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PSEG NUCLEAR
ONSITE IMPLEMENTING PROCEDURES
December 18, 2001

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CHANGE PAGES FOR
REVISION #18

The Table of Contents forms a general guide to the current revision of each section of the Onsite EPEPs. The changes that are made in this TOC Revision #18 are shown below. Please check that your revision packet is complete and remove the outdated material listed below:

ADD			REMOVE		
Page	Description	Rev.	Page	Description	Rev.
ALL	TOC	18	ALL	TOC	17
All	NC.EP-EP.ZZ-0101	01	All	NC.EP-EP.ZZ-0101	00

PSEG NUCLEAR LLC
EMERGENCY PLAN ONSITE IMPLEMENTING PROCEDURES
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EPIP059

STATION PROCEDURES

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NC.EP-EP.ZZ-0101(Q)	ACTIONS REQUIRED AT UNAFFECTED STATION	01	15	12/18/2001
NC.EP-EP.ZZ-0102(Q)	EMERGENCY COORDINATOR RESPONSE	04	22	11/09/2001
NC.EP-EP.ZZ-0201(Q)	TSC - INTEGRATED ENGINEERING RESPONSE	03	24	11/27/2001
NC.EP-EP.ZZ-0202(Q)	OPERATIONS SUPPORT CENTER (OSC) ACTIVATION AND OPERATIONS	02	29	05/24/2001
NC.EP-EP.ZZ-0203(Q)	ADMINISTRATIVE SUPPORT/ COMMUNICATION TEAM RESPONSE - TSC	01	14	09/14/2000
EPIP 204H	EMERGENCY RESPONSE CALLOUT/PERSONNEL RECALL	54	32	11/27/2001
EPIP 204S	EMERGENCY RESPONSE CALLOUT/PERSONNEL RECALL	54	32	11/27/2001
HC.EP-EP.ZZ-0205(Q)	TSC - POST ACCIDENT CORE DAMAGE ASSESSMENT	02	39	10/24/2000
SC.EP-EP.ZZ-0205(Q)	TSC - POST ACCIDENT CORE DAMAGE ASSESSMENT	01	82	05/24/2001
HC.EP-EP.ZZ-0301(Q)	SHIFT RADIATION PROTECTION TECHNICIAN RESPONSE	02	21	05/24/2001

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NC.EP-EP.ZZ-0302 (Q)	RADIOLOGICAL ASSESSMENT COORDINATOR RESPONSE	04	19	05/24/2001
NC.EP-EP.ZZ-0303 (Q)	CONTROL POINT - RADIATION PROTECTION RESPONSE	01	25	09/14/2000
NC.EP-EP.ZZ-0304 (Q)	OPERATIONS SUPPORT CENTER (OSC) RADIATION PROTECTION RESPONSE	03	20	05/24/2001
NC.EP-EP.ZZ-0305 (Q)	POTASSIUM IODIDE (KI) ADMINISTRATION	00	10	02/29/2000
NC.EP-EP.ZZ-0306 (Q)	EMERGENCY AIR SAMPLING	00	12	02/29/2000
NC.EP-EP.ZZ-0307 (Q)	PLANT VENT SAMPLING	00	13	02/29/2000
NC.EP-EP.ZZ-0308 (Q)	PERSONNEL/VEHICLE SURVEY AND DECONTAMINATION	00	16	02/29/2000
NC.EP-EP.ZZ-0309 (Q)	DOSE ASSESSMENT	02	78	05/24/2001
NC.EP-EP.ZZ-0310 (Q)	RADIATION PROTECTION SUPERVISOR - OFFSITE AND FIELD MONITORING TEAM RESPONSE	03	47	05/24/2001
NC.EP-EP.ZZ-0311 (Q)	CONTROL POINT - CHEMISTRY RESPONSE	01	17	01/09/2001
NC.EP-EP.ZZ-0312 (Q)	CHEMISTRY SUPERVISOR - CP/TSC RESPONSE	02	25	01/09/2001

ACTIONS REQUIRED AT UNAFFECTED STATION

COPY # EPIPO59

USE CATEGORY: **II**

REVISION SUMMARY:

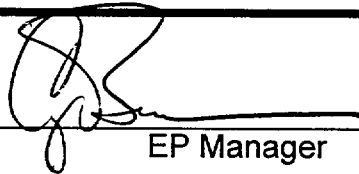
BIENNIAL REVIEW X YES NO

1. Combined steps 5.1.3.D & E
2. Added attachments which can be used to obtain telephone numbers for EDOs.
3. Added instructions to page 1 of accountability attachment to continue to next page.
4. Added "at the affected unit" to clarify who to contact for accountability results.
5. Added Security Emergency Guideline (SEG) and new step 5.1.1 to address actions at unaffected stations for a common site security based UE.
6. Corrected procedure references in Attachment 2

IMPLEMENTATION REQUIREMENTS

Implementation Date ⁴⁻¹⁸⁻⁰¹ ~~4/26/2001~~ 12-18-01

APPROVED: _____


EP Manager

12/02/01
Date

APPROVED: _____


Vice President - Operations

12/06/01
Date

ACTIONS REQUIRED AT UNAFFECTED STATION

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1.0 **PURPOSE**

1.1 This procedure provides emergency response instructions to the unaffected station's Operations Superintendent (OS) and Emergency Duty Officer (EDO) when an emergency event is declared at the other station (affected station).

2.0 **PREREQUISITES**

2.1 An emergency event has been declared at either Salem or Hope Creek.

3.0 **PRECAUTIONS AND LIMITATIONS**

3.1 Initials should be used in the place keeping sign-offs, instead of checkmarks.

3.2 Activation of the ERO Callout system is expected during an Unusual Event that is based on a Security Event as called for in Attachment 6, Security Emergency Guideline, (SEG).

4.0 **EQUIPMENT REQUIRED**

4.1 As provided in the Control Room and Technical Support Center (TSC).

5.0 **PROCEDURE:**

NOTE

Since the Rad Alert alarm is located in the Control Room, the OS directs all emergency status announcements. However, when the EDO or ERM has the Emergency Coordinator duties, he/she is responsible for ensuring the proper announcements are made.

5.1 **Initial Actions:**

5.1.1 **IMPLEMENT SEG**, Security Emergency Guideline, if Security based emergency, IAW Attachment 6 of this procedure.

NOTE:

For Security based emergency, SEG (Att. 6) may require modifications of associated actions/announcements.

5.1.2 **IMPLEMENT Unusual Event, Assembly, or Accountability**, as requested by the affected station Emergency Coordinator:

Unusual Event
Attachment 5

ASSEMBLY
Attachment 4

ACCOUNTABILITY
Attachment 3

5.1.3 **IF** the emergency is an Alert or higher,
THEN the OS/EDO should:

A. **DIRECT** the OSC Coordinator to activate the OSC IAW EPEP 202.

NOTE

Determining available support personnel to assist the affected station is NOT necessary during normal work hours.

B. **CONTACT** Shift Radiation Protection Technician (Radiation Protection Supervisor during normal work hours) to determine radiological protection personnel available to support the affected station:

5.1.4 IF the emergency is a Site Area Emergency or General Emergency, THEN the OS/EDO should:

- A. **ESTABLISH** minimum staffing IAW Attachment 2 for the unaffected station on-site emergency response facilities. _____
- B. **DIRECT** designated communicator to initiate a limited callout to provide minimum staffing of the unaffected station, on-site emergency response facilities IAW Attachment 2. _____
- C. IF directed by the affected station Emergency Coordinator, THEN IMPLEMENT a full callout of emergency response personnel. **LOCATE** the confidential envelope in the Operations Superintendent (O.S.) Desk marked "Emergency Callout". Remove the card that contains the Emergency Callout System activation steps; and follow the directions. When complete return to this procedure. _____
- D. **DISCUSS** unaffected station unit shutdown or load/power level reduction with the Emergency Coordinator AND with Load Dispatcher (Senior System Operator). _____
- F. **MONITOR** station for habitability based on event conditions, AND CONSIDER evacuating station or response facilities as radiological conditions dictate.
 - a. IF circumstances indicate the need to fully activate your station's on-site emergency response facilities, THEN NOTIFY the affected station OS and EDO of actions being taken. _____
 - b. IF your station has indication that conditions at the affected unit may be degrading, THEN NOTIFY the Emergency Coordinator to make the new classification. _____
- G. **DIRECT** the Shift Rad Pro Tech (SRPT) or Radiological Assessment Coordinator (RAC) to ensure assessment of the Control Room habitability is performed. _____

5.2 Turnover

5.2.1 IF relief is required, THEN PROVIDE turnover to the EDO (USE Attachment 1, OS/EDO Emergency Status Briefing Form). _____

6.0 **RECORDS**

Forward all completed ECG Attachments / EPEPs / attachments / forms to Manager – CA, EP, & IT.

7.0 **REFERENCES**

7.1 **References**

7.1.1 Nuclear Business Unit Emergency Plan

7.1.2 NUREG-0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants

7.1.3 PSE&G Nuclear Business Unit, NC.NA-AP.ZZ-0001(Q), Nuclear Procedure System

7.1.4 PSE&G Nuclear Business Unit, NC.NA-WG.ZZ-0001(Z), Procedure Writer's Guide,

7.2 **Cross-References**

7.2.1 NC.EP-EP.ZZ-0405(Q), Emergency Termination/Reduction/Recovery

7.2.2 Hope Creek Event Classification Guide (ECG)

7.2.3 Salem Event Classification Guide (ECG)

7.2.4 P-SO.CAV-0001 (Q), Control Room Ventilation Operation

7.2.5 NC.EP-EP.ZZ-0102(Z), EMERGENCY COORDINATOR RESPONSE, Attachment 10, SEG.

ATTACHMENT 1
 Page 1 of 2
OS/EDO EMERGENCY STATUS BRIEFING FORM

NOTE

Completion of this Attachment is optional. However, the information listed is useful for providing a thorough turnover to the EDO.

1. EAL that is the basis for the emergency classification:

	Unusual Event	Alert	Site Area Emergency	General Emergency
a. EAL(s)#	_____	_____	_____	_____
		_____	_____	_____
			_____	_____
b. Time declared	_____	_____		_____
c. PAR based on 10 points?			Wind dir. (from)	
	_____ Yes	_____ NO		
d. Accountability? Results:	_____ Yes	_____ NO	Time	_____

2. Status of important safety systems:

3. Status of fuel cladding, reactor coolant system, and containment integrity:

4. Unusual radiological conditions currently existing:

ATTACHMENT 1

Page 2 of 2

5. OSC activated? (YES NO) Time Activated _____
In-Plant emergency actions underway (OSC priorities):

6. Identification of "out-of-service" equipment that needs repair: (not on priority list)

7. Offsite emergency actions underway (Did a release occur? Have field-monitoring teams been dispatched? State's PADs, Etc.)

8. Prognosis for the situation to improve or worsen:

9. Adequacy of current Control Room staffing (Is an additional person needed to assist with communications?)

10. Emergency Operating Procedures (EOPs) being implemented.

11. Other:

ATTACHMENT 2
 Page 1 of 1
MINIMUM STAFFING CALLOUT LOG

1. WHEN directed by the OS, THEN COMPLETE Part A, Event Description.
2. **CONTACT** the persons in Part B – Minimum Staffing Callout, as determined by the OS AND READ Part A – Event Description.
3. **INFORM** each individual contacted to call out their organization as appropriate to provide minimum staffing of the unaffected station Control Point, TSC, or OSC, as applicable.
4. **PROVIDE** this completed Attachment to the OS.

PART A – EVENT DESCRIPTION

This is _____, Communicator in the
 (HOPE CREEK – SALEM) Control Room:
Circle one – cross out the other

_____ declared (a UE, an Alert, an SAE, an GE) at _____.
Circle one – cross out the other
 (Affected Station) (Time)
 Due to:

PART B – MINIMUM STAFFING CALLOUT

<u>TITLE</u>	<u>REFERENCE FOR TELEPHONE NUMBER</u>	<u>INDIVIDUAL CONTACTED</u>	<u>TIME</u>
1. Emergency Duty Officer (EDO)	Posted roster for EDO <u>OR</u> EPIP 204S ATT.2A <u>OR</u> EPIP 204H ATT 2A	_____	_____
2. Technical Support Supervisor (TSS)	EPIP 204S ATT. 2A <u>OR</u> EPIP 204H ATT 2A	_____	_____
3. Radiological Assessment Coordinator (RAC)	EPIP 204S ATT. 2A <u>OR</u> EPIP 204H ATT 2A	_____	_____
4. Chemistry Supervisor	EPIP 204S ATT. 2A <u>OR</u> EPIP 204H ATT 2A	_____	_____
5. OSC Coordinator (OSCC)	EPIP 204S ATT. 2B <u>OR</u> EPIP 204H ATT 2B	_____	_____
6. Technical Support Team Leader (TSTL)	EPIP 204S ATT. 3 <u>OR</u> EPIP 204H ATT 3	_____	_____

DATE: _____

ATTACHMENT 3
Page 1 of 2
ACCOUNTABILITY ACTIONS AND RESULTS

Initials/Time

+0 Min

SOUND

RAD ALERT ALARM

AND

ANNOUNCE TWICE

"ATTENTION, ATTENTION ALL ACCOUNTABILITY STATIONS.
IMPLEMENT ACCOUNTABILITY.

 /
Announcer

+20 Min after above announcement was made.

ANNOUNCE TWICE

"ATTENTION, ATTENTION. ALL ACCOUNTABILITY STATIONS.
COMPLETE ACCOUNTABILITY.

 /
Announcer

(Instructions for the OS to perform accountability continue on next page.)

ATTACHMENT 3

Page 2 of 2

Initials

+30 min after implement accountability announcement was made.

1. OBTAIN from Security a list of unaccounted personnel. IF Security has not supplied results of the accountability within 30 minutes of the first accountability announcement, THEN contact the TSC Security Liaison at the affected unit and request accountability results.

Hope Creek
NETS X5214

Salem
NETS X5117

EDO/OS

2. DESIGNATE an individual to attempt to locate unaccounted personnel as follows:

- A. Page individuals over the plant page.
- B. Obtain feedback from unaccounted person's co-workers/supervisors on last known location/job assignment.
- C. Call individual's home to verify work schedule.
- D. Request Security's assistance in locating unaccounted personnel.

EDO/OS

3. UPDATE Security as missing personnel are located.

EDO/OS

4. INITIATE search and rescue operations in accordance with EPEP 202, OSC Activation and Operations, if appropriate.

EDO/OS

5. As the situation dictates and/or as radiological conditions permit:
IF all onsite Emergency Response Facilities are completely staffed,
THEN release/evacuate extra personnel who reported to the OSC, TSC, CP or Maintenance Shop for accountability.

EDO/OS

ATTACHMENT 4
Page 1 of 1
EMERGENCY ASSEMBLY MESSAGE

Initials

SOUND

RAD ALERT ALARM

AND

ANNOUNCE TWICE

“ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.
(HOPE CREEK – SALEM) IS IN

Circle one – cross out the others

(AN ALERT – A Site Area Emergency – A General Emergency)

ALL PSE&G PERSONNEL REPORT TO YOUR ASSIGNED ASSEMBLY
AREA. ALL CONTRACTORS LEAVE THE SITE IMMEDIATELY.

Announcer

RADIO

REPEAT EMERGENCY ANNOUCEMENT MESSAGE

Announcer

ATTACHMENT 5
Page 1 of 1
UNUSUAL EVENT MESSAGE

Initials

SOUND

RAD ALERT ALARM

AND

ANNOUNCE TWICE

“ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.
(HOPE CREEK – SALEM) IS IN AN UNUSUAL EVENT .
Circle one – cross out the other

Announcer

RADIO

REPEAT UNUSUAL EVENT ANNOUCEMENT MESSAGE

Announcer

ATTACHMENT 6
Page 1 of 3
SECURITY EMERGENCY GUIDELINE (SEG)

I. ENTRY CONDITIONS:

Security based common site Unusual Event or security based Alert or higher is declared at the affected station. (Continue these actions until the security threat is averted or other specific direction is provided in response to the event).

II. PROMPT ACTIONS

1. **IF** entry into this guideline was based on a Security Event classified at an ALERT or higher level at the affected station, (EAL 9.1.2 or 9.1.3 or 9.1.4) AND, the Security Event/Threat is ongoing, **OR,**

IF Operation's Superintendent (OS) judgment is that a credible threat to plant structures/equipment is imminent by a security event in progress,

THEN:

- **SCRAM/TRIP** the reactor. If time allows, ensure scrambling/tripping the reactor is coordinated with the other unit to prevent tripping all three units concurrently. (HC.OP-AB.ZZ-0000 & S1(2)-EOP-TRIP-001)
- **COMMENCE** plant cool down to cold shutdown. (HC.OP.IO.ZZ-0004 & S1(2).OP-IO.ZZ-0006)
- **START** Emergency Diesel Generators. Do not load. (HC.OP-SO.KJ-0001 & S1(2).OP-SO.DG-001, 002, 003)
- (SALEM ONLY) **PLACE** the Control Room Ventilation in the Fire Outside Control Room Mode IAW S1(2).OP-SO.CAV-0001.
- (HOPE CREEK ONLY) **PLACE** the Control Room Ventilation in the Recirculation Mode IAW HC.OP-SO.GK-0001.

2. **IF** entry into this guideline was based on a Security Event classified at an UNUSUAL EVENT level,

THEN:

- **Call-out** the Emergency Response Organization (ERO) by locating the confidential envelope in the Operations Superintendent (OS) desk marked "Emergency Callout", remove the card that contains the callout system activation steps and follow the directions.

ATTACHMENT 6 - SEG

Page 2 of 3

3. **IF/WHEN** Assembly or Accountability and Evacuation is directed by the affected stations's emergency coordinator (EC),
 - **MODIFY** plant page announcements as directed by the EC as needed to maximize the safety of the plant and plant personnel.
 - Assembly announcement is directed in Attachment 4.
 - Accountability/Evacuations announcement is directed in Attachment 3.

III. SUBSEQUENT ACTIONS

- 1 **IF** in an outage condition,

THEN:

- **TERMINATE** fuel movement. Place any currently loaded fuel bundles in a safe location (preferably either the original location or destination location).
 - **TERMINATE** Containment Purge
 - **ESTABLISH** Containment Integrity
3. **TERMINATE** planned releases that are in-progress.
 4. (SALEM ONLY) **START** Unit 3 if needed to provide additional backup power capability.
 5. (HOPE CREEK ONLY) **WHEN** the OSC is staffed, **DIRECT** the OSCC to have the TSC staff align the TSC ventilation system in Recirculation Mode .
 6. (SALEM ONLY) **WHEN** the OSC is staffed, **DIRECT** the OSCC to have the Salem TSC staff align the TSC ventilation in the "Operations During Toxic or Chemical Release" lineup, (SC.OP-SO.TSC-0051).
 7. **ENSURE** the availability of injection systems by performing the following:
 - Terminate surveillance activities and restore systems to a normal standby alignment.
 - Ensure the Condensate Storage Tank is filled to the upper end of the normal operating band.

ATTACHMENT 6- SEG

Page 3 of 3

- Ensure the Demineralized Water Storage Tanks are filled to the upper end of the normal operating band.
- Ensure RAP tanks (RWST, AFWST, & PWST) at Salem 1 & 2 are filled to the upper end of the normal operating band.
- Ensure the potable and firewater storage tanks are at normal capacity.
- Verify firewater header pressure is normal.
- RETURN to step 5.1.2 of this procedure and continue implementation.