06/06/91

# PLIC SERVICE ELECTRIC & GASOMPANY DOCUMENT DISTRIBUTION NOTICE

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# ARTIFICIAL ISLAND SALEM EVENT CLASSIFICATION GUIDE MAY 30, 1991

#### CHANGE PAGES FOR REVISION #11

The Table of Contents forms a general guide to the current revision of each section of the Salem Event Classification Guide. The changes that are made in this TOC Revision #11 are shown below. Please check that your revision packet is complete and remove the outdated material listed below.

	ADD			REMOVE	
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3.	Site Area Emergency	2	8	Apr	26,	1991
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5.	Reserved					
6.	CM1 Log (UE/A/SAE)	7	8	Apr	26,	1991
7.	CM1 Log (GE)	7	8	Apr	26,	1991
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10.	One Hour Report - NRC/Region	1	5	July	27,	1990
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18.	Four Hour Report - Transportation Accident	1	6	July	27,	1990
19.	Twenty Four Hour Report - FFD	0	3	July	27,	1990
20.	Twenty Four Hour Report - NRC/OPS	2	5	July	27,	1990
21.	Reportable Event - LACT/MOU	Ó	2	May	26,	1989
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## April 26, 1991

	April 26, 1991	L				
SECTION	TITLE RI	EV.	PAGES		PECT	
i.	Introduction	0	4	May	26,	1989
ii.	Cross Reference - Event to Requirement	0	10	May	26,	1989
iii.	Cross Reference - Attachment to Events	4	1	Nov	2,	1990
1.	PRIMARY LEAKAGE/SG TUBE LEAKAGE	1	3 .	Sept	15,	1989
2.	SECONDARY LEAKAGE	0	1	May	26,	1989
3.	FAILURE TO TRIP/RPS PROBLEMS	1	2	Nov	2,	1990
4.	LOSS OF DECAY HEAT REMOVAL	0	2	May	26,	1989
5.	FUEL DAMAGE/DEGRADED CORE	1	2	Sept	15,	1989
6.	FISSION PRODUCT BOUNDARY FAILURE	0	1	May	26,	1989
7.	RADIOLOGICAL RELEASES/OCCURRENCES	0	5	May	26,	1989
8.	NON-RADIOACTIVE LEAK/SPILL (toxic gas, oil spill, hazmat)	1	2	Sept	15,	1989
9.	ELECTRICAL POWER FAILURE	1	2	Mar	2,	1990
10.	LOSS OF INTRUMENTS/ALARMS/COMMUNICATIONS	2	2	Apr	26,	1991
11.	CONTROL ROOM EVACUATION	0	1	May	26,	1989
12.	QUAKE/STORMS (earthquake, wind, floods, etc)	0	6	May	26,	1989
13.	SITE HAZARDS (aircraft crash, missiles, explosions, etc.	0	5	May	26,	1989
14.	FIRE	0	1	May	26,	1989
15.	PERSONNEL EMERGENCIES/MEDICAL	0	2	May	26,	1989
16.	SECURITY EVENTS/FFD	3	3	July	27,	1990
17.	PUBLIC INTEREST ITEMS	1	3	Sept	29,	1989
18.	TECH SPECS/PLANT STATUS CHANGES	3	6	Nov	2,	1990

## SIGNATURE PAGE

Prepared By:(If Edito	D. FAWCE prial Revisions Only,	Last Approve	ed Revision)	3/18/91 Date
Reviewed By:	Station Qualifi	Yunned Reviewer	<del></del>	3/26/91 Date
Significant Sa () Yes () no Reviewed By:	afety Issue Departmen	Talique t Manager	<del></del>	<u>4/3/9/</u> Date
Reviewed By:	Emergency Prepare	dness Manager		3-27-5/ Date
Reviewed By:	al Manager - Quality	// Assurance/Saf licable)	ety Review	Date
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Mtg. No.	Salem Chairman	Mtg. No.	Hope Creek	Chairman
	4/3/9/ Date			Date
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General Manage	er - Salem	General Man	ager - Hope	Creek
	<u>4/3/9/</u> Date			Date

# CROSS REFERENCE EVENT TO REQUIREMENT DOCUMENT SECTION ii

Initiat	Initiating Event/Condition Reference*				
1. Pri	mary Leakage/SG Tube Leakage	•			
Α.	PZR Safety/PORV failure to reseat	UE 6			
В.	Primary Leak exceeding T/S limits resulting in Unit shutdown	UE5			
С.	Primary Leak > 50 GPM	A5			
D.	Primary Leak (LOCA)> total MU capacity	SAEl			
Ε.	Primary to Secondary leak exceeding T/S LCO.	UE5			
F.	Primary to Secondary Leak (several hundred GPM)	A3			
G.	Primary to Secondary Leak with a faulted SG.	A4			
н.	Primary to Secondary Leak with loss of offsite power	A2			
I.	Primary to Secondary Leak >50 gpm with a faulted SG and indicated fuel damage	SAE5			
J.	Primary to Secondary Leak (several hundred GPM) with loss of offsite power	SAE3			

<sup>\*</sup> Unless otherwise identified, references are as outlined in Appendix 1, NUREG-0654
Only Initiating Event/Condition references for Emergency Classes UE - GE are listed here. Non-emergency references are included in the sections themselves.

Ini	tiat	ing Event/Condition	Reference
2.	Sec	ondary Leakage	
	Α.	SG Safety/MS-10 failure to reseat	UE 6
	В.	Faulted SG causing a rapid uncontrolled secondary depressurization	UE17
3.	Fai	lure to trip/RPS problems	
	Α.	Failure of the RPS to in- itiate and complete a trip which brings the Rx subcritical	A11
	В.	Failure of the RPS to automatically, or by operator action to manually, initiate and complete a trip which brings the Rx subcritical	SAE9
	c.	Transient requiring operation of shutdown systems with failure to trip, resulting in core damage or additional failure of core cooling and makeup systems	GE5c
4.	Loss	s of decay heat removal	•
	<b>A</b> •	Complete loss of any function needed for cold shutdown	A 10
	В.	Complete loss of any function needed for hot shutdown	SAE8
	С.	Transient initiated by loss of Feed and Condensate followed by failure of Aux Feed for extended period (core damage possible in several hours)	GE5b

# 5. Fuel Damage/Degraded Core

		- · · · · · · · · · · · · · · · · · · ·	
	Α.	Fuel damage indications	UE3b UE3c
	В.	Fuel damage resulting from a RCP seizure	A9
	С.	Severe loss of fuel cladding	Alb Alc
	D.	Degraded core with possible loss of coolable geometry	SAE2
	Ε.	Fuel handling accident with release to FHB or Containment	A12
	F.	Major damage to irradiated fuel in Containment or Fuel Handling Building (FHB)	SAE10
6.	Fis	ssion Product Boundary Failures(2/3)	
•	Α.	Severe loss of fuel cladding	GE 2
	В.	Loss of Primary Coolant	GE 2
	С.	Containment failure	GE 2
7.	Rac	diological Releases	
	Α.	Transport of a contaminated individual from site to off-site medical facility	UE16
<b>.</b> .	В.	Loss, theft or diversion of any special nuclear material onsite	UE12 10CFR70.52

#### Initiating Event/Condition

#### Reference

A6

### Radiological Releases/Occurrences (cont'd)

- C. Increase in measured or calculated dose rate (mR/hr) or
  airborne activity level by
  > 1000 times (indication of
  severe degradation in control
  of radioactive materials).
- D. Liquid release that exceeds UE2 T/S limits for > 15 min.
- E. Gaseous release that exceeds UE2
  T/S limits for > 15 min.
- F. Gaseous release that exceeds
  10 times T/S limits for >
  15 min.
- G. Dose Rate at Minimum Exclusion
  Area (MEA) equivalent to 5000
  mR/hr WB or 2500 mR/hr thyroid
  for > 2 min. (MEA is defined as
  any monitoring location greater
  than 0.79 miles away from the
  affected unit).
- H. Dose Rate at Minimum Exclusion GE1 Area (MEA) equivalent to lR/hr WB or 5 R/hr thyroid.

#### Nonradioactive Leak/Spill

- A. Toxic or flammable gas release that threatens plant personnel.
- B. Toxic or flammable gas release entering vital areas.
- C. Toxic or flammable gas release entering into vital areas where lack of access constitutes a safety problem

UE14d

Al8d

SAE16c

<u> Initi</u>	ating Event/Condition	Reference
9. E1	ectrical/Power Failure	
A	<ul> <li>Loss of onsite A.C. Power capability that requires Unit Shutdown.</li> </ul>	UE7
В	. Loss of all offsite power.	UE7
С	<ul> <li>Loss of all offsite power and loss of most onsite A.C. Power.</li> </ul>	A7
D	<ul> <li>Loss of all offsite power and loss of most onsite</li> <li>A.C. Power for an extended period of time.</li> </ul>	SAE 6
E	. Total loss of all A.C. Power.	SAE6
F	<ul> <li>Total loss of all A.C. Power with total loss of auxiliary Feedwater capability for several hours.</li> </ul>	GE5d
G	. Loss of all onsite DC Power	A8
Н	<ul> <li>Loss of all onsite DC power for &gt; 15 min.</li> </ul>	SAE7
	oss of Instruments/Alarms/ommunications	
A	<ul> <li>Indications or alarms on process or effluent parameters not functional in Control Room or loss of asessment or com- munications capability.</li> </ul>	UEll
В	. Loss of all or most OHAs	A14
c	<ul> <li>Loss of all or most OHAs and plant transient initiated or in progress</li> </ul>	SAE12
11. C	ontrol Room Evacuation	
A	<ul> <li>Evacuation of Control Room anticipated or required.</li> </ul>	A20

<u>Init</u>	Reference		
11.	Со	ntrol Room Evacuation (Cont'd)	
	В.	Evacuation of Control Room completed with control of S/D systems not established locally within 15 minutes.	SAE18
12.	Ea	rthquake/Severe Weather	
	<b>A</b> •	Earthquake/seismic event felt in-plant or instrument detected	UE13a
	В.	Earthquake/seismic event greater than Operating Basis Earthquake (OBE)	AL17a
	С.	Earthquake/seismic event greater than Design Basis Earthquake (DBE)	SA15a
	D.	Flood: Water level in river near design basis.	UE13b
	Ε.	Flood: Water level in river greater than design basis.	AL17b
	F.	Flood: Water level in river high.	SAl5b
	G.	Water level in river low	UE13b
	Н.	Water level in river low near design basis	AL17b
	I.	Water level in river lower than design basis	SAl5b
	J.	Hurricane/unusual wind indicated by met tower instrumentation	UE13d
	К.	Hurricane/unusual wind indicated by met tower instrumentation-near design basis	AL17d
	L.	Hurricane/unusual wind indicated by met tower instrumentation-greater than design basis	SAl5c
	М.	Tornado funnel observed, within MEA	UE13c

<u>Ini</u>	Initiating Event/Condition			
12.	Ea	rthquake/Severe Weather (cont'd)		
	N.	Tornado funnel observed within the protected area	Al7c	
	0.	Tornado funnel observed, affecting plant structures	SA5c	
	P.	Any major internal or external events (e.g., floods, earthquakes, substantially beyond design basis) which could cause massive common damage to plant systems which would result in a General Emergency.	GE7	
13.	Sit etc	e Hazards (explosions, crashes,		
	Α.	Aircraft unusual activity over Facility or crash occurring in the MEA	UEl4a	
	В.	Aircraft crash occurring within the Protected Area	Al8a	
	С.	Aircraft crash affecting Plant Structures	SAEl6a	
	D.	Turbine rotating component failure	UE14e	
	Ε.	Turbine rotating component failure causing casing penetration	A18e	
	F.	Missile impact onsite from any source within the Protected Area.	A18b	
	G.	Missile impact onsite damaging a Plant Struc-ture	SAE16b	

## Initiating Event/Condition Reference 13. Site Hazards (explosions, crashes, etc.) (cont'd) H. Unplanned explosion af-UE14c fecting plant operations I. Unplanned explosion Al8c potentially compromising the function of one or more safety systems or normal operation of the plant J. Unplanned explosion com-SAE16b promising the function of one or more safety sytems K. Any major internal or ex-GE7 ternal events (e.g., crashes, explosions, substantially beyond design basis) which could cause massive common damage to plant systems which would result in a General Emergency 14. Fire A. Fire lasting > 10 min that UE10 affects plant operations A13 B. Fire potentially compromising the function of one or more safety systems C. Fire compromising the SAEll function of one or more safety systems D. Any major fire (substantially GE7 beyond design basis) which could cause massive common damage to safety systems. 15. Personnel Emergencies UE16 A. Transport of a contaminated individual from site to offsite medical facility.

Initiating Event/Condition	Reference
16. Security Events	
A. Loss, theft or diversion of any special nuclear material onsite	UE12 10CFR70.52
B. Substantiated threat, attempted entry or discovery of a suspected destructive device or evidence of a malicious act.	UE12
C. Security Alert	UE12
D. Substantiated threat, attempted entry or dis-dovery of a suspected destructive device or evidence of a malicious act with a Security Alert declared.	A16
E. Ongoing security compromise	Al6
F. Ongoing security compromise involving imminent loss of physical control of the plant.	SAE14
G. Ongoing security compromise resulting in the loss of physical control of the plant.	GE3
17. Public Interest Items	
A. Any plant conditions that warrant increased awareness on the part of STATE/LOCAL authori- ties.	UE15
B. Any plant conditions that warrant precautionary activation of the TSC and placing EOF and other key emergency personnel on standby.	A19

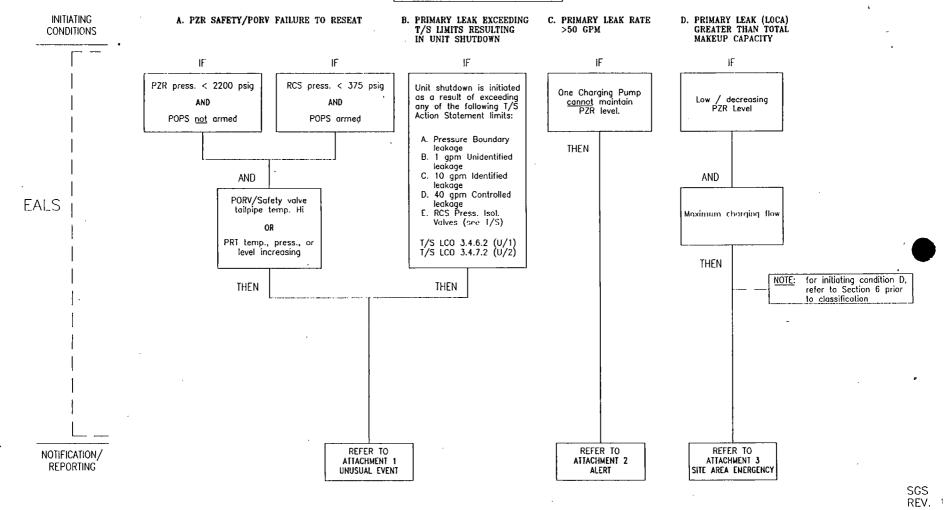
Initiating Event/Condition		Reference
с.	Any plant conditions that warrant precautionary activation of the TSC and EOF and precautionary notification to the general public	SAE17
18. Tech. Specs/Plant Status Changes		
A.	Unit shutdown initiated to comply with certain T/S LCO's.	UE3, UE4, UE5, UE7, UE8
В.	Exceeding any T/S Safety Limit	UE4 Tech. Spec 2.1 and 6.7.1
С.	Manual or automatic ECCS actuation with discharge to the vessel.	UEl
D.	Liquid Release that exceeds T/S limits for $\geq$ 15 mins.	UE 2
Е.	Gaseous Release that exceeds $T/S$ limits for $\geq 15$ mins.	UE2

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## SECTION 1

# PRIMARY LEAKAGE / SG TUBE LEAKAGE PRIMARY LEAK / LOCA

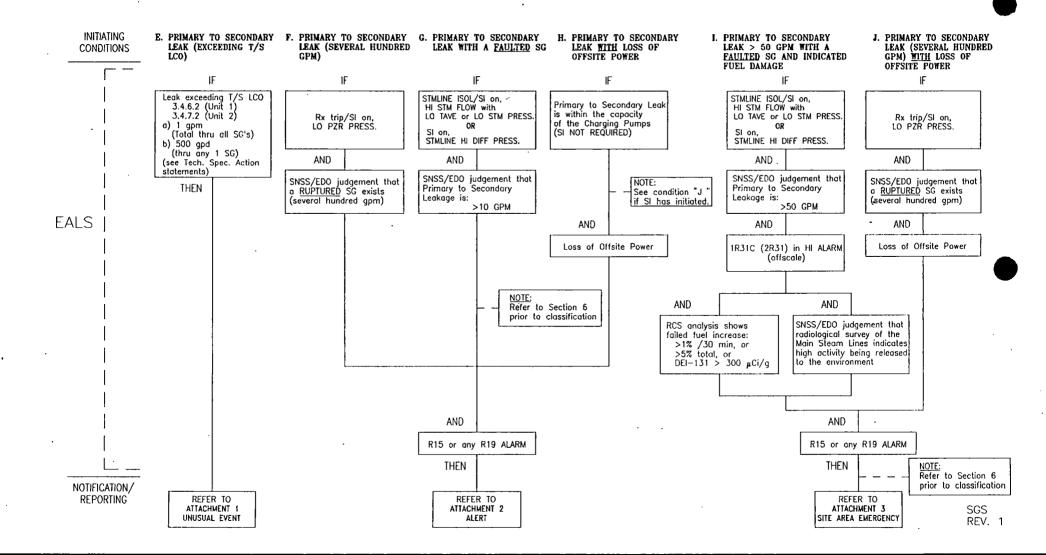
NOTE: Refer to Page 2 for suspected Primary to Secondary Leakage



#### ECG SECTION : Pg 2 of .

## SECTION 1

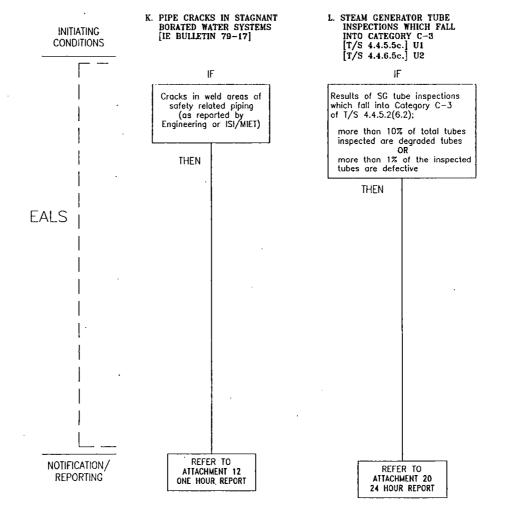
# PRIMARY LEAKAGE / SG TUBE LEAKAGE PRIMARY TO SECONDARY LEAKAGE



# SECTION 1

# PRIMARY LEAKAGE / SG TUBE LEAKAGE PRIMARY LEAK

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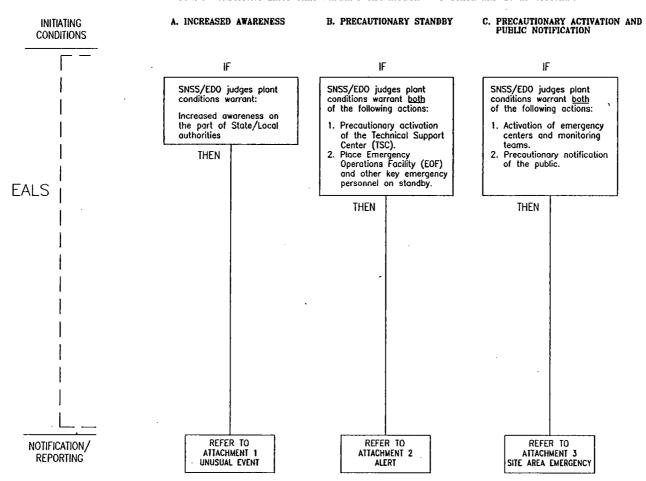


SGS REV. 1 SECTION 17

# PUBLIC INTEREST

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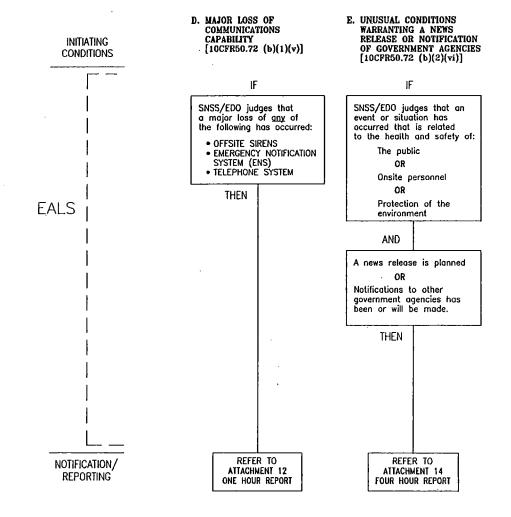
#### PLANT CONDITIONS EXIST THAT WARRANT THE ALERTING OF STATE AND LOCAL OFFICIALS



## SECTION 17

# PUBLIC INTEREST

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## SECTION 17

# PUBLIC INTEREST

