELATED EALS:	
	Electrical Power Failures	
Loss of Control Room Annunciators	Loss of Control Room Annunciators	6

PROCEDURE/WORK PLAN TITLE:

#### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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#### ATTACHMENT 3 UNIT 1 RADIOLOGICAL EFFLUENTS

5.1

CONDITIO	N	
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Projected or measured activity at the Site Boundary, averaged over one hour, is greater than or equal to 0.05 mrem/hr TEDE or 0.15 mrem/hr Child Thyroid CDE or Liquid radiological effluents exceed ODCM Limitations.

# EMERGENCY CLASSIFICATION: Notification of Unusual Event MODES All

#### CRITERIA:

- 1. Radiological Release which exceeds ANY of the following limits
  - A. Projected activity at the Site Boundary, as calculated by the RDACS method, indicate greater than or equal to 0.05 mrem/hr TEDE or 0.15 mrem/hr Child Thyroid CDE.

OR

B. Offsite monitoring teams report activity at the Site Boundary which, when averaged over the previous one hour, exceeds 0.05 mrem/hr TEDE or 0.15 mrem/hr Child Thyroid CDE.

<u>OR</u>

C. Liquid radiological effluents exceed ODCM Limitations.

RELATED EALS:	TAB
Radiological Effluents High Radiation/Airborne Levels OTSG Tube Leak	5 5 3

PROCEDURE/WORK PLAN TITLE:

#### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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# ATTACHMENT 3 UNIT 1 RADIOLOGICAL EFFLUENTS

5.2

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Projected or measured activity at the Site Boundary, averaged over one hour, is greater than or equal to 0.5 mrem/hr TEDE or 1.5 mrem/hr Child Thyroid CDE or Liquid radiological effluents exceed 10 times ODCM Limitations.

EMERGENCY CLASSIFICATION:	
Alert	
MODES All	

#### CRITERIA:

- 1. Radiological Release which exceeds ANY of the following limits
  - A. Projected activity at the Site Boundary, as calculated by the RDACS method, indicates greater than or equal to 0.5 mrem/hr TEDE or 1.5 mrem/hr Child Thyroid CDE.

OR

B. Offsite monitoring teams report activity at the Site Boundary which, when averaged over the previous one hour, exceeds 0.5 mrem/hr TEDE or 1.5 mrem/hr Child Thyroid CDE.

OR

C. Liquid radiological effluents exceed 10 times ODCM Limitations.

DELATED DAIG.	TAB
RELATED EALS:  Radiological Effluents  OTSG Tube Leak  Containment Radiation High	5 3 1

#### PROCEDURE/WORK PLAN TITLE:

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#### ATTACHMENT 3 UNIT 1 RADIOLOGICAL EFFLUENTS

5.3

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COND	- 1		- 1	( 11/1	•
COND	_	-	_	OTA	•

Radiological Effluents are greater than or equal to 50 mrem/hr TEDE or 150 mrem/hr Child Thyroid CDE at the Site Boundary.

#### EMERGENCY CLASSIFICATION:

Site Area Emergency

MODES All \_\_\_

#### CRITERIA:

- 1. Radiological Release which exceeds ANY of the following limits
  - A. Projected dose rates at the Site Boundary, as calculated by the RDACS method, indicate greater than or equal to 50 mrem/hr TEDE or 150 mrem/hr Child Thyroid CDE.

OR

B. Offsite monitoring teams report dose rates at the Site Boundary are greater than or equal to 50 mrem/hr TEDE or 150 mrem/hr Child Thyroid CDE.

# RELATED EALS: Radiological Effluents Containment Radiation High / Very High Loss of or Challenge to 3 Fission Product Barriers Core Melt TAB 5 1 1 1

#### PROCEDURE/WORK PLAN TITLE:

#### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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# ATTACHMENT 3 UNIT 1 RADIOLOGICAL EFFLUENTS

5.4

CONDITION:	:
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Radiological Effluents are greater than or equal to 250 mrem/hr TEDE or 500 mrem/hr Child Thyroid CDE at the Site Boundary.

#### EMERGENCY CLASSIFICATION:

General Emergency

MODES \_\_All\_\_\_

#### CRITERIA:

- 1. Radiological Release which exceeds ANY of the following limits
  - A. Projected dose rates at the Site Boundary, as calculated by the RDACS method, indicate greater than or equal to 250 mrem/hr TEDE or 500 mrem/hr Child Thyroid CDE.

<u>OR</u>

B. Offsite monitoring teams report dose rates at the Site Boundary are greater than or equal to 250 mrem/hr TEDE or 500 mrem/hr Child Thyroid CDE.

#### RELATED EALS:

TAB

Core	Mel	lt							•
Loss	of	or	Challenge	to	3	Fis	sion	Product	Barriers
Conta	ainr	nent	Radiation	ı Hi	igl	ı /	Very	High	

1	
1	
 1	-

PROCEDURE/WORK PLAN TITLE:

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# ATTACHMENT 3 UNIT 1 RADIOLOGICAL EFFLUENTS

5.5

CONDITION:	
High Radiation/Airborne Levels	
EMERGENCY CLASSIFICATION:	
Alert	
MODES All	

#### CRITERIA:

- 1. The loss of control of radioactive material results in ANY of the following:
  - A. Containment radiation indicates >2R/hr
  - B. Area Radiation levels in controlled access (excluding containment) increase by 1 Rem/hr at 2 or more locations.
  - C. General area radiation levels outside of radiologically controlled areas increase by 10 mRem/hr.
  - D. Airborne levels as follows:
    - Auxiliary Building ≥100 DAC (General Area)
    - Turbine Building ≥10 DAC

NOTE:

"Loss of Control" shall be defined as: ANY radioactive material outside its normal system boundries. (For Example: spent resin spill, RCS liquid spill, spent fuel accident resulting in gaseous release, etc.)

RELATED EALS:	TAB
Radiological Effluents Containment Radiation High Spent Fuel Accident RCS Leakage	5 1 5 2

Radiological Effluents

Miscellaneous Events

High Radiation/Airborne Levels

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#### ATTACHMENT 3 UNIT 1 RADIOLOGICAL EFFLUENTS

CONDIT	TION:	
	Fuel Accident	
EMEDGI	ENCY CLASSIFICATION:	
EMERGI	ENCI CLASSIFICATION.	
Site	Area Emergency	
	MODESAll	
CRITE	DIA.	
CRITE	RIA:	
1.	The loss of water $\overline{OR}$ damage to a spent fuel assembly occurs in the Rx core (head removed), refueling canal, spent fuel pool, cask loading pit, fuel tilt pit or any plant area involved in the movement or storage of spent fuel.	
	AND	
2.	Radiation levels increase to 10 R/hr on Area Radiation Monitors or 10 Rem/hr HP Survey Report.	
רב.ובק	TED EALS:	TAB
*/*******		

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### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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TAB

# ATTACHMENT 3 UNIT 1 SAFETY SYSTEM FUNCTION

6.1

COND	TT	T	ON	•

Deviation from T.S. action statements when required to shutdown or cooldown or deviations pursuant to 10CFR50.54(x)

#### EMERGENCY CLASSIFICATION:

Notification of Unusual Event

MODES \_\_Above CSD

#### CRITERIA:

- 1. <u>EITHER</u> of the following conditions exist:
  - A. Inability to reach required mode within Tech. Spec. limits.
  - B. Deviation from Tech Specs authorized pursuant to 10CFR50.54(x)

RELATED EALS:	TAB
RCS Leakage OTSG Tube Leak RCS Activity High	2 3 1

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

# EMERGENCY ACTION LEVEL CLASSIFICATION

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# ATTACHMENT 3 UNIT 1 SAFETY SYSTEM FUNCTION

6.2

Reactor	Protection	n System :	Failure	to Com	plete	an	Automatic	Trip		
EMERGENC	Y CLASSIFI	CATION:								
Alert										
МС	DES Hot	Stdy-Pwr	Ops						 	

#### CRITERIA:

 A valid RPS trip setpoint is exceeded on <u>ANY TWO</u> RPS channels and the RPS fails to initiate and complete an automatic trip that brings the reactor subcritical.

#### AND

 Subsequent efforts to manually trip the Reactor from the Control Room and bring it subcritical are successful.

RELATED EALS:	TAB
RPS Failure to Complete a Manual Trip Core Melt Core Damage Indicated with an ICC Condition Loss of or Challenge to 3 Fission Product Barriers	6 1 1 1

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

#### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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# ATTACHMENT 3 UNIT 1 SAFETY SYSTEM FUNCTION

<u>6.3</u>

Reactor Protection System Failure to Complete an Manual Trip
EMERGENCY CLASSIFICATION:
Site Area Emergency
MODES Hot Stdy-Pwr Ops

#### CRITERIA:

 A valid RPS trip setpoint is exceeded on <u>ANY TWO</u> RPS channels and the RPS fails to initiate and complete an automatic trip that brings the reactor subcritical.

#### $\underline{\text{AND}}$

2. Failure of manual trip function occurs. (Failure to trip the Reactor in the Control Room; i.e., must leave Control Room to trip the Reactor.)

RELATED EALS:	TAB
Loss of or Challenge to 3 Fission Product Boundaries Core Melt Core Damage Indicated with an ICC Condition	1 1 1

#### PROCEDURE/WORK PLAN TITLE:

### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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# ATTACHMENT 3 UNIT 1 SAFETY SYSTEM FUNCTION

CONTRACTOR ON
CONDITION:  Loss of Dose Assessment Capabilities
THE STANDARD CONTINUE OF THE STANDARD CONTINUE
EMERGENCY CLASSIFICATION:
Notification of Unusual Event
MODES All
CRITERIA:
1. The following conditions exist in the Low Level Radwaste Building:
A. SPING is inoperable <u>AND</u> B. Compacting is in progress <u>AND</u> C. Inability to obtain and analyze local grab samples every 2 hours.
<u>OR</u>
2. Reactor Building Purge System or Penetration Ventilation System is not isolable, and the applicable SPING is inoperable.
<u>OR</u>
3. All of the following conditions exist for any source of gaseous effluents in the Auxiliary Building or Spent Fuel Storage Building ventilation systems.
A. Applicable SPING is inoperable <u>AND</u> B. Inability to obtain and analyze local grab samples every 2 hours
TAB

THE PROPERTY OF THE PROPERTY O	120
RELATED EALS:	
	í
None	
None	

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# EMERGENCY ACTION LEVEL CLASSIFICATION

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#### ATTACHMENT 3 UNIT 1 SAFETY SYSTEM FUNCTION

CONDITION:		
Loss of Communications		
EMERGENCY CLASSIFICATION:		
Notification of Unusual Event		
MODES All		
CRITERIA:		
CRITERIA.		
1. Complete loss of ANY TWO of the following:		
A. Plant telephone systems (Commercial Telephones and microway	re)	
B. Station Radio		
C. Emergency Notification System		
RELATED EALS:		
REDATED DIAGO.		
None		

#### PROCEDURE/WORK PLAN TITLE:

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#### ATTACHMENT 3 UNIT 1 SAFETY SYSTEM FUNCTION

CONDITION:	
Loss of Control Room Annunciators	
EMERGENCY CLASSIFICATION:	
EMERGENCI CLASSIFICATION.	
Alert	
MODES All	
CRITERIA:	
1. Loss of both AC and DC power to >50% of control room annunciator	s.
	TAB
RELATED EALS:	
Loss of Control Room Annunicators with Transient in Progress	6
	<u> </u>

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

# EMERGENCY ACTION LEVEL CLASSIFICATION

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# ATTACHMENT 3 UNIT 1 SAFETY SYSTEM FUNCTION

Loss of Control Room Annunciators with Transient in Progress	
EMERGENCY CLASSIFICATION:	
Site Area Emergency	
MODES All	
CRITERIA:	
1. Loss of both AC and DC power to >50% of control room annunciators  AND	3.
2. A plant transient is initiated or in progress. (See section 4.18 procedure for the definition of a Plant Transient.)	3 of this
RELATED EALS:	TAB
None	

CONDITION:

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# EMERGENCY ACTION LEVEL CLASSIFICATION

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# ATTACHMENT 3 UNIT 1 SAFETY SYSTEM FUNCTION

Control Room Evacuation	
TO A COLUMN CONTRACTOR OF THE	
EMERGENCY CLASSIFICATION:	
Alert	
MODES All	:
CRITERIA:	
1. Control Room evacuation is expected to occur <u>OR</u> has already occur	rred.
RELATED EALS:	TAB
Control Room Evacuation and control of shutdown systems not established in 15 minutes Fire or explosion onsite affecting both trains of any ES Systems	7

### PROCEDURE/WORK PLAN TITLE:

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# ATTACHMENT 3 UNIT 1 SAFETY SYSTEM FUNCTION

Control Room Evacuation and control of shutdown systems not established	
minutes.	ed in 15
MERGENCY CLASSIFICATION:	
Site Area Emergency	
MODES All	
TOTAL	
CRITERIA:	
<ol> <li>Control Room evacuation has occurred <u>AND</u> control of shutdown systems is not established from local stations within 15 minute</li> </ol>	es.
	TAB
PRIATED EALS:	i
RELATED EALS:	1
Core Damage Indicated with an ICC Condition	6

CONDITION:

PROCEDURE/WORK PLAN TITLE:

### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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# ATTACHMENT 3 UNIT 1 SAFETY SYSTEM FUNCTION

Loss of Decay Heat Removal Capabilities	
EMERGENCY CLASSIFICATION:	_
Alert	
MODESCSD-Refueling S/D	
CRITERIA:	

- 1. Loss of Decay Heat Removal capabilities shall be identified as  $\overline{\text{ANY}}$  of the following:
  - A. RCS indicates saturated conditions
  - B. Loss of both Decay Heat trains for >1 hr and OTSGs are not available for decay heat removal (NA if Fuel Transfer Canal is flooded)
  - C. HPI is required for cooling the reactor core.

RELATED EALS:	TAB
Core Damage Indicated with an ICC Condition	1
Radiological Effluents	5
Loss of or Challenge to 3 Fission Product Barriers	1
High Radiation/Airborne Levels	5
Core Melt	1

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

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# ATTACHMENT 3 UNIT 1 SAFETY SYSTEM FUNCTION

6.11

Degraded Hot Shutdown Capability	
EMERGENCY CLASSIFICATION:	
Site Area Emergency	
MODES _ Above CSD	

#### CRITERIA:

- 1. Degraded HSD capability shall be identified as ANY of the following:
  - A. Loss of  $\overline{\text{ALL}}$  steam removal capability on  $\overline{\text{BOTH}}$  OTSGs. (e.g., Loss of  $\overline{\text{ALL}}$  Turbine  $\overline{\text{Bypass}}$  Valves, Atmospheric Dump  $\overline{\text{Valves}}$ , and Main Steam Safety Valves)
  - B. Loss of <u>ALL</u> feedwater supply capability on <u>BOTH</u> OTSGs. (e.g., Loss of BOTH Main Feedwater Trains and <u>BOTH</u> EFW trains)
  - C.  $\frac{\text{BOTH}}{\text{reactor core}}$  HPI Trains are inoperable and they are required for cooling the

RELATED EALS:	TAB
Core Damage Indicated with an ICC Condition Containment Radiation Very High Core Melt	1 1 1
Loss of or Challenge to 3 Fission Product Barriers	

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# ATTACHMENT 3 UNIT 1 HAZARDS TO STATION OPERATION

ecurity threat onsite but outside the Protected Area Security Fence (	e.g.,
ecurity threat onsite but outside the Flotceted into betain his security tempted entry or sabotage which has been stopped outside the securit	cy fence).
MERGENCY CLASSIFICATION:	
Notification of Unusual Event	
MODESAll	
RITERIA:	
<ol> <li>Security threat onsite but outside the Protected Area Security Fend attempted entry or sabotage which has been stopped outside the security.</li> </ol>	ce (e.g., urity fence)
or	
2. A Credible site-specific security threat notification.	
2. A Credible Site-specific Security children in the security children	
	TAB
ELATED EALS:	
Ongoing security Threat Inside Protected Area Fence but outside	7
plant buildings	

### PROCEDURE/WORK PLAN TITLE:

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# ATTACHMENT 3 UNIT 1 HAZARDS TO STATION OPERATION

CONDITION:	
Ongoing security threat within the Protected Area Security Fence but ou plant buildings	tside of
EMERGENCY CLASSIFICATION:	
Alert	
MODES All	
CRITERIA:	
Same as the Condition stated above.	
	ma D
RELATED EALS:	TAB
Ongoing security threat within plant buildings but not in Control	7
Room or vital areas.	

#### PROCEDURE/WORK PLAN TITLE:

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# ATTACHMENT 3 UNIT 1 HAZARDS TO STATION OPERATION

CONDITION:	
Ongoing security threat within plant buildings but not within the C vital areas	ontrol Room or
EMERGENCY CLASSIFICATION:	
EMERGENCY CLASSIFICATION.	
Site Area Emergency	
MODES All	
CRITERIA:	
Same as the Condition stated above.	
RELATED EALS:	TAB
	7
Ongoing security Threat within Control Room or Vital Areas	
	. —

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# EMERGENCY ACTION LEVEL CLASSIFICATION

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# ATTACHMENT 3 UNIT 1 HAZARDS TO STATION OPERATION

CONDITION:	
Ongoing security threat within the Control Room or vital areas	
EMERGENCY CLASSIFICATION:	
General Emergency	
MODES All	
CRITERIA:	
Same as the Condition stated above.	
RELATED EALS:	TAB
None	
Notice	

#### PROCEDURE/WORK PLAN TITLE:

### EMERGENCY ACTION LEVEL CLASSIFICATION

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# ATTACHMENT 3 UNIT 1 HAZARDS TO STATION OPERATION

CONDITION:	
Fire or Explosion Onsite	
EMERGENCY CLASSIFICATION:	
Notification of Unusual Event	
MODES All	
CRITERIA:	
1. Fire within the Protected Area Security Fence which is not exting within 10 minutes.	guished
<u>OR</u>	
2. Explosion causing facility damage.	
RELATED EALS:	TAB
Fire or Explosion Onsite Affecting One Train of an ES System	7
	<u> </u>

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# ATTACHMENT 3 UNIT 1 HAZARDS TO STATION OPERATION

CONDITION:	
Fire or Explosion Onsite Affecting One Train of ANY ES Systems	
MERGENCY CLASSIFICATION:	
Alert	
MODES All	
CRITERIA:	
1. Fire or explosion onsite	
AND	
2. A potential or actual loss of a single train of $\overline{\text{ANY}}$ ES system as result of the fire or explosion	a
·	
RELATED EALS:	TAB
Fire or Explosion Onsite Affecting Both Trains of ANY ES System Control Room Evacuation	7 6

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# ATTACHMENT 3 UNIT 1 HAZARDS TO STATION OPERATION

CONDITION:	
Fire or Explosion Onsite Affecting Both Trains of ANY ES Systems	
EMERGENCY CLASSIFICATION:	
SMERGENCI CEMESTITOTICE	
Site Area Emergency	
MODES All	
CRITERIA:	
1. Fire or explosion onsite	
AND	
2. A potential or actual loss of Both trains of ANY ES system as a	
result of the fire or explosion	
	TAB
RELATED EALS:	
Control Room Evacuation and control of shutdown systems not	6
established in 15 minutes	
Country and the second	
	l

#### PROCEDURE/WORK PLAN TITLE:

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TAB

# ATTACHMENT 3 UNIT 1 HAZARDS TO STATION OPERATION

<u>7.8</u>

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CON	ווו	'   '	( )	NI 1

Aircraft Crash, Unusual Aircraft Activity, Train Derailment, Turbine Failure, Toxic or Flammable Gas Release

#### EMERGENCY CLASSIFICATION:

Notification of Unusual Event

MODES All \_\_\_

#### CRITERIA:

- 1. ANY of the following:
  - A. Aircraft crash onsite.
  - B. Unusual Aircraft activity over the facility.
  - C. Train derailment onsite.
  - D. Turbine rotating component failure causing rapid plant shutdown.
  - E. Toxic or flammable gas release which limits or restricts access to areas required for security or safe operation of the plant.

# Fire or Explosion Onsite Security Threat Aircraft Crash, Missiles, Toxic or Flammable Gas Affecting One Train of ANY ES System

#### PROCEDURE/WORK PLAN TITLE:

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# ATTACHMENT 3 UNIT 1 HAZARDS TO STATION OPERATION

CONDITION:	
Aircraft Crash, Missiles, Toxic or Flammable Gas Affecting One Train of Systems	ANY ES
EMERGENCY CLASSIFICATION:	
Alert	
MODESAll	
CRITERIA:	
1. ANY of the following:	
A. Aircraft crash onsite.	
B. Missiles/Projectiles from any source	
C. Toxic or flammable gas release	
AND	
2. A potential OR actual loss of a single train of ANY ES system	
RELATED EALS:	TAB
Fire or Explosion Onsite Affecting One Train of an ES System Aircraft Crash, Missiles, Toxic or Flammable Gas Affecting Both Trains of ANY ES System	7 7

#### PROCEDURE/WORK PLAN TITLE:

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# ATTACHMENT 3 UNIT 1 HAZARDS TO STATION OPERATION

ONDITION:  Aircraft Crash, Missiles, Toxic or Flammable Gas Affecting <u>Both</u> Trains	of ANY ES
Aircraft Crash, Missiles, Toxic or Flammable Gas Affecting <u>boom</u> beautiful System	
MERGENCY CLASSIFICATION:	
Site Area Emergency	
MODESAll	
CRITERIA:	
1. ANY of the following:	
- C N	
B. Missiles/Projectiles from any source	
C. Toxic or flammable gas release	
AND	
2. A potential OR actual loss of BOTH trains of ANY ES system	
	TAB
RELATED EALS:	
Fire or Explosion Onsite Affecting Both Trains of an ES System	7

# PROC./WORK PLAN NO. PROCEDURE/WORK PLAN TITLE: 1903.010 EMERGENCY ACTION LEVEL CLASSIFICATION

Tornado, High Winds, Flood, Loss of Dardanelle Reservoir,

Earthquake:

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ATTACHMENT 3 UNIT 1 NATURAL EVENTS

CONDITION:	
Tornado, Flood, Loss of Dardanelle Reservoir, Earthquake	
CYNCH CYNCHICATION.	
EMERGENCY CLASSIFICATION:	
Notification of Unusual Event	
MODES All	
CRITERIA:	
1. ANY of the following:	
A. Tornado observed on the ground within the Exclusion Area	
B. Flood - Lake level $\ge 340$ ' elev. and rising, with forecasted lake level $\ge 350$ ' elev.	
C. Low Level - Lake level <337' elev. AND forecasted by U.S. Army Corp of Engineers to reach 335' elev.	
D. Earthquake - <u>VERIFIED</u> earthquake accompanied by .01g alarm.	
RELATED EALS:	TAB

PROC./WORK PLAN NO. PROC./WORK PLAN NO. PROC./WORK PLAN NO.

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#### ATTACHMENT 3 UNIT 1 NATURAL EVENTS

8.2

Tornado,	High Winds	, Flood,	Loss o	f Dardanelle	Reservoir,	Earthquake
EMERCENCY	CLASSIFICA	TION:				
Alert	CIRDUITION					
MOD	ES All					

#### CRITERIA:

CONDITION:

- 1. ANY of the following:
  - A. Tornado striking vital facility structures (e.g. housing ES related equipment)
  - B. High Winds Sustained winds of  $\geq 60$  mph (10 minute average as reported by RDACS from either the 10 or 57 meter instruments).
  - C. Flood Flood waters  $\ge 350$ ' elev. and are forecasted by U.S. Army Corp of Engineers to reach or exceed 354' elev.
  - D. Low Level Lake level <335' elev
  - E. Earthquake VERIFIED earthquake accompanied by .1g alarm.

or

Any natural event resulting in the potential or actual loss of ONE train of  $\underline{\text{ANY}}$  ES system.

RELATED EALS:		TAB
Tornado, High Winds, Flood,	Loss of Dardanelle Reservoir, Earthquake	8
Loss of or challenge to all	3 Fission Product Barriers	

#### PROCEDURE/WORK PLAN TITLE:

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ATTACHMENT 3 UNIT 1 NATURAL EVENTS

CONDITION:	
Tornado, High Winds, Flood, Loss of Dardanelle Reservoir, Earthquake	
THE STATE OF THE CAST ON A	
Site Area Emergency	
MODES _ Above CSD_	
CRITERIA:	

- 1. ANY of the following:
  - A. High Winds Sustained winds of <a>\geq 67 mph (10 minute average as reported by RDACS from either the 10 or 57 meter instruments).</a>
  - B. Flood Flood Water Level is >361' elev.
  - C. Low Level Lake level  $\leq 335$ ' elev. and Emergency Cooling Pond not available
  - D. VERIFIED Earthquake >0.2g
  - E. Tornado, high wind, flood, low lake level or earthquake resulting in the potential or actual loss of BOTH trains of ANY ES system.

THE AMERICAN	TAB
RELATED EALS:	
Loss of or challenge to all 3 Fission Product Barriers	

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#### ATTACHMENT 3 UNIT 1 MISCELLANEOUS EVENTS

<u>9.1</u>	
CONDITION:	
Other plant conditions exist that warrant increased awareness on the pa operating staff and state and/or local offsite authorities or involve o normal controlled shutdown.	rt of the ther than
EMERGENCY CLASSIFICATION:	
Notification of Unusual Event	
MODES All	
CRITERIA:	
An event has occurred and the following conditions exist:	
1. This event is not covered by any other EAL	
AND	
2. This event does not challenge or cause the loss of a fission prod	duct barrier
AND	
3. In the judgement of the SM/TSC Director/EOF Director this event increased awareness by the ANO staff and offsite authorities.	requires an
RELATED EALS:	TAB
Plant Conditions Exist that Warrant Precautionary Activation of the TSC	9

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

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## ATTACHMENT 3 UNIT 1 MISCELLANEOUS EVENTS

Other plant conditions exist that warrant precautionary activation of the Support Center and placing the near-site Emergency Operations Facility key emergency personnel on standby.	he Technical and other
EMERGENCY CLASSIFICATION:	
Alert	
MODES All_	
CRITERIA:	
The following conditions must exist	
1. This event is not covered by any other EAL.	!
AND	
2. This event must either challenge or cause the loss of a fission parrier.	product
OR OR	
Plant conditions exist that warrant activation of the Emergency Organization.	Response
	ma D
RELATED EALS:	TAB
Plant Conditions Exist that Warrant Activation of the Emergency Response Centers.	9
**************************************	

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

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## ATTACHMENT 3 UNIT 1 MISCELLANEOUS EVENTS

9.3

Other plant conditions exist that warrant activation of the emergency response facilities and monitoring teams or a precautionary notification to the public near

the site.	
EMERGENCY CLASSIFICATION:	
Site Area Emergency	
MODES All	
CRITERIA:	
The following conditions must exist	
1. This event is not covered by any other EAL.	
AND	
2. The event must cause ANY of the following:	
A. Challenge two fission product barriers	
B. Failure of one fission product barrier and a challenge to	another
C. Failure of Two fission product barriers	
RELATED EALS:	TAB
Plant Conditions Exist that Make Release of Large Amounts of Radioactivity Possible	9
RACIOACCIVICY 10001010	

#### PROCEDURE/WORK PLAN TITLE:

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#### ATTACHMENT 3 UNIT 1 MISCELLANEOUS EVENTS

CONDITION:	
Plant Conditions Exist That Make Release of Large Amounts of Radioactiv	rity Possible
EMERGENCY CLASSIFICATION:	
General Emergency	
General Emergency	
MODES All	
CRITERIA:	
The following conditions must exist:	
1. This event is not covered by any other EAL	
AND	
2. Events have occurred that make a release of large amounts of rad a short period of time possible.	ioactivity in
PRINCIPLE DATA	TAB
RELATED EALS:	
None	

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

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#### ATTACHMENT 4 UNIT 2 PRIMARY SYSTEM EVENTS

1.1

RCS Activity i	ndicates >0.1% fue	l cladding failure	
THE CONTRACT OF A CO			

#### EMERGENCY CLASSIFICATION:

Notification of Unusual Event

MODES \_\_1-5\_\_

#### CRITERIA:

- 1. Greater than 0.1% fuel cladding failure as indicated by  $\overline{\text{EITHER}}$  of the following:
  - A. Selected isotope activity (I-131)  $>5.5E^5$  CPM (2RR4806 on 2C14 or 2RITS 4806B on 2C22)
  - B. Specific I-131 sample results  $>37.8~\mu\text{Ci/gm}$

DELAGED DALC.	TAB
RELATED EALS:	_
RCS Activity	
T.S. L.C.O.'s	5
General Area Radiation/Airborne	

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

## **EMERGENCY ACTION LEVEL CLASSIFICATION**

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## ATTACHMENT 4 UNIT 2 PRIMARY SYSTEM EVENTS

1.2

RCS Activity indicates >1.0% fuel cladding failure	
EMERGENCY CLASSIFICATION:	
Alert	
MODES 1-5	

#### CRITERIA:

- 1. Greater than 1% fuel cladding failure as indicated by either of the following:
  - 1. RCS Sample Analysis >378 μCi/gm specific I-131

 $\underline{\mathsf{OR}}$ 

{OCNA08005} 2. Radiation levels that indicate >1% fuel cladding failure per Unit 2 Fuel Cladding Failure Radiation Plot (Att 8)

RELATED EALS:	TAB
General Area Radiation/Airborne Containment Radiation Loss of or Challenge to 3 Fission Product Barriers Core Damage/ICC	5 1 1 1

#### PROCEDURE/WORK PLAN TITLE:

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## ATTACHMENT 4 UNIT 2 PRIMARY SYSTEM EVENTS

1.3

COND			

Core Damage Indicated with an Inadequate Core Cooling Condition

#### EMERGENCY CLASSIFICATION:

Site Area Emergency

MODES 1-5\_

#### CRITERIA:

- 1. Greater than 1% fuel cladding failure as indicated by either of the following:
  - 1. RCS Sample Analysis >378  $\mu\text{Ci/gm}$  specific I-131

OR

{OCNAO8005} 2. Radiation levels that indicate >1% fuel cladding failure per Unit 2 Fuel Cladding Failure Radiation Plot (Att 8)

#### AND

- 2. Inadequate core cooling capacity exists as indicated by ANY of the following:
  - A. Th RTD and average CET temperature indicates >10°F superheat AND RVLMS LVL 7 or Lower indicates Dry.
  - B. Th RTD and average CET temperature indicates >10°F superheat with both RVLMS Channels inoperable AND RCS temperatures increasing.
  - C. CET Temperatures indicate greater than 700°F.

DOLAMED ENIC.	TAB
RELATED EALS:  Decay Heat Removal Containment Radiation Core Melt RCS Leakage	6 1 1 2

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## ATTACHMENT 4 UNIT 2 PRIMARY SYSTEM EVENTS

1.4

CONTRACTOR TO THE CONTRACTOR T
CONDITION:
Containment Radiation readings which indicate LOCA and >1% fuel cladding failure
EMERGENCY CLASSIFICATION:
Site Area Emergency
MODES All_
CRITERIA:

1. Containment Radiation Levels correspond to a Site Area Emergency as determined from the containment radiation EAL plot (Att 6)

AND

2. LOCA occurring within the Containment Building

DELAMED EAIC.	TAB
Containment Radiation Loss of or challenge to 3 Fission Product Barriers Radiological Effluents Core Melt	1 1 5 1

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## ATTACHMENT 4 UNIT 2 PRIMARY SYSTEM EVENTS

CONDITION:	
Containment Radiation readings which indicate LOCA and >50% fuel over	erheat
THE CONCUMENT OF A COLUMN TO THE CONTROL OF THE CON	
EMERGENCY CLASSIFICATION:	
General Emergency	
MODES All	
CRITERIA:	
1. Containment Radiation Levels correspond to a General Emergenc from the containment radiation EAL plot (Att 6)	y as determined
AND	
2. LOCA occurring within the Containment Building	
RELATED EALS:	TAB
	1
Loss of or challenge to 3 Fission Product Barriers Radiological Effluents	5
Core Melt	1

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#### ATTACHMENT 4 UNIT 2 PRIMARY SYSTEM EVENTS

COND	ITION:		
Core	e Melt with Containment Integrity Lost or Challenged		
EMER	GENCY CLASSIFICATION:		
Gen	eral Emergency		
	MODES All		
L			
CRIT	ERIA:		
1.	ANY of the following events occur		
A. Small or Large LOCA and a complete failure of ALL ECCS systems occurs.			
B. Loss of <u>ALL</u> feedwater <u>AND</u> S/G Level in both S/G's is <70" (Wide Range) <u>AND</u> a complete failure of <u>ALL</u> ECCS Systems occurs.			
	C. Anticipated transient without a Rx trip		
	AND		
2.	Containment Integrity is lost $\overline{\text{OR}}$ challenged as defined by 4.10.3 (Definitions)	or 4.11.3	
		TAB	
REL	ATED EALS:	TAB	
	ss of or challenge to 3 Fission Product Barriers	1	
Co	ntainment Radiation	1	
	diological Effluents		
- 1			

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## ATTACHMENT 4 UNIT 2 PRIMARY SYSTEM EVENTS

<u>1.7</u>

CONDITIO	Ν	:
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Loss of or challenge to all 3 Fission Product Barriers

#### EMERGENCY CLASSIFICATION:

General Emergency

MODES All\_

#### CRITERIA:

- Either of the following conditions exist:
  - A. Fuel Cladding Failure (refer to section 4.10.1)
  - B. Challenge to Fuel Cladding (refer to section 4.11.1)

#### AND

- 2. Either of the following conditions exist:
  - A. RCS boundary failure (refer to section 4.10.2)
  - B. Challenge to RCS boundary (refer to section 4.11.2)

#### AND

- 3. Either of the following condition exist
  - A. Containment Integrity failure (refer to section 4.10.3)
  - B. Challenge to Containment Integrity (refer to section 4.11.3)

1	DELATED FALS.	TAB
Containment Radiation  Core Melt Radiological Effluents Natural Events	Radiological Effluents	1 1 5 8

> ATTACHMENT 4 UNIT 2 RCS LEAKAGE

> > <u>2.1</u>

CONDITION:	
RCS Leakage	
EMERGENCY CLASSIFICATION:	
EMERGENCI CHASSIFICATION.	
Notification of Unusual Event	
MODES 1-4	
CRITERIA:	
1. Unidentified or pressure boundary RCS leakage greater than 10 gpm	m.
OR	
2. Identified RCS leakage greater than 25 gpm.	
	an n
RELATED EALS:	TAB
	2
RCS Leakage	6
T.S. L.C.O.'s Primary to Secondary Leakage	3
Primary to secondary bearage	5

General Area Radiation/Airborne

CONDITION:

RELATED EALS:

RCS Leakage

General Area Radiation/Airborne

Primary to Secondary Leakage

Containment Radiation

Decay Heat Removal

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6

ATTACHMENT 4 UNIT 2 RCS LEAKAGE

RCS Leakage > 44 gpm
EMERGENCY CLASSIFICATION:
Alert
MODES 1-4
CRITERIA:
1. RCS Leakage is >44 gpm (Capacity of a single Charging Pump).
TAB

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ATTACHMENT 4 UNIT 2 RCS LEAKAGE

2.3

COND	Ι	Т	Ι	on	:
------	---	---	---	----	---

RCS Leakage > 44 gpm with ICC Conditions

#### EMERGENCY CLASSIFICATION:

Site Area Emergency

MODES \_\_1-4\_\_\_

#### CRITERIA:

1. RCS Leakage is >44 gpm (Capacity of a single Charging Pump).

#### AND

- 2. Inadequate Core Cooling conditions exist as indicated by  $\overline{\text{ANY}}$  of the following:
  - A. Th RTD and average CET temperature indicates >10°F superheat AND RVLMS LVL 7 or Lower indicates Dry.
  - B. Th RTD and average CET temperature indicates  $>10^{\circ}F$  superheat with both RVLMS Channels inoperable AND RCS temperature increasing.
  - C. CET Temperatures indicate greater than  $700^{\circ}F$ .

RELATED EALS:	TAB
Core Damage/ICC Radiological Effluents Containment Radiation Core Melt Loss of or challenge to 3 Fission Product Barriers Primary to Secondary Leakage	1 5 1 1 1 3

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CONDITION:

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#### ATTACHMENT 4 UNIT 2 SECONDARY SYSTEM EVENTS

Uncontrolled S/G Depressurization Resulting in MSIS Actuation	
EMERGENCY CLASSIFICATION:	
Notification of Unusual Event	
MODES 1-4	
CRITERIA:	
1. Any actuation of MSIS due to uncontrolled Steam Generator depress	surization.
RELATED EALS:	TAB
	3
Primary to Secondary Leakage Radiological Effluents	5

CONDITION:

RELATED EALS:

RCS Leakage

Primary to Secondary Leakage

Radiological Effluents

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TAB

3

5

## ATTACHMENT 4 UNIT 2 SECONDARY SYSTEM EVENTS

S/G Tube Leak > Tech Spec Limits
EMERGENCY CLASSIFICATION:
Notification of Unusual Event
MODES 1-4
CRITERIA:
1. Primary to Secondary Leakage exceeds <u>EITHER</u> of the following limits
A. Total leakage through both S/G's is > 300 gallons per day (0.2083 gpm)
<u>OR</u>
B. Leakage to 1 S/G is > 150 gallons per day (0.1042 gpm)

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## ATTACHMENT 4 UNIT 2 SECONDARY SYSTEM EVENTS

S/G Tube Leak >10 gpm with an Ongoing Steam Release
EMERGENCY CLASSIFICATION:
Alert
MODES <u>1-4</u>
CRITERIA:
CKI IIKITI.
1. S/G tube leak >10 gpm with a Steam Release in Progress as indicated by ANY of the following:
A. Main Steam Safety Valves maintaining S/G Pressure  B. SDBCS Atmospheric Dump Valves in Use  C. Steam Line Break Outside of Containment
D. 2P7A is in use and continued operation is required to maintain S/G levels.

TAB
3 2 5 5 5 4

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#### ATTACHMENT 4 UNIT 2 SECONDARY SYSTEM EVENTS

3.4

CON	m	т	T	т	$\overline{}$	ΤΛ	d
CUIN	ш	.L	Т.	_	v	TA.	1

Steam Generator Tube Rupture >44 gpm With an Ongoing Steam Release and RCS Activity > 1.0  $\mu$ Ci/gm, but < 378  $\mu$ Ci/gm (1% fuel cladding failure).

#### EMERGENCY CLASSIFICATION:

Site Area Emergency

MODES \_\_1-4\_\_

#### CRITERIA:

- 1. S/G tube leak >44 gpm with a Steam Release in Progress as indicated by  $\overline{\text{ANY}}$  of the following:
  - A. Main Steam Safety Valve(s) maintaining S/G Pressure
  - B. SDBCS Atmospheric Dump Valve(s) in Use
  - C. Steam Line Break Outside of Containment
  - D. 2P7A is in use and continued operation is required to maintain S/G levels.

#### AND

2. RCS Activity > 1.0  $\mu$ Ci/gm (T.S. 3.4.8), but < 378  $\mu$ Ci/gm (1% fuel cladding failure).

#### CAUTION

As fuel cladding failure approaches 1% (378 µCi/gm I-131) EAL 1.7 may apply.

RELATED EALS:	TAB
RCS Leakage Radiological Effluents Loss of or Challenge to 3 Fission Product Barriers Core Melt Electrical Power	2 5 1 1 4

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TAB

#### ATTACHMENT 4 UNIT 2 ELECTRICAL POWER FAILURES

Degraded Power  EMERGENCY CLASSIFICATION:
EMERGENCY CLASSIFICATION:
EMERGENCY CLASSIFICATION:
DIADICOLICE CONTRACTOR OF THE
Notification of Unusual Event
MODES All Modes
CRITERIA:
1. Temporary Loss of Normal Control Room Lighting
AND
2. No voltage indicated on Both 4.16 KV nonvital busses (2A1 & 2A2)
AND
3. At least one Emergency Diesel or Station Blackout Diesel started and supplying a vital bus (2A3 or 2A4)

RELATED EALS:	
Electrical Power MSIS Primary to Secondary Leak	4 3 3

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#### ATTACHMENT 4 UNIT 2 ELECTRICAL POWER FAILURES

EMERGENCY CLASSIFICATION:  Alert  MODES All Modes  CRITERIA:  1. Loss of all Control Room Lighting except emergency DC Lights  AND
Alert  MODES All Modes  CRITERIA:  1. Loss of all Control Room Lighting except emergency DC Lights  AND
Alert  MODES All Modes  CRITERIA:  1. Loss of all Control Room Lighting except emergency DC Lights  AND
Alert  MODES All Modes  CRITERIA:  1. Loss of all Control Room Lighting except emergency DC Lights  AND
MODES All Modes  CRITERIA:  1. Loss of all Control Room Lighting except emergency DC Lights  AND
CRITERIA:  1. Loss of all Control Room Lighting except emergency DC Lights  AND
1. Loss of all Control Room Lighting except emergency DC Lights $\underline{\text{AND}}$
1. Loss of all Control Room Lighting except emergency DC Lights $\underline{\text{AND}}$
1. Loss of all Control Room Lighting except emergency DC Lights $\underline{\text{AND}}$
AND
<del></del>
2. No voltage indicated on <u>Both</u> 4.16 KV nonvital busses. (2A1 and 2A2)
AND
3. No voltage indicated on Both 4.16 KV vital busses (2A3 and 2A4)

RELATED EALS:	TAB
Electrical Power Communications, Dose Assessment Primary to Secondary Leak Decay Heat Removal Core Melt	4 6 3 6 1

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#### ATTACHMENT 4 UNIT 2 ELECTRICAL POWER FAILURES

<u>4.3</u>

LIDNC	rion:				
Loss	of All	Vital	DC		
MERGI	ENCY C	LASSIFI	CATI	N:	
Alert	E				
	MODES	1-4_	_		
RITE	RIA:				
1.	Loss	of <u>All</u>	of	the following busses has occurred:	
	Α.	2D01	and	2D02	
	B	2RA1 2D21	and	2RA2	
		2D21			
ח אינור	TED EAI	.g.			TAB
					4
Elec	trical nunicat	Power	Dose	Assessment	6
Comm					

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## ATTACHMENT 4 UNIT 2 ELECTRICAL POWER FAILURES

4.4

CONDITION:	
Blackout >15 minutes.	
EMERGENCY CLASSIFICATION:	
Site Area Emergency	
MODESAll	
CRITERIA:	
1. Blackout has occurred as indicated by ALL of the followi	ng:
A. Loss of all Control Room lighting except emergency B. No voltage indicated on Both 4.16 KV nonvital buss C. Neither Vital 4.16 KV Buss energized (2A3 or 2A4)	DC lights ses (2A1 and 2A2)
AND	
2. The Blackout Condition exists for >15 minutes	
RELATED EALS:	TAB

Decay Heat Removal Electrical Power

Radiological Effluents

Core Melt

Primary to Secondary Leakage

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#### ATTACHMENT 4 UNIT 2 ELECTRICAL POWER FAILURES

CONDITION:  Loss of ALL Vital DC for >15 minutes  MMERGENCY CLASSIFICATION:  Site Area Emergency  MODES All  CRITERIA:  1. Loss of both of the following trains of DC Busses has occurred:  RED TRAIN GREEN TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24  AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt Radiological Effluents  TAB	$\frac{4.5}{2}$	
Loss of ALL Vital DC for >15 minutes  MERGENCY CLASSIFICATION:  Site Area Emergency  MODES All  CRITERIA:  1. Loss of both of the following trains of DC Busses has occurred:  RED TRAIN GREEN TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24 AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt  6 6 6 6 6 7 1 7	CONDITION	
MERGENCY CLASSIFICATION:  Site Area Emergency  MODES All  CRITERIA:  1. Loss of both of the following trains of DC Busses has occurred:  RED TRAIN GREEN TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24 AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt  Table		
Site Area Emergency  MODES All  CRITERIA:  1. Loss of both of the following trains of DC Busses has occurred:  RED TRAIN GREEN TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24 AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt	Loss of <u>ALL</u> Vital DC for >15 minutes	
Site Area Emergency  MODES All  CRITERIA:  1. Loss of both of the following trains of DC Busses has occurred:  RED TRAIN GREEN TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24 AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt		
Site Area Emergency  MODES All  CRITERIA:  1. Loss of both of the following trains of DC Busses has occurred:  RED TRAIN GREEN TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24 AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt		
MODES All  PRITERIA:  1. Loss of both of the following trains of DC Busses has occurred:  RED TRAIN GREEN TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24 AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt  Table	EMERGENCY CLASSIFICATION:	
TAB  Communications, Dose Assessment Decay Heat Removal  Loss of both of the following trains of DC Busses has occurred:  RED TRAIN GREEN TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24  AND  Communications, Dose Assessment 6 6 6 6 6 7 6 7 6 7 7 7 7 7 7 7 7 7 7 7	Site Area Emergency	
1. Loss of both of the following trains of DC Busses has occurred:  RED TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24  AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt	MODES All_	
1. Loss of both of the following trains of DC Busses has occurred:  RED TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24  AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt		
1. Loss of both of the following trains of DC Busses has occurred:  RED TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24  AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt		
RED TRAIN  2D01 2D02 2RA1 2RA2 2D21 2D23 2D24  AND  2. Power is not restored to at least one train within 15 minutes  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt	CRITERIA:	
2D01 2D02 2RA1 2RA2 2D21 2D22 2D23 2D24  AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  Communications, Dose Assessment Decay Heat Removal Core Melt  TAB	1. Loss of both of the following trains of DC Busses has occurred:	
2RA1 2RA2 2D21 2D22 2D23 2D24  AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  Communications, Dose Assessment Decay Heat Removal Core Melt  TAB	RED TRAIN GREEN TRAIN	
2D21 2D22 2D23 2D24  AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  Communications, Dose Assessment Decay Heat Removal Core Melt  TAB	2202	
2D23  AND  2. Power is not restored to at least one train within 15 minutes  RELATED EALS:  Communications, Dose Assessment Decay Heat Removal Core Melt  AND  TAB		
2. Power is not restored to at least one train within 15 minutes  TAB  Communications, Dose Assessment Decay Heat Removal Core Melt		
RELATED EALS:  Communications, Dose Assessment Decay Heat Removal Core Melt  TAB  6  6  1	AND	
Communications, Dose Assessment  Decay Heat Removal  Core Melt	2. Power is not restored to at least one train within 15 minutes	
Communications, Dose Assessment  Decay Heat Removal  Core Melt		
Communications, Dose Assessment  Decay Heat Removal  Core Melt		
Communications, Dose Assessment  Decay Heat Removal  Core Melt		
Communications, Dose Assessment  Decay Heat Removal  Core Melt		TAB
Communications, Dose Assessment  Decay Heat Removal  Core Melt	RELATED EALS:	
Decay Heat Removal  Core Melt	Communications, Dose Assessment	
Radiological Effluents 5	Decay Heat Removal	
Radiological dillama	Core Melt   Rediclogical Effluents	5
	Audiological districts	

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#### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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## ATTACHMENT 4 UNIT 2 RADIOLOGICAL EFFLUENTS

5.1

CON			
CUL	ıu.	 $\perp$	'1¥ +

Projected or measured activity at the Site Boundary, averaged over one hour, is greater than or equal to 0.05 mrem/hr TEDE or 0.15 mrem/hr Child Thyroid CDE or Liquid radiological effluents exceed ODCM Limitations.

## EMERGENCY CLASSIFICATION:

Notification of Unusual Event

MODES All\_\_

#### CRITERIA:

- 1. Radiological Release which exceeds ANY of the following limits
  - A. Projected activity at the Site Boundary, as calculated by the RDACS method, indicate greater than or equal to 0.05 mrem/hr TEDE or 0.15 mrem/hr Child Thyroid CDE.

OR

B. Offsite monitoring teams report activity at the Site Boundary which, when averaged over the previous one hour, exceeds 0.05 mrem/hr TEDE or 0.15 mrem/hr Child Thyroid CDE.

OR

C. Liquid radiological effluents exceed ODCM Limitations.

## 

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ATTACHMENT 4 UNIT 2 RADIOLOGICAL EFFLUENTS

5.2

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CON	1131	.1.1	(10)	٠
COLVE	$L \cup L$		$OI_{A}$	٠

Projected or measured activity at the Site Boundary, averaged over one hour, is greater than or equal to 0.5 mrem/hr TEDE or 1.5 mrem/hr Child Thyroid CDE or Liquid radiological effluents exceed 10 times ODCM Limitations.

EMERGENCY CLASSIFICATION:	
Alert	
MODES All	

#### CRITERIA:

- 1. Radiological Release which exceeds ANY of the following limits
  - A. Projected activity at the Site Boundary, as calculated by the RDACS method, indicate greater than or equal to 0.5 mrem/hr TEDE or 1.5 mrem/hr Child Thyroid CDE.

OR

B. Offsite monitoring teams report activity at the Site Boundary which, when averaged over the previous one hour, exceeds 0.5 mrem/hr TEDE or 1.5 mrem/hr Child Thyroid CDE.

or

C. Liquid radiological effluents exceed 10 times ODCM Limitations.

RELATED EALS:	TAB
Radiological Effluents Primary to Secondary Leak Containment Radiation	5 3 1

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TAB

#### ATTACHMENT 4 UNIT 2 RADIOLOGICAL EFFLUENTS

5.3

CON			

Radiological Effluents are greater than or equal to 50 mrem/hr TEDE or 150 mrem/hr Child Thyroid CDE at the Site Boundary.

MERGENCY CLASSIFICATION:
Site Area Emergency
MODES All

#### CRITERIA:

- 1. Radiological Release which exceeds ANY of the following limits
  - A. Projected dose rates at the Site Boundary, as calculated by the RDACS method, indicate greater than or equal to 50 mrem/hr TEDE or 150 mRem/hr Child Thyroid CDE.

<u>OR</u>

B. Offsite monitoring teams report dose rates at the Site Boundary are greater than or equal to 50 mrem/hr TEDE or 150 mrem/hr Child Thyroid CDE.

RELATED EALS:	<del></del>
Radiological Effluents Containment Radiation Loss of or Challenge to 3 Fission Product Barriers Core Melt	5 1 1 1
	_1

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#### ATTACHMENT 4 UNIT 2 RADIOLOGICAL EFFLUENTS

<u>5.4</u>	
COMPLETON.	
CONDITION:  Radiological Effluents are greater than or equal to 250 mrem/hr TEDE or Child Thyroid CDE at the Site Boundary.	500 mrem/hr
EMERGENCY CLASSIFICATION:	
General Emergency  MODESAll	
1. Radiological Release which exceeds ANY of the following limits  A. Projected dose rates at the Site Boundary, as calculated by method, indicate greater than or equal to 250 mrem/hr TEDE mrem/hr Child Thyroid CDE.	the RDACS or 500
<u>OR</u>	
B. Offsite monitoring teams report dose rates at the Site Boun greater than or equal to 250 mrem/hr TEDE or 500 mrem/hr Ch CDE.	dary are aild Thyroid
	TAB
Core Melt Loss of or Challenge to 3 Fission Product Barriers Containment Radiation	1 1 1

CONDITION:

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#### ATTACHMENT 4 UNIT 2 RADIOLOGICAL EFFLUENTS

5.5

High	Radia	tion/Airborne Levels
EMERGE	ENCY C	LASSIFICATION:
Alert	:	
	MODES	All
CRITE	RIA:	
1.	The	loss of control of radioactive material results in ANY of the following:
	Α.	Containment radiation indicates >2R/hr
	В.	Area Radiation levels in controlled access (excluding containment) increase by 1 Rem/hr at 2 or more locations.
	С.	General area radiation levels outside of radiologically controlled areas increase by 10 ${\tt mRem/hr}$ .

D. Airborne levels as follows:

- Auxiliary Building >100 DAC (General Area)
- Turbine Building >10 DAC

NOTE: "Loss of Control" <u>Shall</u> be defined as: <u>Any</u> Radioactive material outside its normal system boundaries.

(For Example: Spent resin spill, RCS liquid spill, Spent fuel accident resulting in gaseous release, etc.)

RELATED EALS:

Radiological Effluents
Containment Radiation
Spent Fuel Damage
RCS Leakage

TAB

5

1

2

CONDITION:

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#### ATTACHMENT 4 UNIT 2 RADIOLOGICAL EFFLUENTS

Spent Fuel Accident	
MERGENCY CLASSIFICATION:	
Site Area Emergency	
MODES All	
RITERIA:	
RIIBRIA:	
The loss of water <u>OR</u> damage to a spent fuel assembly occurs Rx core (head removed), refueling canal, spent fuel pool, canaling pit, fuel tilt pit or any plant area involved in the movement or storage of spent fuel.	ask
AND	
2. Radiation levels increase to 10 R/hr by Area Radiation Moni 10 Rem/hr HP survey report.	tors or
RELATED EALS:	TAB
Radiological Effluents General Area Radiation/Airborne Miscellaneous	5 5 9

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#### ATTACHMENT 4 UNIT 2 SAFETY SYSTEM FUNCTION

6.1

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CON	u	_	-	_	$\sim$	Τ.*	•

Deviation from T.S. action statements when required to shutdown or cooldown or deviations pursuant to 10CFR50.54(x)

#### EMERGENCY CLASSIFICATION:

Notification of Unusual Event

MODES 1-4

#### CRITERIA:

- 1. <u>EITHER</u> of the following conditions exist:
  - A. Inability to reach required mode within Tech. Spec. limits.
  - B. Deviation from Tech Specs authorized pursuant to 10CFR50.54(x)

## 

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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#### ATTACHMENT 4 UNIT 2 SAFETY SYSTEM FUNCTION

Reactor Protection System Failure to Complete an Automatic Trip	
EMERGENCY CLASSIFICATION:	
Alert	
MODES1-2	
GDIMEDIA.	
CRITERIA:	
1. A valid RPS trip setpoint is exceeded	
AND	
2. Ten (10) or more CEAs fail to insert as result of the automatic t	trip
AND	
3. CEAs are inserted either by manual trip or DSS.	
and appropriate the second sec	TAB
RELATED EALS:	
RPS Failure Core Melt	1
Core Meit Core Damage/ICC	1

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

## **EMERGENCY ACTION LEVEL CLASSIFICATION**

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#### ATTACHMENT 4 UNIT 2 SAFETY SYSTEM FUNCTION

Reactor Protection System Failure to Complete a Manual Trip	
EMERGENCY CLASSIFICATION:	
Site Area Emergency	!
MODES 1-2	
CRITERIA:	
1. A valid RPS trip setpoint is exceeded	
AND	
2. Ten (10) or more CEAs fail to insert after the RPS, DSS and manual	al trip
(Example: 2B7 & 2B8 feeder breakers opened to insert CEAs due a failure of automatic and manual RPS trips.)	to
RELATED EALS:	TAB
Loss of or Challenge to 3 Fission Product Barriers	1
Core Melt	1
Core Damage/ICC	1

CONDITION:

#### PROCEDURE/WORK PLAN TITLE:

#### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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#### ATTACHMENT 4 UNIT 2 SAFETY SYSTEM FUNCTION

6.4

Loss of Dose Assessment Capabilities	
EMERGENCY CLASSIFICATION:	
Notification of Unusual Event	
MODES <u>All</u>	

#### CRITERIA:

- The following conditions exist in the Low Level Radwaste Building:
  - SPING is inoperable Α.
  - Compacting is in progress В.
  - Inability to obtain and analyze local grab samples every 2 hours. C.

OR

Reactor Building Purge penetration is not isolable and both the applicable 2. SPING and the Process Radiation Monitor are inoperable.

OR

- All of the following conditions exist for any source of gaseous effluents in 3. the Auxiliary Building, Auxiliary Extension Building, or Spent Fuel Storage Building ventilation systems.
  - Applicable SPING is inoperable Α.
  - Applicable Process Radiation Monitor is inoperable В.
  - Inability to obtain and analyze local grab samples every 2 hours. C.

RELATED EALS:		TAB
RESERVED TO THE PROPERTY OF TH		ļ
Communications,	Dose Assessment	6

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#### ATTACHMENT 4 UNIT 2 SAFETY SYSTEM FUNCTION

CONDITION:	
Loss of Communications	
EMERGENCY CLASSIFICATION:	
Notification of Unusual Event	
MODES All	
CRITERIA:	
1. Complete loss of ANY TWO of the following:	
A. Plant telephone systems (Commercial telephones and micr	owave)
B. Station Radio	
C. Emergency Notification System	
	<u> </u>
RELATED EALS:	TAB
None	

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#### ATTACHMENT 4 UNIT 2 SAFETY SYSTEM FUNCTION

CONDITION:	
Control Room Evacuation	
EMERGENCY CLASSIFICATION:	
Alert	
MODES All	
CRITERIA:	
	_
1. Control Room evacuation is expected to occur $\overline{OR}$ has already occur	red
RELATED EALS:	TAB
Control Room Evacuation	6
CONCLOT ROOM EVACUACION	
	<u> </u>

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# ATTACHMENT 4 UNIT 2 SAFETY SYSTEM FUNCTION

CONDITION:	
Control Room Evacuation and control of shutdown systems not established minutes.	in 15
EMERGENCY CLASSIFICATION:	
MERGENCI CHASSIFICATION.	
Site Area Emergency	
MODES 1-4	
CRITERIA:	
1. Control Room evacuation has occurred $\underline{AND}$ control of shutdown system established from local stations within 15 minutes.	ems is not
	TAB
RELATED EALS:	IAB
, , , , , , , , , , , , , , , , , , , ,	1
Core Damage/ICC	6
Decay Heat Removal Core Melt	1
COIE MEIC	
·	

CONDITION:

PROCEDURE/WORK PLAN TITLE:

Loss of Decay Heat Removal Capabilities

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# ATTACHMENT 4 UNIT 2 SAFETY SYSTEM FUNCTION

6.8

MEDC	ENCV C	LASSIFICATION:
MERG	ENCI C.	
Aler	t	
	MODES	5-6
RITE	RIA:	
1.	Loss	of Decay Heat Removal capabilities shall be identified as $\overline{ ext{ANY}}$ of the
		owing:
	_	RCS indicates saturated conditions
	Α.	
	в.	Loss of both shutdown cooling trains for >1 hr and S/G's not availabl
		for decay heat removal (NA if Fuel Transfer Canal >23 ft)

C. HPSI injection required for cooling the core

DELAMED EXIC.	TAB
Spent Fuel Accident Core Damage/ICC Radiological Effluents Loss of or Challenge to 3 Fission Product Barriers High Radiation/Airborne Core Melt	5 1 5 1 5 1

> RCS Leakage Core Melt

### PROCEDURE/WORK PLAN TITLE:

Loss of or Challenge to 3 Fission Product Barriers

### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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### ATTACHMENT 4 UNIT 2 SAFETY SYSTEM FUNCTION

CONDITION:	
Loss of Both S/Gs as a Heat Removal Method	
EMERGENCY CLASSIFICATION:	
Site Area Emergency	
MODES 1-4	
CRITERIA:	
1. ALL of the following conditions exist:	
A. S/G level in BOTH S/Gs is <70"	
AND	
B. ECCS Vent System is utilized	
RELATED EALS:	TAB
Containment Radiation	1

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### ATTACHMENT 4 UNIT 2 SAFETY SYSTEM FUNCTION

CONDITION:	
CONDITION	
Loss of Control Room Annunciators	
EMERGENCY CLASSIFICATION:	
Alert	
MODEO ALI	
MODES ALL	
CRITERIA:	
1. Loss of BOTH AC and DC power to 9 or more of the Control Room An	nunciator
Panels.	
DELAMED ENIC.	TAB
RELATED EALS:	
Loss of Control Room Annunciators with a Transient in progress	6
Electrical Power	4
Biectical lower	
	•

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# ATTACHMENT 4 UNIT 2 SAFETY SYSTEM FUNCTION

CONDITION:	
Loss of Control Room Annunciators with a Transient in Progress	
EMERGENCY CLASSIFICATION:	
Site Area Emergency	
MODESALL	
CRITERIA:	
CRITERIA:	
1. Loss of BOTH AC and DC power to 9 or more of the Control Room An	nunciator
AND	
2. A plant transient is initiated OR in progress. (See Section 4.1 procedure for the definition of a Plant Transient).	8 of this
	ma D
RELATED EALS:	TAB
Electrical Power	4
Biccollect force	
	_1

CONDITION:

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# ATTACHMENT 4 UNIT 2 HAZARDS TO STATION OPERATION

EMERGENCY CLASSIFICATION:  Notification of Unusual Event  MODESAll  CRITERIA:  1. Security threat onsite but outside the Protected Area Security Fence (e.g., attempted entry or sabotage which has been stopped outside the security fence).  or  2. A credible site-specific security threat notification.  RELATED EALS:  TAB  Security Threat  7	Security threat onsite but outside the Protected Area Security Fence (e attempted entry or sabotage which has been stopped outside the security	fence).
Notification of Unusual Event  MODESAll		
CRITERIA:  1. Security threat onsite but outside the Protected Area Security Fence (e.g., attempted entry or sabotage which has been stopped outside the security fence).  or  2. A credible site-specific security threat notification.  RELATED EALS:  TAB	EMERGENCY CLASSIFICATION:	
CRITERIA:  1. Security threat onsite but outside the Protected Area Security Fence (e.g., attempted entry or sabotage which has been stopped outside the security fence).  Or  2. A credible site-specific security threat notification.  RELATED EALS:  TAB	Notification of Unusual Event	
1. Security threat onsite but outside the Protected Area Security Fence (e.g., attempted entry or sabotage which has been stopped outside the security fence).  Or  2. A credible site-specific security threat notification.  TAB	MODES All	
1. Security threat onsite but outside the Protected Area Security Fence (e.g., attempted entry or sabotage which has been stopped outside the security fence).  Or  2. A credible site-specific security threat notification.  TAB		
attempted entry or sabotage which has been stopped outside the security remoty.  or  2. A credible site-specific security threat notification.  TAB	CRITERIA:	
2. A credible site-specific security threat notification.  RELATED EALS:  TAB	1. Security threat onsite but outside the Protected Area Security Fence attempted entry or sabotage which has been stopped outside the secur	(e.g., ity fence).
RELATED EALS:	or	
RELATED EALS:	2. A credible site-specific security threat notification.	
RELATED EALS:		
RELATED EALS:		
	RELATED EALS:	TAB
	Security Threat	7

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### 

CONDITION:	
Ongoing security threat within the Protected Area Security Fence but ou plant buildings.	tside of
EMERGENCY CLASSIFICATION:	
Alert	
MODES All	
CRITERIA:	
Same as the Condition stated above.	
RELATED EALS:	TAB
Security Threat	7
Fire or Explosion	7

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# ATTACHMENT 4 UNIT 2 HAZARDS TO STATION OPERATION

CONDITION:	
Ongoing security threat within plant buildings but not within the Contr vital areas.	ol Room or
EMERGENCY CLASSIFICATION:	
Site Area Emergency	
MODESAll	
CRITERIA:	
Same as the Condition stated above.	
RELATED EALS:	TAB
RELATED BALS.	
Security Threat	7 7
Fire/Explosion	

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# ATTACHMENT 4 UNIT 2 HAZARDS TO STATION OPERATION

CONDITION:	
Ongoing security threat within the Control Room or vital areas.	
EMERGENCY CLASSIFICATION:	
General Emergency	
MODES All	
CRITERIA:	
Same as the Condition stated above.	
RELATED EALS:	TAB
None	
	1

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# ATTACHMENT 4 UNIT 2 HAZARDS TO STATION OPERATION

CONDITION:	
Fire or Explosion Onsite	
EMERGENCY CLASSIFICATION:	
Notification of Unusual Event	ļ
MODES All	
CRITERIA:	
1. Fire within the Protected Area Security Fence which is not exting within 10 minutes.	guished
<u>OR</u>	
2. Explosion causing facility damage.	
	m. D
RELATED EALS:	TAB
Fire or Explosion	7 7
Security Threat	

CONDITION:

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# ATTACHMENT 4 UNIT 2 HAZARDS TO STATION OPERATION

Fire or Explosion Onsite affecting One Train of ESF Systems	
EMERGENCY CLASSIFICATION:	
Alert	
MODES All	
CRITERIA:	
1. Fire or explosion onsite	
AND	
2. A potential or actual loss of a single train of ANY ESF system as the fire or explosion.	s a result of
RELATED EALS:	TAB
Fire or Explosion Communications, Dose Assessment	7 6
Control Room Evacuation	6

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# ATTACHMENT 4 UNIT 2 HAZARDS TO STATION OPERATION

7.7

CONDITION:

Fire or Explosion Onsite affecting Both Trains of ESF Systems	
EMERGENCY CLASSIFICATION:	
Site Area Emergency	
MODES All	
CRITERIA:	
1. Fire or explosion onsite	
AND	
2. A potential or actual loss of Both trains of $\overline{\text{ANY}}$ ESF system as a the fire or explosion.	result of
RELATED EALS:	TAB
Communications, Dose Assessment	6
Control Room Evacuation	6

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# ATTACHMENT 4 UNIT 2 HAZARDS TO STATION OPERATION

7.8

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COND	_	_	-	$O_{\Gamma}$	

Aircraft Crash, Unusual Aircraft Activity, Train Derailment, Turbine failure, Toxic or Flammable Gas

#### EMERGENCY CLASSIFICATION:

Notification of Unusual Event

MODES \_\_All

#### CRITERIA:

- ANY of the following
  - A. Aircraft crash onsite
  - B. Unusual Aircraft activity over the facility
  - C. Train derailment onsite
  - D. Turbine rotating component failure causing rapid plant shutdown
  - E. Toxic or flammable gas release which limits or restricts access to areas required for security or safe operation of the plant.

# 

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CONDITION:  Aircraft Crash, Missiles, Toxic or Flammable Gas Affecting One Train of Systems	ESF
EMERGENCY CLASSIFICATION:	
Alert	
MODESAll	
CRITERIA:	
1. ANY of the following	
A. Aircraft crash onsite	
B. Missiles/Projectiles from any source	
C. Toxic or flammable gas release	
AND	
2. A potential $\overline{ ext{OR}}$ actual loss of a single train of $\overline{ ext{ANY}}$ ESF system	
RELATED EALS:	TAB
Fire or Explosion Other Hazards	7 7

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# ATTACHMENT 4 UNIT 2 HAZARDS TO STATION OPERATION

CONDITION:	
Aircraft Crash, Missiles, Toxic or Flammable Gas Affecting Both Redund Trains	dant ESF
EMERGENCY CLASSIFICATION:	
Site Area Emergency	
MODES All	
CRITERIA:	
1. ANY of the following	
A. Aircraft crash onsite	
B. Missiles/Projectiles from any source	
C. Toxic or flammable gas release	
AND	
2. A potential $\overline{OR}$ actual loss of $\overline{BOTH}$ trains of $\overline{ANY}$ ESF system	
RELATED EALS:	TAB
	7
Fire or Explosion	

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### ATTACHMENT 4 UNIT 2 NATURAL EVENTS

CONDIT	rion:		
Torna	ado, F	lood, Loss of Dardanelle Reservoir, Earthquake	
<u></u>			
EMERGI	ENCY C	LASSIFICATION:	
		on of Unusual Event	
NOCI			
	MODES	All	
_			
RITE	RIA:		
1.	<u>ANY</u>	of the following	
	A.	Tornado observed on the ground within the Exclusion Area	
	В.	Flood - Lake level $\geq 340$ ' elev. and rising with forecasted $\geq 350$ ' elev.	lake level
	C.	Low Level - Lake level $\leq 337'$ AND forecasted by U.S. Army C Engineers to reach 335'	orp of
	D.	Earthquake - VERIFIED earthquake accompanied by .01g alarm	
			TAB
RELAT	ED EA	uS:	TAB
Natu	ıral Ev	vents	8

CONDITION:

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### ATTACHMENT 4 UNIT 2 NATURAL EVENTS

8.2

į	Tornado,	High Winds, Flood, Loss of Dardanelle Reservoir, Earthquake
L	MEDGENCY	CLASSIFICATION:
Γ	Alert	
	MODE	S All
L	CRITERIA:	
	1. <u>AN</u>	of the following
	Α.	Tornado striking vital facility structures (e.g. housing ES related equipment)
	В.	High Winds - Sustained winds of $\geq 72$ mph (10 minute average as reported by RDACS from either the 10 or 57 meter instruments).
	C.	Flood - Flood waters $\geq 350^{\circ}$ and are forecasted by U.S. Army Corp of Engineers to reach or exceed 354 $^{\circ}$
.	D.	Low Level - Lake level <335' elevation
	E.	Earthquake - VERIFIED Earthquake accompanied by .1g alarm.

RELATED EALS:	TAB
Natural Events Loss of or challenge to all 3 Fission Product Barriers	8 1

Any natural event resulting in the potential or actual loss of  $\underline{\text{ONE}}$ 

OR

train of ANY ES system

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### ATTACHMENT 4 UNIT 2 NATURAL EVENTS

CONDITION:		
Tornado, Hi	gh Winds, Flood, Loss of Dardanelle Reservoir, Earthquake	
EMERGENCY CL	ASSIFICATION:	
Site Area E	mergency	
MODES	1-4	
CRITERIA:		
1. ANY C	f the following	
A.	High Winds - Sustained winds of >80 mph (10 minute average by RDACS from either the 10 or 57 meter instruments).	as reported
В.	Flood - Flood Water Level is >361' elev.	
С.	Low Level - Lake level $\leq 335'$ elev. and Emergency Cooling Poavailable.	ond not
D.	<u>VERIFIED</u> Earthquake >0.2g	•
E.	Tornado, high wind, flood, low lake level or earthquake restricted the potential or actual loss of $\underline{BOTH}$ trains of $\underline{ANY}$ ESF systems.	sulting in tem.
RELATED EALS	5:	TAB
Loss of or	challenge to all 3 Fission Product Barriers	1

PROC./WORK PLAN NO. 1903.010 PROCEDURE/WORK PLAN TITLE:

EMERGENCY ACTION LEVEL CLASSIFICATION

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### ATTACHMENT 4 UNIT 2 MISCELLANEOUS EVENTS

9.1

CONT	~ T	mm :	T 0	TE	
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Other plant conditions exist that warrant increased awareness on the part of the operating staff and state and/or local offsite authorities or involve other than normal controlled shutdown.

1	EMERGENCY CLA	ASSIFICATION:
	Notification	of Unusual Event
	MODES _	All

#### CRITERIA:

An event has occurred and the following conditions exist:

This event is not covered by any other EAL

#### AND

2. This event does not challenge or cause the loss of a fission product barrier

#### AND

3. In the judgement of the SM/TSC Director/EOF Director this event requires an increased awareness by the ANO Staff and offsite authorities.

DELATED EAIC.	TAB
RCS Activity RCS Leakage Primary to Secondary Leak Radiological Effluents T.S. L.C.O.'s Loss of Indications/Communications/Dose Assessment	1 2 3 5 6 6

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### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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### ATTACHMENT 4 UNIT 2 MISCELLANEOUS EVENTS

CONDITION:	
Other plant conditions exist that warrant precautionary activation of t Support Center and placing the near-site Emergency Operations Facility key emergency personnel on standby.	the Technical and other
EMERGENCY CLASSIFICATION:	
Alert	
MODES All	
CRITERIA:	
The following conditions must exist	
1. This event is not covered by any other EAL	
AND	
2. This event must either challenge or cause the loss of a fission barrier.	product
	TAB
RELATED EALS:	
RCS Activity	1
RCS Leakage	2
Primary to Secondary Leak	3 5
Radiological Effluents	6
Decay Heat Removal	
	1

### PROCEDURE/WORK PLAN TITLE:

### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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# ATTACHMENT 4 UNIT 2 MISCELLANEOUS EVENTS

9.3

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V.V.	u	_	_	_	$\overline{}$	T.A.	

Other plant conditions exist that warrant activation of emergency response facilities and monitoring teams or a precautionary notification to the public near the site.

#### EMERGENCY CLASSIFICATION:

Site Area Emergency

MODES \_\_All \_\_\_

#### CRITERIA:

The following conditions must exist

This event is not covered by any other EAL

AND

- 2. This event may cause ANY of the following:
  - A. Challenge to two fission product barriers
  - B. Failure of one fission product barrier and a challenge to another
  - C. Failure of 2 fission product barriers

RELATED EALS:	TAB
Core Damage/ICC Containment Radiation Decay Heat Removal Radiological Effluents RCS Leakage Primary to Secondary Leak	1 1 6 5 2 3

CONDITION:

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### ATTACHMENT 4 UNIT 2 MISCELLANEOUS EVENTS

Plant Conditions Exist That Make Release of Large Amounts of Radioacti	vity Possible
EMERGENCY CLASSIFICATION:	
General Emergency	
MODES All	
CRITERIA:	
RIIBRIA;	
The following conditions must exist	
1. This event is not covered by any other EAL	
AND	
<ol> <li>Events have occurred that make a release of large amounts of rad a short period of time possible.</li> </ol>	lioactivity in
	TAB
RELATED EALS:	
Core Melt	1
Loss of or Challenge to 3 Fission Product Barriers	1
Containment Radiation Radiological Effluents	5

### PROCEDURE/WORK PLAN TITLE:

### **EMERGENCY ACTION LEVEL CLASSIFICATION**

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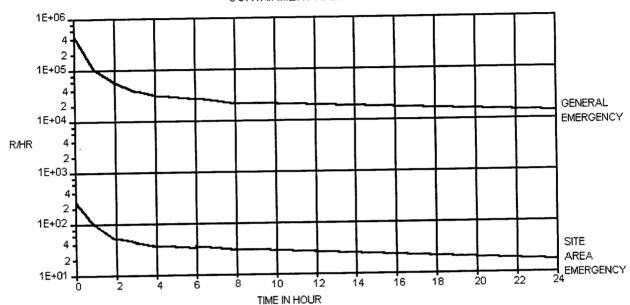
036-05-0

#### ATTACHMENT 5 UNIT 1

#### NOTE:

This graph corresponds with 1903.011 Attachment 7 (WITH Spray), SAE equals 1% Clad Failure and GE equals 50% Fuel Overheat.





### <u>INSTRUCTIONS</u>

#### CAUTION

- \* In the absence of a significant containment temperature transient, monitor readings should be considered valid.
- \* In the event of a significant containment temperature transient, monitor readings may be erratic for a short duration (Ref.IN-97-45, Supplement 1)

### A. Determine the containment radiation level.

- 1. If the plant has been operating at 100% for the past 30 days, use the reading from RE-8060 or RE-8061.
- 2. If the plant has been operating at less than 100% power for the past 30 days, determine the radiation level as follows:

Rad level = Reading from RE-8060 or RE-8061 X  $\frac{100\%}{\text{estimated ave. power for the past 30 days}}$ 

- B. Determine the time after shutdown (in hours).
- C. Find the intersection of the values from A and B on the graph.

D. Determine the emergency class.

- 1. SITE AREA EMERGENCY intersection is between the two curves
- 2. GENERAL EMERGENCY intersection is above the upper curve

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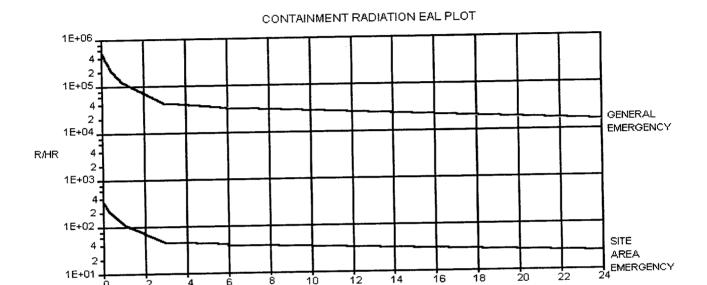
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#### ATTACHMENT 6 UNIT 2

#### NOTE:

This graph corresponds with 1903.011 Attachment 8 (WITH Spray), SAE equals 1% Clad Failure and GE equals 50% Fuel Overheat.



### INSTRUCTIONS

#### CAUTION

\* In the absence of a significant containment temperature transient, monitor readings should be considered valid.

TIME IN HOUR

- \* In the event of a significant containment temperature transient, monitor readings may be erratic for a short duration (Ref.IN-97-45, Supplement 1)
- A. Determine the containment radiation level.
  - 1. If the plant has been operating at 100% for the past 30 days, use the reading from 2RY-8925-1 or 2RY-8925-2.
  - 2. If the plant has been operating at less than 100% power for the past 30 days, determine the radiation level as follows:

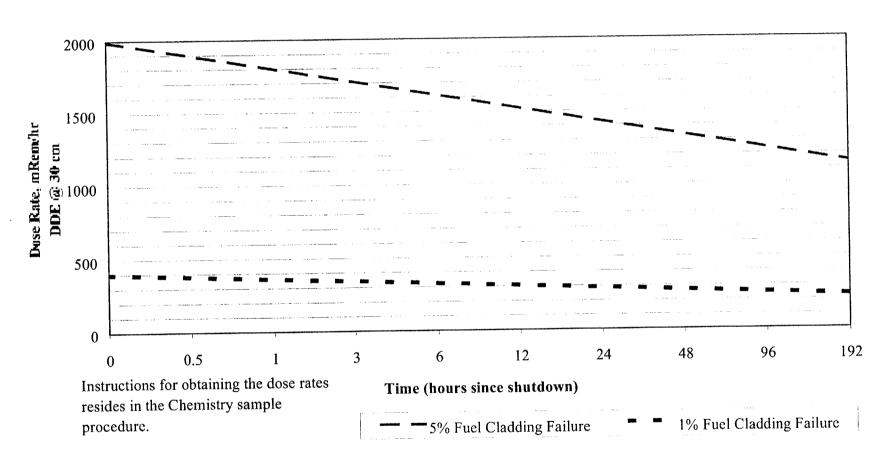
Rad level = Reading from 2RY-8925-1 or 2RY-8925-2 X 100% estimated ave. power for the past 30 days

- B. Determine the time after shutdown (in hours).
- C. Find the intersection of the values from A and B on the graph.
- D. Determine the emergency class.
  - 1. SITE AREA EMERGENCY intersection is between the two curves
  - 2. GENERAL EMERGENCY intersection is above the upper curve

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# Attachment 7 (0CNA08005) Unit 1 Fuel Cladding Failure Radiation Plot

mRem/hr at SA-229



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**EMERGENCY ACTION LEVEL CLASSIFICATION** 

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# Attachment 8 (0CNA08005) Unit 2 Fuel Cladding Failure Radiation Plot mRem/hr at 2TCD-19

