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50-272  
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PRC SECG-ATT.08 000	6	A	1	H	83776
PRC SECG-SECG-TOC 000	25	A	1	H	83735
PRC SECG-SECG-TOC-BASIS 000	7	A	1	H	83816
PRC SECG-SECT.09.1 (BASIS) 000	1	A	1	H	83856

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A001

SALEM GENERATING STATION  
EVENT CLASSIFICATION GUIDE  
October 10, 2000

PSE&G  
CONTROL  
COPY # SECG 0101

CHANGE PAGES FOR  
REVISION #25

The Table of Contents forms a general guide to the current revision of each section and attachment of the Salem ECG. The changes that are made in this TOC Revision #25 are shown below.

1. Check that your revision packet is complete.
2. Add the revised documents.
3. Remove and recycle the outdated material listed below.

ADD			REMOVE		
<u>Pages</u>	<u>Description</u>	<u>Rev.</u>	<u>Pages</u>	<u>Description</u>	<u>Rev.</u>
ALL	TOC	25	ALL	TOC	24
All	Attachment 8	06	All	Attachment 8	05

REVISION SUMMARY:

1. Attachment 8 - Corrected typographical error.

PSE&G  
CONTROL  
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ECG  
T.O.C.  
Pg. 1 of 4

SALEM EVENT CLASSIFICATION GUIDE  
TABLE OF CONTENTS/SIGNATURE PAGE

SECCG0101

<u>SECTION</u>	<u>TITLE</u>	<u>REV #</u>	<u>PAGES</u>	<u>DATE</u>
T.O.C.	Table of Contents/Signature Page	25	4	10/10/00
i	Introduction and Usage	01	11	06/29/00
ii	Glossary of Acronyms & Abbreviations	00	6	01/21/97
iii	Critical Function Status Trees (CFSTs), Unit 1	21	7	04/16/98
	Critical Function Status Trees (CFSTs), Unit 2	23	6	08/19/97
1.0	<b>Fuel Clad Challenge</b>	00	1	01/21/97
2.0	<b>RCS Challenge</b>	00	1	01/21/97
3.0	<b>Fission Product Barriers (Table)</b>	00	1	01/21/97
4.0	<b>EC Discretion</b>	00	1	01/21/97
5.0	<b>Failure to TRIP</b>	00	1	01/21/97
6.0	<b>Radiological Releases/Occurrences</b>			
	6.1 Gaseous Effluent Release	00	4	01/21/97
	6.2 Liquid Effluent Release	00	1	01/21/97
	6.3 In Plant Radiation Occurrences	00	1	01/21/97
	6.4 Irradiated Fuel Event	00	2	01/21/97
7.0	<b>Electrical Power</b>			
	7.1 Loss of AC Power Capabilities	00	2	01/21/97
	7.2 Loss of DC Power Capabilities	00	1	01/21/97
8.0	<b>System Malfunctions</b>			
	8.1 Loss of Heat Removal Capability	00	2	01/21/97
	8.2 Loss of Overhead Annunciators	00	1	01/21/97
	8.3 Loss of Communications Capability	00	1	01/21/97
	8.4 Control Room Evacuation	00	1	01/21/97
	8.5 Technical Specifications	00	1	01/21/97
9.0	<b>Hazards - Internal/External</b>			
	9.1 Security Threats	00	1	01/21/97
	9.2 Fire	00	1	01/21/97
	9.3 Explosion	00	1	01/21/97
	9.4 Toxic/Flammable Gases	00	2	01/21/97
	9.5 Seismic Event	00	1	01/21/97
	9.6 High Winds	00	1	01/21/97
	9.7 Flooding	00	1	01/21/97
	9.8 Turbine Failure/Vehicle Crash/ Missile Impact	00	1	01/21/97
	9.9 River Level	00	1	01/21/97
10.0	Reserved for future use	N/A		
WC	<b>Salem ECG Charts (Located In ERFs)</b>	00	2	01/21/97
SGS				

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<u>SECTION</u>	<u>TITLE</u>	<u>REV #</u>	<u>PAGES</u>	<u>DATE</u>
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Licensing is responsible for the Reportable Action Level (Section 11) and associated Attachments (marked by "L")

11.0	<b>Reportable Action Levels (RALs)</b>			
11.1	Technical Specifications	00	3	01/21/97
11.2	Design Basis/ Unanalyzed Condition	00	2	01/21/97
11.3	Engineered Safety Features (ESF)	01	1	08/28/97
11.4	Personnel Safety/Overexposure	00	2	01/21/97
11.5	Environmental	00	1	01/21/97
11.6	After-the-Fact	00	1	01/21/97
11.7	Security/Emergency Response Capabilities	01	1	03/13/97
11.8	Public Interest	00	1	01/21/97
11.9	Accidental Criticality/ Special Nuclear Material/ Rad Material Shipments - Releases	01	2	08/15/00
11.10	Voluntary Notifications	00	1	01/21/97

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Licensing is responsible for the Reportable Action Level (Section 11)  
and associated Attachments (marked by "L")

<u>ATTACHMENT</u>	<u>TITLE</u>	<u>REV #</u>	<u>PAGES</u>	<u>DATE</u>
1	UNUSUAL EVENT	03	2	02/29/00
2	ALERT	03	2	02/29/00
3	SITE AREA EMERGENCY	03	2	02/29/00
4	GENERAL EMERGENCY	04	5	02/29/00
5	L NRC Data Sheet Completion Reference	01	7	07/22/99
6	Primary Communicator Log	14	8	08/15/00
7	Primary Communicator Log (GE)	deleted		02/29/00
8	Secondary Communicator Log	06	9	10/10/00
9	L Non-Emergency Notifications Reference	13	3	08/15/00
10	L 1 Hr Report - NRC Regional Office	00	3	01/21/97
11	L 1 Hr Report (Common Site) Security/Safeguards	00	3	01/21/97
12	L 1 Hr Report - NRC Operations	00	3	01/21/97
13	L 4 Hr Report - Contaminated Events Outside Of The RCA	00	7	01/21/97
14	L 4 Hr Report - NRC Operations	01	3	05/01/98
15	L Environmental Protection Plan	01	3	03/13/97
16	L Spill / Discharge Reporting	01	7	03/29/00
17	L 4 Hr Report - Fatality or Medical Emergency	00	4	01/21/97
18	L 4 Hr Report - Radiological Transportation Accident	01	4	05/12/97
19	L 24 Hr Report - Fitness For Duty (FFD) Program Events	01	3	05/12/97
20	L 24 Hr Report - NRC Regional Office	00	3	01/21/97
21	L Reportable Event - LAC/ Memorandum Of Understanding (M.O.U.)	00	2	01/21/97
22	L T/S Required Engineering Evaluation	00	2	01/21/97
23	Reserved			
24	UNUSUAL EVENT (Common Site)	05	3	02/29/00
25	1 Hr Report (Common Site) - Major Loss of Emergency Assessment, Offsite Response, <u>OR</u> Communications Capability	01	3	07/22/99

**SIGNATURE PAGE**

Prepared By: William J. DeStefano, Rev 0 09/21/2000  
(If Editorial Revisions Only, Last Approved Revision) Date

Section/Attachments Revised: N/A \_\_\_\_\_  
(List Non Editorial Only - Section/Attachments) Date

Reviewed By: N/A \_\_\_\_\_  
Station Qualified Reviewer Date

Reviewed By: N/A \_\_\_\_\_  
Department Manager Date

Reviewed By NA \_\_\_\_\_  
Manager - Licensing Date  
(Reportable Action Level (Section 11) and associated Attachments marked by "L")

Reviewed By  10-2-00  
Manager - EP & IT Date

Reviewed By N/A \_\_\_\_\_  
Manager - Quality Assessment - NBU Date  
(If Applicable)

**SORC Review and Station Approvals**

N/A  
Mtg. No. Salem Chairman

N/A  
Vice President Nuclear Operations

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

Effective Date of this Revision: 10/10/00  
Date

**ATTACHMENT 8**

**SECONDARY COMMUNICATOR LOG**

Table of Contents

<u>Pages</u>	
1 - 2	Notifications & Data Collection/Transmission
3 - 4	Incoming Calls (BNE, DEMA, OEM, AAAG, etc.)
5	Major Equipment & Electrical Status (MEES) form
6	Operational Status Board (OSB) form
7 - 8	Station Status Checklist (SSCL) form
9	Common Site UNUSUAL EVENT – Station Status Checklist form

**PSE&G  
CONTROL  
COPY # SECG0101**

Emergency Classification: (circle)	UE	ALERT	SAE	GE
Name: _____		Position: CM2 /TSC2/ EOF2		
(Print)		(circle)		

**A. NOTIFICATIONS**

**NOTE**

A new Attachment 8 is required to be implemented if the classification or protective action recommendation (PAR) changes.

- |  |                 |
|--|-----------------|
|  | <u>Initials</u> |
| 1. OBTAIN a copy of Attachment 6 and ASSIST Primary Communicator with 15-minute notifications, as necessary.   | _____           |
|  | CM2/TSC2/EOF2   |
| 2. DIRECT the Shift Rad Pro Tech (SRPT) (x2644) to implement <b>SC.EP-EP.ZZ-0301(Q)</b> , Shift Radiation Protection Technician Response. (N/A for Common Site). |                 |
| Name: _____ Time: _____  | _____           |
|  | CM2             |
| 3. <u>For an ALERT or higher emergency;</u>  |                 |
| ( ) a. CALLOUT an additional SRO and have him/her report to the OSC.   |                 |
| Name: _____ Time: _____  | _____           |
|  | CM2             |
| b. ACTIVATE <b>ERDS</b> within 60 minutes from the Affected Unit's SPDS terminal;  |                 |
| 1) PRESS <UNIT MASTER MENU> key.   |                 |
| 2) PRESS <ERDS> key.   |                 |
| 3) FOLLOW screen prompts.  |                 |
|  | _____           |
|  | CM2             |

Initials

**A. NOTIFICATIONS (cont'd)**

4. OBTAIN a copy of the **ICMF** and FAX the ICMF to Group A. \_\_\_\_\_  
CM2/TSC2/EOF2
5. COMPLETE a **Station Status Checklist (SSCL)** Form, Pg. 7 or Common Site **UNUSUAL EVENT Station Status Checklist (SSCL)** Form, Pg. 9;
- ( ) a. OBTAIN OS (TSS/SSM) assistance, as needed for SSCL Pg.1.
  - ( ) b. OBTAIN SRPT (RAC/RSM) assistance, as needed for SSCL Pg.2. (N/A for Common Site)
  - ( ) c. FAX to Group B.
  - ( ) d. IF fax transmission of the SSCL is incomplete, THEN CONTACT the State Agencies listed below, READ the data, AND DOCUMENT on SSCL, Pg. 2.

<b>DEMA</b>	Delaware Emergency Management Agency	302-659-2290	
<b>BNE</b>	NJ Bureau of Nuclear Engineering	609-984-7700	_____ CM2/TSC2/EOF2

6. OBTAIN completed **NRC Data Sheet** from the CM-1, and FAX form to Group B. \_\_\_\_\_  
CM2/TSC2/EOF2

7. REPEAT Step 5 approximately every half hour OR IMMEDIATELY for significant changes in Station status, until either Turnover or relief. \_\_\_\_\_  
CM2/TSC2/EOF2

8. TURNOVER responsibility for offsite notifications and offsite data updates (SSCLs) to the oncoming facility (TSC or EOF);
- ( ) a. GIVE names and phone numbers of contacts already made with any Offsite Agencies.
  - ( ) b. GIVE time for next SSCL. \_\_\_\_\_  
CM2/TSC2

9. IF available for other duties AND TSC turnover is complete, THEN obtain headset, MAN the Ops Data line and CONTACT the TSC ops advisor and establish an open line of communication from the control room to the TSC. \_\_\_\_\_  
CM-2

**B. DATA COLLECTION/TRANSMISSION**

1. WHEN in an ALERT or higher emergency OR AFTER significant changes in plant status; THEN COMPLETE the **Major Equipment and Electrical Status (MEES)** Form.
- ( ) a. OBTAIN Licensed Operator review.
  - ( ) b. GIVE a copy to the OSC Coordinator.
  - ( ) c. FAX to Group C. \_\_\_\_\_  
CM2

Initials

**B. DATA COLLECTION/TRANSMISSION (cont'd)**

2. IF requested by the TSC,  
THEN COMPLETE the **Operational Status Board (OSB)** Form every 15 minutes,  
(TSS may modify the frequency or data list as appropriate)

- a. OBTAIN Licensed Operator review.
- b. FAX to Group C.

\_\_\_\_\_ CM2

3. ENSURE the Facility OSB and MEES Status Boards are updated as follows:

- a. OBTAIN OSB Data from **SPDS** "Unit Master Menu."
- b. IF SPDS is Out of Service,  
THEN REQUEST CM2 to perform step B.2, above. (data set and frequency  
of updates may be revised by the TSS based on event circumstances)
- c. WHEN significant changes in plant status occur,  
THEN REQUEST CM2 to perform step B.1, above.

\_\_\_\_\_ TSC2/EOF2

4. WHEN the emergency is terminated,  
THEN FORWARD this document and all completed Forms to the OS (TSS/SSM).

\_\_\_\_\_ CM2/TSC2/EOF2

**C. INCOMING CALLS**

STATE OFFICIALS

1. IF Notifications authority has transferred,  
THEN DIRECT the caller to contact the TSC (or EOF if activated).

\_\_\_\_\_ CM2/TSC2

2. WHEN contacted by any State Agency Officials (listed here),

- DEMA** - Delaware Emergency Management Agency
- AAAG** - Delaware Accident Assessment Advisory Group
- BNE** - NJ Bureau of Nuclear Engineering
- DEP** - NJ Department of Environmental Protection
- OEM** - NJ Office of Emergency Management

PERFORM the following:

a. OBTAIN and RECORD;

<u>Agency</u>	<u>Caller's Name</u>	<u>Phone #</u>
_____	_____	_____
_____	_____	_____

b. READ the latest EC approved SSCL.

Initials

C. INCOMING CALLS (cont'd)

STATE OFFICIALS

- ( ) c. IF caller is NJ-BNE, DEMA, or AAAG,  
THEN also READ the approved NRC Data Sheet Event Description.

CM2/TSC2/EOF2

NEWS MEDIA

**CAUTION**

**Communicators are NOT authorized to release any information to the News Media.**

3. WHEN contacted by any News Media representative,  
READ the appropriate message below:

- ( ) a. IF the ENC is not activated (Unusual Event), say;

**“You are requested to contact the Nuclear Communications Office  
at the following number: 856-339-1186.”**

- ( ) b. IF the ENC is activated (ALERT or higher), say;

**“You are requested to contact the Media Information Operator at  
any of the following numbers: 856-273-0188, -0282, -0479, or -  
0586.”**

CM2/TSC2/EOF2

NRC OPERATIONS CENTER

4. WHEN directed by the NRC to TERMINATE ERDS transmission,  
THEN GO TO any SPDS terminal of the affected Unit AND PROCEED as follows:

- a. PRESS <UNIT MASTER MENU> key.
- b. PRESS <ERDS> key.
- c. FOLLOW screen prompts.
- d. WHEN completed, NOTIFY the OS.

CM2

**SALEM UNIT**

DATE: \_\_\_\_\_  
UPDATE TIME: \_\_\_\_\_

**MAJOR EQUIPMENT AND ELECTRICAL STATUS**

NOTE: Y = IN SERVICE N = OUT OF SERVICE (CIRCLE ANY UNAVAILABLE EQUIPMENT)			ECCS SYSTEMS		ELECT. FEED	Y/N	CONTAINMENT CONTROL		ELECT. FEED	Y/N	
			CHARGING PUMPS	1	B9D		CONT. SPRAY PUMPS	1	A2D		
				2	C9D			2	C2D		
				3	A7X		CFCU		HI		LOW
			SAFETY INJ PUMPS	1	A5D		1	A3X A4X	A2X		
				2	C5D		2	B3X B4X	B2X		
			RHR PUMPS	1	A7D		3	C3X C4X	C2X		
				2	B7D		4	B7X B8X	B6X		
							5	C7X C8X	C6X		
			ELECTRICAL STATUS				Y/N				
AUX FD PUMPS		ELECT. FEED	Y/N	OFFSITE AC POWER AVAILABLE				ELECT. FEED	Y/N		
	1	A1D		EMERGENCY DIESELS	RUN	LOADED	IODINE REMOVAL		1	G7X	
	2	B1D		EDG	A		H <sup>2</sup> RECOM		2	E7X	
	3	STM.			B				1	A15X	
SERVICE WATER PUMPS	1	3D			C				2	B15X	
	2	8D		#3 GAS TURBINE			MISC. EQUIPMENT				Y/N
	3	B3D		ELEC DISTRIBUTION AVAILABLE?	Y/N		FIRE PUMPS (DIESEL)		1		
	4	B8D		VITAL BUS	A				2		
	5	3D			B		STATION AIR COMP.		ELECT. FEED	Y/N	
	6	8D			C				1	1H6D	
COMP. COOLING PUMPS	1	A10D		GROUP BUS	E				2	2G1D	
	2	B10D			F				3	1G1D	
	3	C10D			G		EMERGENCY AIR COMP.		ELECT. FEED	Y/N	
REACTOR COOLANT PUMPS	1	H4D			H				1	IC14X	
	2	E4D							2	2C14X	
	3	F4D									
	4	G4D									
CONDENSATE PUMPS	1	H1D									
	2	E1D									
	3	F1D									
CIRC WATER PUMPS	1A	U1 / U2									
	1B	2AD/2AD									
	2A	7BD/7BD									
	2B	3AD/3AD									
	3A	6BD/6BD									
	3B	4AD/4AD									
		5BD/5BD									
COMMENTS:											

LICENSED OPERATOR REVIEW: \_\_\_\_\_  
INITIALS

# Operational Status Board – Salem

UPDATE: 

--	--

  
TIME DATE

UNIT # 

--

**I. EMERGENCY CORE COOLING SYSTEM**

Cent. Charg. Pump Flow (BIT flow)	<table border="1" style="width: 100%; height: 20px;"></table>	GPM
SI P flow # <u>  </u> 1	<table border="1" style="width: 100%; height: 20px;"></table>	GPM
SI P flow # <u>  </u> 2	<table border="1" style="width: 100%; height: 20px;"></table>	
RHR P flow # <u>  </u> 1	<table border="1" style="width: 100%; height: 20px;"></table>	GPM
RHR P flow # <u>  </u> 2	<table border="1" style="width: 100%; height: 20px;"></table>	GPM
RWST LEVEL	<table border="1" style="width: 100%; height: 20px;"></table>	FT

**II. CONTAINMENT**

Cont. Pressure	<table border="1" style="width: 100%; height: 20px;"></table>	PSIG
Cont. Temperature (AVG)	<table border="1" style="width: 100%; height: 20px;"></table>	F
Cont. H <sub>2</sub> Concen.	<table border="1" style="width: 100%; height: 20px;"></table>	%
Cont. Sump level	<table border="1" style="width: 100%; height: 20px;"></table>	%
Cont. Rad (hi range) <u>  </u> R44A	<table border="1" style="width: 100%; height: 20px;"></table>	R/hr
Cont. Rad (hi range) <u>  </u> R44B	<table border="1" style="width: 100%; height: 20px;"></table>	R/hr

**III. REACTOR COOLANT SYSTEM**

# of RCPs Running	<table border="1" style="width: 100%; height: 20px;"></table>	
RVLIS (full range)	<table border="1" style="width: 100%; height: 20px;"></table>	%
Core Exit Thermocouple (hottest)	<table border="1" style="width: 100%; height: 20px;"></table>	F
# of Thermocouples > 1200 °F	<table border="1" style="width: 100%; height: 20px;"></table>	
Tc Loop <u>  </u> 1	<table border="1" style="width: 100%; height: 20px;"></table>	F
Tc Loop <u>  </u> 2	<table border="1" style="width: 100%; height: 20px;"></table>	F
Tc Loop <u>  </u> 3	<table border="1" style="width: 100%; height: 20px;"></table>	F
Tc Loop <u>  </u> 4	<table border="1" style="width: 100%; height: 20px;"></table>	F
*Tave (Autoneered) *If no RCPs running, Tave on	<table border="1" style="width: 100%; height: 20px;"></table>	F
PZR/RCS Pressure <i>the Control Console is invalid.</i>	<table border="1" style="width: 100%; height: 20px;"></table>	PSIG
PZR Level (hot)	<table border="1" style="width: 100%; height: 20px;"></table>	%
Th Loop <u>  </u> 1	<table border="1" style="width: 100%; height: 20px;"></table>	F
Th Loop <u>  </u> 2	<table border="1" style="width: 100%; height: 20px;"></table>	F
Th Loop <u>  </u> 3	<table border="1" style="width: 100%; height: 20px;"></table>	F
Th Loop <u>  </u> 4	<table border="1" style="width: 100%; height: 20px;"></table>	F
Reactor Power/Neutron flux	<table border="1" style="width: 100%; height: 20px;"></table>	%/amps/CPS
Subcooling Margin	<table border="1" style="width: 100%; height: 20px;"></table>	F

**IV. C.V.C.S**

Letdown flow	<table border="1" style="width: 100%; height: 20px;"></table>	GPM
Charging flow	<table border="1" style="width: 100%; height: 20px;"></table>	GPM

**V. SECONDARY COOLANT SYSTEM**

NO. <u>  </u> 1 SG level	<table border="1" style="width: 100%; height: 20px;"></table>	% (NR or WR)
NO. <u>  </u> 2 SG level	<table border="1" style="width: 100%; height: 20px;"></table>	% (NR or WR)
NO. <u>  </u> 3 SG level	<table border="1" style="width: 100%; height: 20px;"></table>	% (NR or WR)
NO. <u>  </u> 4 SG level	<table border="1" style="width: 100%; height: 20px;"></table>	% (NR or WR)
NO. <u>  </u> 1 SG pressure	<table border="1" style="width: 100%; height: 20px;"></table>	PSIG
NO. <u>  </u> 2 SG pressure	<table border="1" style="width: 100%; height: 20px;"></table>	PSIG
NO. <u>  </u> 3 SG pressure	<table border="1" style="width: 100%; height: 20px;"></table>	PSIG
NO. <u>  </u> 4 SG pressure	<table border="1" style="width: 100%; height: 20px;"></table>	PSIG
NO. <u>  </u> 1 SG feedflow	<table border="1" style="width: 100%; height: 20px;"></table>	% or LBS/HR
NO. <u>  </u> 2 SG feedflow	<table border="1" style="width: 100%; height: 20px;"></table>	% or LBS/HR
NO. <u>  </u> 3 SG feedflow	<table border="1" style="width: 100%; height: 20px;"></table>	% or LBS/HR
NO. <u>  </u> 4 SG feedflow	<table border="1" style="width: 100%; height: 20px;"></table>	% or LBS/HR
AFST level	<table border="1" style="width: 100%; height: 20px;"></table>	%

**VI. MISC. TANKS LEVEL**

Waste Hold-Up Tank # <u>  </u> 1	<table border="1" style="width: 100%; height: 20px;"></table>	%
Waste Hold-Up Tank # <u>  </u> 2	<table border="1" style="width: 100%; height: 20px;"></table>	%
Waste Monitor HUT	<table border="1" style="width: 100%; height: 20px;"></table>	%

**VII. SSCL INFORMATION**

Offsite power available?	<table border="1" style="width: 100%; height: 20px;"></table>	YES	NO
Two or more diesels available?	<table border="1" style="width: 100%; height: 20px;"></table>		
Did ECCS actuate?	<table border="1" style="width: 100%; height: 20px;"></table>		
Is the containment barrier failed?	<table border="1" style="width: 100%; height: 20px;"></table>		

<b>SIGNIFICANT PLANT EVENTS</b>	

Licensed Operator Review 

--

 Initials

# STATION STATUS CHECKLIST

(Pg. 1 of 2)

## Operational Information

SALEM GENERATING STATION Unit No. \_\_\_\_\_ Message Date \_\_\_\_\_ Time \_\_\_\_\_

Transmitted By: Name \_\_\_\_\_ Position \_\_\_\_\_  
(CR/TSC/EOF)

1. Date and Time Event Declared: Date \_\_\_\_\_ Time \_\_\_\_\_ (24 hr clock)

2. Event Classification:  Unusual Event  Site Area Emergency  
 Alert  General Emergency

3. Cause of Event: Primary Initiating Condition used for declaration

EAL #(s) \_\_\_\_\_

Description of the event \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Status of Reactor:  Tripped/Time \_\_\_\_\_  At Power  Startup  
 Hot Standby  Hot Shutdown  Cold Shutdown  Refuel

5. RZR/RCS Pressure \_\_\_\_\_ psig Core Exit TC \_\_\_\_\_ °F

6. Is offsite power available?  YES  NO

7. Are two or more diesel generators available?  YES  NO

8. Did any Emergency Core Cooling Systems actuate?  YES  NO

9. Is the Containment barrier failed? (Loss per EAL section 3.3)  YES  NO

10. Other pertinent information \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Approved: \_\_\_\_\_  
EC or TSS or SSM

STATION STATUS CHECKLIST  
(PAGE 2 OF 2)  
RADIOLOGICAL INFORMATION

ECG  
ATT 8  
Pg. 8 of 9

SALEM GENERATING STATION UNIT NUMBER: \_\_\_\_\_ CALCULATION TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

1. GASEOUS RELEASE>TECH SPEC (T/S) LIMITS:

(T/S LIMITS: 2.42 E+05  $\mu$ Ci/sec NG or 2.1E+01  $\mu$ Ci/sec IODINE)

YES: [ ] RELEASE START TIME: \_\_\_\_\_ DATE: \_\_\_\_\_

NO: [ ]

A. RELEASE TERMINATED: YES [ ] NO [ ] N/A [ ]

B. ANTICIPATED OR UNKNOWN DURATION OF RELEASE: \_\_\_\_\_ HOURS

C. TYPE OF RELEASE: GROUND [ ] ELEVATED: [ ] N/A [ ]

D. ADJUSTED WIND SPEED: \_\_\_\_\_ (mph) \_\_\_\_\_ (m/sec) WIND DIR (deg from) \_\_\_\_\_

E. STABILITY CLASS: \_\_\_\_\_ (A-G) DELTA T: \_\_\_\_\_ (deg C)

F. VENT PATH OF RELEASE: R41 [ ] R45B/C [ ] R44 [ ] R46 [ ]

G. NG RELEASE RATE: R41 \_\_\_\_\_ R45B/C \_\_\_\_\_ R44 \_\_\_\_\_

R46 \_\_\_\_\_ ( $\mu$ Ci/sec)

H. I-131 RELEASE RATE: R41 \_\_\_\_\_ R45B/C \_\_\_\_\_ R44 \_\_\_\_\_

R46 \_\_\_\_\_ DEFAULT ( $\mu$ Ci/sec) (circle if default)

I. TOTAL RELEASE RATE NOBLE GAS: \_\_\_\_\_ ( $\mu$ Ci/sec)

J. TOTAL RELEASE RATE IODINE-131: \_\_\_\_\_ ( $\mu$ Ci/sec)

2. PROJECTED OFFSITE DOSE RATE CALCULATIONS:

DISTANCE FROM VENT (IN MILES)	XU/Q (1/M2)	TEDE RATE (MREM/HR)	TEDE DOSE (4 DAY) (MREM)	THYROID-CDE RATE (MREM/HR)	THYROID-CDE DOSE (MREM)
MEA 0.79	_____	_____	_____	_____	_____
2.00	_____	_____	_____	_____	_____
LPZ 5.00	_____	_____	_____	_____	_____
EPZ 10.00	_____	_____	_____	_____	_____

3. OTHER PERTINENT INFORMATION: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. UPDATE TO STATES (IF VERBALLY TRANSMITTED):

	NAME	TIME	INITIALS
STATE OF NEW JERSEY:	_____	_____	_____
STATE OF DELAWARE:	_____	_____	_____
AGENCY:	_____	_____	_____

APPROVED: \_\_\_\_\_  
EC or RAC or RSM

**Common Site Unusual Event  
STATION STATUS CHECKLIST**

**Operational Information**

Message Date \_\_\_\_\_ Time \_\_\_\_\_

Transmitted by: Name \_\_\_\_\_ Position \_\_\_\_\_

1. Date and Time Event Declared: Date \_\_\_\_\_ Time: \_\_\_\_\_

2. Cause of event: Primary Initiating Condition used for declaration

EAL# \_\_\_\_\_

Description of the event:

\_\_\_\_\_

\_\_\_\_\_

33FT. LEVEL WIND DIRECTION (From): \_\_\_\_\_ WIND SPEED \_\_\_\_\_  
(From MET Computer) (DEGREES) (MPH)

3. Status of the Reactors	Mode: (Power, Startup, Hot Standby, Hot S/D, Cold S/D, Refuel)	Rx Pressure	Hottest Core Exit TC / Rx Temp	Rx Water Level
Salem 1		psig	°F	covered
Salem 2		psig	°F	covered
Hope Creek		psig	°F	in.

	Salem 1		Salem 2		Hope Creek	
	YES	NO	YES	NO	YES	NO
4. Is offsite power available?						
5. Are two or more diesel generators operable?						
6. Did any Emergency Core Cooling Systems actuate?						
7. Is any Containment Barrier failed? (Loss per EAL section 3.3)						
8. Radiological release (> Tech Spec Limit) in progress		X		X		X

9. Other pertinent information \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
EC Initials  
(Approval to Transmit ICMF)

SALEM GENERATING STATION  
EVENT CLASSIFICATION GUIDE TECHNICAL BASIS  
October 10, 2000

PSE&G  
CONTROL

SECG0101

CHANGE PAGES FOR  
REVISION #07

The Table of Contents forms a general guide to the current revision of each section and attachment of the Salem ECG Technical Basis. The changes that are made in this TOC Revision #07 are shown below.

1. Check that your revision packet is complete.
2. Add the revised documents.
3. Remove and recycle the outdated material listed below.

ADD			REMOVE		
<u>Pages</u>	<u>Description</u>	<u>Rev.</u>	<u>Pages</u>	<u>Description</u>	<u>Rev.</u>
ALL	TOC	7	ALL	TOC	6
All	EAL Section 9.1	1	All	EAL Section 9.1	0

Summary of significant changes:

1. Added clarification to the Site Area Emergency unarmed intruder security event.
2. Changed SNSS to OS.
3. Deleted reference to PSE&G.

**SALEM ECG TECHNICAL BASIS**  
**TABLE OF CONTENTS/SIGNATURE PAGE**

**COPY #** SECC50101

<u>SECTION</u>	<u>TITLE</u>	<u>REV #</u>	<u>PAGES</u>	<u>DATE</u>
T.O.C.	<b>Table of Contents/Signature Page</b>	07	3	10/10/00
i	<b>Introduction and Usage</b>	00	3	01/21/97
ii	<b>Glossary of Acronyms &amp; Abbreviations</b>	00	6	01/21/97
1.0	<b>Fuel Clad Challenge</b>	01	4	12/29/99
2.0	<b>RCS Challenge</b>	02	2	07/24/00
3.0	<b>Fission Product Barriers (Table)</b>			
	3.1 Fuel Clad Barrier	01	20	12/29/99
	3.2 RCS Barrier	01	16	12/29/99
	3.3 Containment Barrier	03	25	07/24/00
4.0	<b>EC Discretion</b>	00	8	01/21/97
5.0	<b>Failure to Trip</b>	01	8	12/29/99
6.0	<b>Radiological Releases/Occurrences</b>			
	6.1 Gaseous Effluent Release	00	42	01/21/97
	6.2 Liquid Effluent Release	00	4	01/21/97
	6.3 In - Plant Radiation Occurrences	00	6	01/21/97
	6.4 Irradiated Fuel Event	00	10	01/21/97
7.0	<b>Electrical Power</b>			
	7.1 Loss of AC Power Capabilities	01	11	12/29/99
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8.0	<b>System Malfunctions</b>			
	8.1 Loss of Heat Removal Capability	01	10	12/29/99
	8.2 Loss of Overhead Annunciators	02	6	07/24/00
	8.3 Loss of Communications Capability	00	4	01/21/97
	8.4 Control Room Evacuation	00	4	01/21/97
	8.5 Technical Specifications	00	2	01/21/97
9.0	<b>Hazards - Internal/External</b>			
	9.1 Security Threats	01	8	10/10/00
	9.2 Fire	01	6	12/29/99
	9.3 Explosion	01	5	12/29/99
	9.4 Toxic/Flammable Gases	01	11	12/29/99
	9.5 Seismic Event	01	4	12/29/99
	9.6 High Winds	00	5	01/21/97
	9.7 Flooding	01	4	12/29/99
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**SALEM ECG TECHNICAL BASIS  
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10.0	<b>Reserved for future use</b>			
Licensing is responsible for the Reportable Action Level (Section 11)				
11.0	<b>Reportable Action Levels (RALs)</b>			
	11.1 Technical Specifications	00	8	01/21/97
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**SIGNATURE PAGE**

Prepared By: William Detwiler, Rev. 0 09/26/00  
(If Editorial Revisions Only, Last Approved Revision) Date

Section/Attachments Revised: N/A 09/26/00  
(List Non Editorial Only - Section/Attachments) Date

Reviewed By: N/A \_\_\_\_\_  
Station Qualified Reviewer Date

Reviewed By: NA \_\_\_\_\_  
Department Manager Date

Reviewed By: N/A \_\_\_\_\_  
Manager - Licensing  
(Reportable Action Level (Section 11)) Date

Reviewed By:  \_\_\_\_\_ 10/2/00  
Manager - EP, & IT Date

Reviewed By: NA \_\_\_\_\_  
Manager - Quality Assurance  
(If Applicable) Date

**SORC Review and Station Approvals**

NA \_\_\_\_\_ NA \_\_\_\_\_  
Mtg. No. Salem Chairman Vice President - Nuclear Operations

NA \_\_\_\_\_ NA \_\_\_\_\_  
Date Date

Effective Date of this Revision: 10/10/00  
Date

PSE&G  
CONTROL  
#  
#SECG0101

**9.0 Hazards - Internal/External**

**9.1 Security Threats**

**UNUSUAL EVENT - 9.1.1**

**IC** Confirmed Security Event Which Indicates a Potential Degradation in the Level of Safety of the Plant

**EAL**

Confirmed security threat directed towards the station as evidenced by ANY one of the following:

- Credible threat of malicious acts or destructive device within the Protected Area resulting in **SCP-5** implementation
- Credible intrusion or assault threat to the Protected Area resulting in **SCP-5** implementation
- Attempted intrusion or assault to the Protected Area resulting in **SCP-7 OR SCP-11** implementation
- Malicious acts attempted or discovered within the Protected Area resulting in **SCP-10** implementation
- Hostage/Extortion situation that threatens normal plant operations resulting in **SCP-8** implementation
- Destructive Device discovered within the Protected Area resulting in **SCP-10** implementation

**MODE** - All

**BASIS**

A security threat that is identified as being directed towards the station represents a potential degradation in the level of safety of the plant. The intent of this EAL is to classify security events, which threaten the Protected Area, but have not been determined to threaten plant vital areas.

A security threat is confirmed if physical evidence supporting the threat exists, if information independent from the actual threat exists, or if a specific group claims responsibility for the threat. The OS/EC will declare an Unusual Event upon consulting with Security to determine the validity of the entry conditions. Security Contingency Procedure (SCP) numbers are referenced following each EAL threshold. Since some SCP numbers appear in more than one

EAL - 9.1.1

Rev. 01

EAL, the on-duty Security Supervisor will provide information concerning the specific event to aid in classification.

### **Barrier Analysis**

N/A

### **ESCALATION CRITERIA**

This event will be escalated to an Alert based upon an actual Protected Area intrusion, malicious acts, or destructive devices discovered within a Vital Area.

### **DISCUSSION**

Security events, which do not represent a potential degradation in the level of safety of the plant, are reported under RAL 11.7.1.a, an One Hour Non-Emergency Safeguards event. The following is an index of Security Contingency Procedures referenced by this event:

- SCP-5, "Security Threat"
- SCP-7, "Internal Disturbance"
- SCP-8, "Hostage Situation"
- SCP-10, "Discovery of Destructive Devices or Evidence of Malicious Acts"
- SCP-11, "Civil Disturbance"

### **DEVIATION**

None

### **REFERENCES**

NUMARC NESP-007, HU4.1, HU4.2  
Safeguards Contingency Plan

## 9.0 Hazards - Internal/External

### 9.1 Security Threats

#### ALERT - 9.1.2

IC Security Event in a Plant Protected Area

#### EAL

Confirmed hostile intrusion or malicious acts as evidenced by ANY one of the following:

- Discovery of an intruder(s), armed and violent, within the Protected Area resulting in SCP-6 implementation
- Hostage held on-site in a non-vital area resulting in SCP-8 implementation

MODE - All

#### BASIS

This class of security event represents an escalated threat to the level of safety of the plant. This event is confirmed if physical evidence supporting the hostile intrusion or assault exists. The intent of this EAL is to classify security events that represent an actual intrusion into the plant Protected Area. The OS/EC will declare an Alert upon consulting with the Security to determine the validity of the entry conditions.

Security Contingency Procedure (SCP) numbers are referenced following each EAL threshold. Since some SCP numbers appear in more than one EAL, the on-duty Security Supervisor will provide information concerning the specific event to aid in classification.

#### Barrier Analysis

N/A

#### ESCALATION CRITERIA

This event will be escalated to a Site Area Emergency based upon a hostile intrusion in plant Vital Areas.

EAL - 9.1.2

Rev. 01

## **DISCUSSION**

The following is an index of Security Contingency Procedures referenced by this event:

- **SCP-6**, "Discovery of Intruders or Attack"
- **SCP-8**, "Hostage Situation"

## **DEVIATION**

None

## **REFERENCES**

NUMARC NESP-007, HA4.1, HA4.2  
Safeguards Contingency Plan

## 9.0 Hazards - Internal/External

### 9.1 Security Threats

#### SITE AREA EMERGENCY - 9.1.3

**IC** Security Event in a Plant Vital Area

**EAL**

Confirmed hostile intrusion or malicious acts in Plant Vital Areas as evidenced by:

- Discovery of an intruder(s), armed and violent, within the Vital Area, resulting in SCP-6 implementation
- Malicious acts or destructive device discovered in a Vital Area, resulting in SCP-10 implementation

**MODE** - All

**BASIS**

The first condition covered in this EAL covers a class of security events that represents an escalated threat to plant safety above that contained in an Alert. This EAL concerns a hostile intrusion or assault that has progressed from the Protected Area to a Vital Area. The Vital Areas are within the Protected Area and are generally controlled by key card readers. These areas contain vital equipment, which includes any equipment, system, device or material required for safe shutdown and for protection of the health and safety of the public and plant personnel.

The second condition covered in this EAL is intended to cover the discovery of malicious acts or destructive devices that could cause significant damage to a plant vital structure or more than one safety system. For malicious acts or destructive devices discovered in a plant vital structure that cannot cause significant damage to a plant vital structure or more than one safety system, evaluate EAL 9.1.1.

The Security Contingency Procedure (SCP) number is referenced following the EAL threshold. Since some SCP numbers appear in more than one EAL, the on-duty Security Supervisor will provide information concerning the specific event to aid in classification.

EAL - 9.1.3  
Rev. 01

## **Barrier Analysis**

N/A

## **ESCALATION CRITERIA**

This event will be escalated to a General Emergency based upon the loss of physical control of the Control Room or Remote Shutdown Capability.

## **DISCUSSION**

The following is an index of the Security Contingency Procedure referenced by this event:

- **SCP-6**, "Discovery of Intruders or Attack"
- **SCP-10**, "Discovery of Destructive Devices or Evidence of Malicious Acts"

## **DEVIATION**

None

## **REFERENCES**

NUMARC NESP-007, HS1.1, HS1.2  
Safeguards Contingency Plan

## 9.0 Hazards - Internal/External

### 9.1 Security Threats

#### GENERAL EMERGENCY - 9.1.4

**IC** Security Event Resulting in Loss of Ability to Reach and Maintain Cold Shutdown

#### EAL

Security event resulting in the **actual loss of physical control** of EITHER one of the following:

- Control Room
- Remote Shutdown Panel 213

**MODE** - All

#### BASIS

Security events classified under this EAL represent conditions under which a hostile force has taken physical control of areas required to reach and maintain Cold Shutdown. Both the Control Room and Remote Shutdown Panel are included, since control of either could hamper the operating crew's ability to perform a safe plant shutdown. **Actual loss of physical control** is defined as the condition where licensed Control Room Operators can no longer take required action to operate the plant, including unauthorized transfer of plant equipment controlled from the Control Room.

#### Barrier Analysis

None

#### ESCALATION CRITERIA

N/A

#### DISCUSSION

The Remote Shutdown Panel 213 was the only panel included in this EAL due to its central location and ability to allow for **physical control** of multiple Safety Related components without detailed knowledge of plant operations. Security threats, which meet the threshold for declaration of a General Emergency, are an actual loss of physical control of the Control

EAL - 9.1.4

Rev. 01

Room or remote shutdown locations. This situation places the plant in a potentially unstable condition with high potential of multiple fission product barrier failures.

**DEVIATION**

None

**REFERENCES**

NUMARC NESP-007, HG1  
Safeguards Contingency Plan